

UAB „PROJEKTA”*Įmonės kodas 300512384*


S. Neries g. 7, Vilnius

Tel.: 8 600 26922

el.p.: info@projekta.lt**UAB "AXIS LINEA"**

Įmonės kodas 304437566

| | |
|----------------------------|---|
| STATYTOJAS | UAB MERKADUS |
| STATINIO PROJEKTAS | MTEP TECHNOLOGINIO CENTRO MOLĖTŲ R. SAV. JONIŠKIS STATYBOS PROJEKTAS |
| STATINIO ADRESAS | MOLĖTŲ R. SAV. JONIŠKIS |
| STATYBOS RŪŠIS | NAUJA STATYBA |
| STATINIO PASKIRTIS | MOKSLO PASKIRTIES PASTATAS (8.11) |
| STATINIO KATEGORIJA | NEYPATINGAS STATINYS |
| PROJEKTO ETAPAS | DARBO PROJEKTAS (DP) |
| KOMPLEKSO NUMERIS | 2020-03/2-DP-SK |
| TOMAS | SK |
| DALIS | KONSTRUKCINĖ ANŽEMINĖ DALIS |

| | | | |
|-----------------------|------------------|------------------|---|
| PAREIGOS | ATESTATAS | PAVARDĖ | PARAŠAS |
| PV | A1997 | L. BLAUZDAVIČIUS | |
| PDV KONSTRUKTORIUS | 19978 | R.DIŠKEVIČIUS |  |

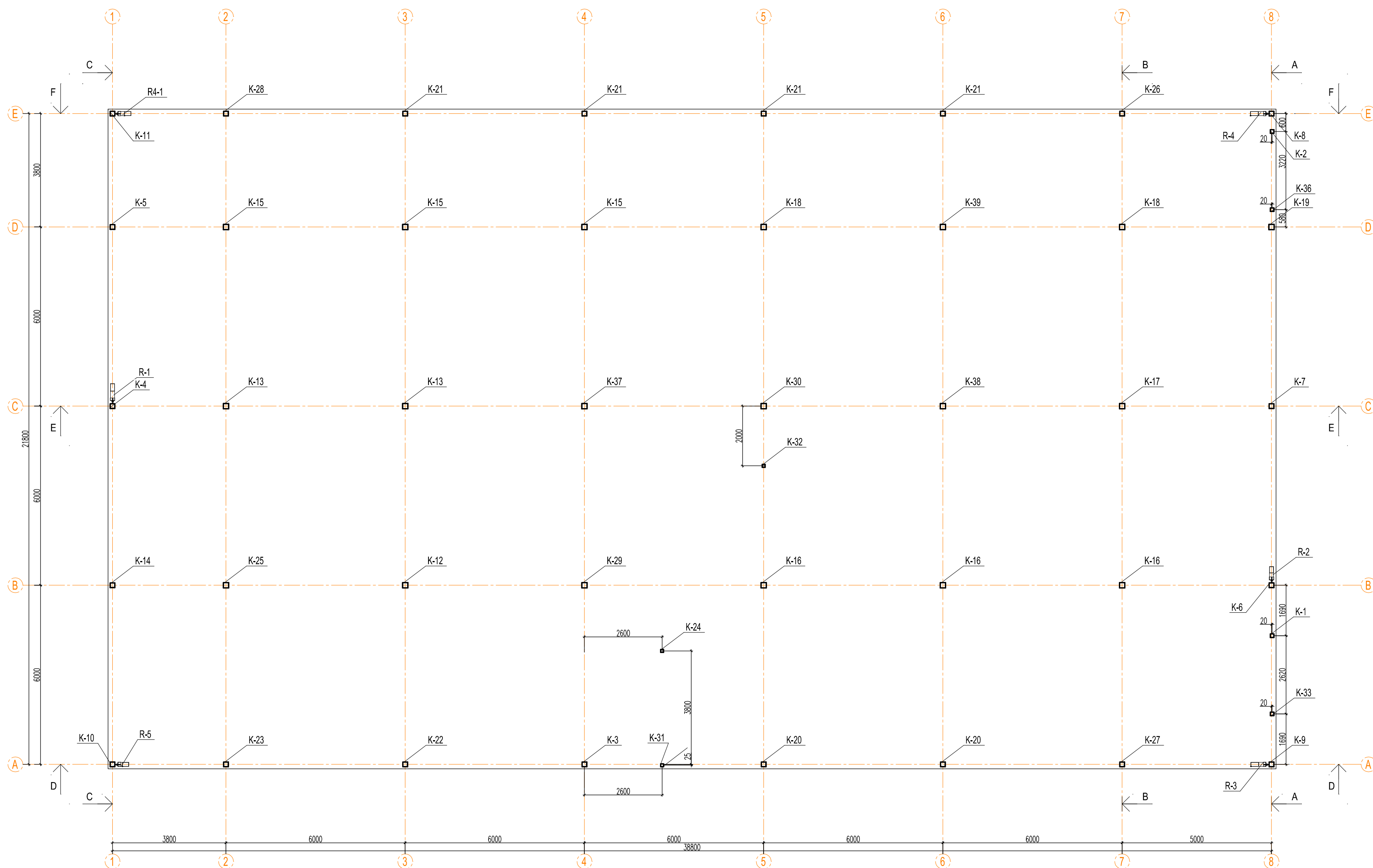
KONSTRUKCIJŲ DALIES (K) DOKUMENTŲ ŽINIARAŠTIS

| Eilės. Nr. | Žymuo | Dokumento žymuo | Lapų sk. | Laida |
|-----------------|----------------------------|---|-------------|-------|
| 5. | Brėžiniai | | | |
| 5.16. | Kolonų planas | 2020-03/2-DP-SK-B-04 | 1 | 0 |
| 5.17. | Antresolės sijų planas | 2020-03/2-DP-SK-B-05 | 1 | 0 |
| 5.18. | C profiliai | 2020-03/2-DP-SK-B-05.1 | 1 | 0 |
| 5.19. | Stogo sijų ir ryšių planas | 2020-03/2-DP-SK-B-06 | 1 | 0 |
| 5.20. | Stogo ilginių planas | 2020-03/2-DP-SK-B-07 | 1 | 0 |
| 5.21. | Z profiliai | 2020-03/2-DP-SK-B-07.1 | 1 | 0 |
| 5.23. | Z profiliai | 2020-03/2-DP-SK-B-07.2 | 1 | 0 |
| 5.24. | Stogo konstrukcijų planas | 2020-03/2-DP-SK-B-08 | 1 | 0 |
| 5.25. | Sienų plokščių išklotinės | 2020-03/2-DP-SK-B-09 | 1 | 0 |
| 5.26. | Pjūvis A-A | 2020-03/2-DP-SK-B-10 | 1 | 0 |
| 5.27. | Pjūvis B-B | 2020-03/2-DP-SK-B-11 | 1 | 0 |
| 5.28. | Pjūvis C-C | 2020-03/2-DP-SK-B-12 | 1 | 0 |
| 5.29. | Pjūviai D-D, E-E, F-F | 2020-03/2-DP-SK-B-13 | 1 | 0 |
| 5.30. | Mazgas „A“ | 2020-03/2-DP-SK-B-14.1 | 1 | 0 |
| 5.31. | Mazgas „B“ | 2020-03/2-DP-SK-B-14.2 | 1 | 0 |
| 5.32. | Mazgas „C“ | 2020-03/2-DP-SK-B-14.3 | 1 | 0 |
| 5.33. | Mazgas „D“ | 2020-03/2-DP-SK-B-14.4 | 1 | 0 |
| 5.34. | Mazgas „E“ | 2020-03/2-DP-SK-B-14.5 | 1 | 0 |
| 5.36. | Mazgas „F“ | 2020-03/2-DP-SK-B-14.6 | 1 | 0 |
| 5.37. | Mazgai „G“, „H“ | 2020-03/2-DP-SK-B-14.7 | 1 | 0 |
| 5.38.- 5.75 | Kolona K-1... K-39 | 2020-03/2-DP-SK-B-B1 - 2020-03/2-DP-SK-B-B37 | 37 | 0 |
| 5.76.- 5.87 | Kolona HR-1... HR-12 | 2020-03/2-DP-SK-B-B38 - 2020-03/2-DP-SK-B-B48.1 | 12 | 0 |
| 5.88.- 5.98 | Sija S-1... S-14 | 2020-03/2-DP-SK-B-B49 - 2020-03/2-DP-SK-B-B59 | 10 | 0 |
| 5.99 | Sija S2-1 | 2020-03/2-DP-SK-B-B60 | 1 | 0 |
| 5.100- 5.116 | Sija SA-1.....SA-16 | 2020-03/2-DP-SK-B-B62 - 2020-03/2-DP-SK-B-B75 | 13 | 0 |
| 5.117 | Sija S1-1 | 2020-03/2-DP-SK-B-B76 | 1 | 0 |
| 5.118 | Ryšis R1-1 | 2020-03/2-DP-SK-B-B77 | 1 | 0 |
| 5.119 | Ryšis R1-2 | 2020-03/2-DP-SK-B-B78 | 1 | 0 |

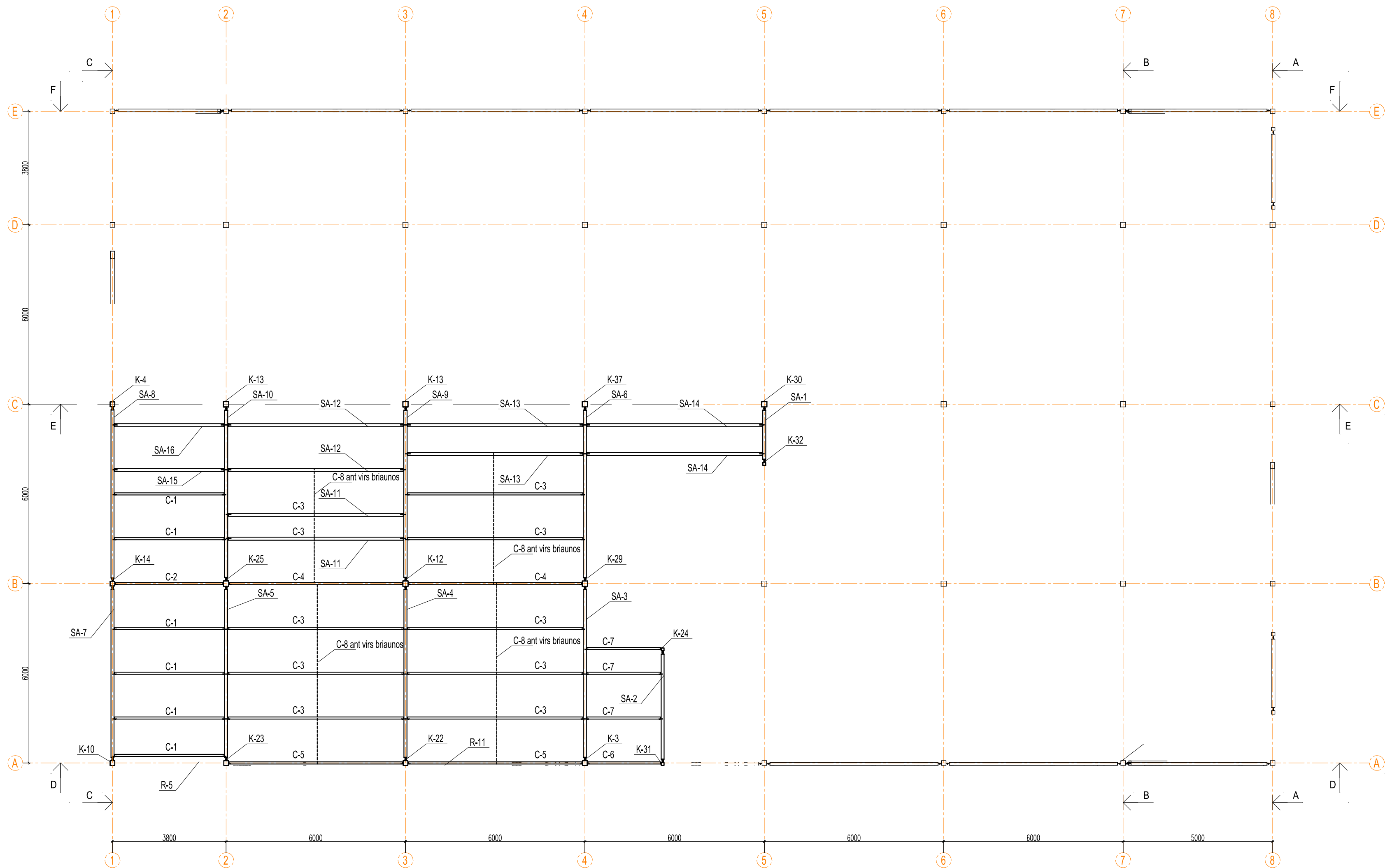
| | | | | |
|-------------------------------|---|---|---|------------|
| 0 | 2020-04 | | | |
| LAIDA | IŠLEIDIMO DATA | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" j.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | |
| | UAB "Projekta" j.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | SK DALIES DOKUMENTŲ ŽINIARAŠTIS | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-DŽ | Lapas 1 |
| | | | | Lapų 1 |

| | | | | |
|------------------|-----------------------|---|----|---|
| 5.120- 5.130- | Ryšis R-1....R-14 | 2020-03/2-DP-SK-B-B79 - 2020-03/2-DP-SK-B-B89 | 10 | 0 |
| 5.120 | Ryšis R3-1 | 2020-03/2-DP-SK-B-B90 | 1 | 0 |
| 5.121 | Ryšis R4-1 | 2020-03/2-DP-SK-B-B91 | 1 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Priedai | | | |
| | Projektavimo uzduotis | Priedas Nr.1 | | |
| | Skaičiavimai | Priedas Nr.2 | | |
| | | | | |

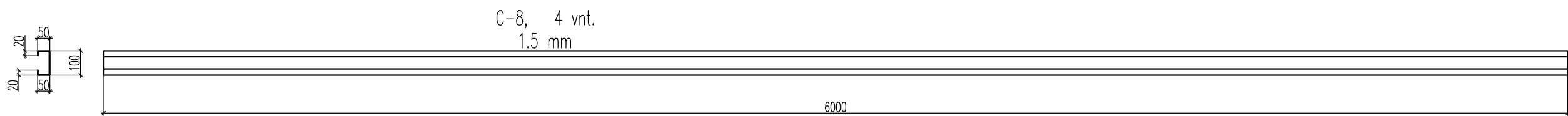
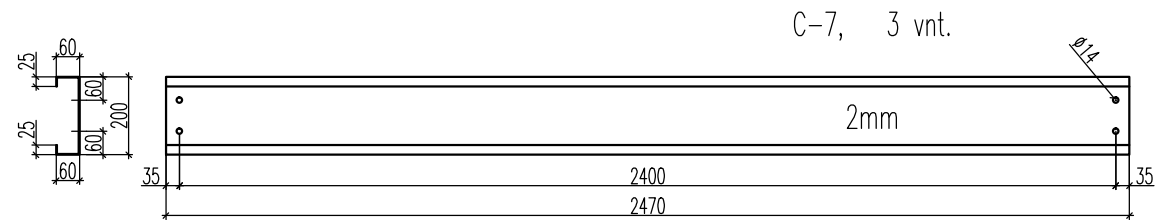
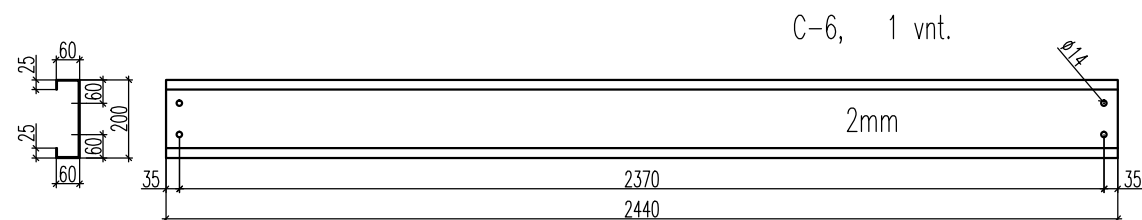
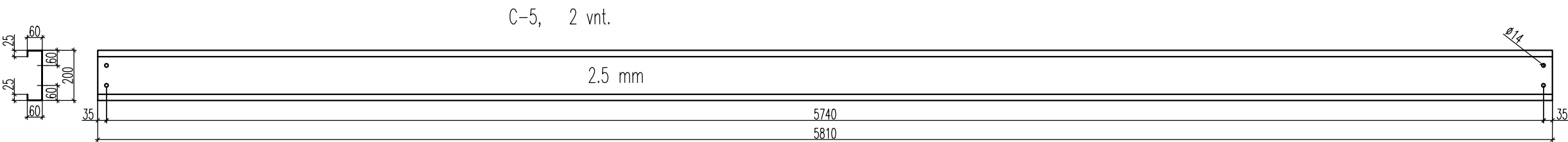
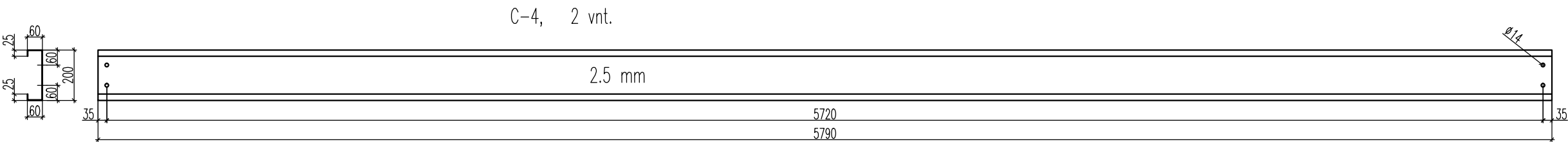
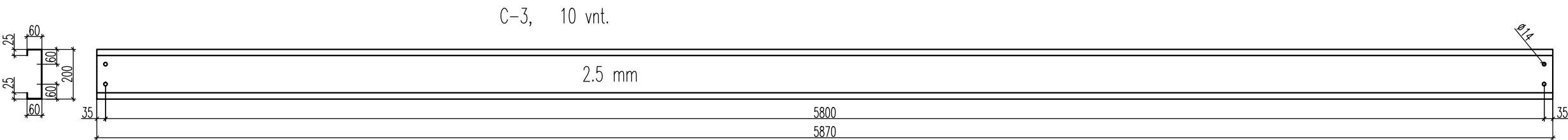
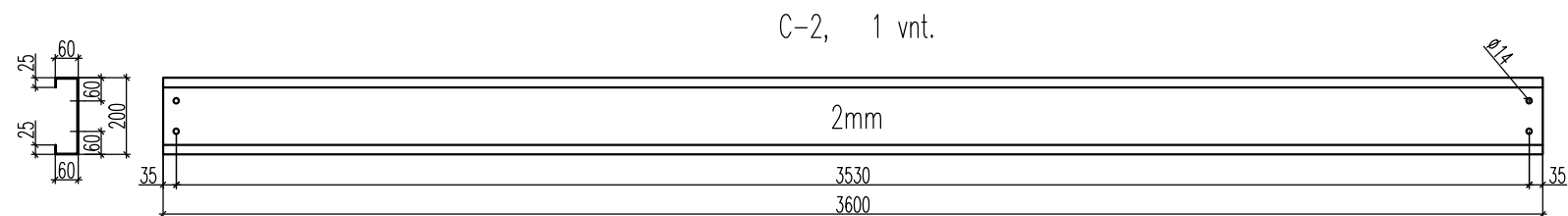
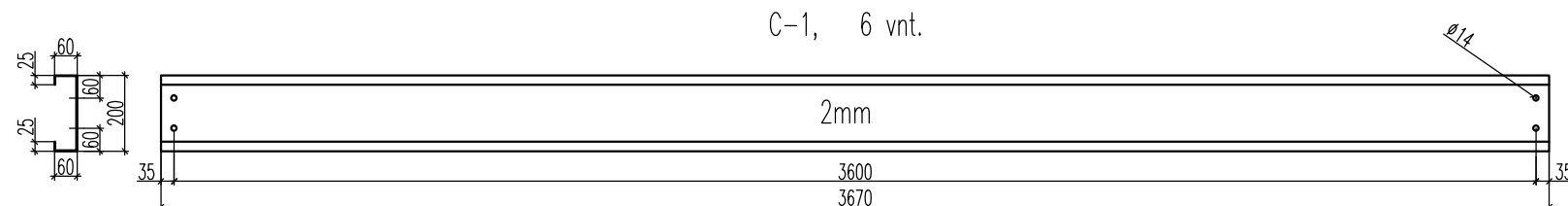
| | | | |
|--------------------|-------|------|-------|
| Dokumento žymuo | Lapas | Lapų | Laida |
| 2020-03/2-DP-SK-DŽ | 2 | 2 | 0 |



| | | | | |
|-------------------------------|--|------------------|---|---|
| 0 | 2021-10 | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas |
| A 1997 | PV | L. BLAUZDAVIČIUS | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Kolonų planas M1:100 |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | Laida 0 |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-04 |
| | | | | Lapas 1 |
| | | | | Lapų 1 |



| | | | | | |
|----------------------|--|------------------|---|---|------|
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Antresolės sijų planas M1:100 | |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-05 | |
| | | | | Lapas | Lapų |
| | | | | 1 | 1 |

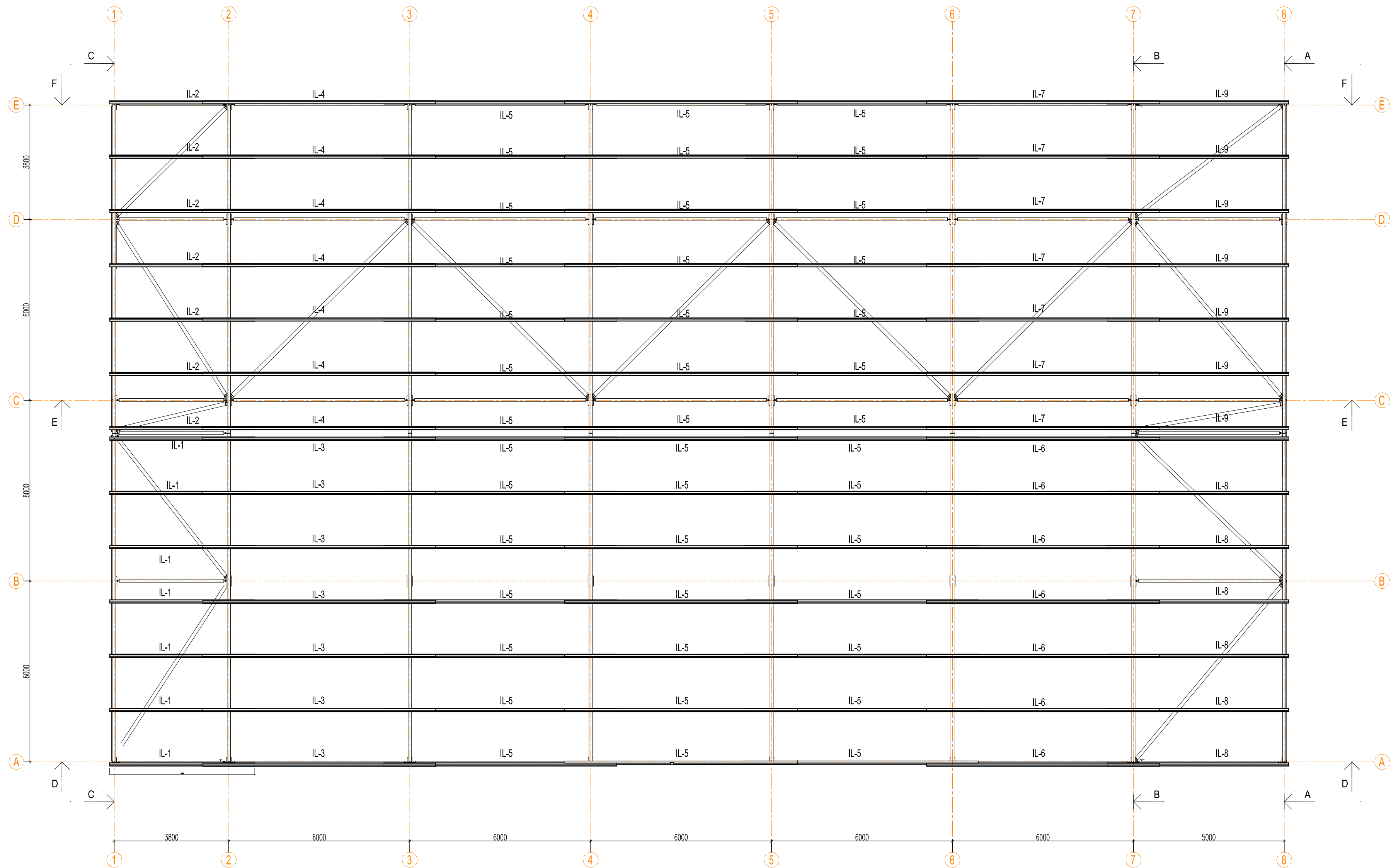


MEDZIAGU ZINIARASTIS

| Poz. | Zymėjimas | Pavadinimas | vnt. | Vnt. Mase kg. | Viso: kg | Pastabos |
|------|----------------------------|---|------|---------------------|-------------|----------------------|
| C-1 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 6 | | | žiūr. gabaritų brėž. |
| C-2 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 1 | | | žiūr. gabaritų brėž. |
| C-3 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 10 | | | žiūr. gabaritų brėž. |
| C-4 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 2 | | | žiūr. gabaritų brėž. |
| C-5 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 2 | | | žiūr. gabaritų brėž. |
| C-6 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 1 | | | žiūr. gabaritų brėž. |
| C-7 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 3 | | | žiūr. gabaritų brėž. |
| C-8 | LST EN 1090-1:2009+A1:2012 | C profilis S350GD+Z, fy=350MPa, fu=420MPa | 4 | | | žiūr. gabaritų brėž. |

Pastaba:
Cinkuoti šaltai lankstyti profiliai C profiliai.
S350GD+Z, fy=350MPa, fu=420MPa

| | | | | | | | | |
|-------------------------------|--|--|------------------|---|---|--|-------|------|
| 0 | | 2021-10 | | | | | | |
| LAIDA | | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | | |
| KVAL. PATV. DOK. NR. | | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | | |
| A 1997 | | PV | L. BLAUZDAVIČIUS | | | | | |
| | | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | C profiliai M1:20 | | Laida | |
| 19978 | | PDV SK | R. DIŠKEVIČIUS | | | | 0 | |
| DP | | UAB "Merkadus" | | | 2020-03/2-DP- SK-05.1 | | Lapas | Lapų |
| | | | | | | | 1 | 1 |



| | | | | | |
|-------------------------------|--|---|---|---|-------|
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | Stogo ilginių planas M1:100 | | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-07 | | Lapas |
| | | | | | Lapų |
| | | | | 1 | 1 |

Technical drawing of a bridge structure, showing a cross-section and a longitudinal section.

Cross-section (Left):

- Total width: 200
- Central span: 100
- Side spans: 50 (each)
- Height of the central span: 63
- Height of the side spans: 48
- Height of the base: 25

Longitudinal section (Right):

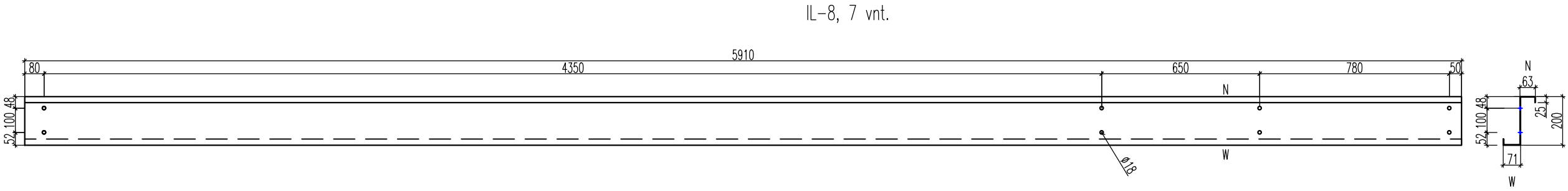
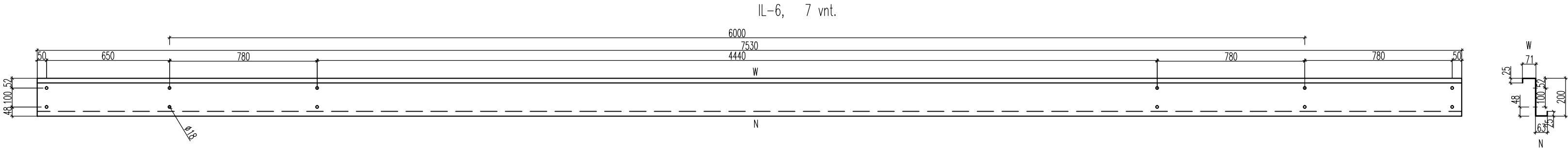
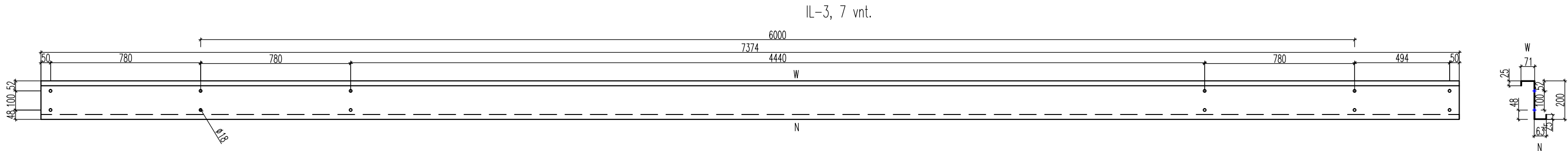
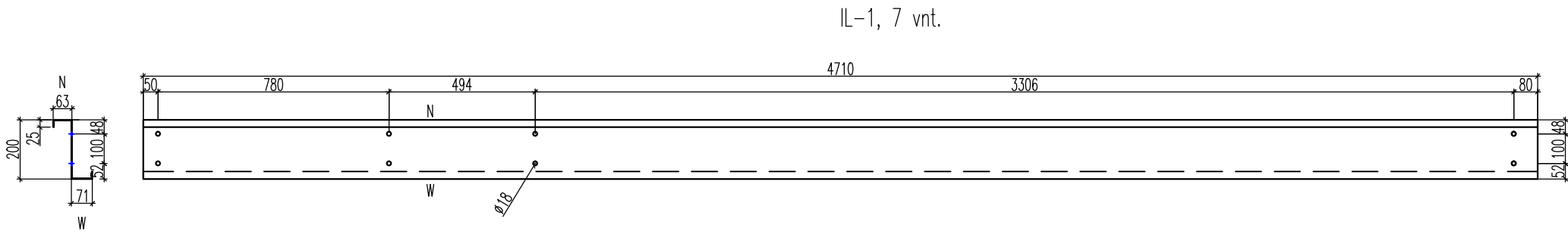
- Total length: 6000
- Central span: 4440
- Side spans: 780 (each)
- Height of the central span: 7660
- Height of the side spans: 4440
- Height of the base: 50

The drawing is labeled 'N' and 'W'.

[illegible]

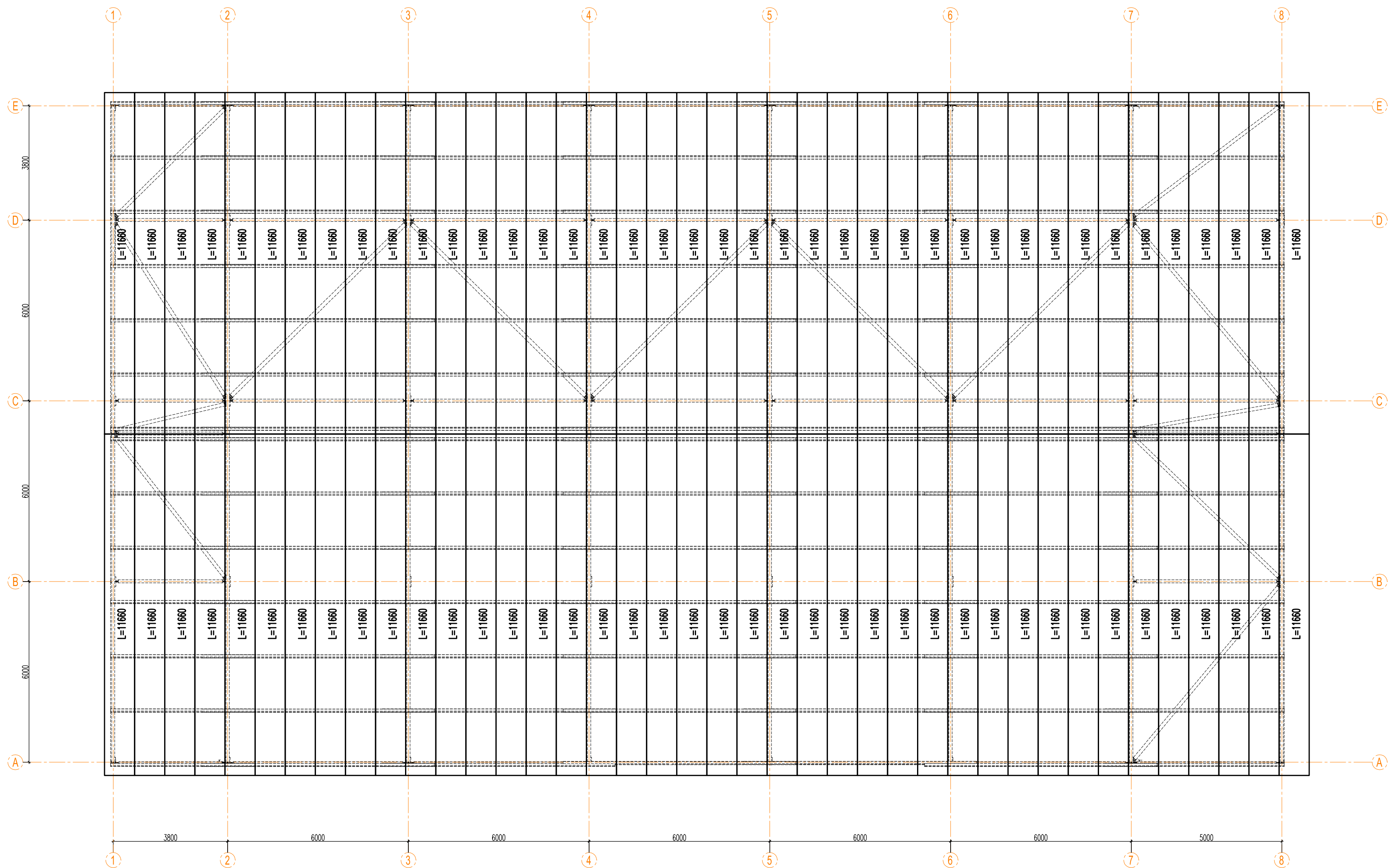
MEDŽIAGŲ ŽINIARASTIS


| Poz. | Žymėjimas | Pavadinimas | vnt. | Vnt. Masė kg. | Viso: kg | Pastabos |
|------|----------------------------|---|------|---------------------|-------------|-------------------------|
| IL-1 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž. |
| IL-2 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž.7.1 |
| IL-3 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž. |
| IL-4 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž.7.1 |
| IL-5 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 42 | | | žiūr. gabaritų brėž.7.1 |
| IL-6 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž. |
| IL-7 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž.7.1 |
| IL-8 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž. |
| IL-9 | LST EN 1090-1:2009+A1:2012 | Z profilis S350GD+Z, fy=350MPa, fu=420MPa | 7 | | | žiūr. gabaritų brėž.7.1 |

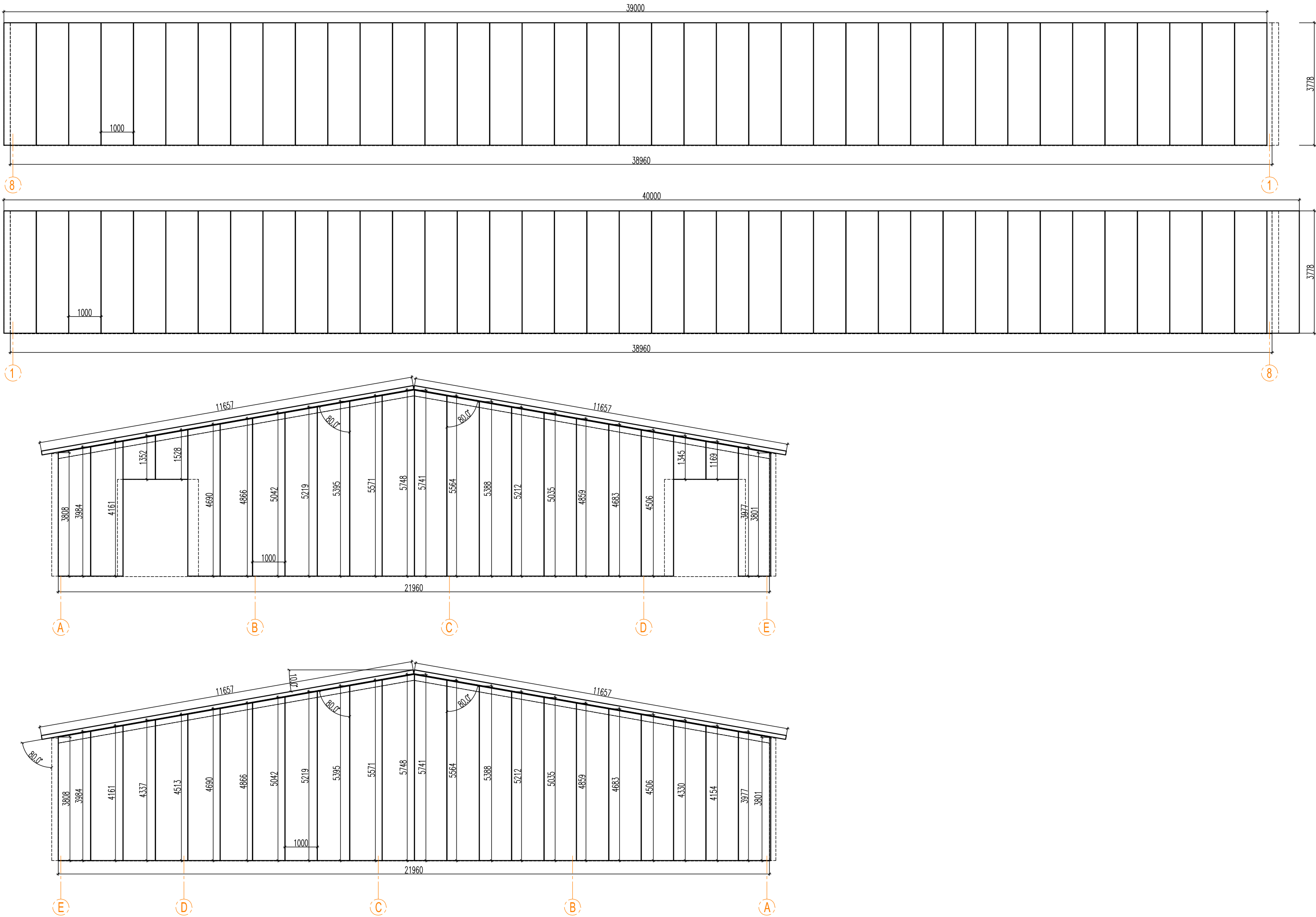


Pastaba:
Cinkuoti šaltai lankstyti profiliai 2 mm Z profiliai.
S350GD+Z, fy=350MPa, fu=420MPa

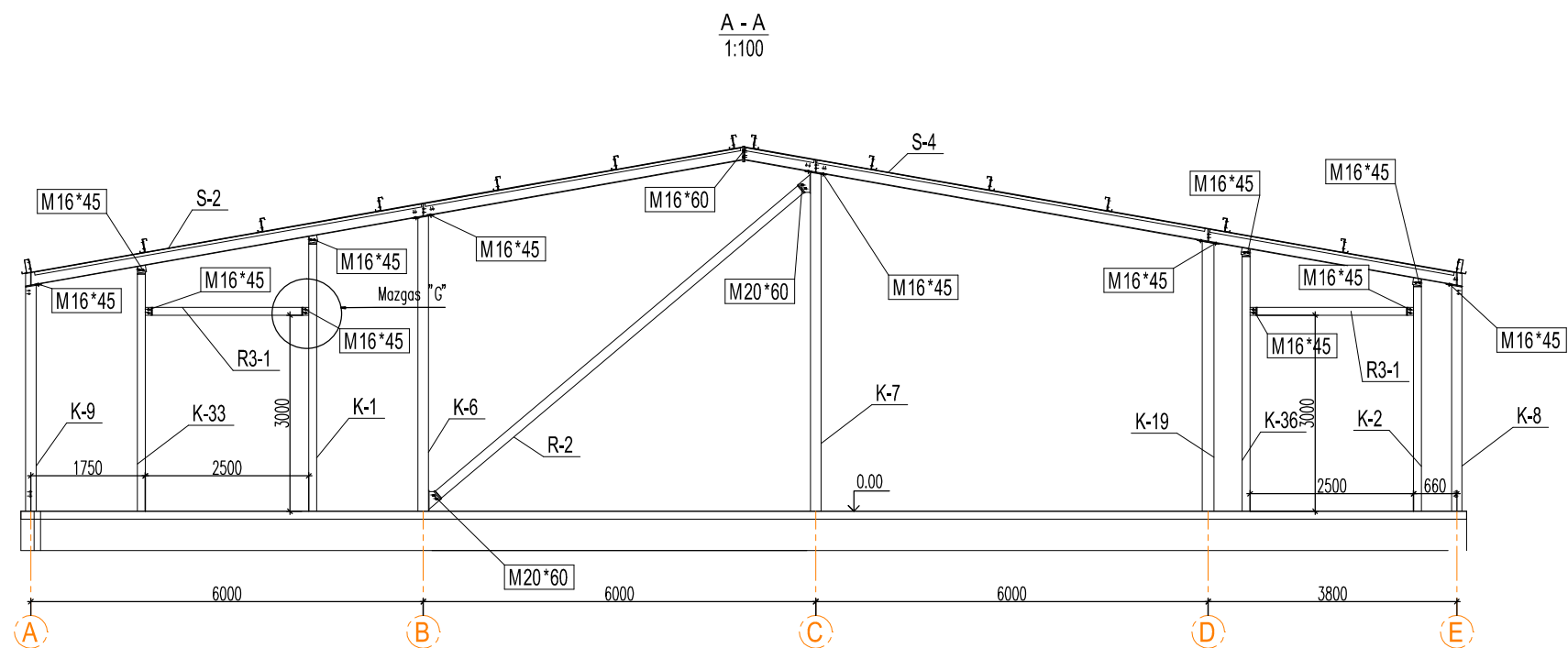
| | | | | | |
|-------------------------------|--|------------------|---|---|------------|
| | | | | | |
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | Z profiliai M1:20 | | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-07.2 | | Lapas Lapų |
| | | | | 1 | 1 |



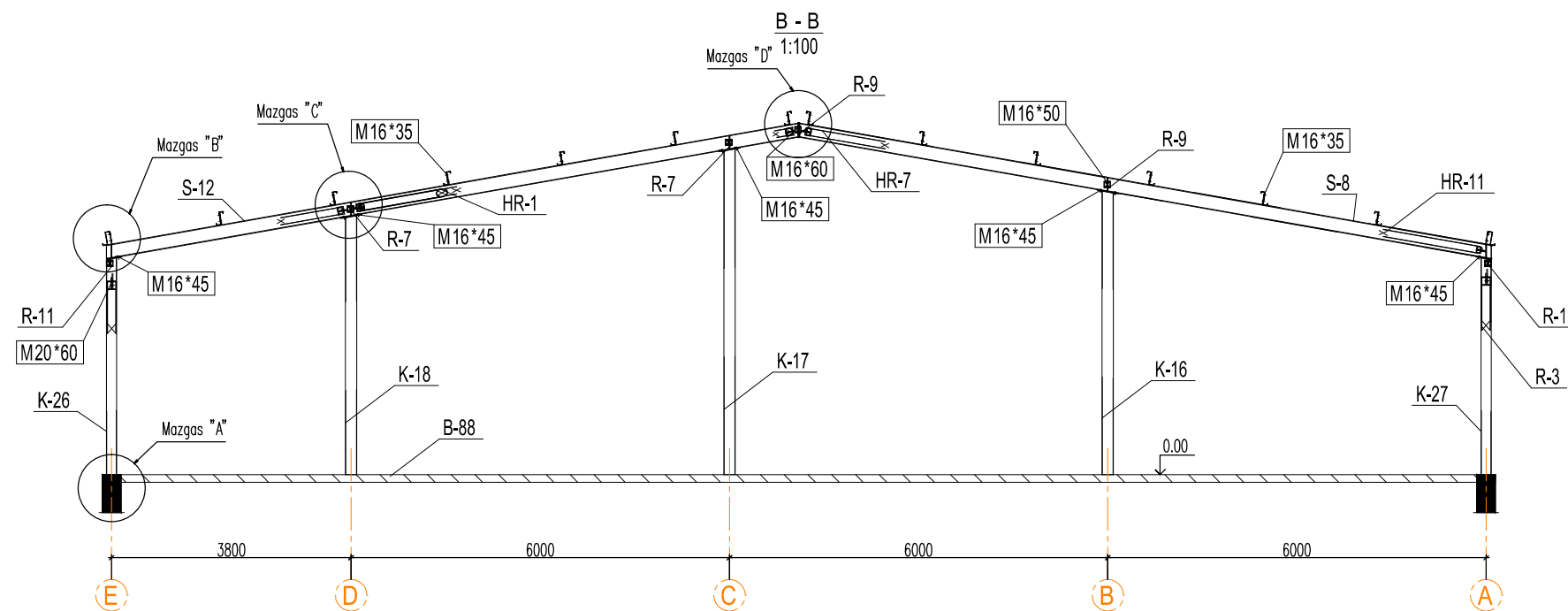
| | | | | | |
|-------------------------------|--|------------------|---|---|-------------------------|
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Stogo plokščių planas M1:100 | Laida 0 |
| 19978 | PDV SK | R. DIŠKEVIČIUS |  | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-08 | Lapas 1 Lapų 1 |



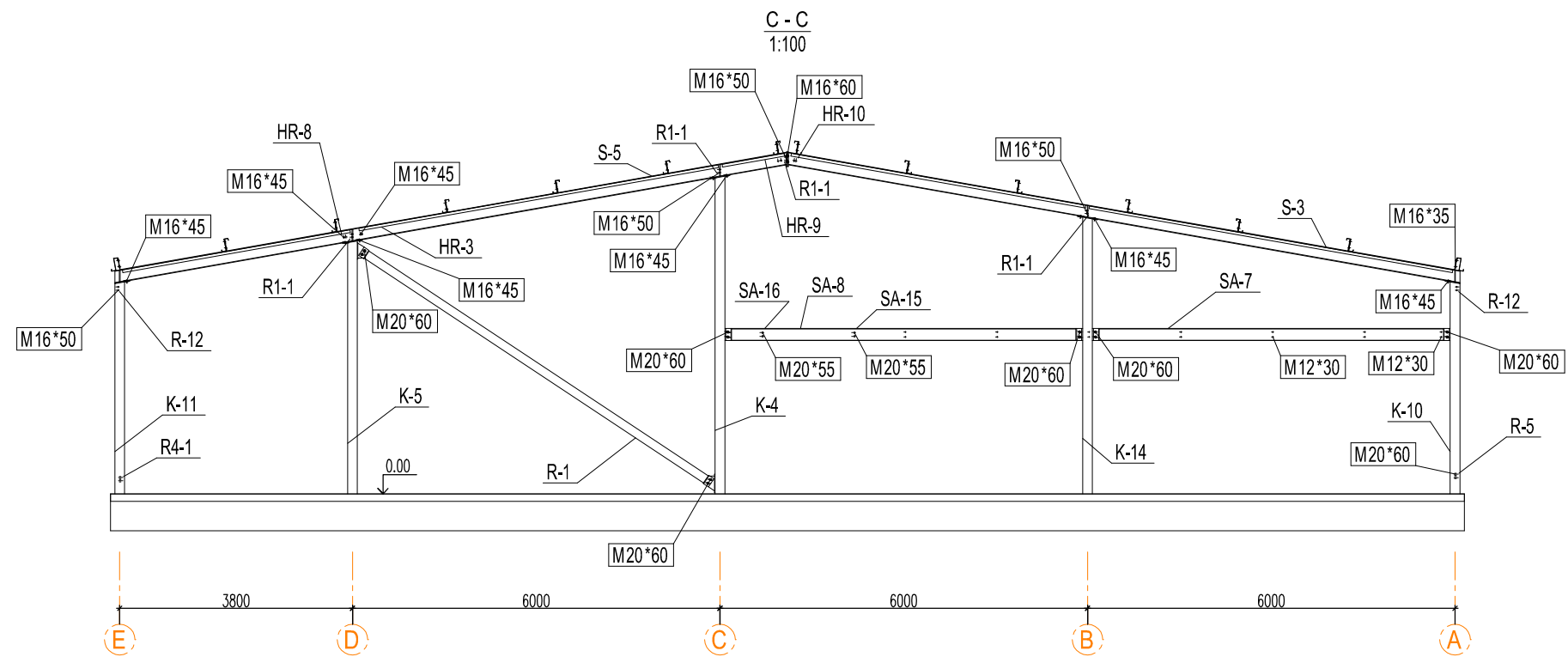
| | | | | | |
|----------------------|--|---|---|---|-------|
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | Sienų plokščių išklotinės M1:100 | | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-09 | | Lapas |
| | | | | | Lapų |
| | | | | 1 | 1 |



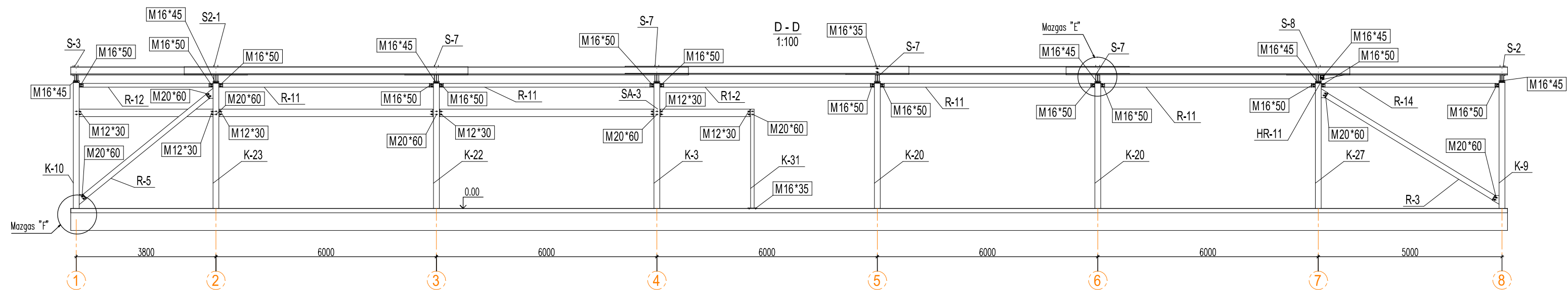
| | | | | | |
|-------------------------------|--|------------------|---|---|-------|
| | | | | | |
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Pjūvis A-A M1:100 | |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | 0 | Laida |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-10 | Lapas |
| | | | | 1 | Lapų |
| | | | | 1 | |



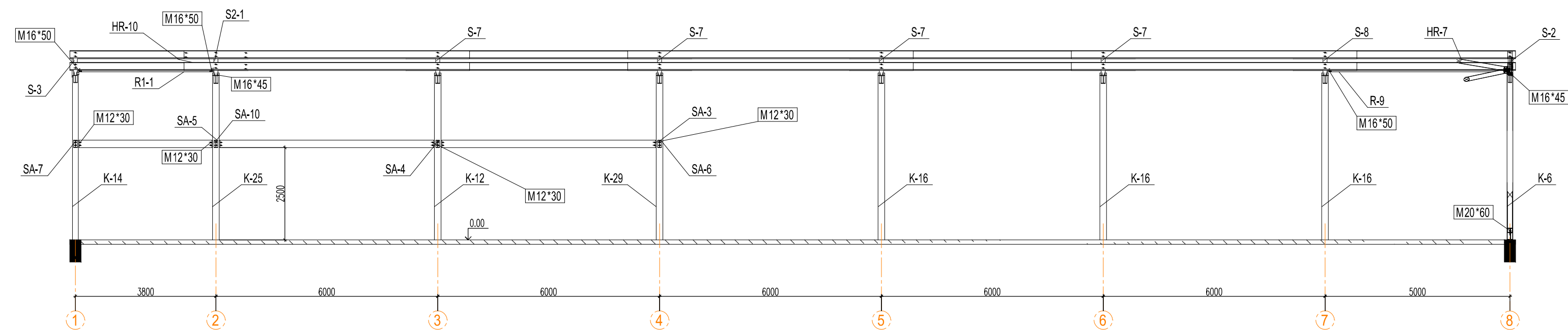
| | | | | | |
|-------------------------------|--|------------------|---|-------|-------|
| | | | | | |
| 0 | 2021-10 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | Pjūvis B-B M1:100 | | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-11 | Lapas | Lapų |
| | | | | 1 | 1 |



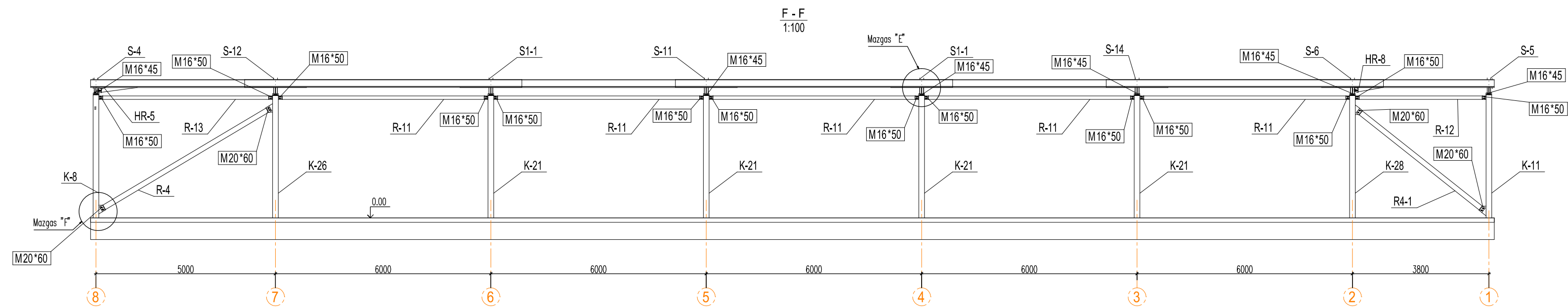
| | | | | | | |
|-------------------------------|--|------------------|---|---|-------|------|
| | | | | | | |
| 0 | 2021-10 | | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Pjūvis C-C M1:100 | | |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | Laida 0 | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-12 | Lapas | Lapų |
| | | | | | 1 | 1 |



E - E
1:100

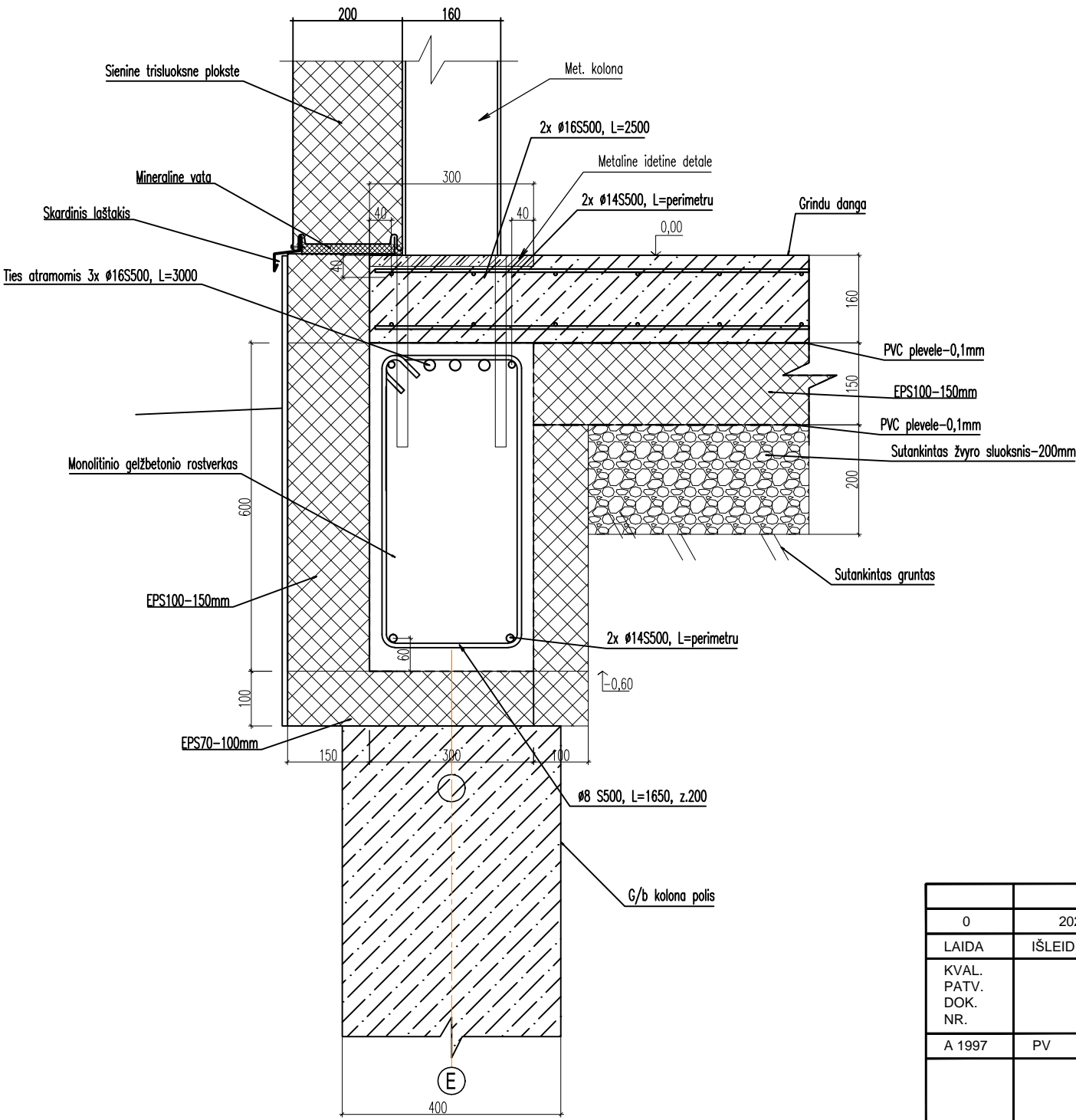


F - F
1:100

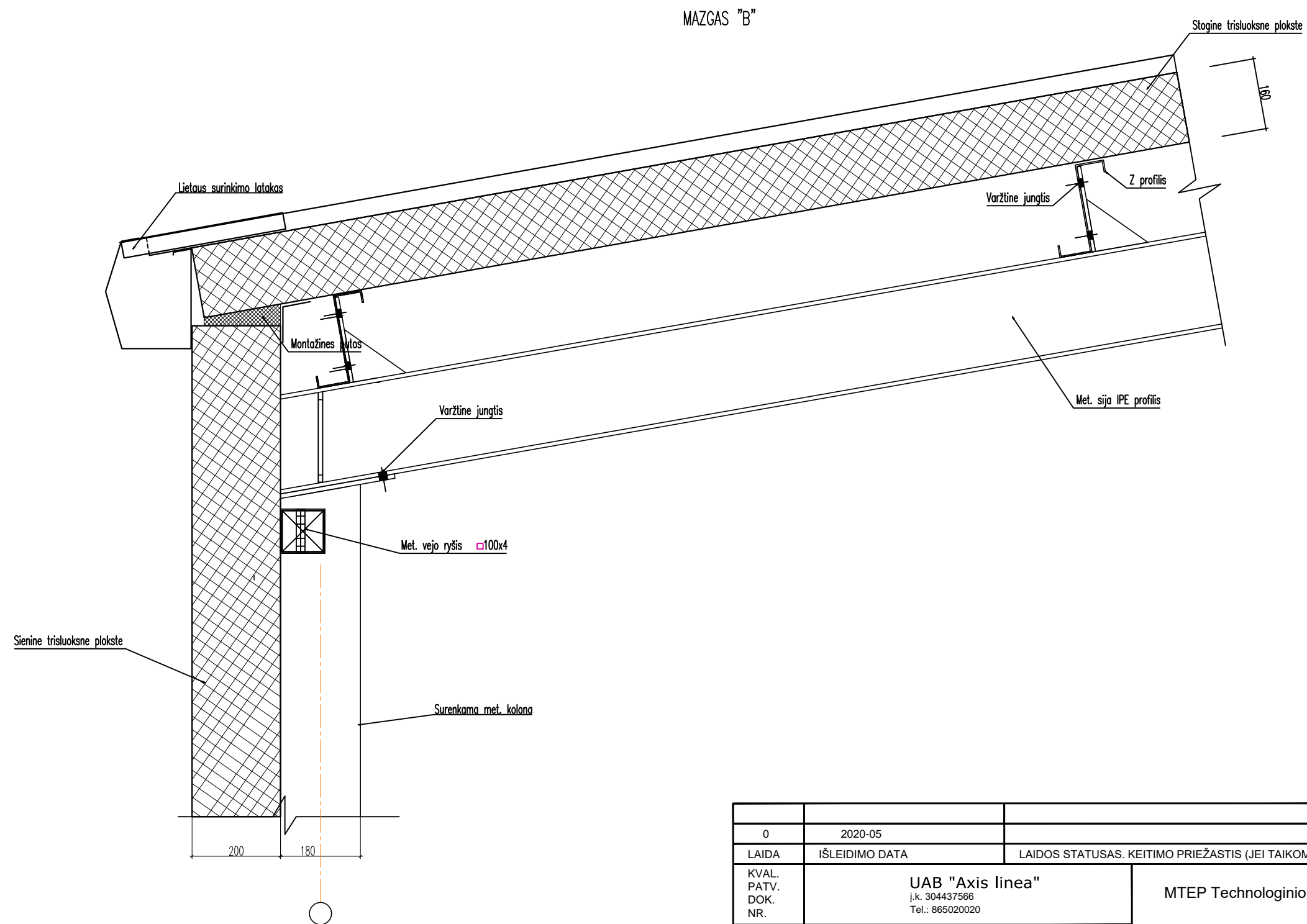


| | | | | | |
|-------------------------------|--|------------------|--|---|------|
| | | | | | |
| 0 | 2021-10 | | | | |
| LAIDA | | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | Pjūviai D-D, E-E, F-F M1:100 | |
| | | | | Laida | 0 |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-13 | |
| | | | | | |
| | | | | Lapas | Lapy |
| | | | | 1 | 1 |

MAZGAS "A"

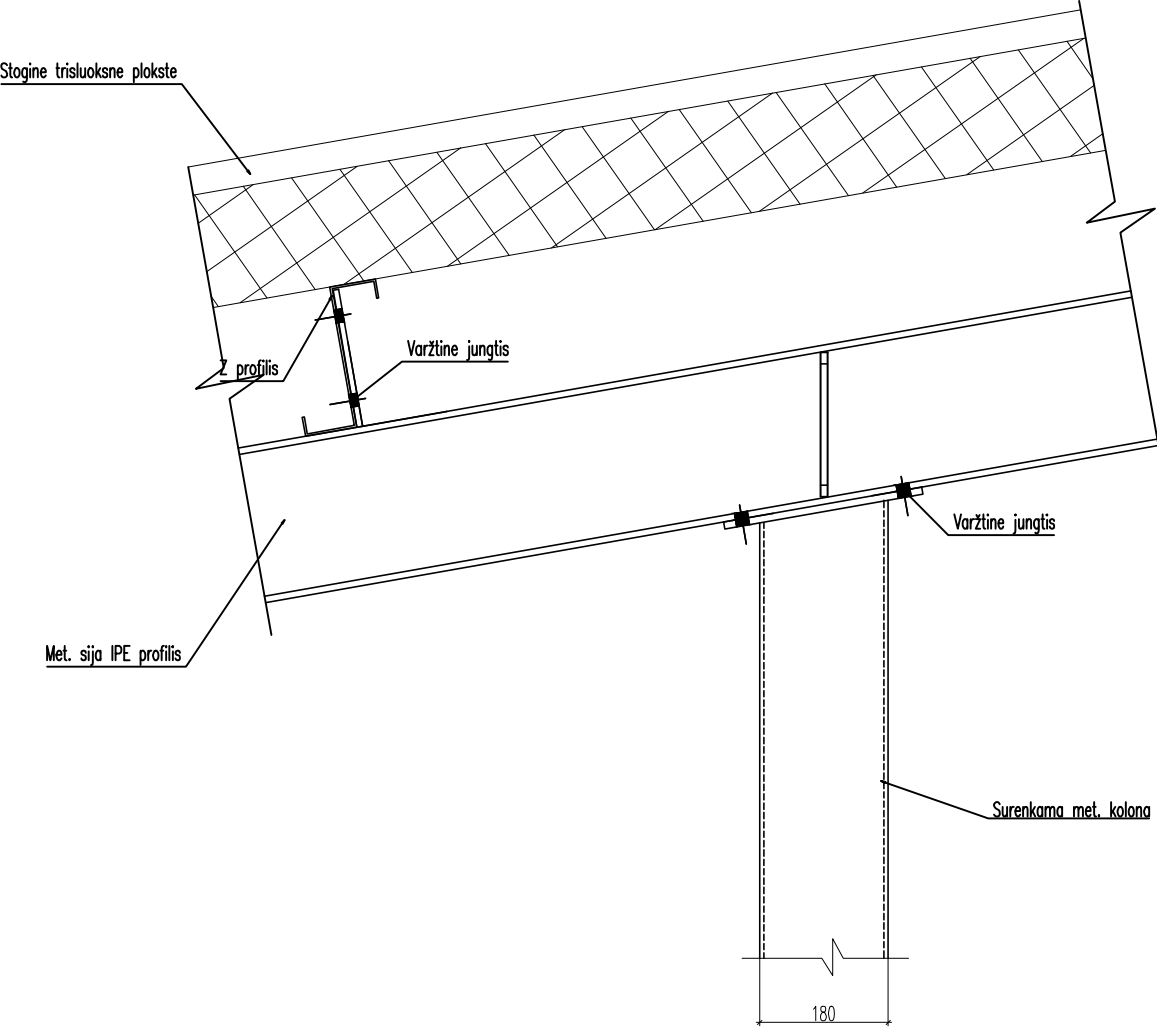


| | | | | | | |
|-------------------------------|--|------------------|---|---|------------|-----------|
| | | | | | | |
| 0 | 2020-05 | | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | MAZGAS "A" M1:10 | Laida | |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | 0 | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.1 | Lapas 1 | Lapų 1 |

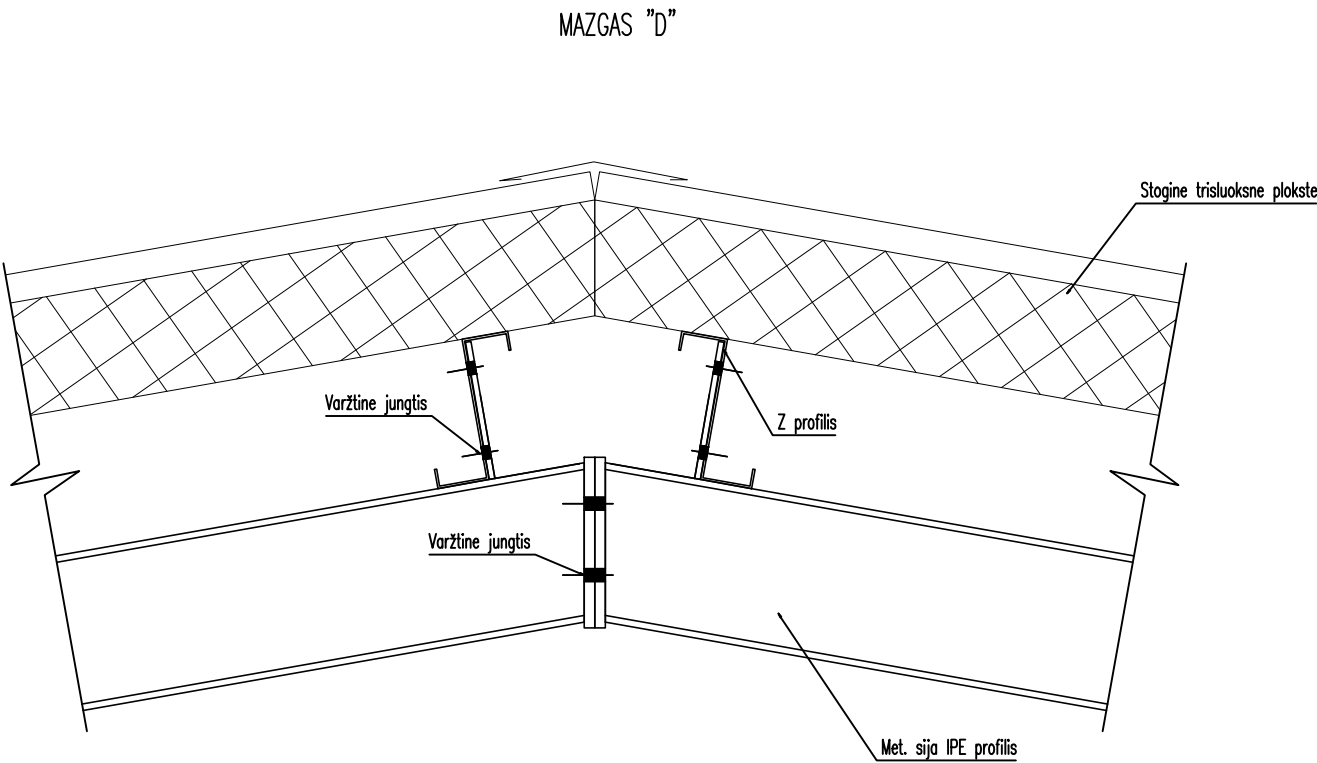


| | | | | | | | |
|-------------------------------|--|--|------------------|---|---|--|-------|
| 0 | | 2020-05 | | | | | |
| LAIDA | | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | | PV | L. BLAUZDAVIČIUS | | | | |
| | | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | MAZGAS "B" M1:10 | | Laida |
| 19978 | | PDV SK | R. DIŠKEVIČIUS | | | | 0 |
| DP | | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.2 | | Lapas |
| | | | | | | | Lapų |
| | | | | | | | 1 |
| | | | | | | | 1 |

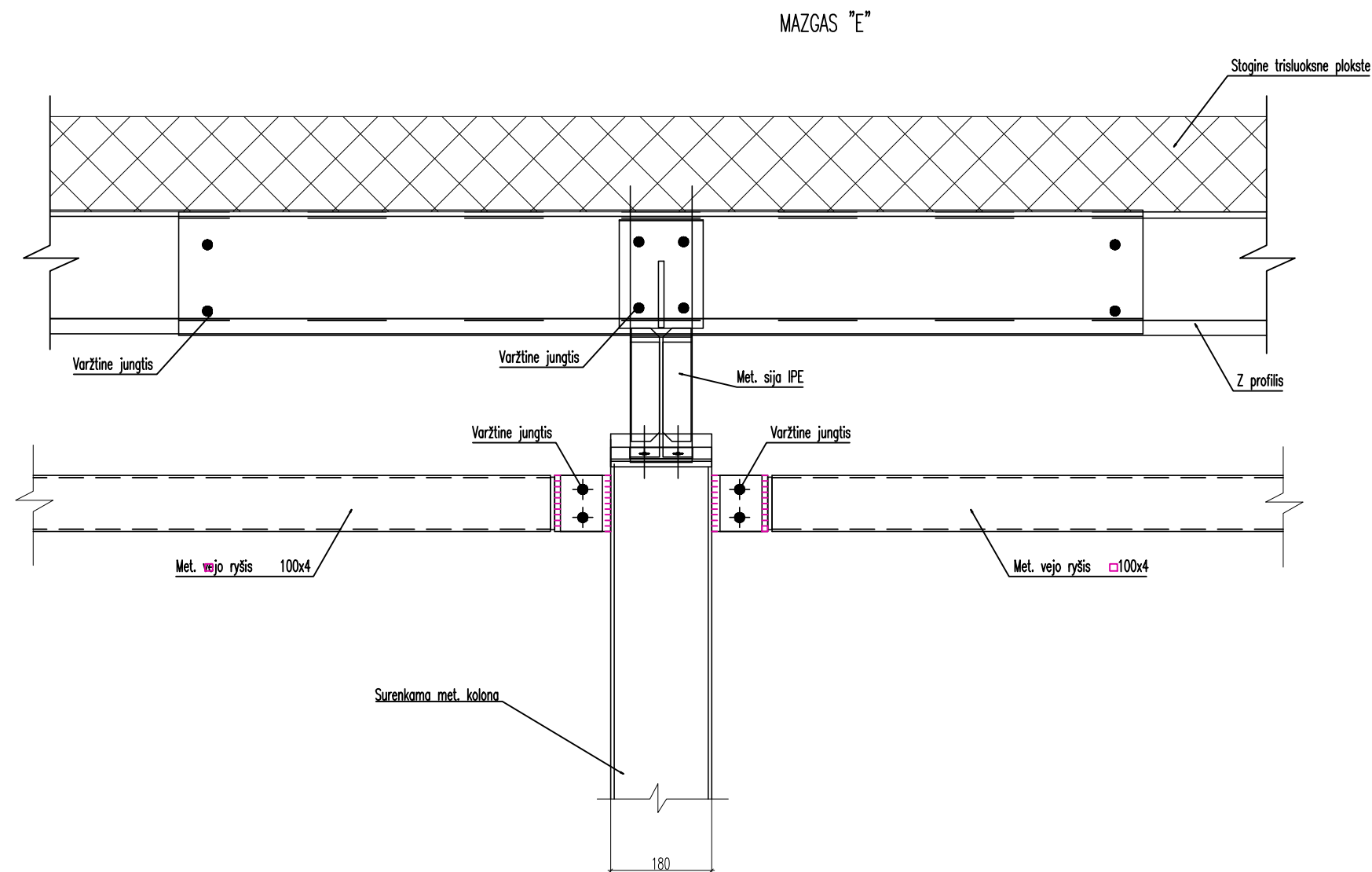
MAZGAS "C"



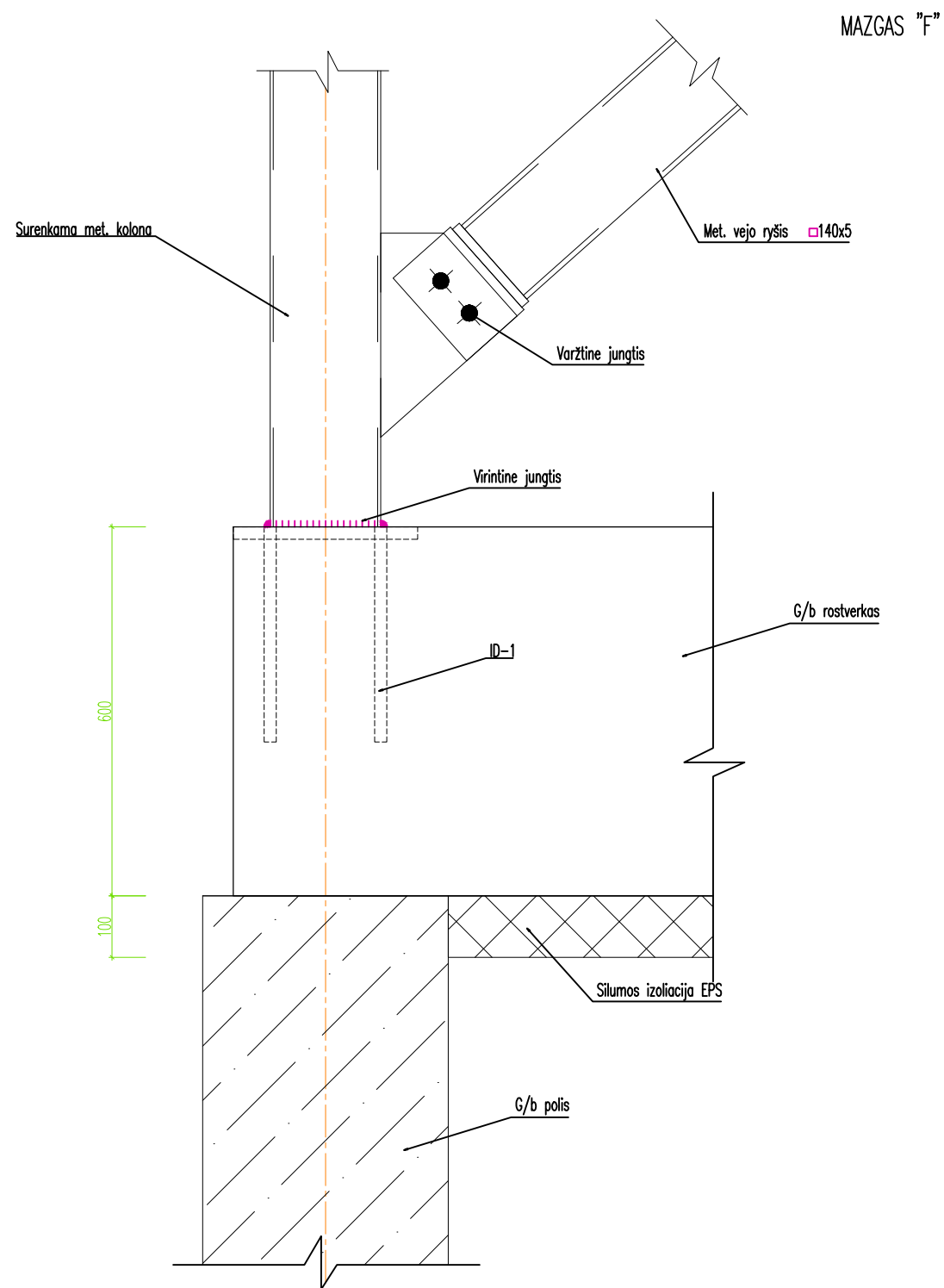
| | | | | | |
|-------------------------------|--|------------------|---|---|-------------------------|
| | | | | | |
| 0 | 2020-05 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS, KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | MAZGAS "C" M1:10 | Laida |
| | | | | | 0 |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.3 | Lapas 1 Lapų 1 |



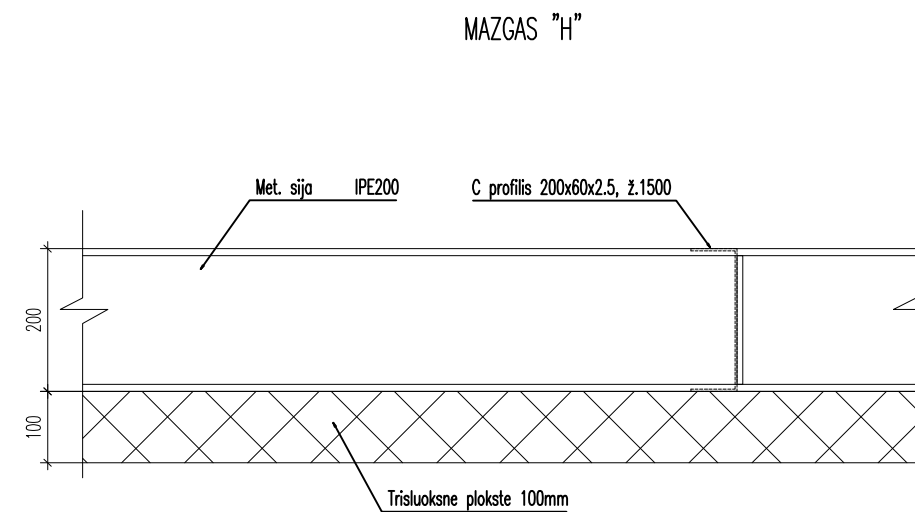
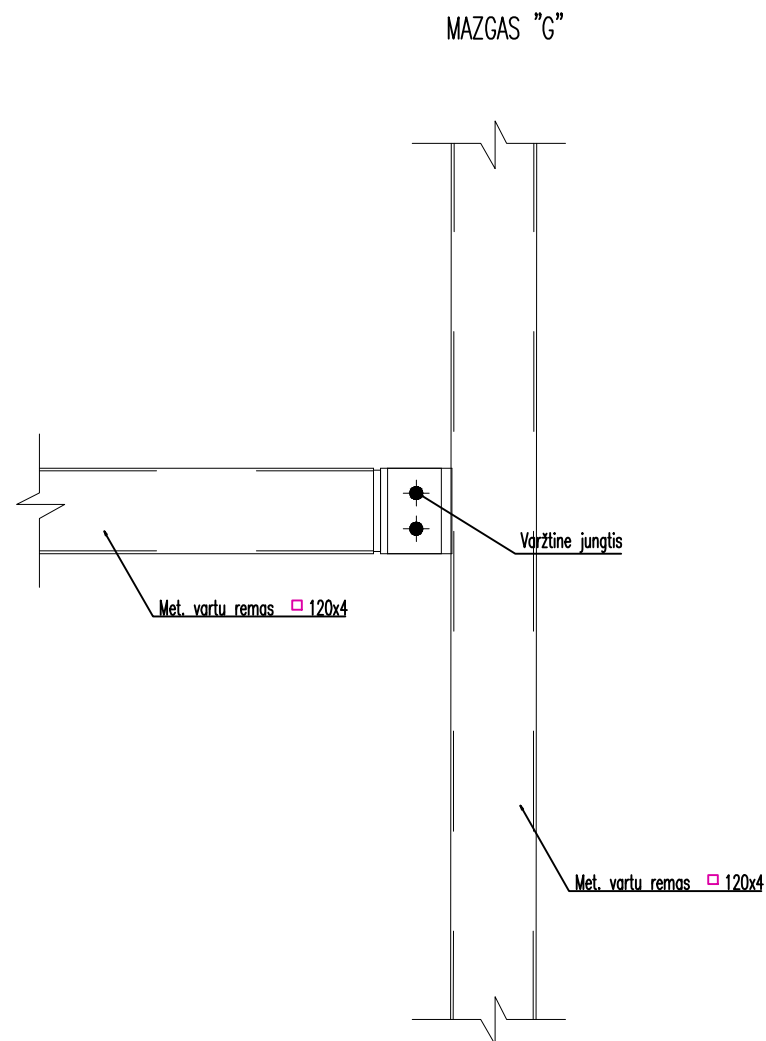
| | | | | | |
|-------------------------------|--|------------------|---|---|------|
| | | | | | |
| 0 | 2020-05 | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS, KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | MAZGAS "D" M1:10 | |
| | | | | Laida | 0 |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.4 | |
| | | | | Lapas | Lapų |
| | | | | 1 | 1 |



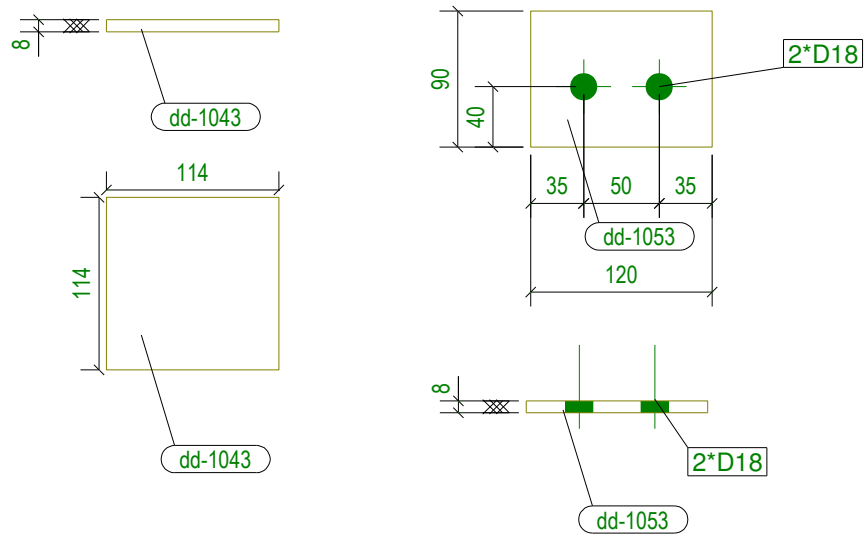
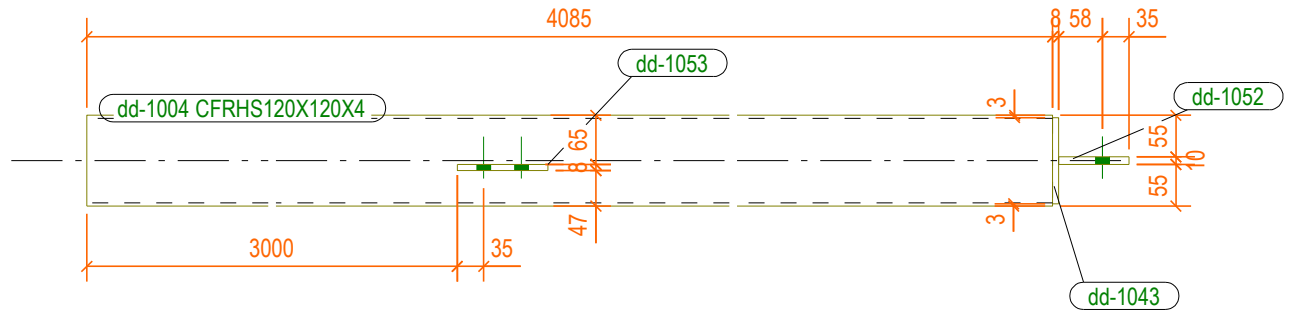
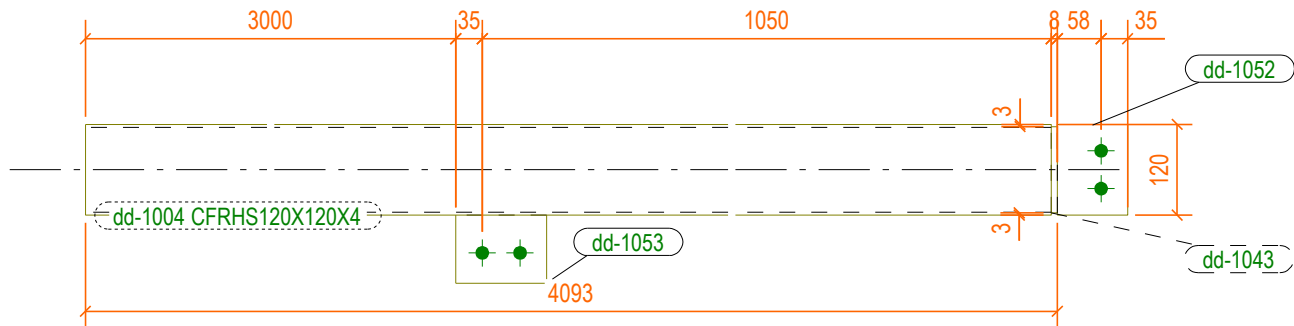
| | | | | |
|-------------------------------|--|------------------|---|---|
| | | | | |
| 0 | 2020-05 | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS, KEITIMO PRIEŽASTIS (JEI TAIKOMA) | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas |
| A 1997 | PV | L. BLAUZDAVIČIUS | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.it | | | MAZGAS "E" M1:10 |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | Laida 0 |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.5 |
| | | | | Lapas 1 |
| | | | | Lapų 1 |



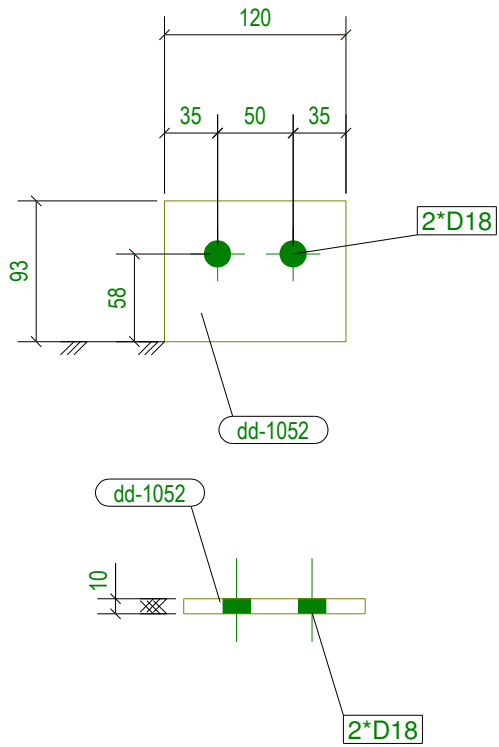
| | | | | | | |
|-------------------------------|--|------------------|---|---|-------|------|
| | | | | | | |
| 0 | 2020-05 | | | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | | | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | | MAZGAS "F" M1:10 | | |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | 0 | | |
| DP | UAB "Merkadus" | | | 2020-03/2-DP- SK-14.6 | Lapas | Lapų |
| | | | | | 1 | 1 |



| | | | | |
|-------------------------------|---|------------------|---|-------|
| | | | | |
| 0 | 2020-05 | | | |
| LAIDA | IŠLEIDIMO DATA | | LAIDOS STATUSAS. KEITIMO PRIEŽASTIS (JEI TAIKOMA) | |
| KVAL. PATV. DOK. NR. | UAB "Axis linea" į.k. 304437566 Tel.: 865020020 | | MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektas | |
| A 1997 | PV | L. BLAUZDAVIČIUS | | |
| | UAB "Projekta" į.k. 300512384 Tel.: 860026922 el.p.: info@projekta.lt | | MAZGAI "G" , H M1:10 | Laida |
| 19978 | PDV SK | R. DIŠKEVIČIUS | | 0 |
| DP | UAB "Merkadus" | | 2020-03/2-DP- SK-14.7 | Lapas |
| | | | | 1 |
| | | | | Lapų |
| | | | | 1 |

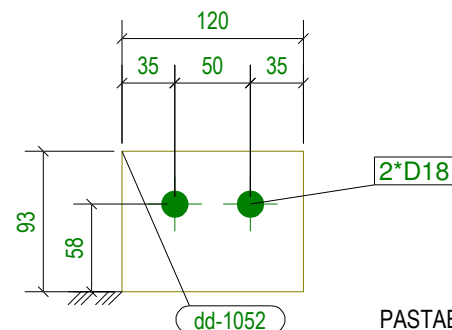
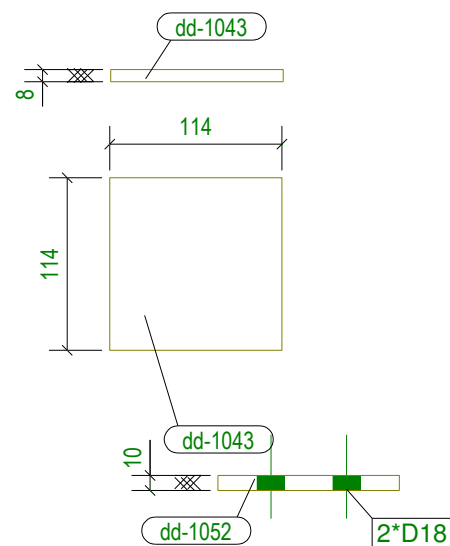


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-1 | | VNT. | 1 | 62.00 | 62.00 | 1.99 | 1.99 |
| dd-1004 | CFRHS120X120X4, L = 4085 mm, S355JR | | VNT. | 1 | 58.20 | 58.20 | 1.905 | 1.905 |
| dd-1043 | PL8*114, L = 114 mm, S355JR | | VNT. | 1 | 0.82 | 0.82 | 0.030 | 0.030 |
| dd-1052 | PL10*92.95, L = 120 mm, S355JR | | VNT. | 1 | 0.88 | 0.88 | 0.027 | 0.027 |
| dd-1053 | PL8*90, L = 120 mm, S355JR | | VNT. | 1 | 0.68 | 0.68 | 0.025 | 0.025 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.82 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 62 | - | - | 1.99 |



- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-1 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B1 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |



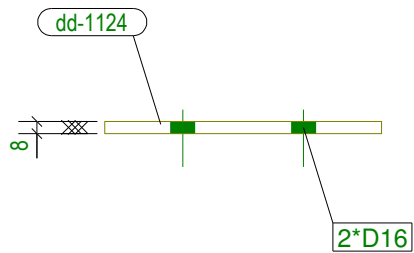
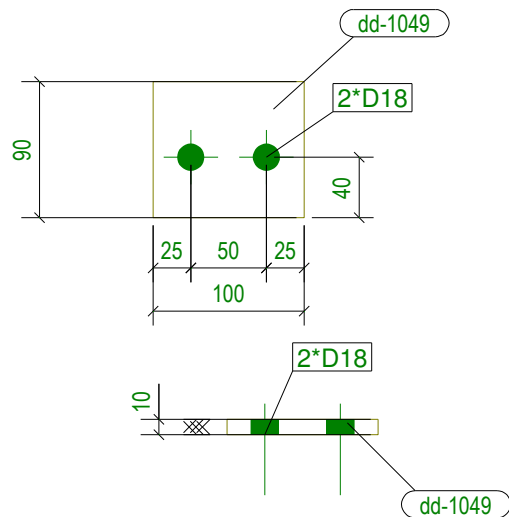
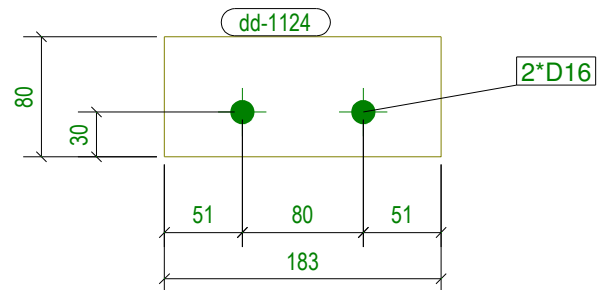
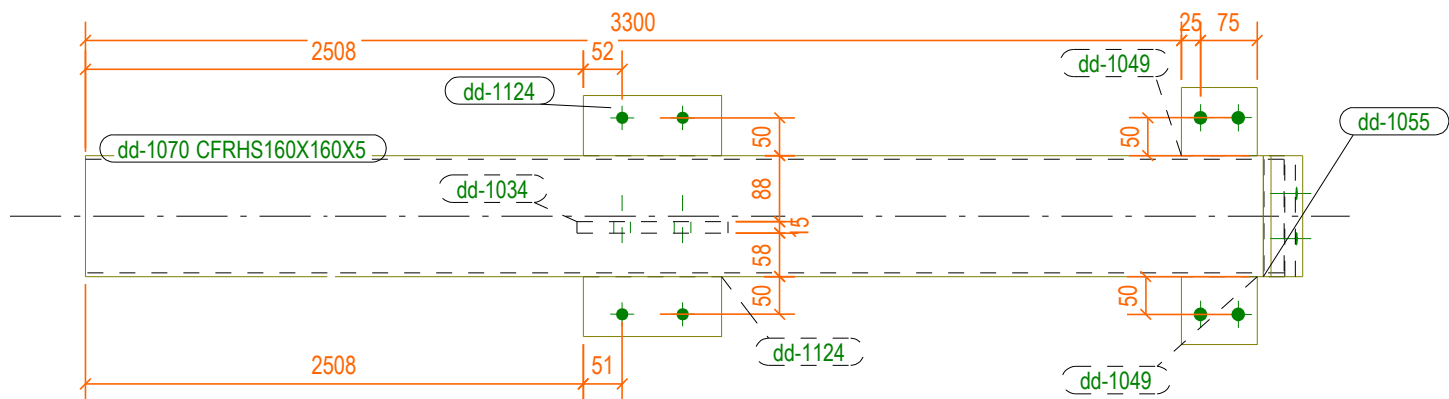
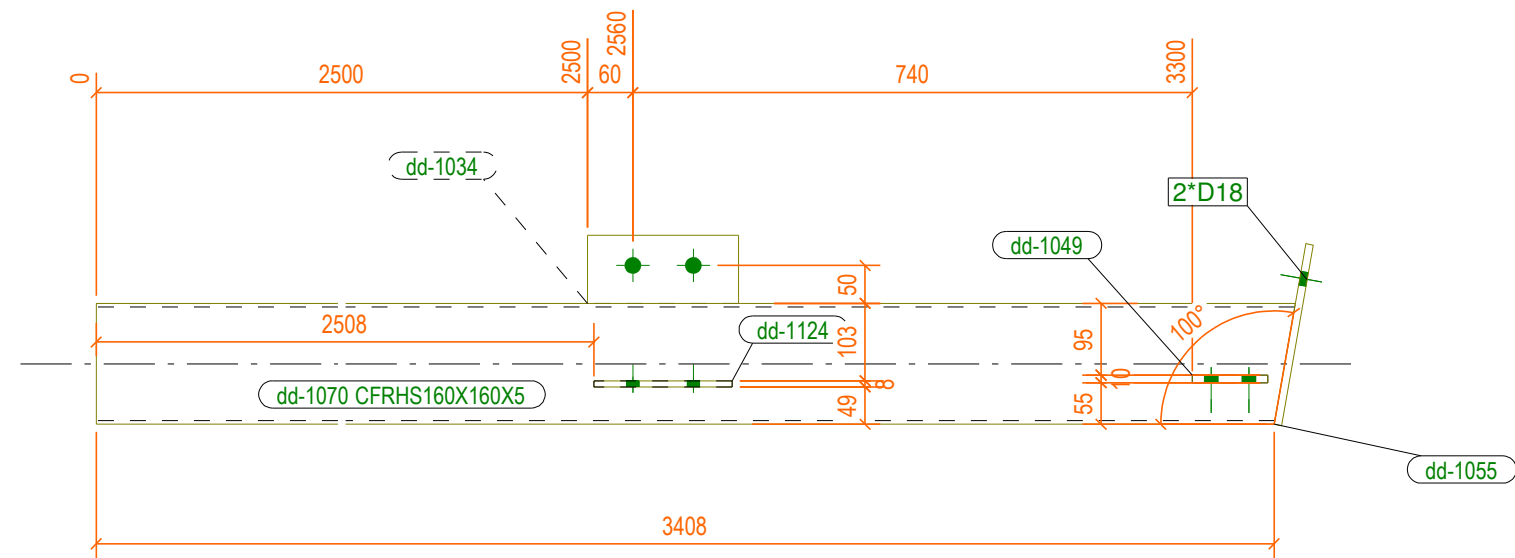
Technical drawing of a square plate with the following dimensions and labels:

- Overall width: 120
- Overall height: 90
- Distance from top edge to center line: 40
- Distance from left edge to center line: 35
- Distance between center lines: 50
- Distance from right edge to center line: 35
- Label **dd-1053** points to the center line.
- Label **2*D18** points to the center line.

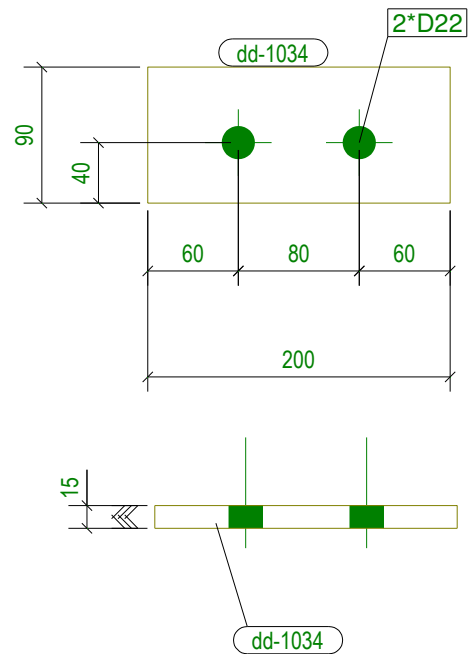
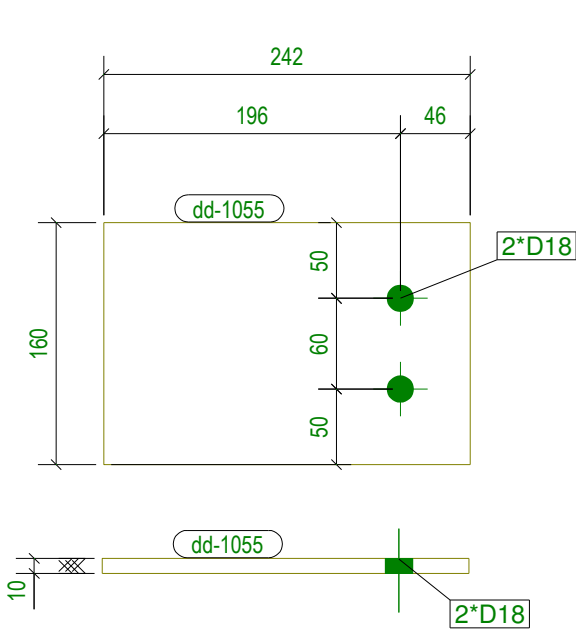
PASTABOS:

1. Profilių plienas S355JR uvrinimo reikalavimai:
 - suvrinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fv_w, u ne maziau kaip 500N/ mm²;
 - suvrinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvrinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvrinamu elementu storis.

| | | | | | | | | | |
|-----------------|---------------------------------|----------------|--|--|---|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-2 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B2 | | | LAPAS 1 | LAPU 1 |

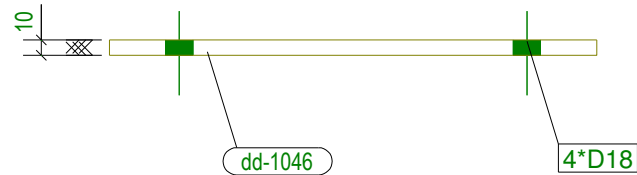
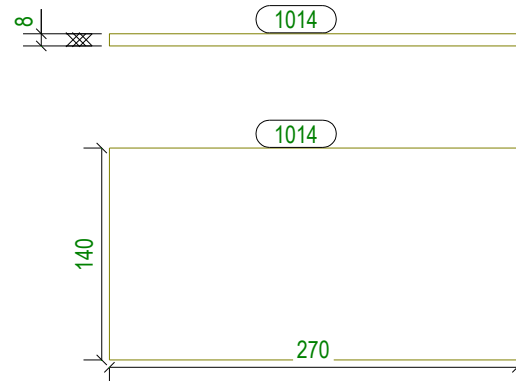
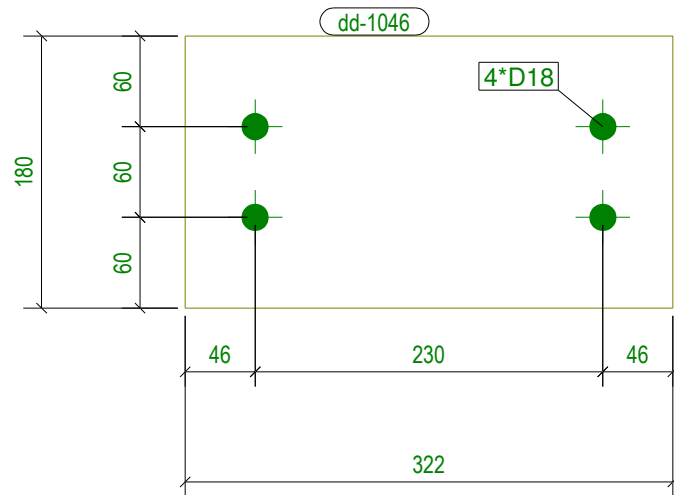
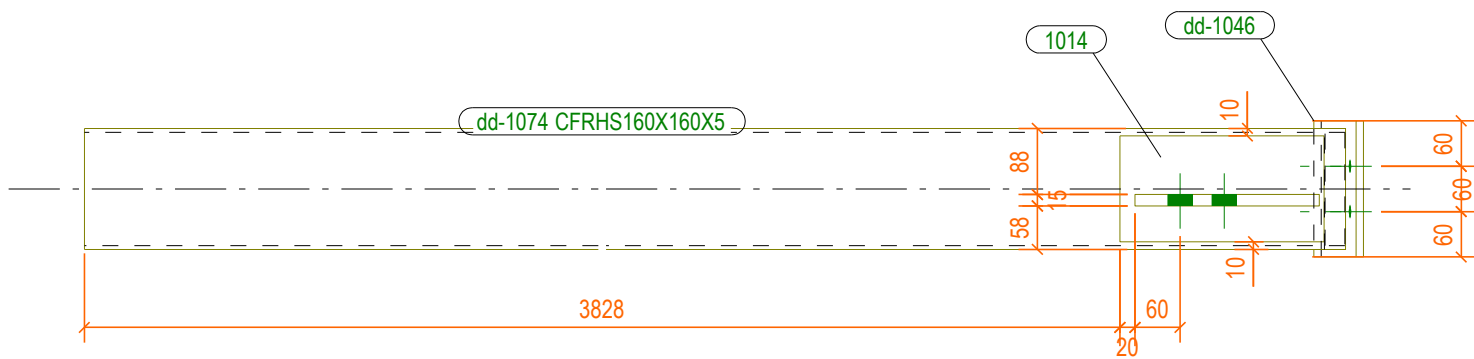
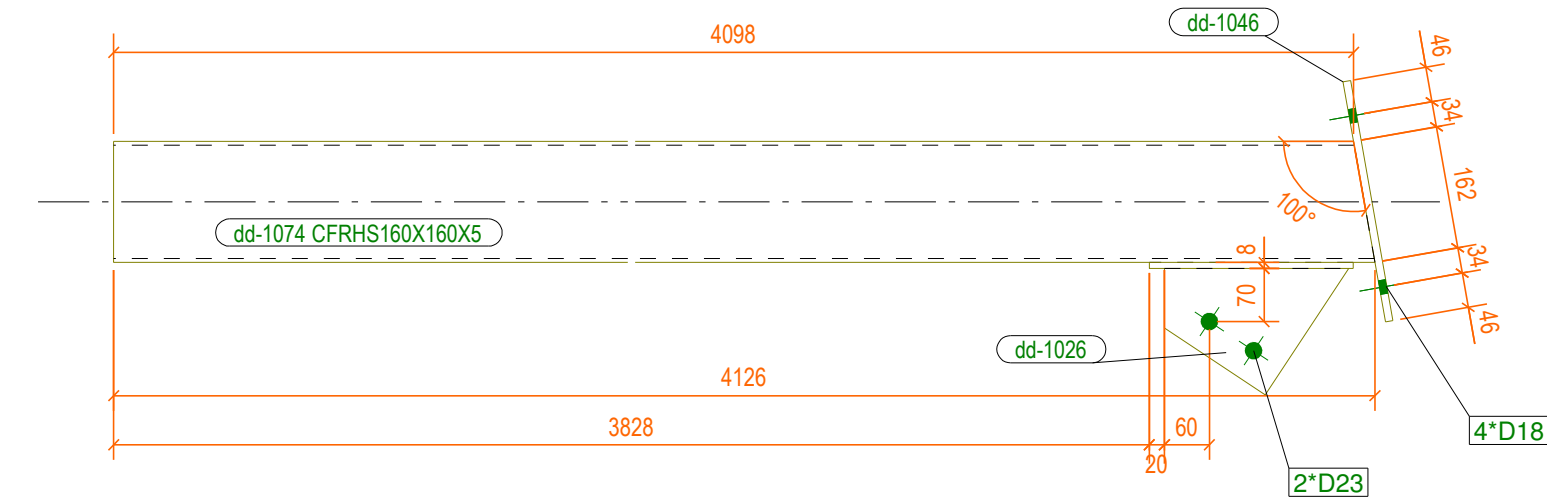


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-3 | | VNT. | 1 | 93.00 | 93.00 | 2.38 | 2.38 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 2 | 0.91 | 1.83 | 0.033 | 0.067 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 2.71 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 93 | - | - | 2.38 |

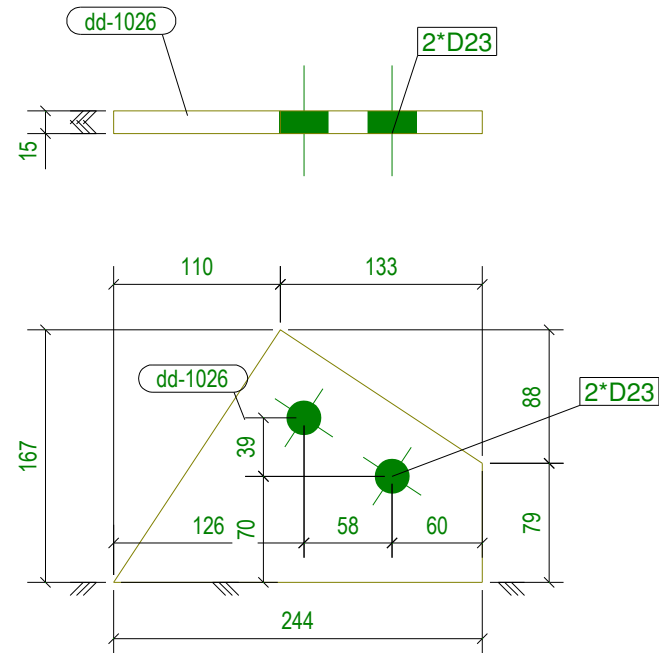


- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-3 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B3 | | | LAPU |
| | | | | | | | 1 | 1 |

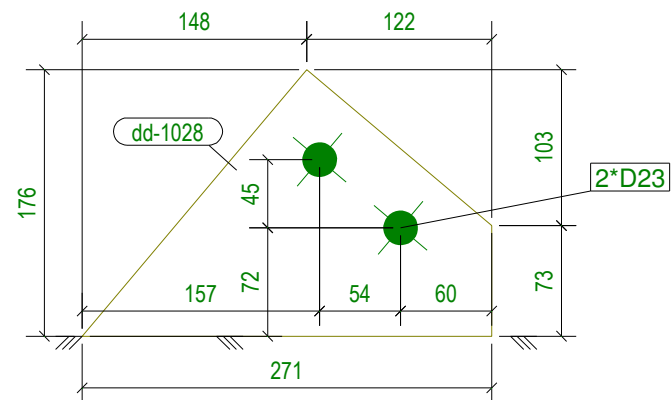
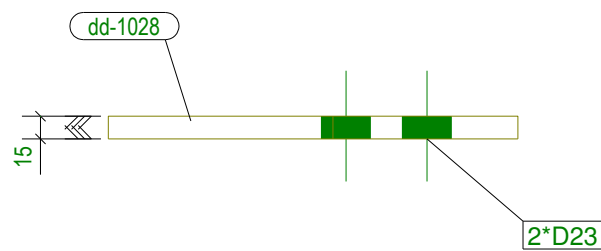
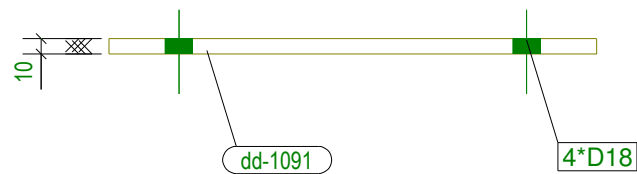
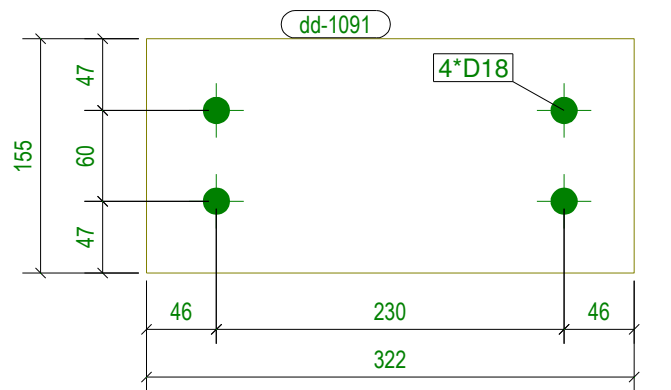
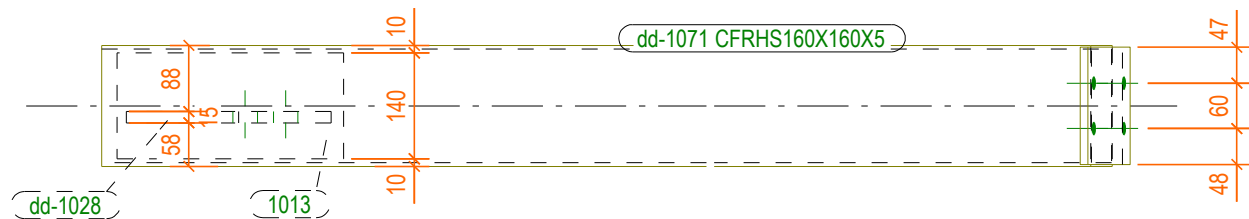
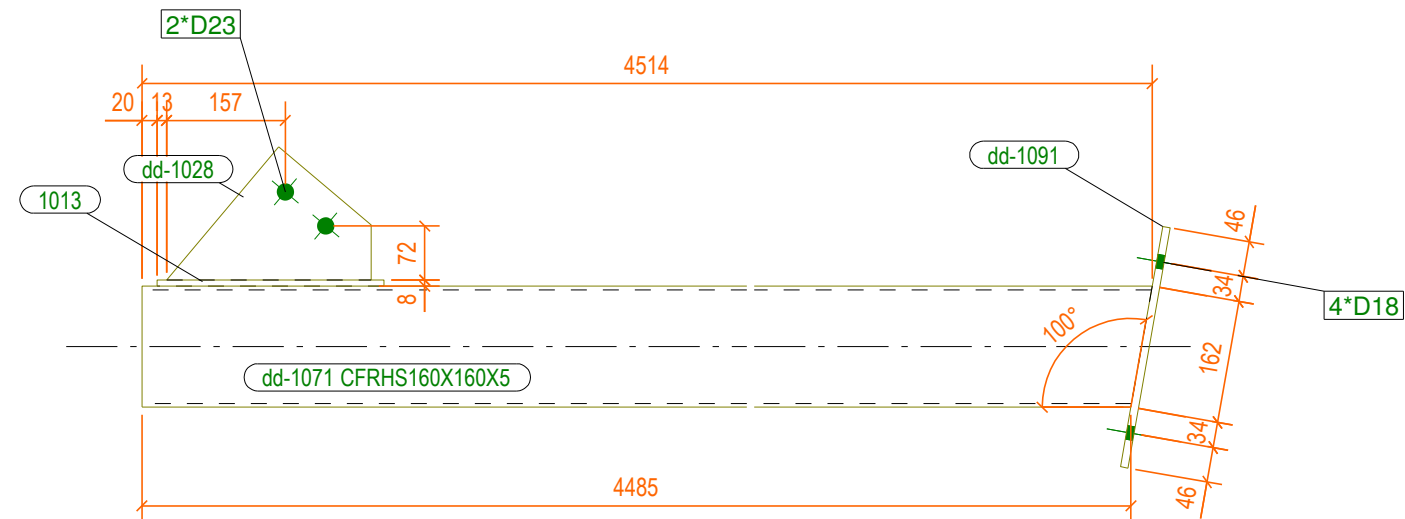


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-5 | | VNT. | 1 | 111.00 | 111.00 | 2.84 | 2.84 |
| 1014 | PL8*140, L = 270 mm, S355JR | | VNT. | 1 | 2.37 | 2.37 | 0.082 | 0.082 |
| dd-1026 | PL15*167, L = 243 mm, S355JR | | VNT. | 1 | 3.02 | 3.02 | 0.061 | 0.061 |
| dd-1046 | PL10*180, L = 322 mm, S355JR | | VNT. | 1 | 4.56 | 4.56 | 0.126 | 0.126 |
| dd-1074 | CFRHS160X160X5, L = 4126 mm, S355JR | | VNT. | 1 | 98.32 | 98.32 | 2.570 | 2.570 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 3.25 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 111 | - | - | 2.84 |

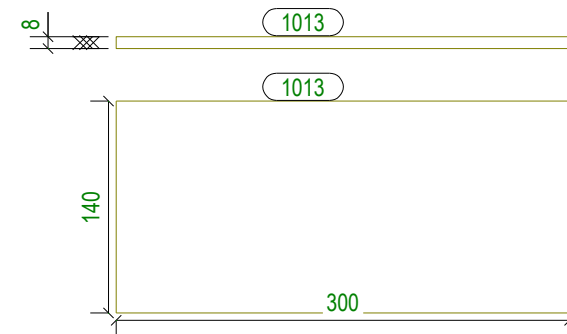


- PASTABOS:
- Profilų plienas S355JR uvinimo reikalavimai:
 - suvinimas pusiau automatinu būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
 - Dangos atsparumas aukstas.
 3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais uztikrinanciais konstrukcijų ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvinimo siūles aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-5 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B5 | | | LAPU |
| | | | | | | | 1 | 1 |

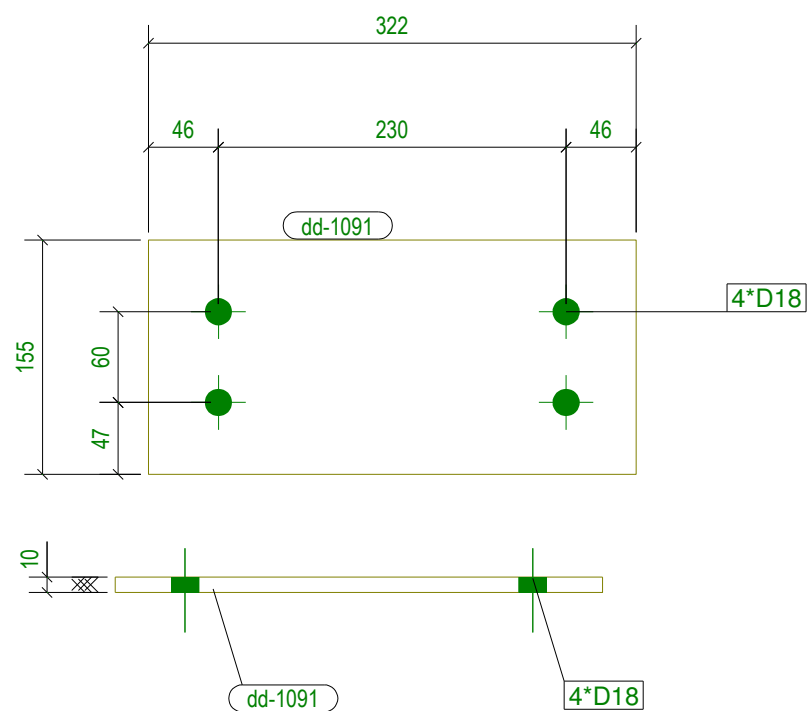


| POZICIJA EIL. NR | PAVADINIMAS IR TECHININ/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-6 | | VNT. | 1 | 120.00 | 120.00 | 3.08 | 3.08 |
| 1013 | PL8*140, L = 300 mm, S355JR | | VNT. | 1 | 2.64 | 2.64 | 0.091 | 0.091 |
| dd-1028 | PL15*176, L = 270 mm, S355JR | | VNT. | 1 | 3.34 | 3.34 | 0.068 | 0.068 |
| dd-1071 | CFRHS160X160X5, L = 4513 mm, S355JR | | VNT. | 1 | 107.56 | 107.56 | 2.811 | 2.811 |
| dd-1091 | PL10*155, L = 322 mm, S355JR | | VNT. | 1 | 3.92 | 3.92 | 0.110 | 0.110 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 3.52 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 120 | - | - | 3.08 |



- PASTABOS:
- Profilų plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dazais užtikrinanciais konstrukcijų ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-6 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B6 | | | LAPU |
| | | | | | | | 1 | 1 |



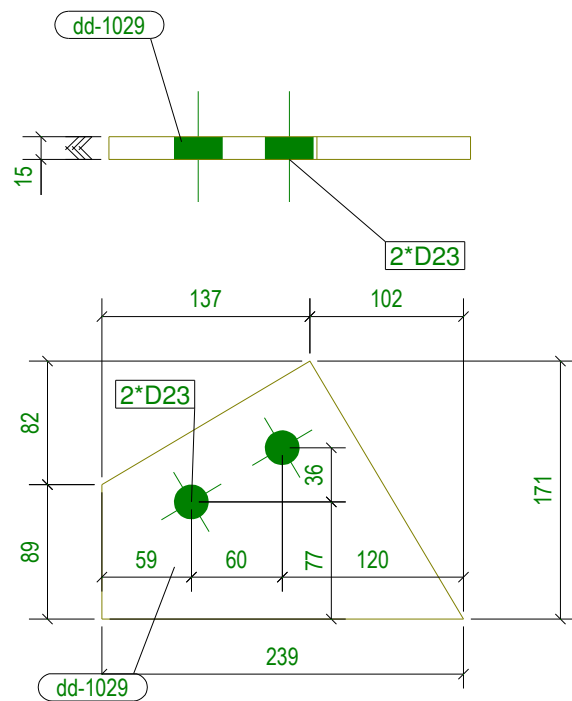
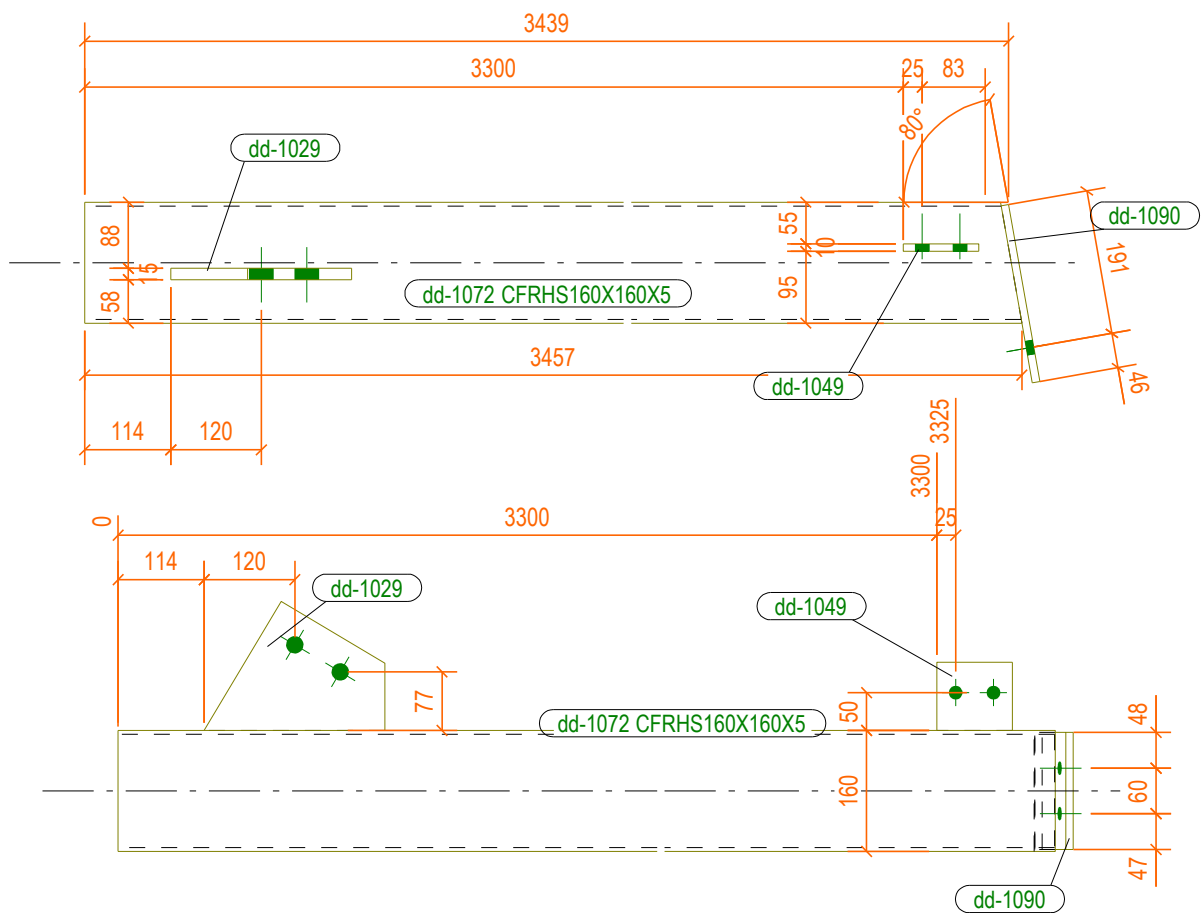
Technical drawing of a rectangular plate with dimensions and reinforcement details:

- Overall dimensions: 300 (width) x 140 (height).
- Reinforcement details:
 - Top edge: 8 mm diameter reinforcement bar.
 - Bottom edge: 1013 mm diameter reinforcement bar.
 - Left edge: 15 mm diameter reinforcement bar.
 - Right edge: 2*D23 reinforcement bars.
- Internal dimensions and reinforcement:
 - Internal width: 271 mm.
 - Internal height: 176 mm.
 - Reinforcement bars: dd-1028 (diameter 1028 mm).
 - Reinforcement spacing: 148 mm, 122 mm, 103 mm, 73 mm, 60 mm, 54 mm, 72 mm, 157 mm.

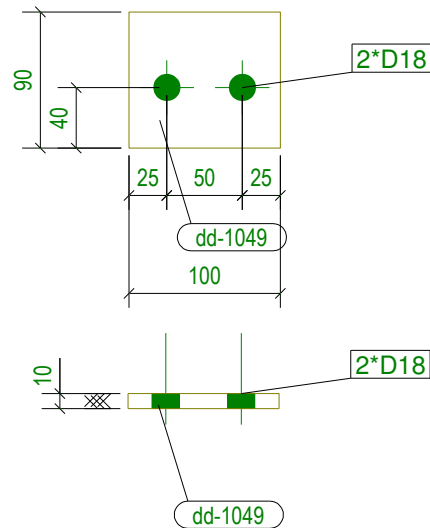
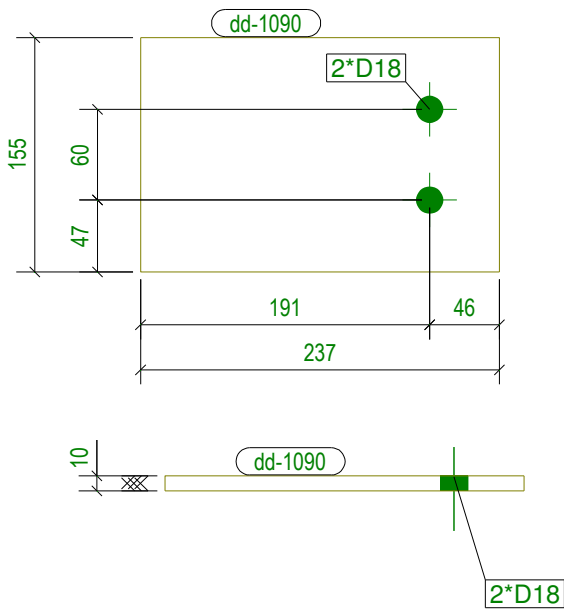
PASTABOS:

1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2t ir ne maziau kaip t kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-7 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B7 | | | LAPAS 1 | LAPU 1 |

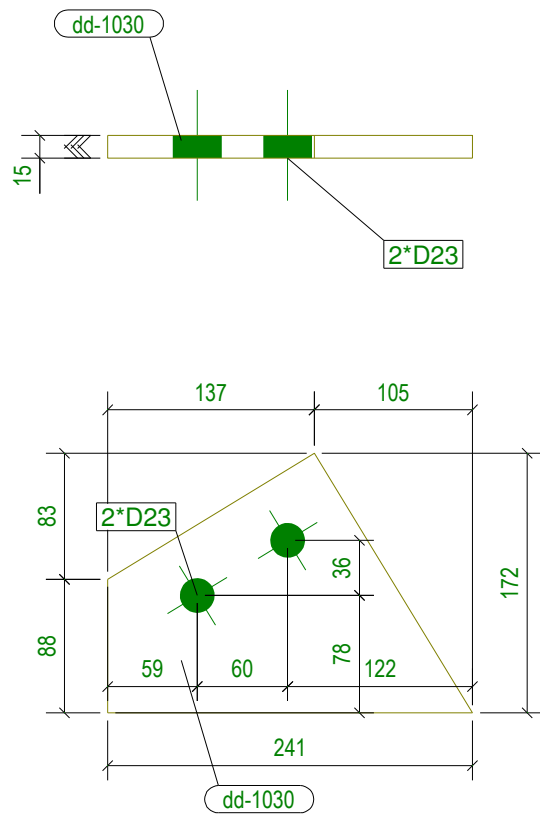
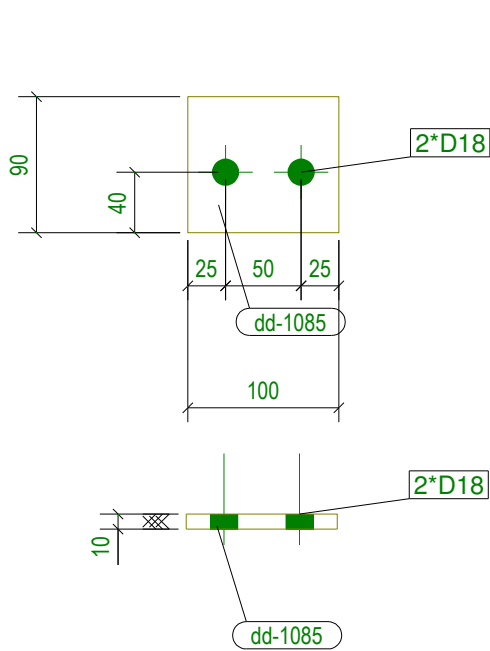
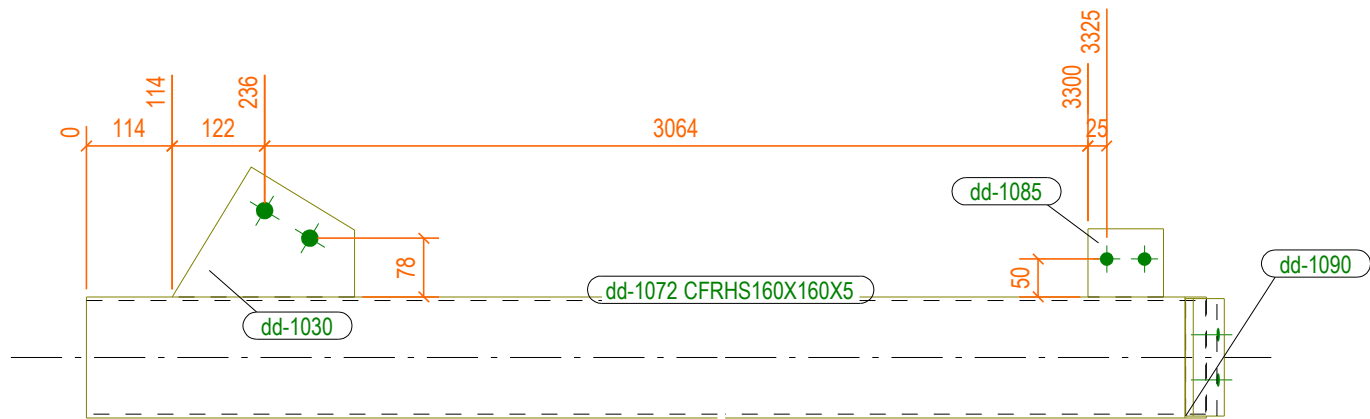
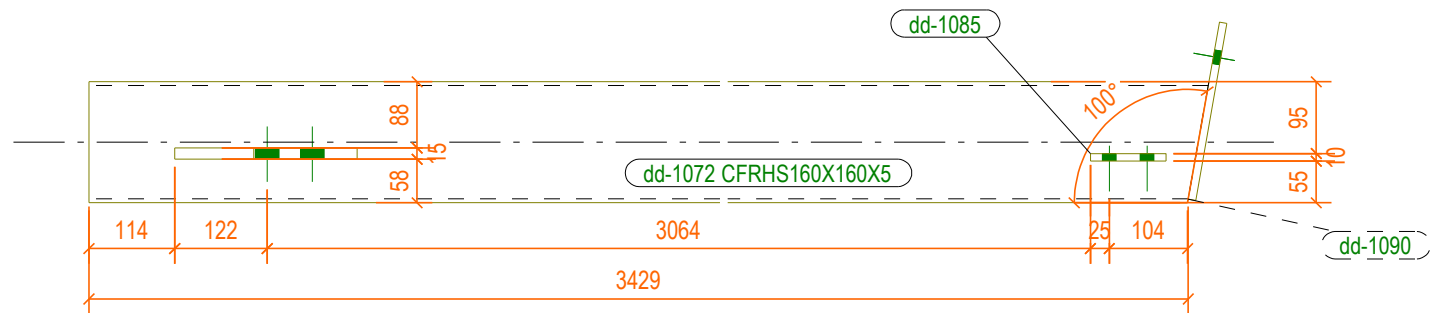


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-8 | | VNT. | 1 | 91.00 | 91.00 | 2.32 | 2.32 |
| dd-1029 | PL15*171, L = 239 mm, S355JR | | VNT. | 1 | 3.12 | 3.12 | 0.063 | 0.063 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 1 | 0.71 | 0.71 | 0.022 | 0.022 |
| dd-1072 | CFRHS160X160X5, L = 3456 mm, S355JR | | VNT. | 1 | 82.37 | 82.37 | 2.153 | 2.153 |
| dd-1090 | PL10*155, L = 237 mm, S355JR | | VNT. | 1 | 2.89 | 2.89 | 0.081 | 0.081 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.67 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 91 | - | - | 2.32 |

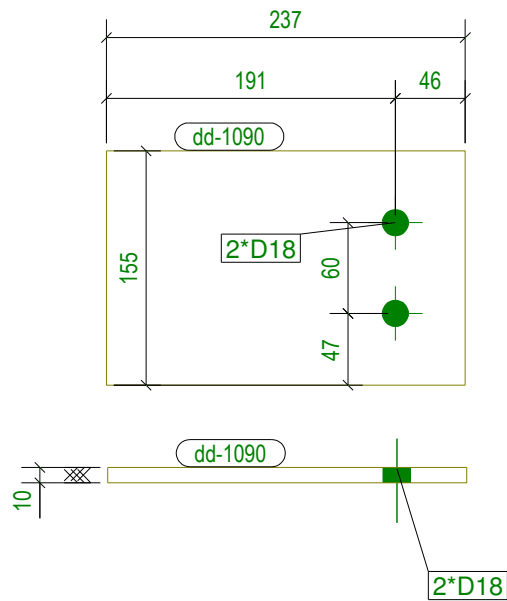


- PASTABOS:
1. Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-8 | | | LAIDA |
| | | | | | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio numeris: 2020-03/2-DP-SK -B8 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

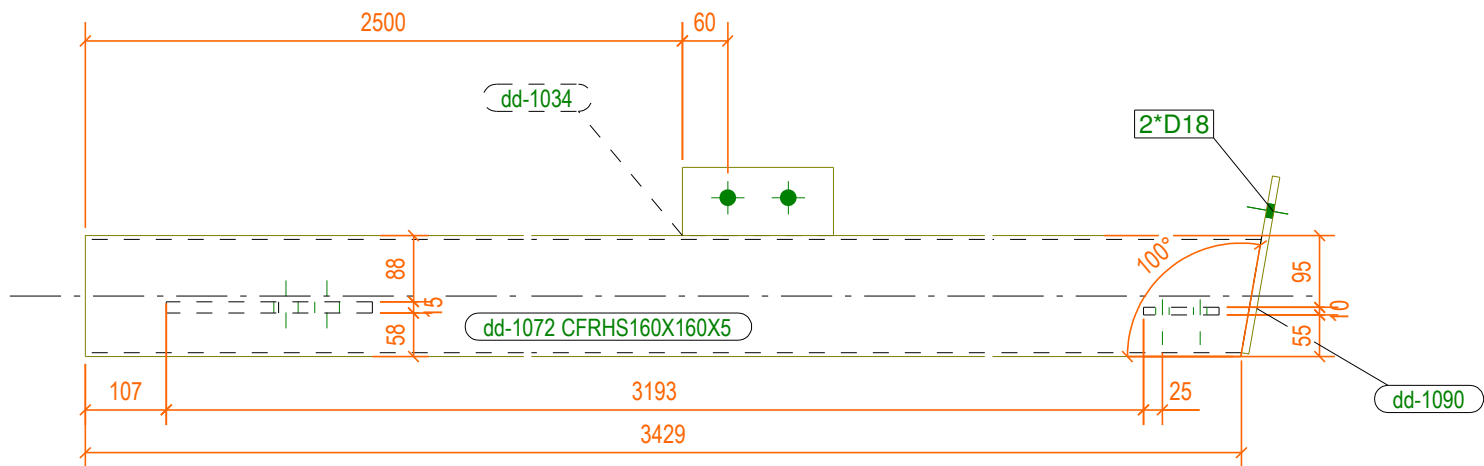


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-9 | | VNT. | 1 | 91.00 | 91.00 | 2.32 | 2.32 |
| dd-1030 | PL15*172, L = 241 mm, S355JR | | VNT. | 1 | 3.15 | 3.15 | 0.064 | 0.064 |
| dd-1072 | CFRHS160X160X5, L = 3456 mm, S355JR | | VNT. | 1 | 82.37 | 82.37 | 2.153 | 2.153 |
| dd-1085 | PL10*90, L = 100 mm, S355JR | | VNT. | 1 | 0.71 | 0.71 | 0.022 | 0.022 |
| dd-1090 | PL10*155, L = 237 mm, S355JR | | VNT. | 1 | 2.89 | 2.89 | 0.081 | 0.081 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.67 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 91 | - | - | 2.32 |

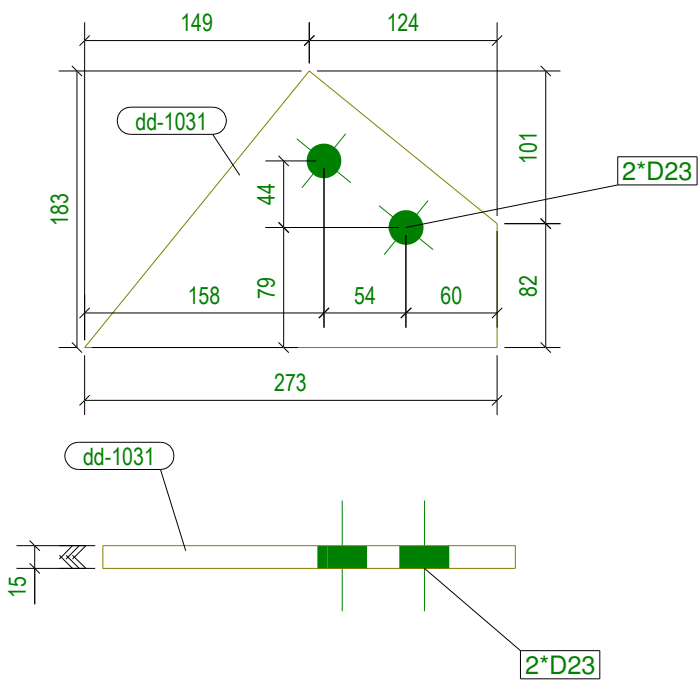
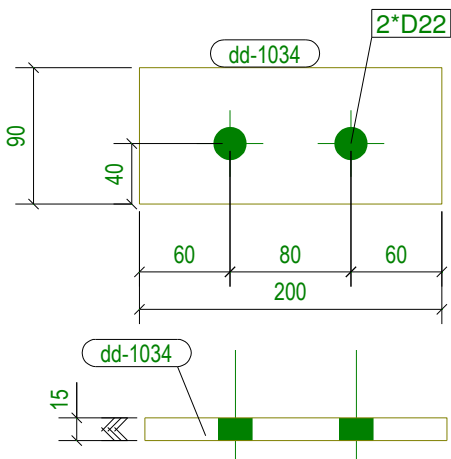
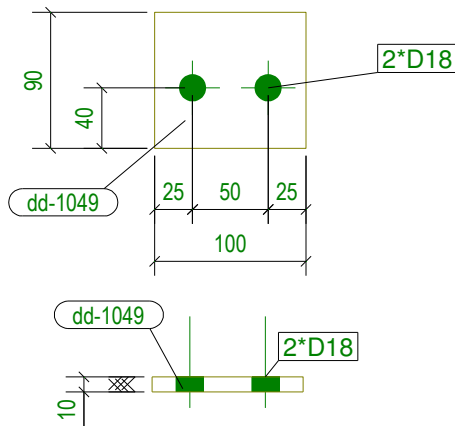
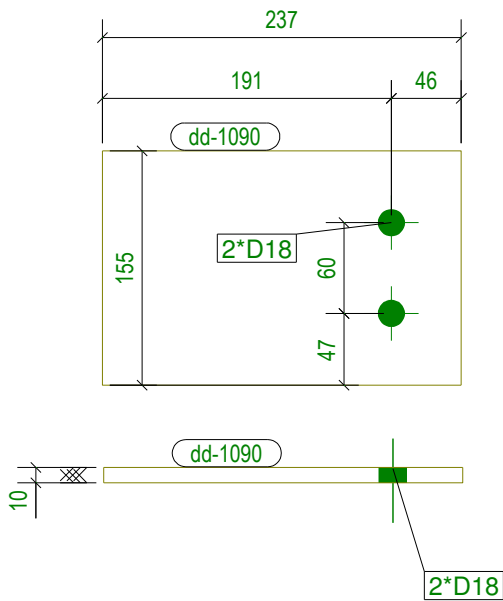
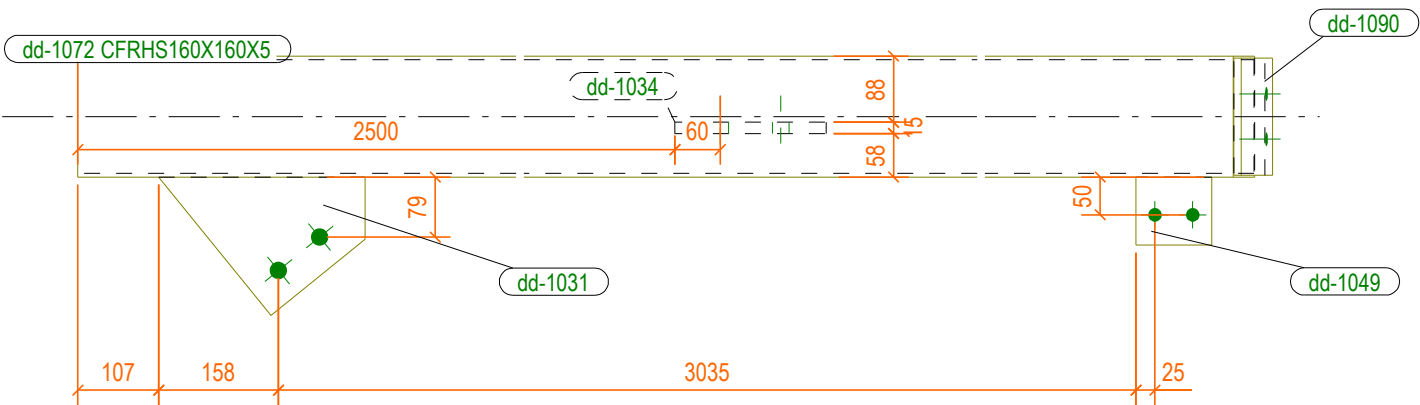


- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-9 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B9 | | | LAPU |
| | | | | | | | 1 | 1 |



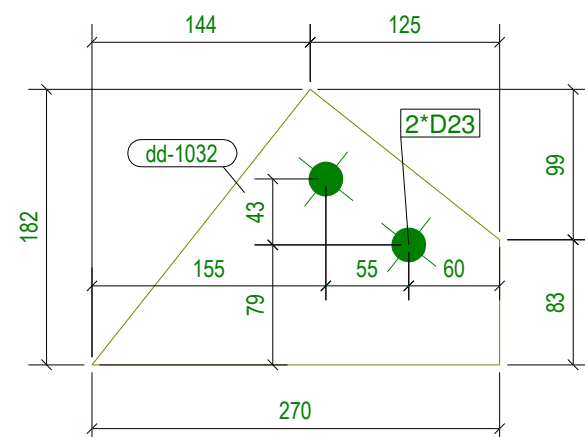
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-10 | | VNT. | 1 | 94.00 | 94.00 | 2.37 | 2.37 |
| dd-1031 | PL15*183, L = 272 mm, S355JR | | VNT. | 1 | 3.54 | 3.54 | 0.071 | 0.071 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 1 | 0.71 | 0.71 | 0.022 | 0.022 |
| dd-1072 | CFRHS160X160X5, L = 3456 mm, S355JR | | VNT. | 1 | 82.37 | 82.37 | 2.153 | 2.153 |
| dd-1090 | PL10*155, L = 237 mm, S355JR | | VNT. | 1 | 2.89 | 2.89 | 0.081 | 0.081 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 2.75 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 94 | - | - | 2.37 |



PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-10 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B10 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

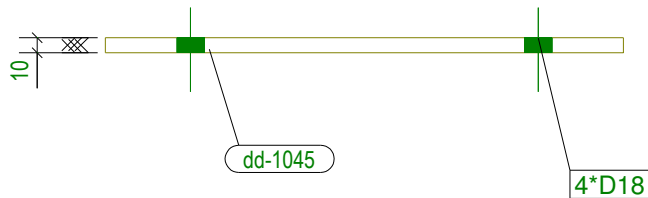
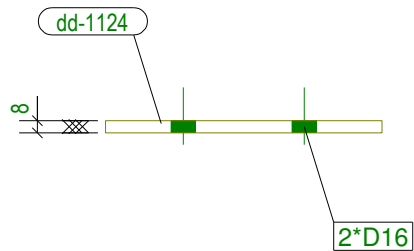
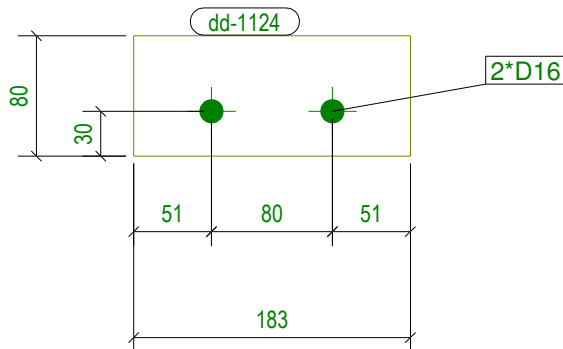
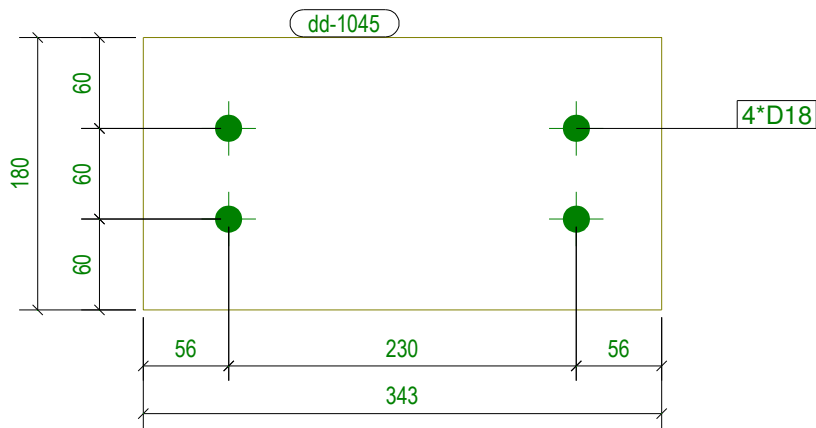
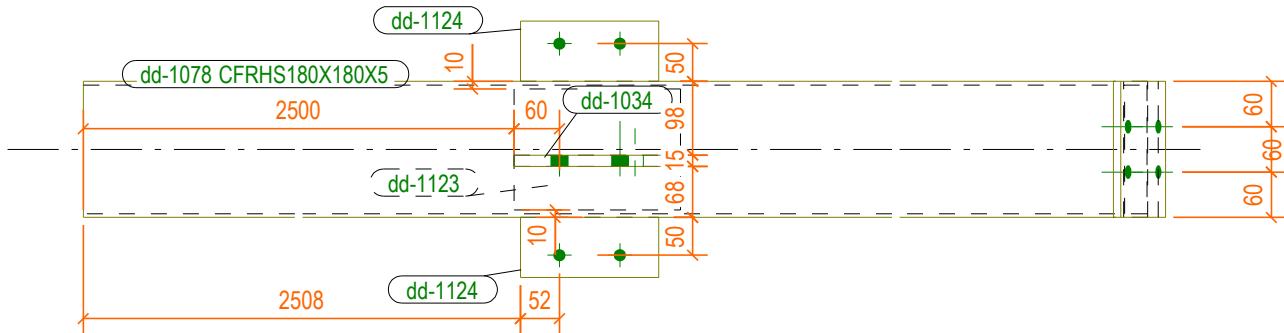
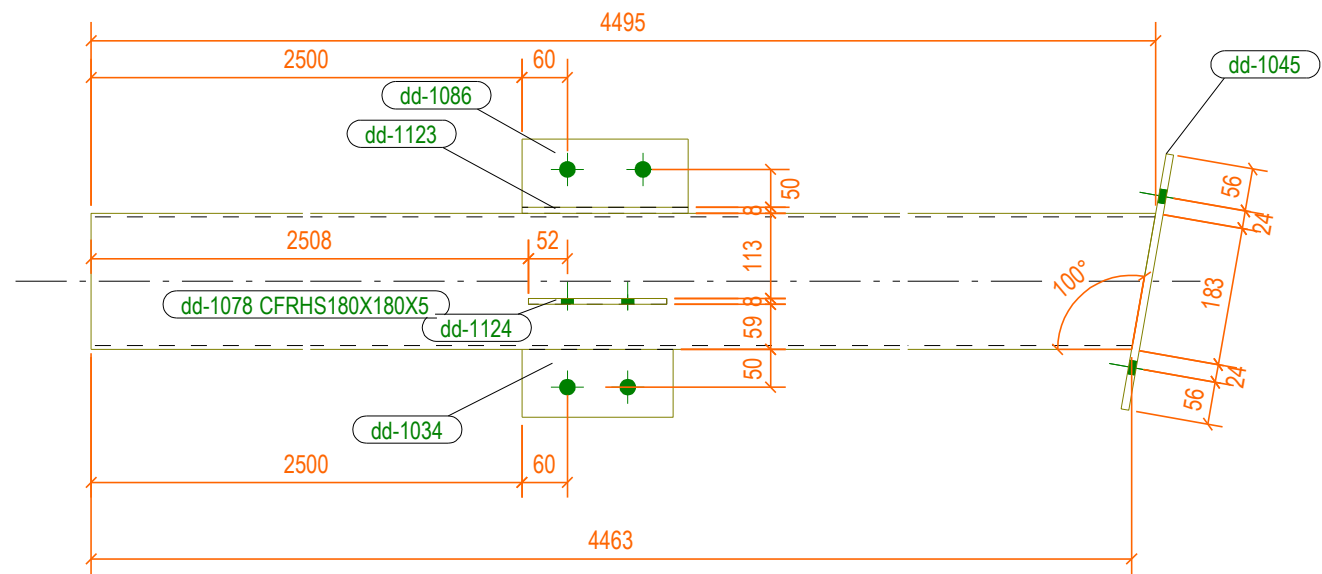


Technical drawing showing a rectangular plate with dimensions 191 (width) and 155 (height). The plate has two holes, each with a diameter of 18 (D18), spaced 47 units apart. The distance from the top edge to the center of the upper hole is 60 units. The distance from the right edge to the center of the holes is 46 units. The plate is labeled with a part number dd-1090. A detail view shows a cross-section of the plate with a thickness of 10 units and a hole with a diameter of 18 (D18). The detail view is labeled with a part number dd-1090.

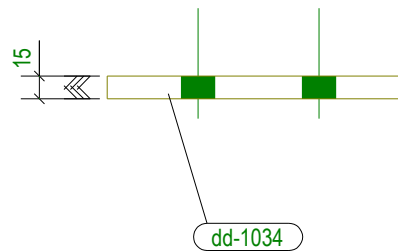
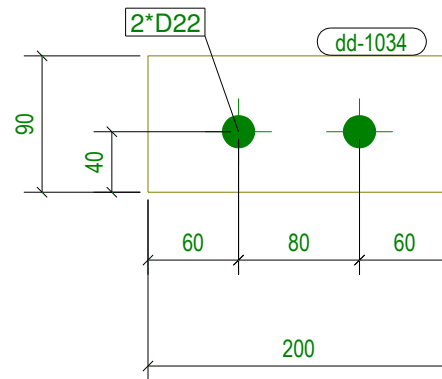
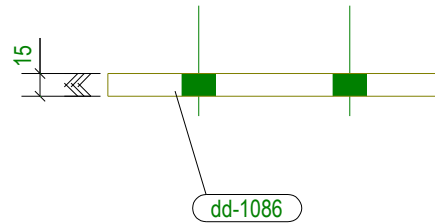
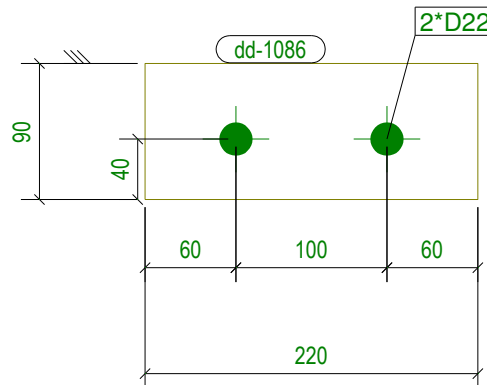
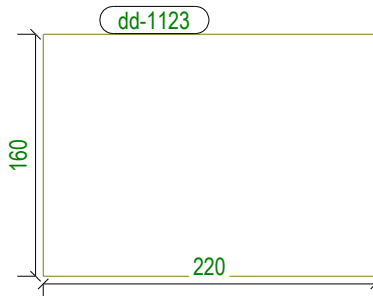
PASTABOS:

1. Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w ne mažiau kaip 1,4 mm;
 - vielos stipris f_w , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinant ugniai atsparumą.
4. Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2t ir ne mažiau kaip t, kur t - plonėsiojo iš suvirinamų elementų storis.

| | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|-----------|------------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-11 | | LAIDA |
| | | | | | | | |
| | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B11 | | LAPAS 1 |
| | | | | | | LAPU 1 | |



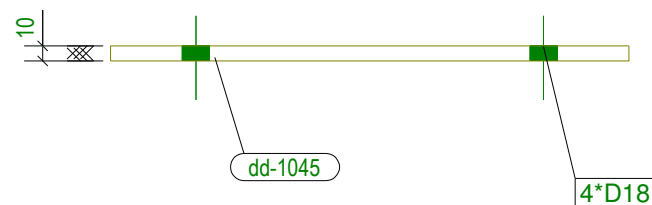
| POZICIJA EIL. NR | PAVADINIMAS IR TECHININ/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-12 | | VNT. | 1 | 138.00 | 138.00 | 3.53 | 3.53 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1078 | CFRHS180X180X5, L = 4495 mm, S355JR | | VNT. | 1 | 121.23 | 121.23 | 3.159 | 3.159 |
| dd-1086 | PL15*90, L = 220 mm, S355JR | | VNT. | 1 | 2.33 | 2.33 | 0.049 | 0.049 |
| dd-1123 | PL8*160, L = 220 mm, S355JR | | VNT. | 1 | 2.21 | 2.21 | 0.076 | 0.076 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 2 | 0.91 | 1.83 | 0.033 | 0.067 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | 4.04 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 138 | - | - | 3.53 |



PASTABOS:

- Profilų plienas S355JR uvrinimo reikalavimai:
 - suvrinimas pusiau automatiniu būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fw, u ne mažiau kaip 500N/ mm2;
 - suvrinimo padėtis žemutinė.
- Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
- Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparuma .
- Jei nenurodyta kitaip, suvrinimo siūles aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvrinamu elementu storis.

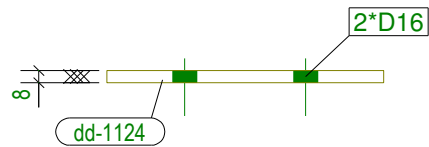
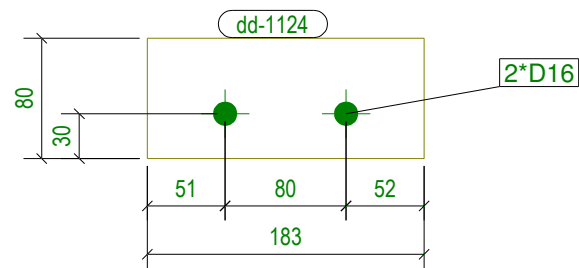
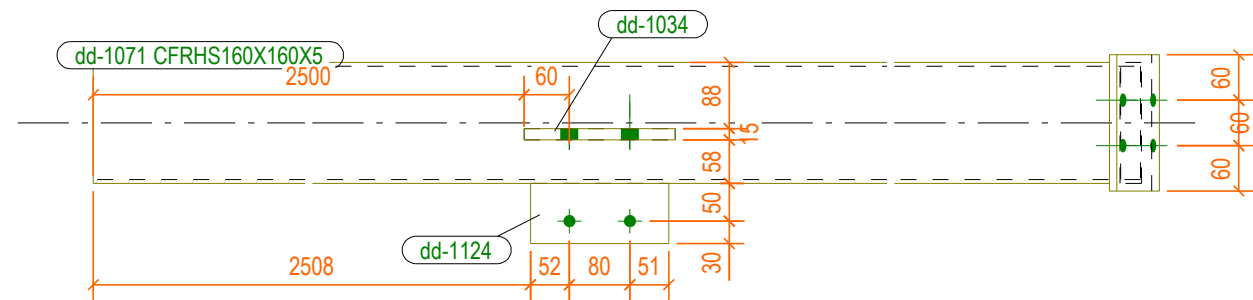
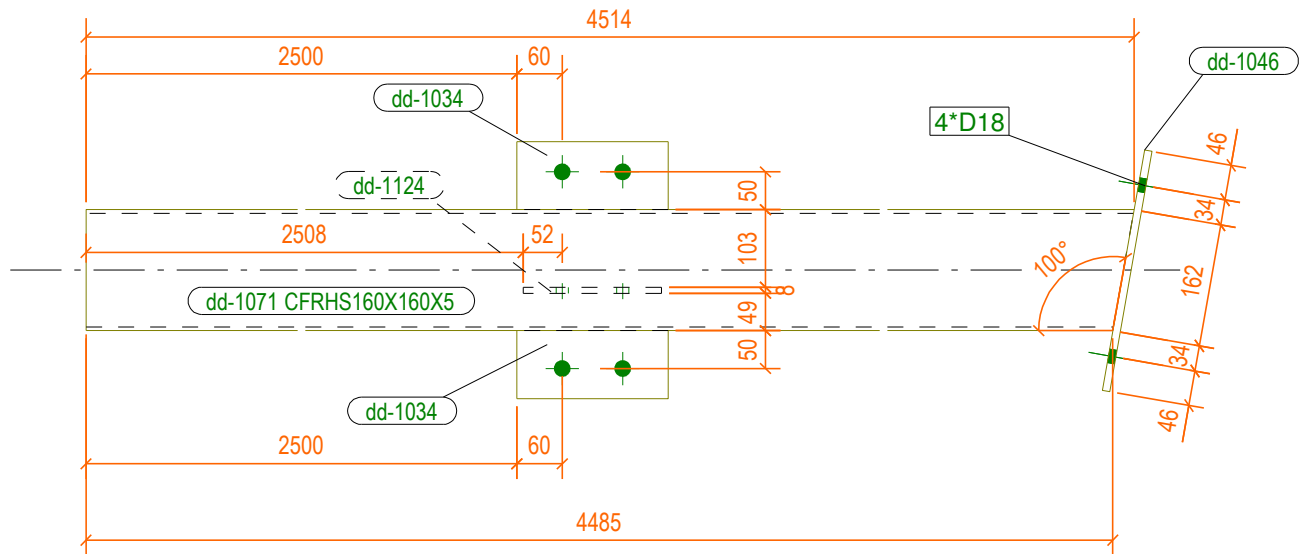
| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-12 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B12 | | | LAPU |
| | | | | | | | 1 | 1 |



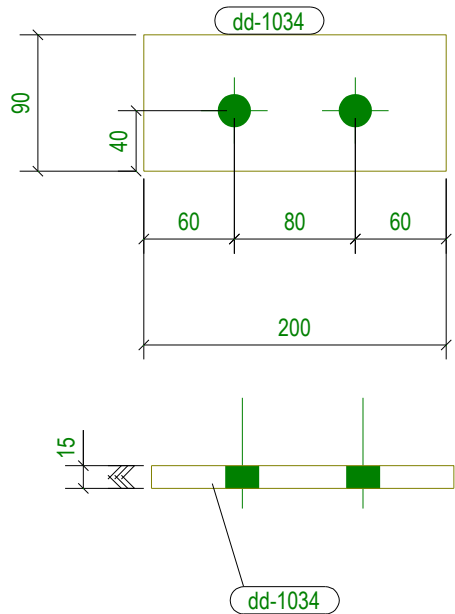
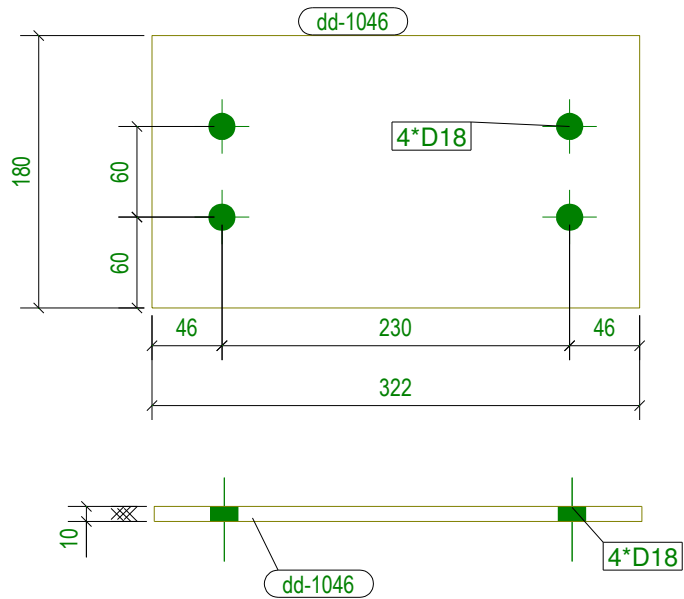
Technical drawing of a rectangular plate with two holes. The plate has a total width of 220 and a total height of 90. The distance between the centers of the two holes is 100. The distance from the left edge to the center of the first hole is 60, and from the center of the second hole to the right edge is 60. The distance from the top edge to the center of the holes is 40. The holes are labeled "2*D22". The plate is labeled "dd-1086". A detail view shows a cross-section of the plate with a thickness of 15 and a fillet radius of 8.

1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|-----------|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-13 | | LAIDA |
| | | | | | | | |
| | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B13 | | LAPAS 1 |
| | | | | | | LAPU 1 | |



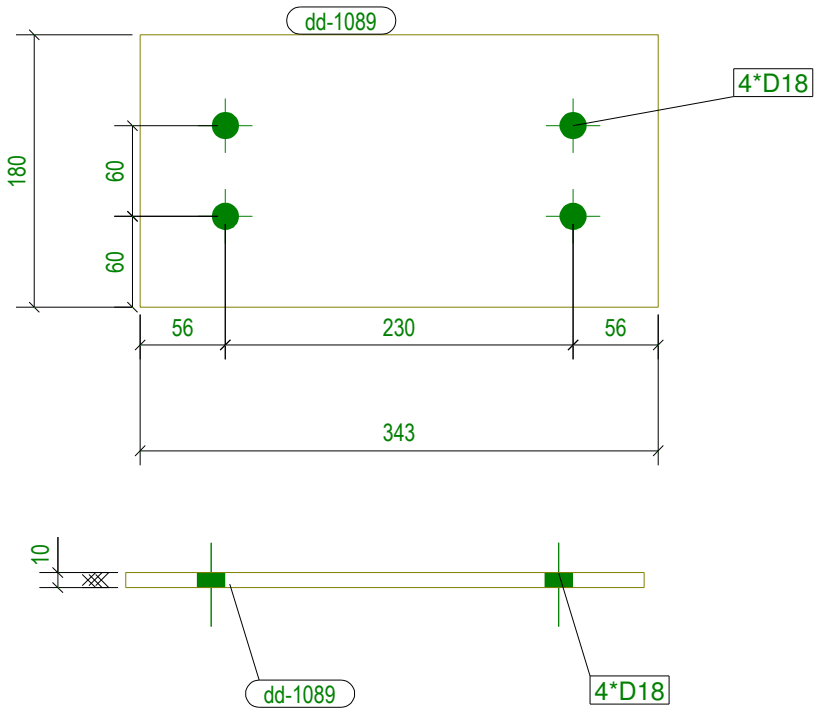
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-14 | | VNT. | 1 | 120.00 | 120.00 | 3.06 | 3.06 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 2 | 2.12 | 4.24 | 0.045 | 0.089 |
| dd-1046 | PL10*180, L = 322 mm, S355JR | | VNT. | 1 | 4.56 | 4.56 | 0.126 | 0.126 |
| dd-1071 | CFRHS160X160X5, L = 4513 mm, S355JR | | VNT. | 1 | 107.56 | 107.56 | 2.811 | 2.811 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 1 | 0.91 | 0.91 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 3.52 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 120 | - | - | 3.06 |



- PASTABOS:
1. Profilių plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau kaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparumą .
 4. Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamu elementu storis.

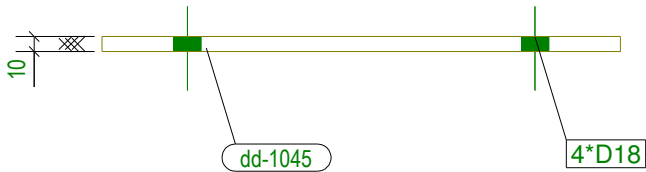
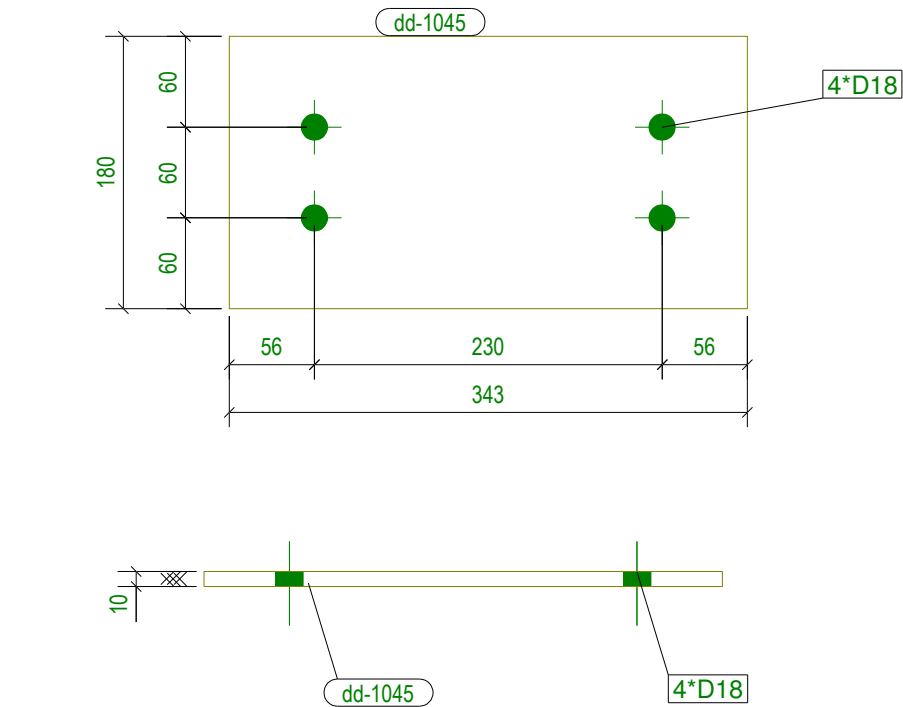
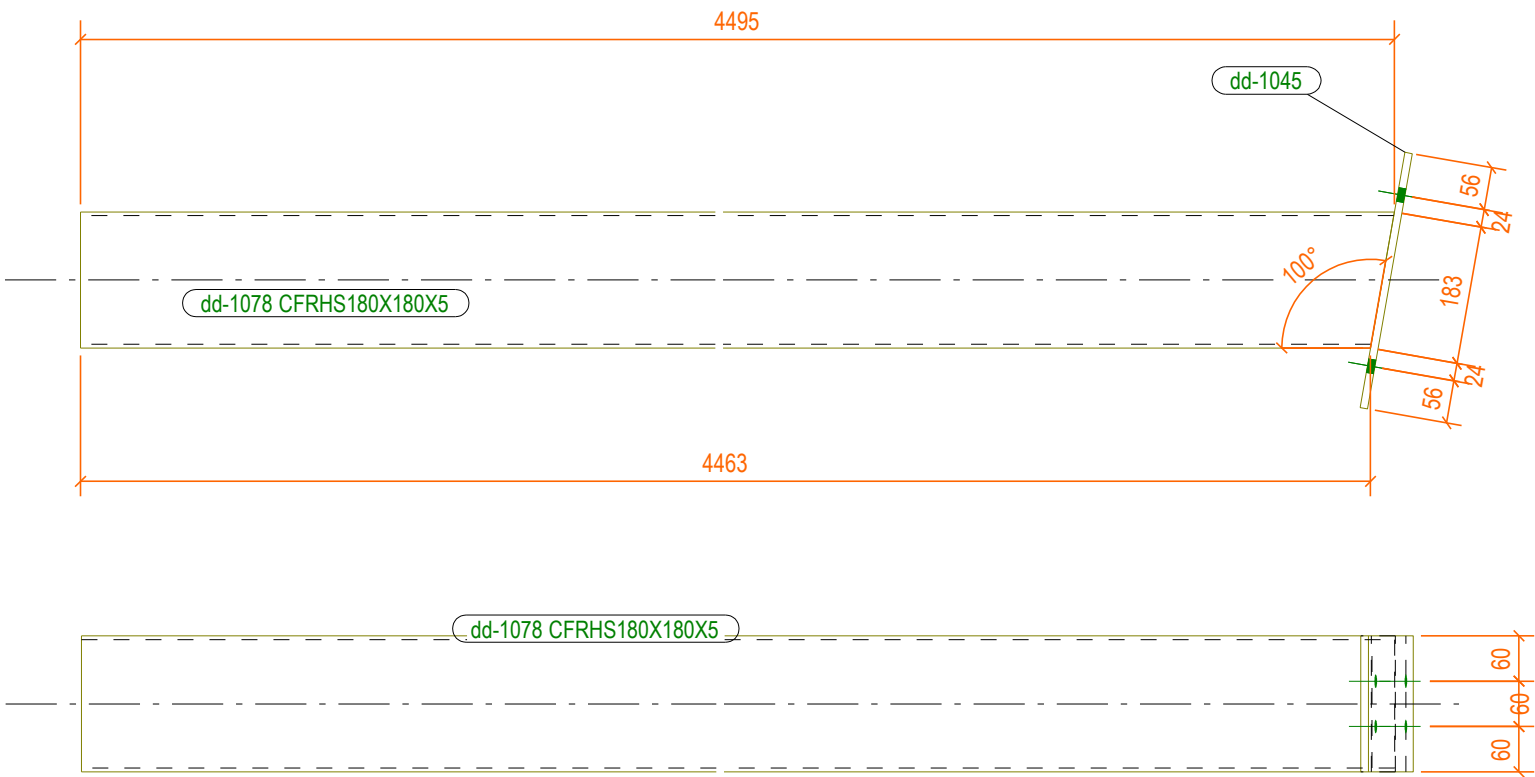
| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-14 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B14 | | | LAPU |
| | | | | | | | 1 | 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHININ/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-15 | | VNT. | 3 | 119.00 | 357.00 | 3.02 | 9.06 |
| dd-1080 | CFRHS180X180X5, L = 4107 mm, S355JR | | VNT. | 1 | 110.78 | 110.78 | 2.887 | 2.887 |
| dd-1089 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.47 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 119 | - | 3.02 |



- PASTABOS:
1. Profilių plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinu būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-15 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B15 | | | LAPAS 1 |
| 19978 | PDV | R. Diškevičius | | | | | | LAPU 1 |
| | | | | | | | | |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | |

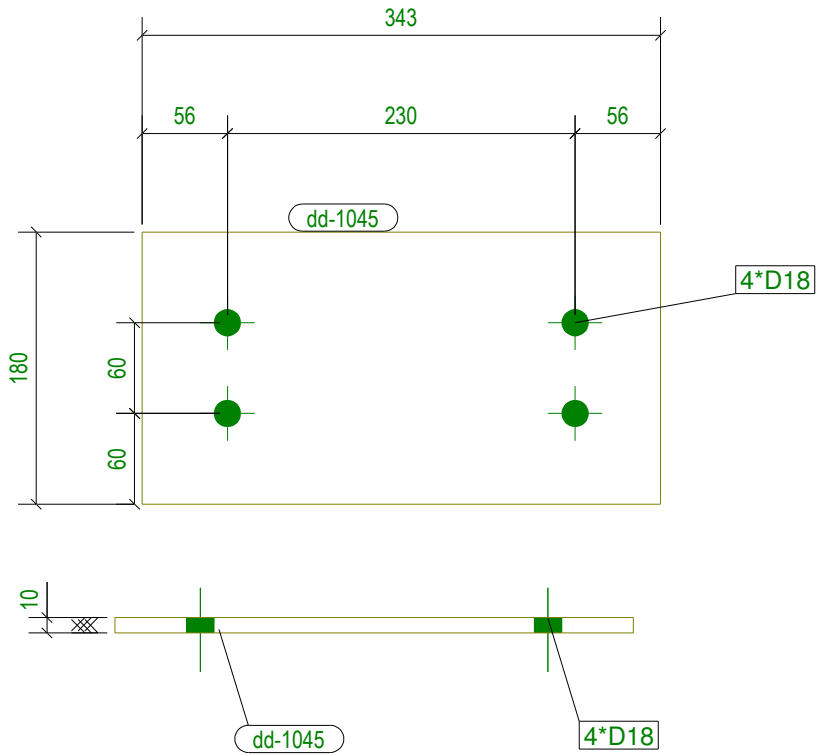
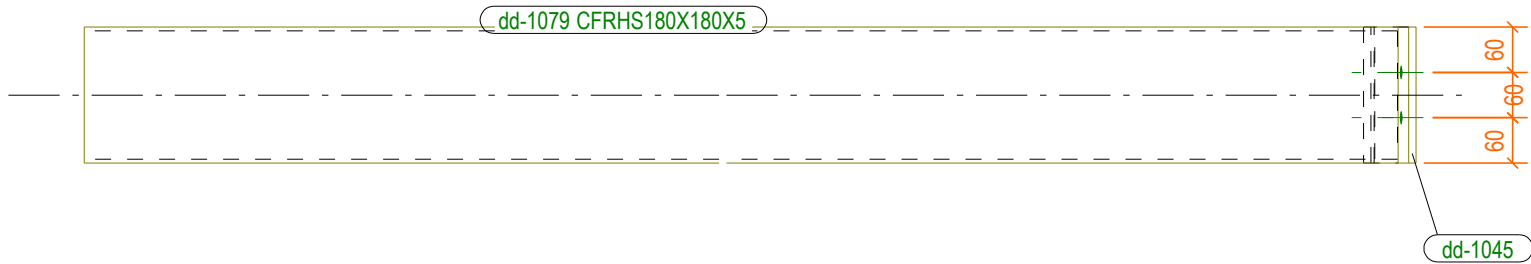
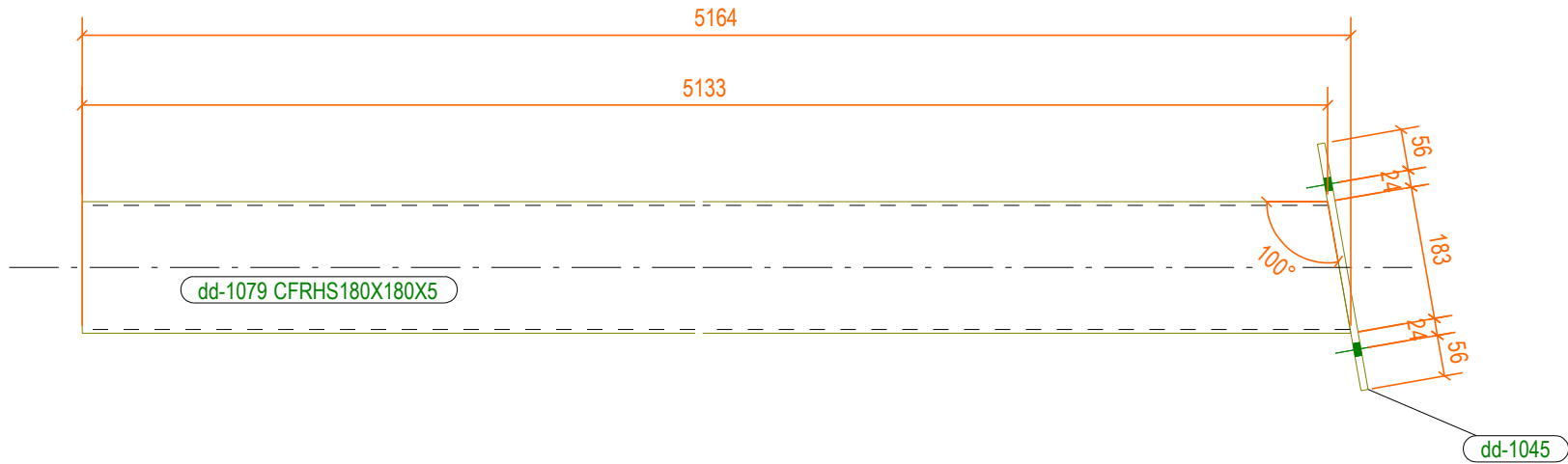


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-16 | | VNT. | 3 | 129.00 | 387.00 | 3.29 | 9.88 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1078 | CFRHS180X180X5, L = 4495 mm, S355JR | | VNT. | 1 | 121.23 | 121.23 | 3.159 | 3.159 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 3.78 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 129 | - | - | 3.29 |

- PASTABOS:
- Profilų plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-16 | | | |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B16 | | | LAPU |
| | | | | | | | 1 | 1 |

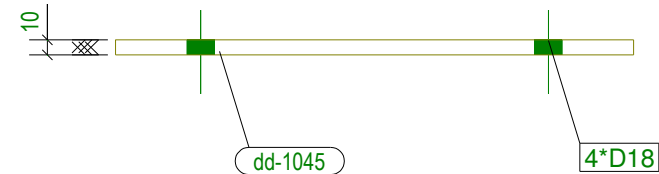
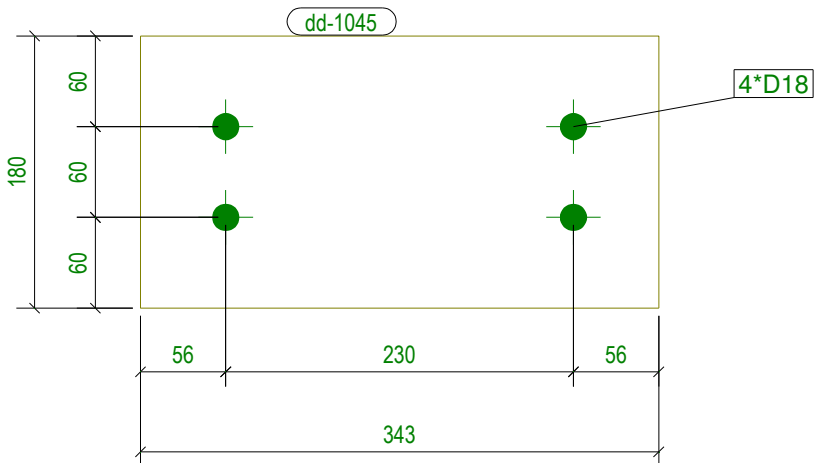
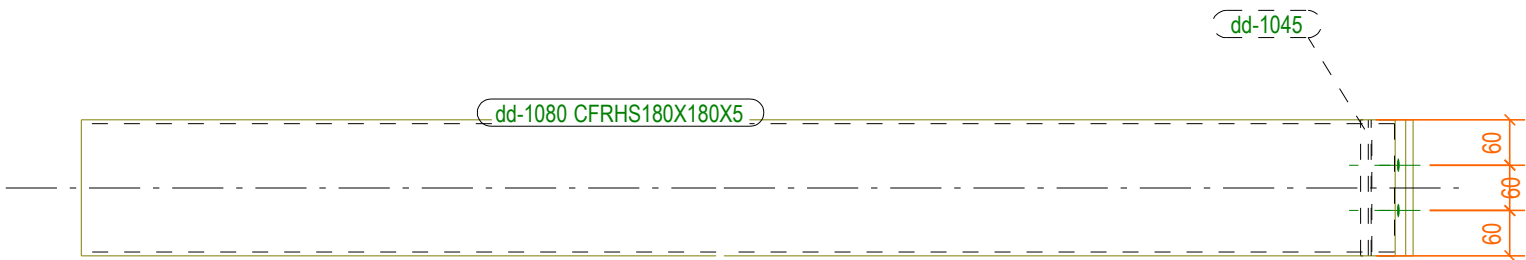
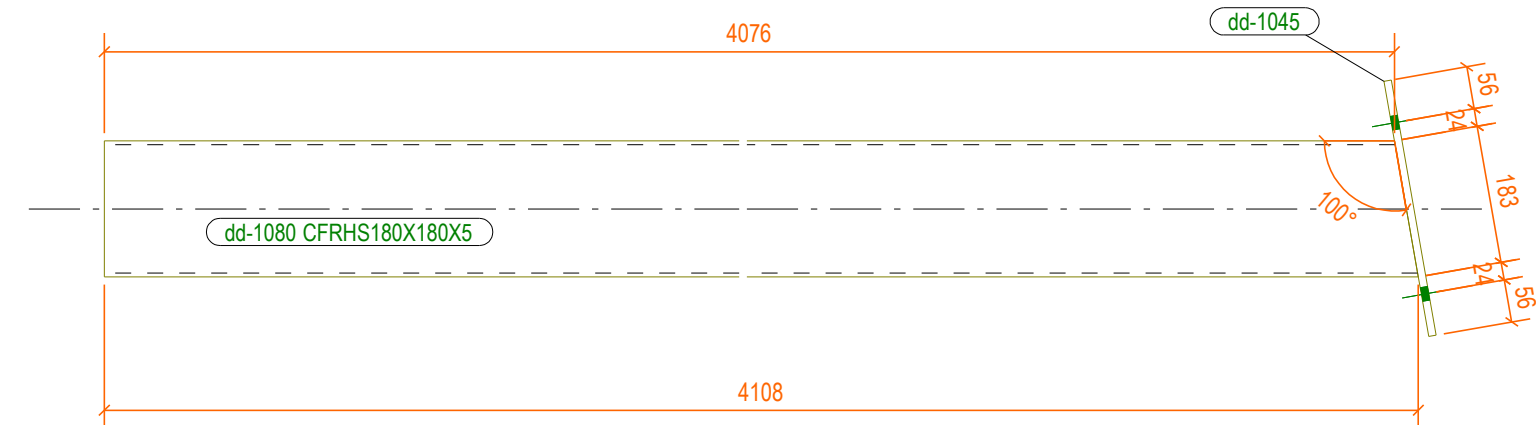
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-17 | | VNT. | 1 | 148.00 | 148.00 | 3.76 | 3.76 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1079 | CFRHS180X180X5, L = 5164 mm, S355JR | | VNT. | 1 | 139.28 | 139.28 | 3.630 | 3.630 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 4.32 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 148 | - | - | 3.76 |



- PASTABOS:
- Profilų plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-17 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B17 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

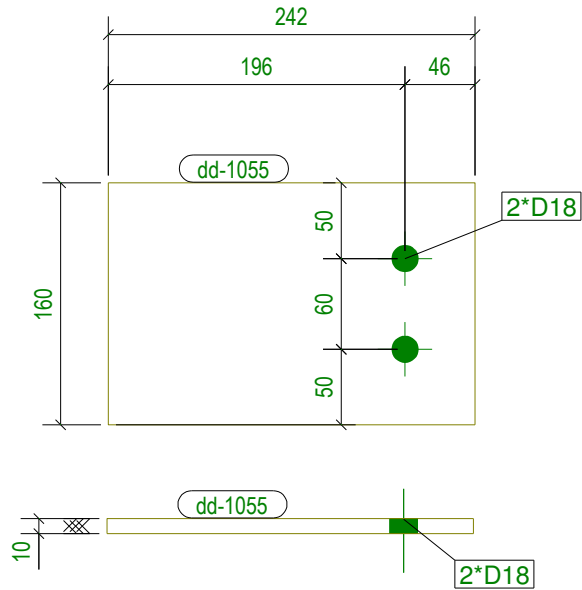
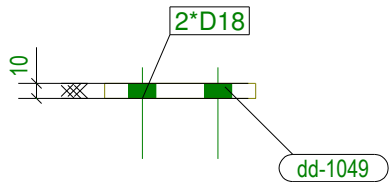
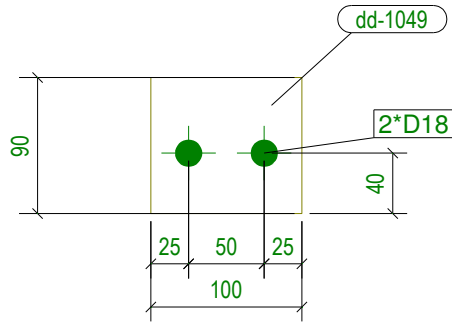
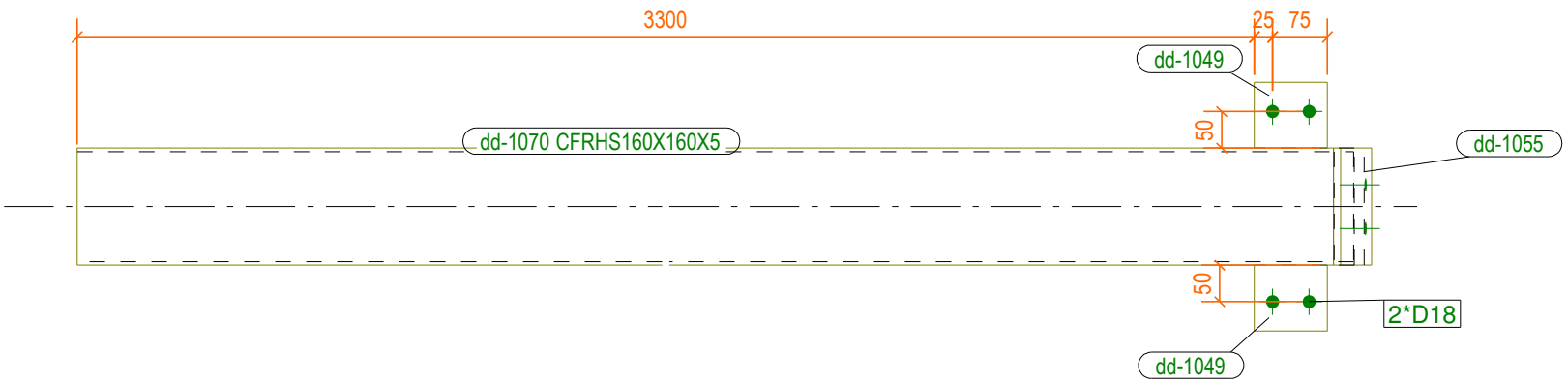
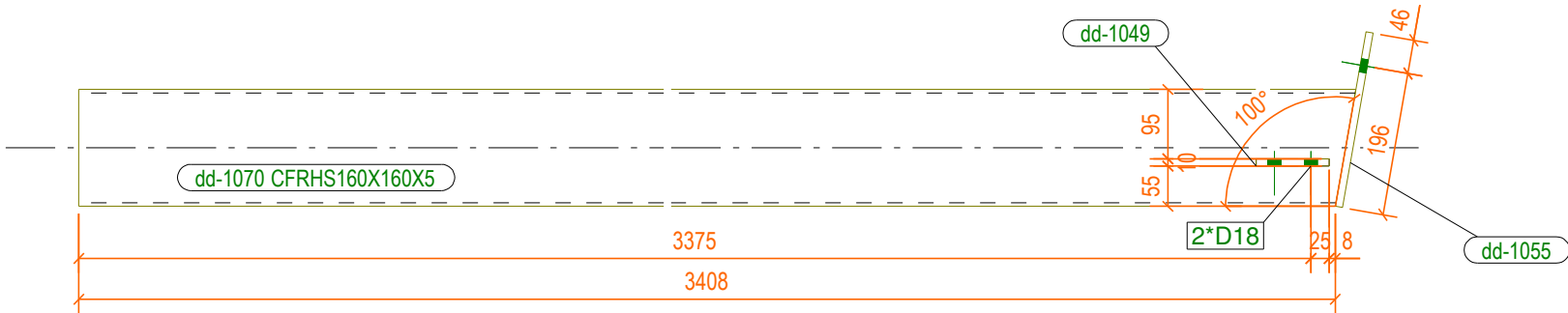
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUŽYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-18 | | VNT. | 2 | 119.00 | 238.00 | 3.02 | 6.04 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1080 | CFRHS180X180X5, L = 4107 mm, S355JR | | VNT. | 1 | 110.78 | 110.78 | 2.887 | 2.887 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.47 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 119 | - | 3.02 |



- PASTABOS:
- Profilų plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w ne mažiau kaip 1,4 mm;
 - vielos stipris f_w , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamų elementų storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-18 | | | |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadus | | | | 2020-03/2-DP-SK -B18 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

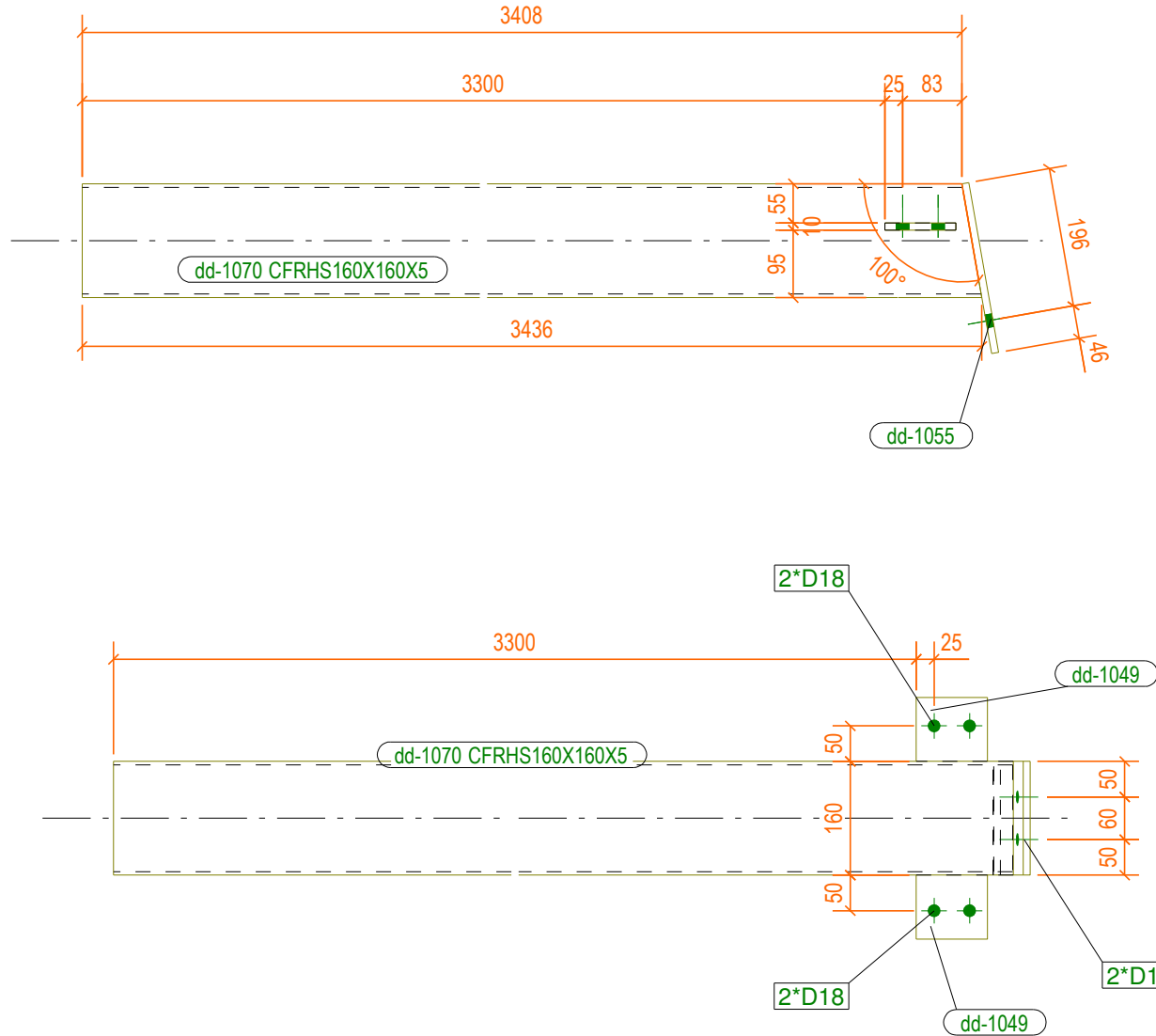
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS,m² | |
|---------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-20 | | VNT. | 2 | 88.00 | 176.00 | 2.27 | 4.54 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| SUVIRINIMO SIBĲL/IS, 3% : | | | | | 2.59 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 88 | - | - | 2.27 |



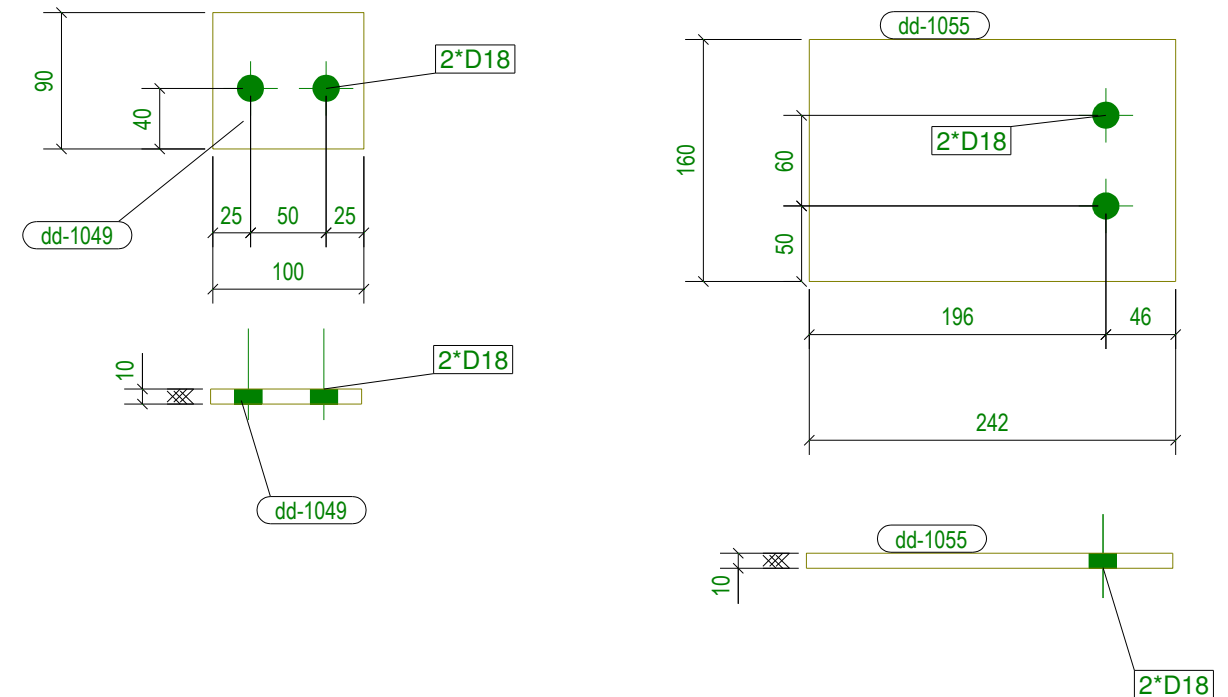
PASTABOS:

1. Profiliu plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-20 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B20 | | | LAPU |
| | | | | | | | 1 | 1 |



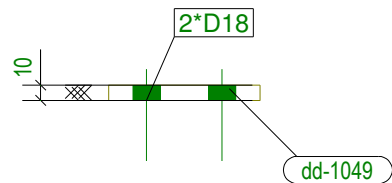
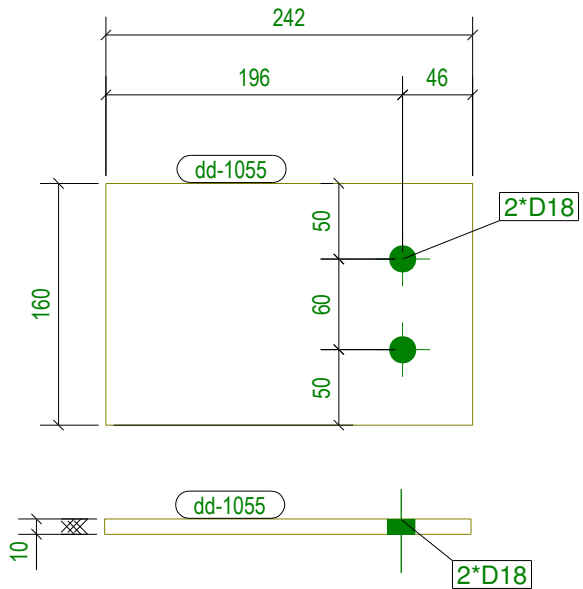
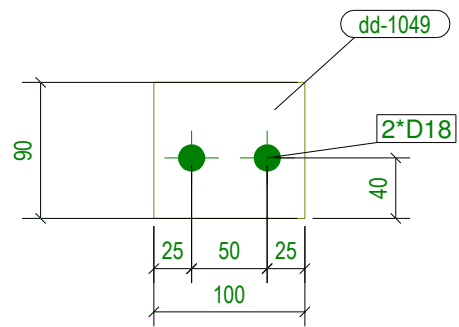
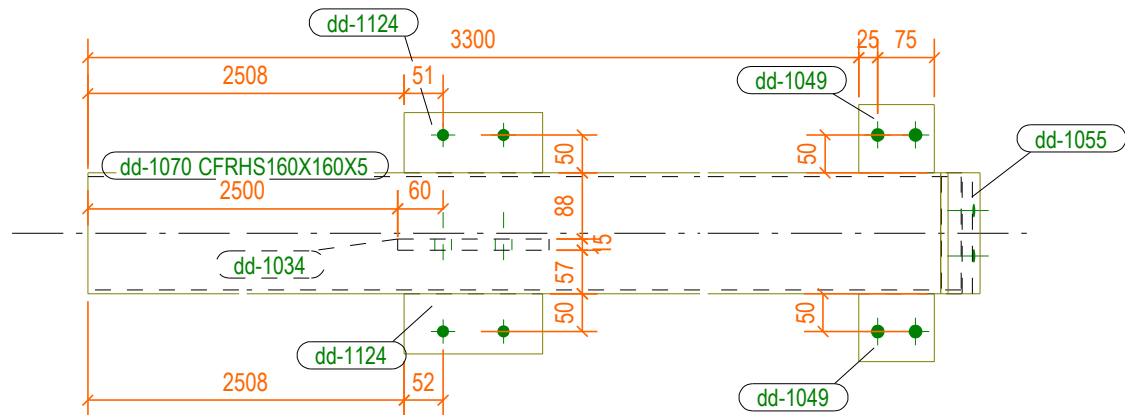
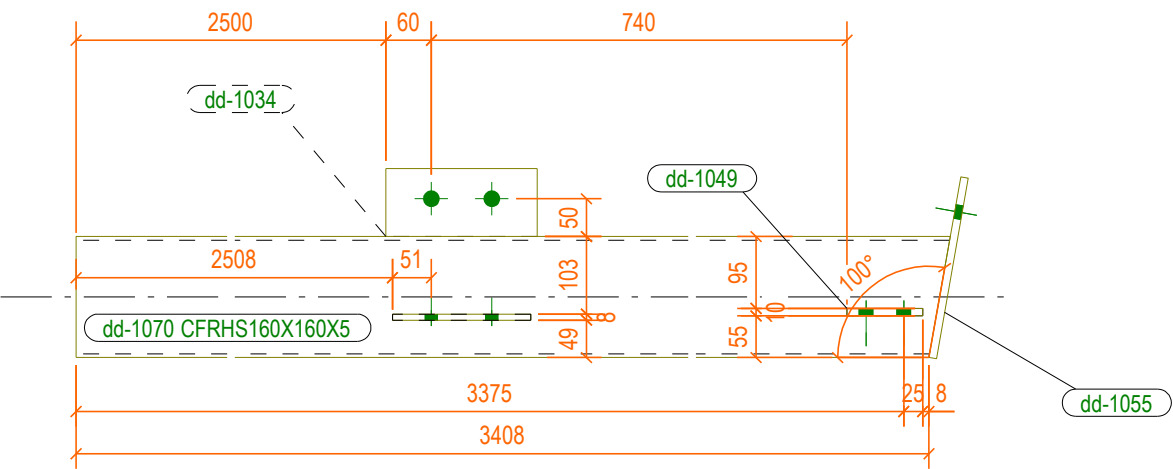
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUOMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-21 | | VNT. | 4 | 88.00 | 352.00 | 2.27 | 9.08 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| SUVIRINIMO SIBL/AS, 3% : | | | | | | 2.59 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 88 | - | 2.27 |



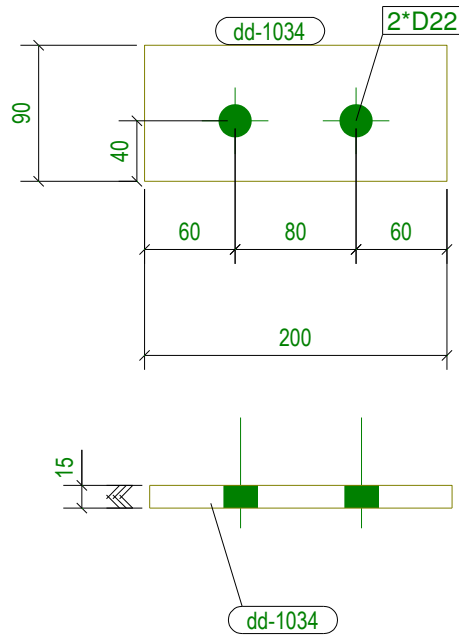
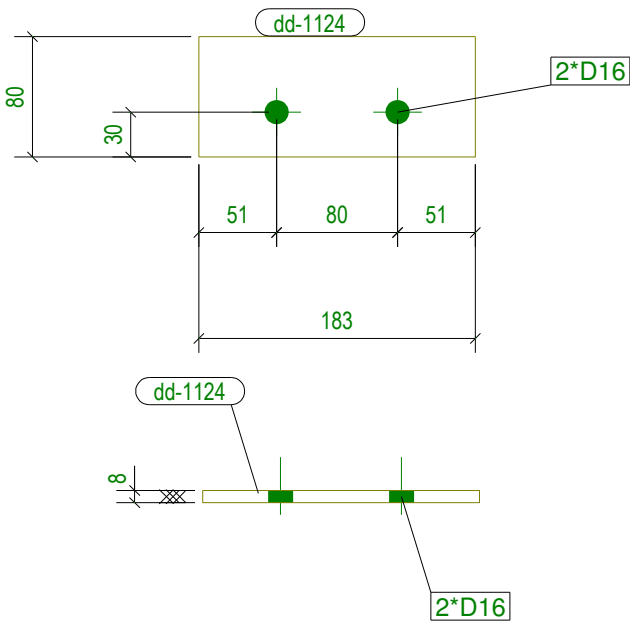
PASTABOS:

1. Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinio budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | | |
|-----------------|---------------------------------|----------------|--|--|---|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-21 | | | | LAIDA | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B21 | | | | LAPAS 1 | LAPU 1 |

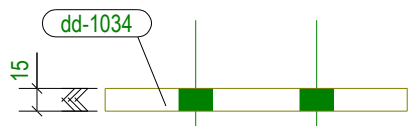
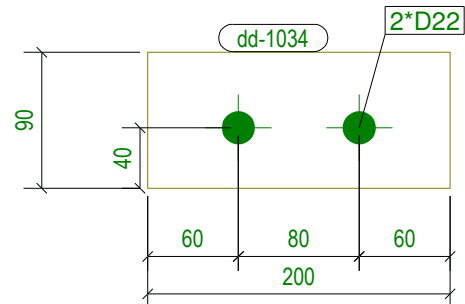
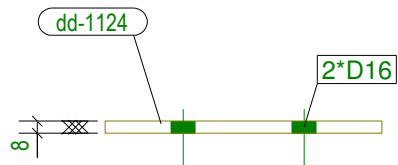
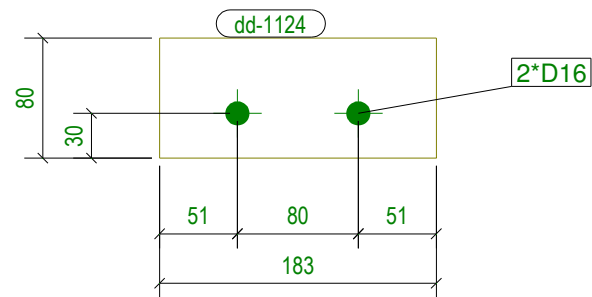
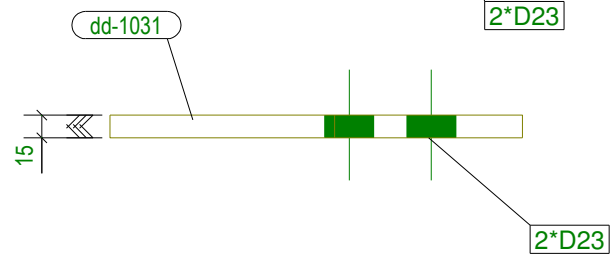
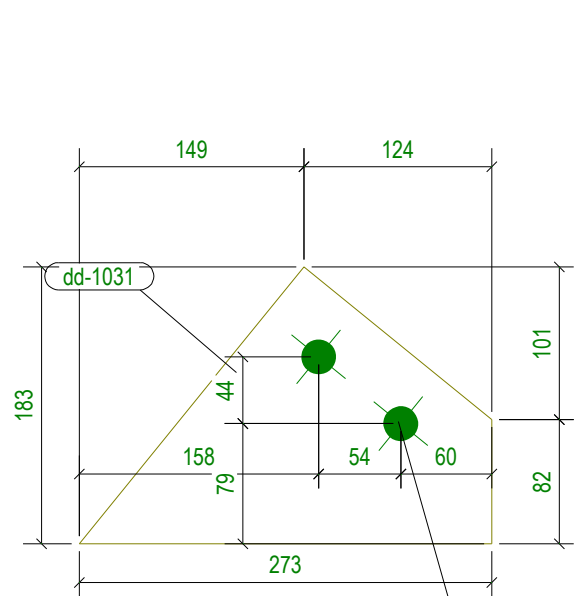
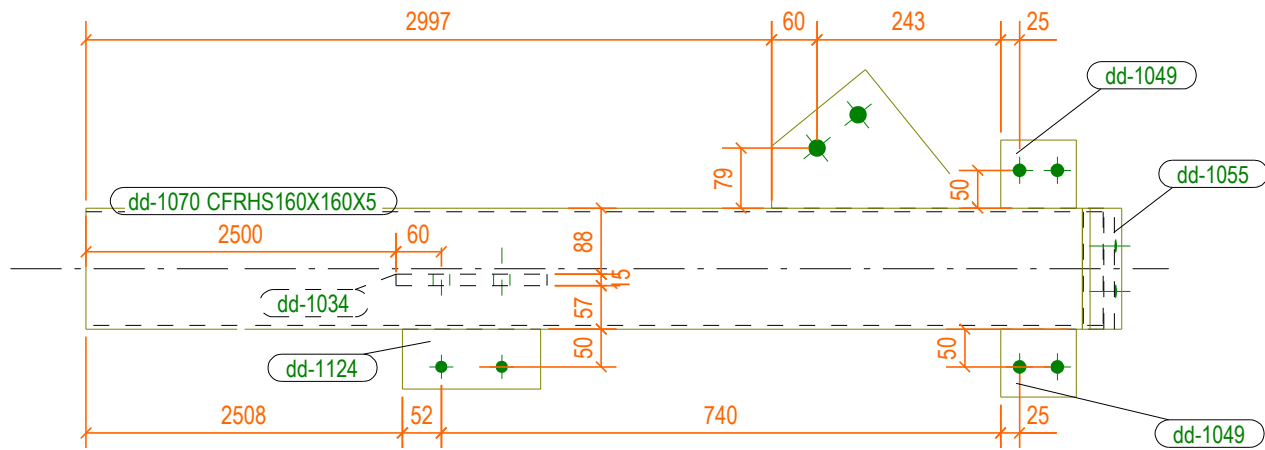
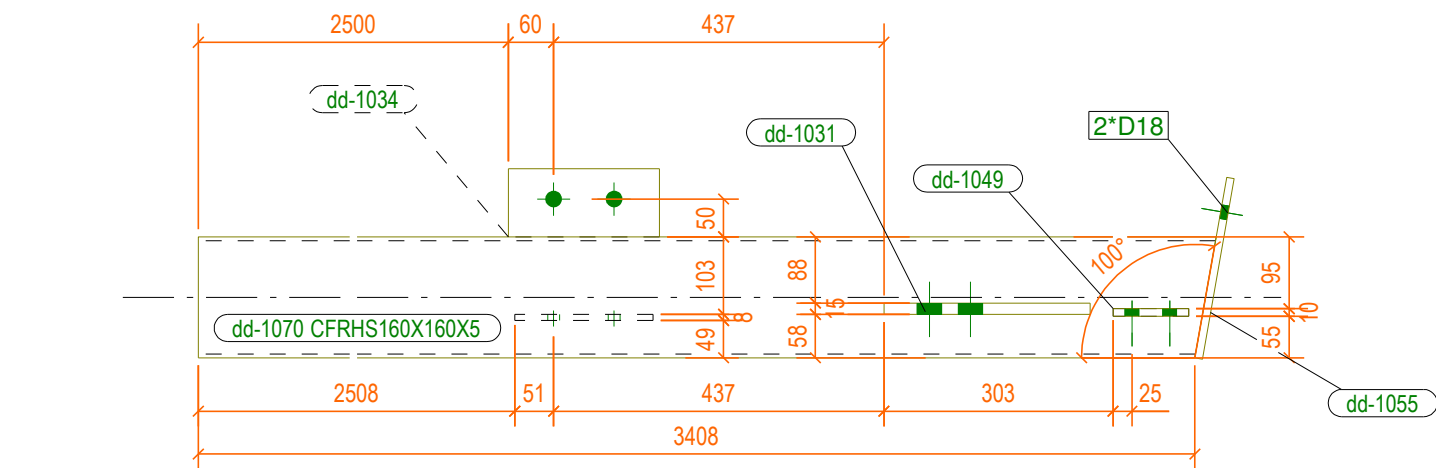


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-22 | | VNT. | 1 | 93.00 | 93.00 | 2.38 | 2.38 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 2 | 0.91 | 1.83 | 0.033 | 0.067 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.71 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 93 | - | - | 2.38 |

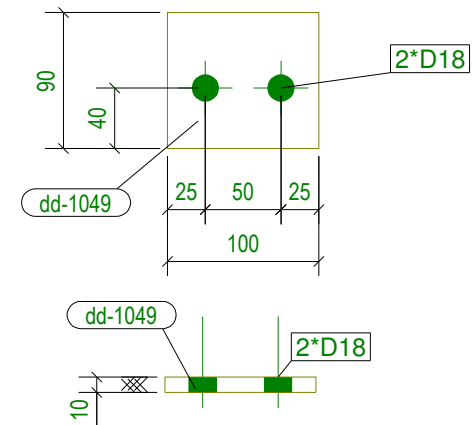
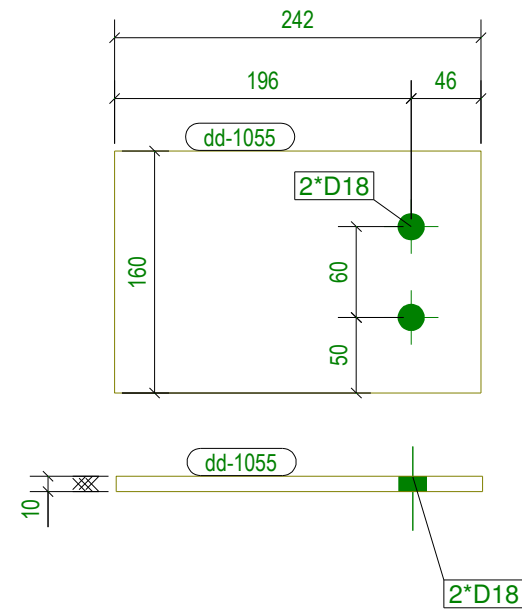


- PASTABOS:
- Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zmutine.
 - Visi plieno gaminiai turi buti nuqruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-22 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B22 | | | LAPAS 1 |
| 19978 | PDV | R. Diškevičius | | | | | | LAPU 1 |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | |



| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-23 | | VNT. | 1 | 95.00 | 95.00 | 2.42 | 2.42 |
| dd-1031 | PL15*183, L = 272 mm, S355JR | | VNT. | 1 | 3.54 | 3.54 | 0.071 | 0.071 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 1 | 0.91 | 0.91 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.79 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 95 | - | - | 2.42 |

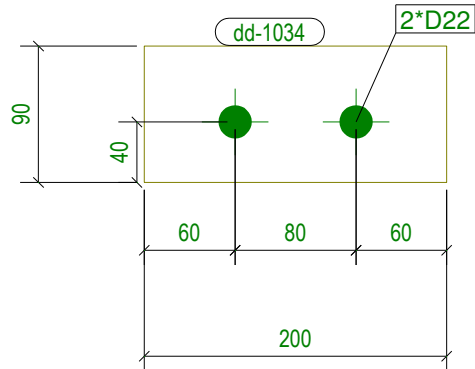
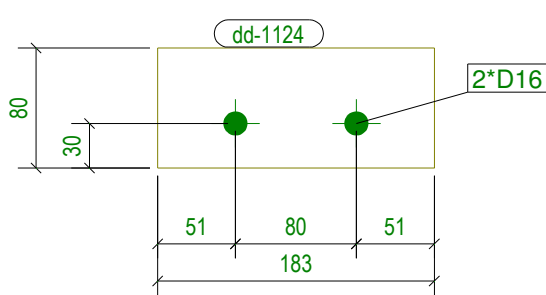
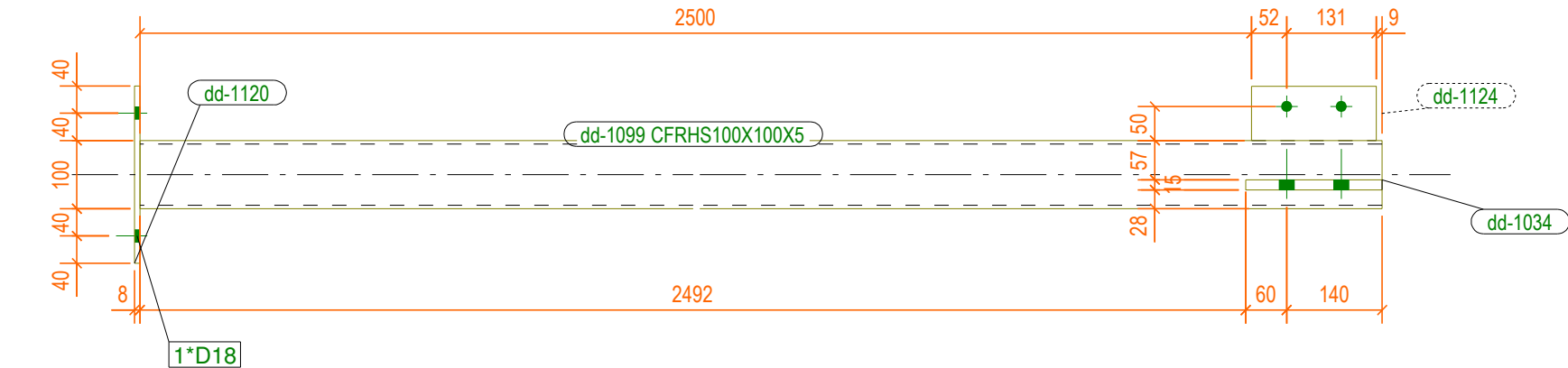
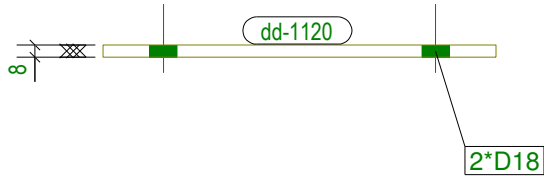
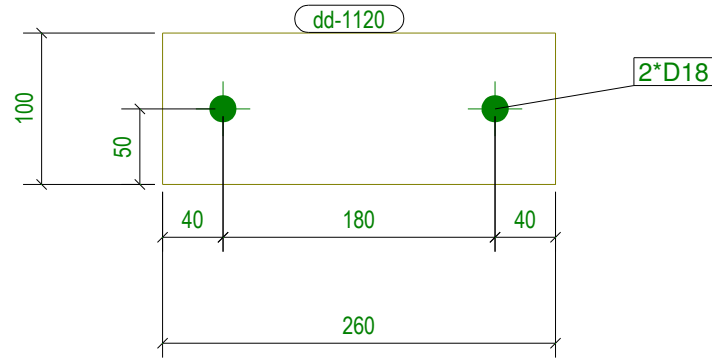
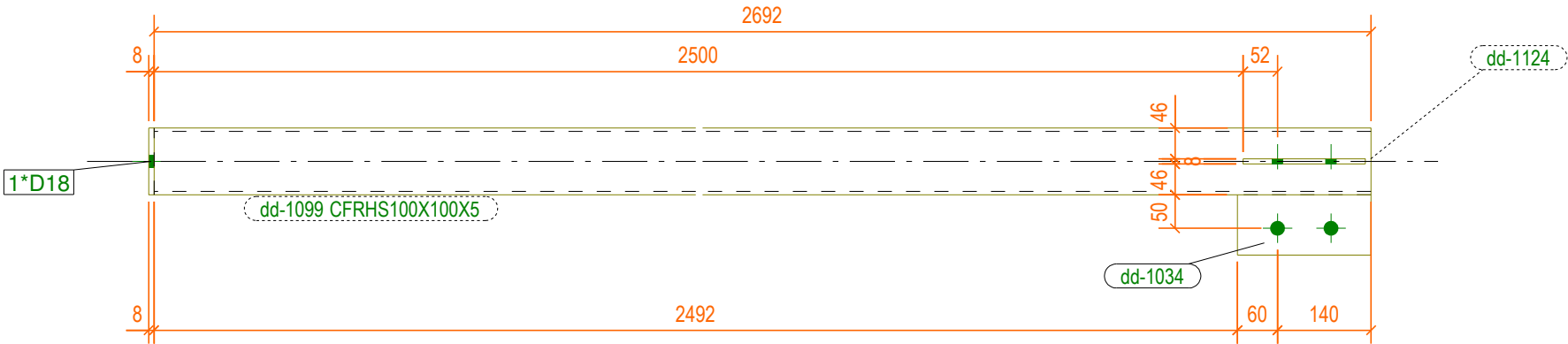


PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
- Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

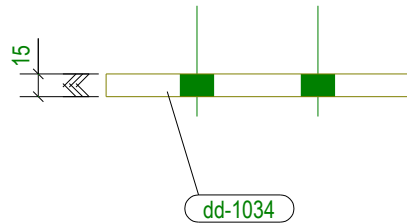
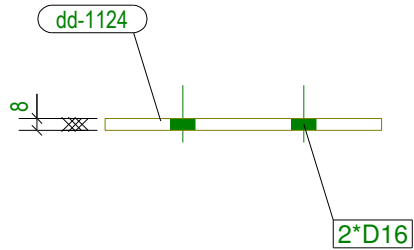
| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-23 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B23 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-24 | | VNT. | 1 | 44.00 | 44.00 | 1.17 | 1.17 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1099 | CFRHS100X100X5, L = 2691 mm, S355JR | | VNT. | 1 | 38.79 | 38.79 | 1.030 | 1.030 |
| dd-1120 | PL8*100, L = 260 mm, S355JR | | VNT. | 1 | 1.63 | 1.63 | 0.058 | 0.058 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 1 | 0.91 | 0.91 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.30 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 44 | - | - | 1.17 |

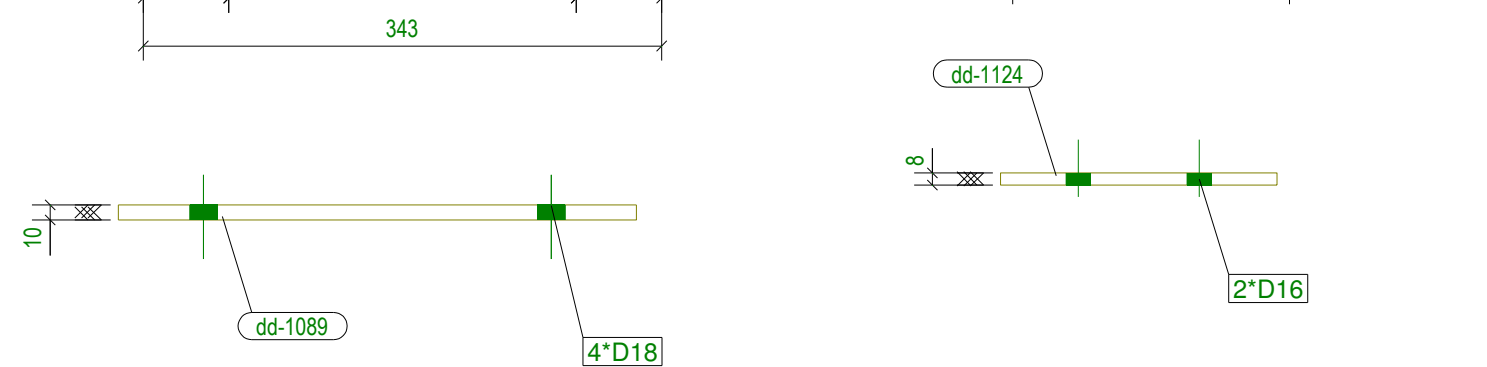
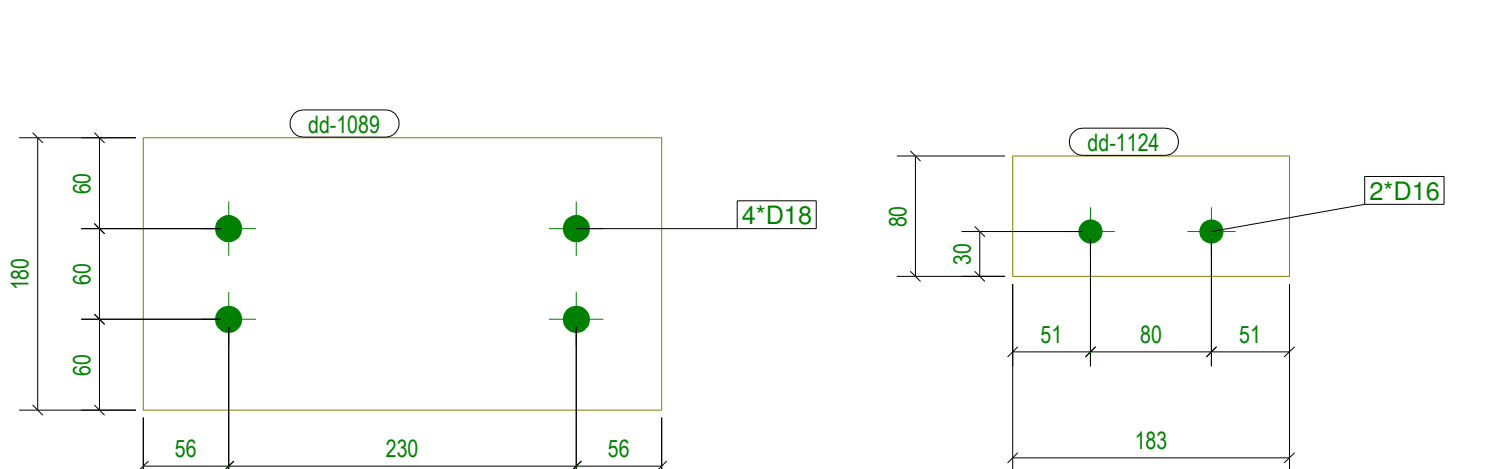
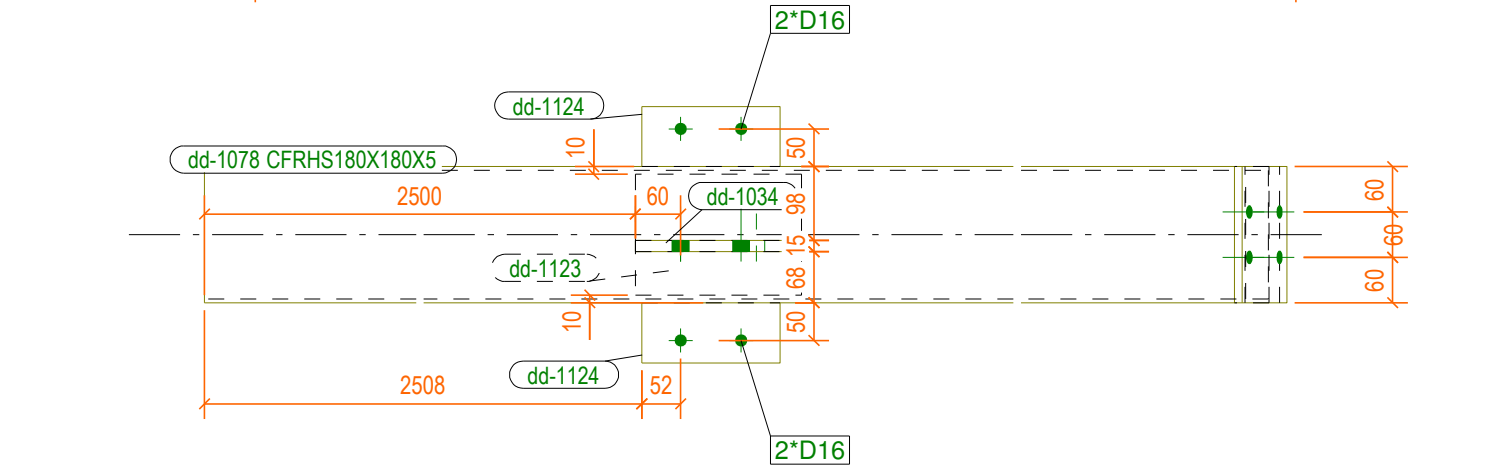
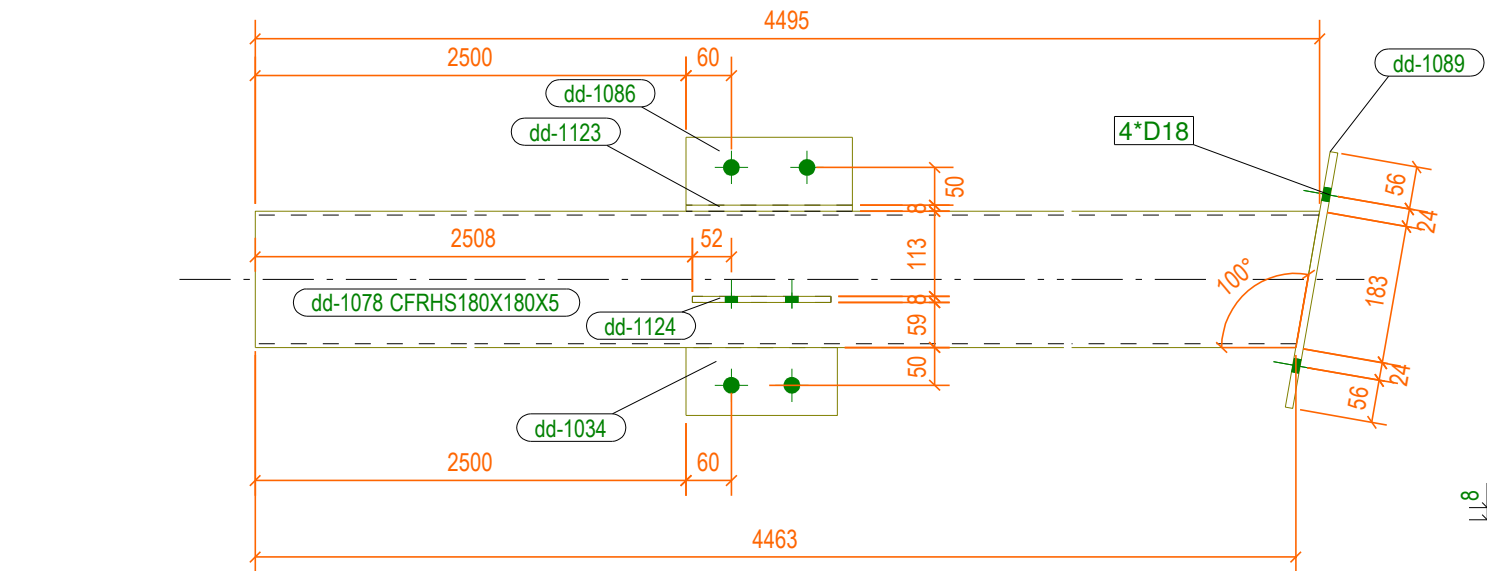


PASTABOS:

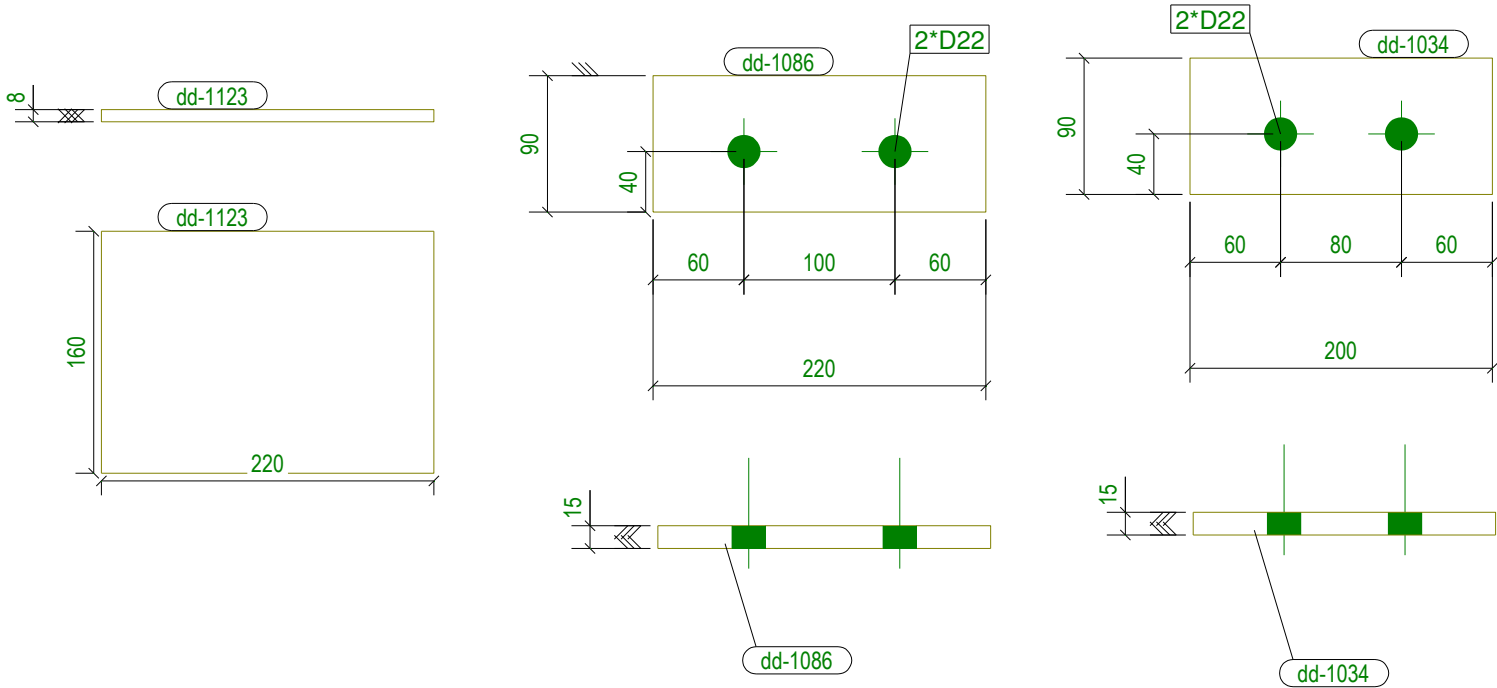
- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.



| | | | | | | | | |
|-----------------|--------------|-----------------------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-24 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B24 | | | LAPAS 1 |
| 19978 | PDV | R. Diškevičius | | | | | | LAPU 1 |
| Stadija: DP | | Statytojas: UAB Merkadas | | | | | | |

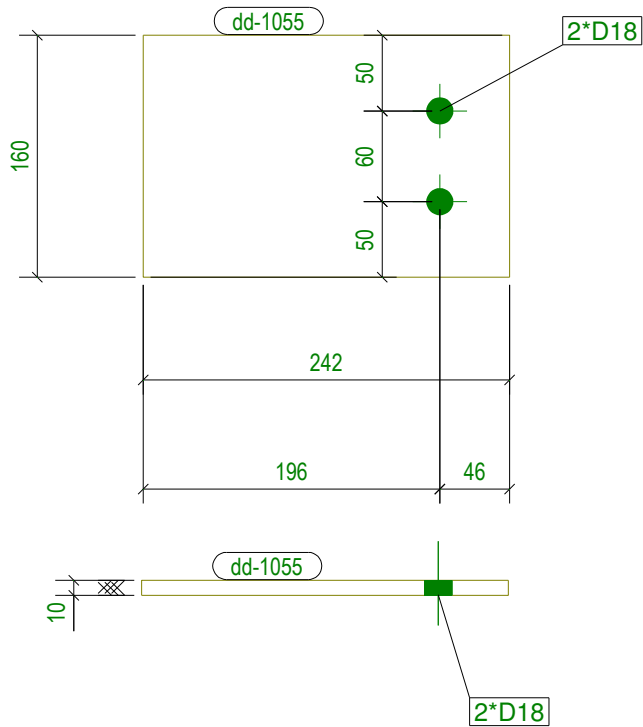
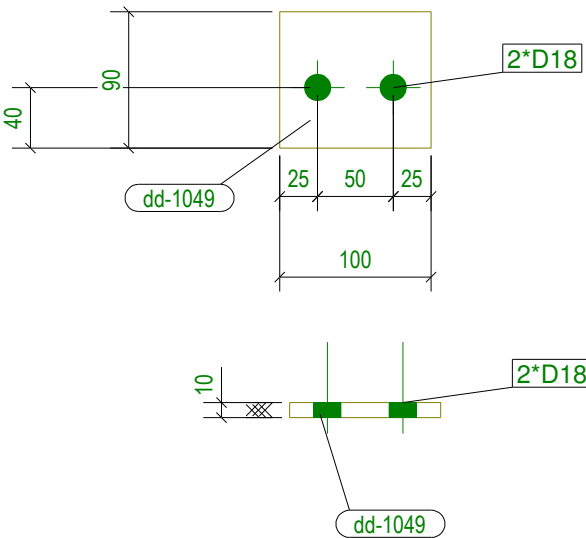
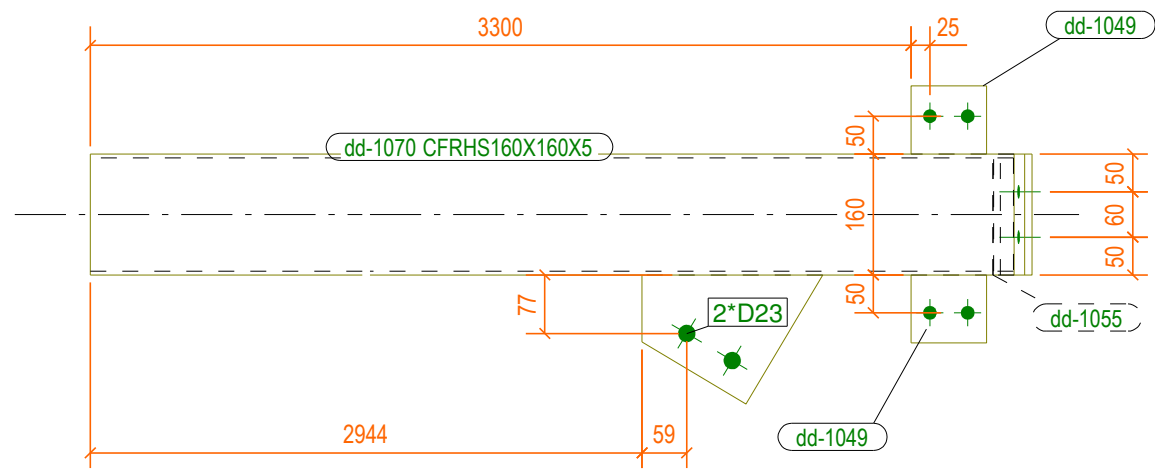
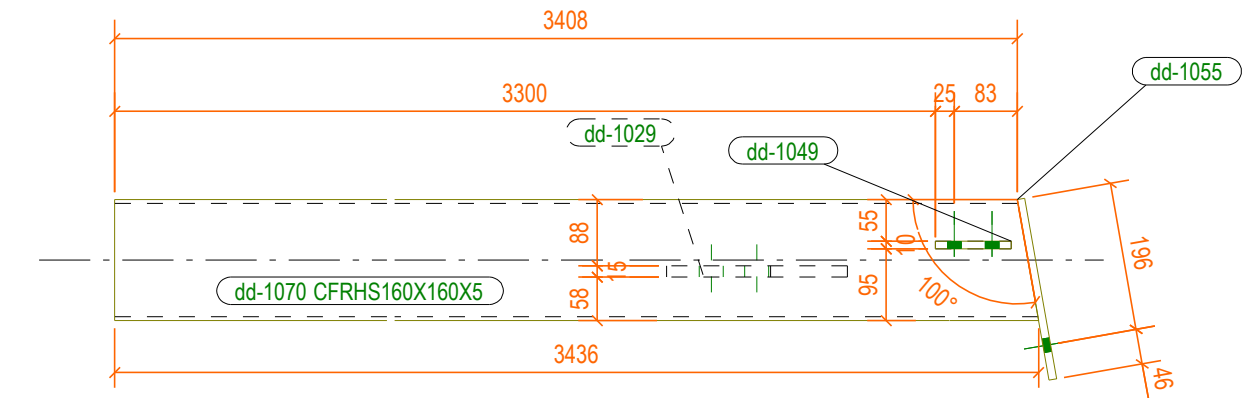


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-25 | | VNT. | 1 | 138.00 | 138.00 | 3.53 | 3.53 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1078 | CFRHS180X180X5, L = 4495 mm, S355JR | | VNT. | 1 | 121.23 | 121.23 | 3.159 | 3.159 |
| dd-1086 | PL15*90, L = 220 mm, S355JR | | VNT. | 1 | 2.33 | 2.33 | 0.049 | 0.049 |
| dd-1089 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1123 | PL8*160, L = 220 mm, S355JR | | VNT. | 1 | 2.21 | 2.21 | 0.076 | 0.076 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 2 | 0.91 | 1.83 | 0.033 | 0.067 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | 4.04 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 138 | - | - | 3.53 |

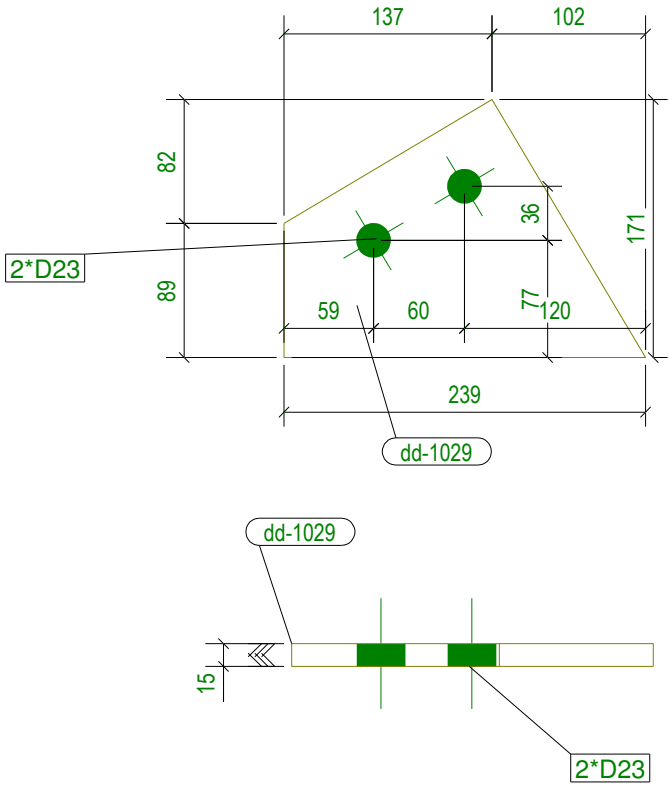


- PASTABOS:
1. Profilių plienas S355JR uvrinimo reikalavimai:
 - suvrinimas pusiau automatiniu būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fww, u ne mažiau kaip 500N/ mm2;
 - suvrinimo padėtis žemutinė.
 2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparumą .
 4. Jei nenurodyta kitaip, suvrinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvrinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-25 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B25 | | | LAPU |
| | | | | | | | 1 | 1 |



| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-26 | | VNT. | 1 | 92.00 | 92.00 | 2.33 | 2.33 |
| dd-1029 | PL15*171, L = 239 mm, S355JR | | VNT. | 1 | 3.12 | 3.12 | 0.063 | 0.063 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.68 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 92 | - | - | 2.33 |

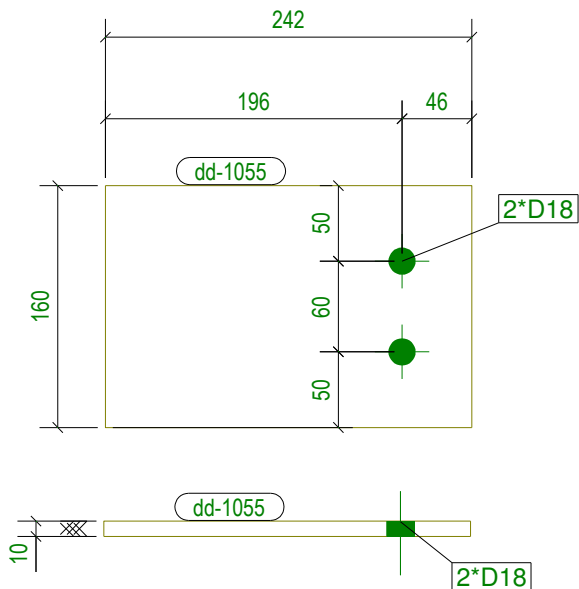
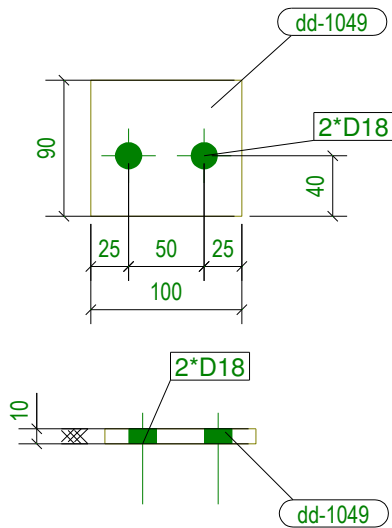
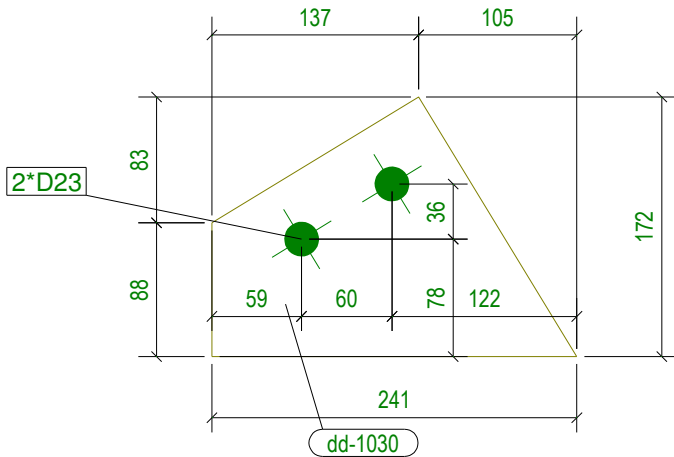
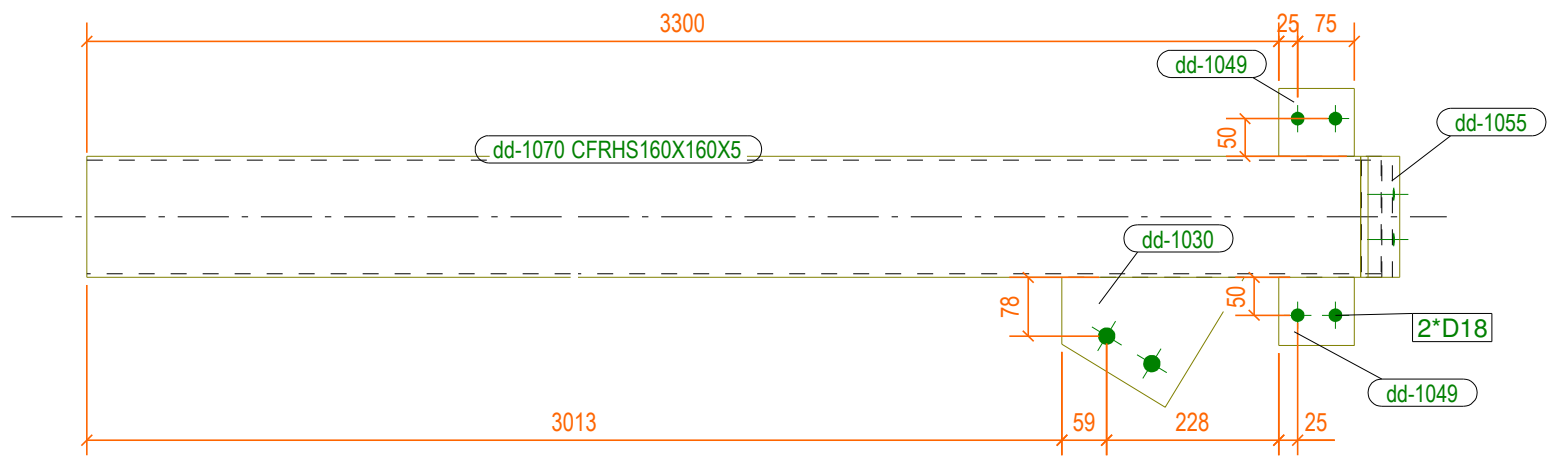
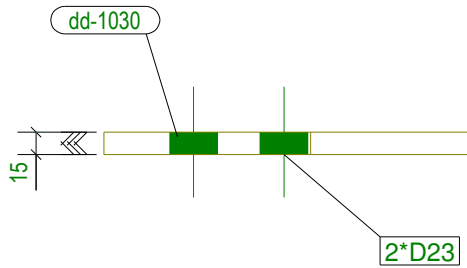
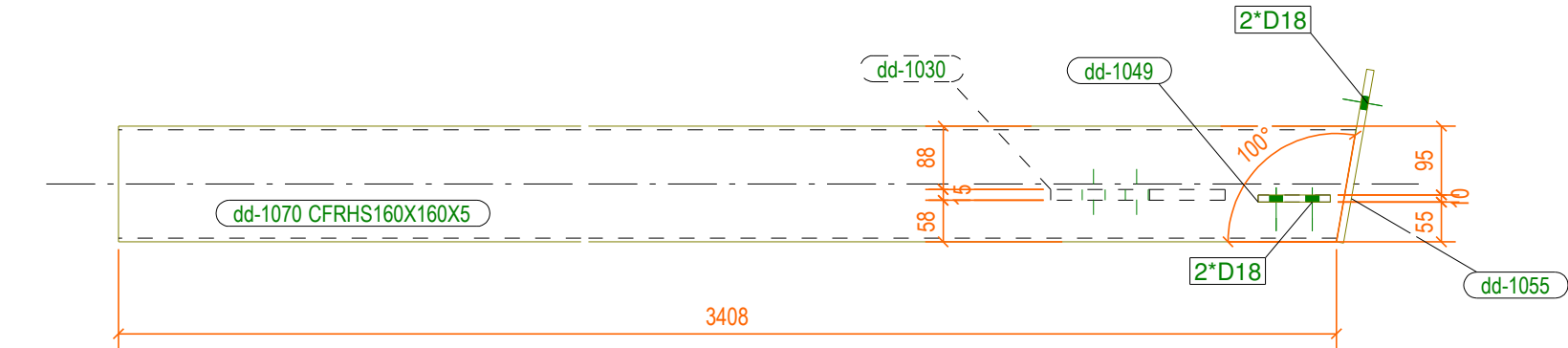


PASTABOS:

- Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw n w maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

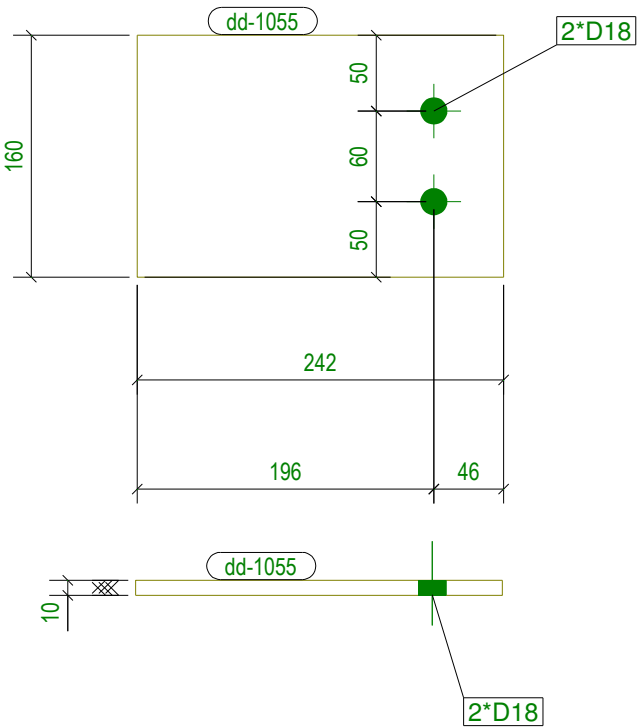
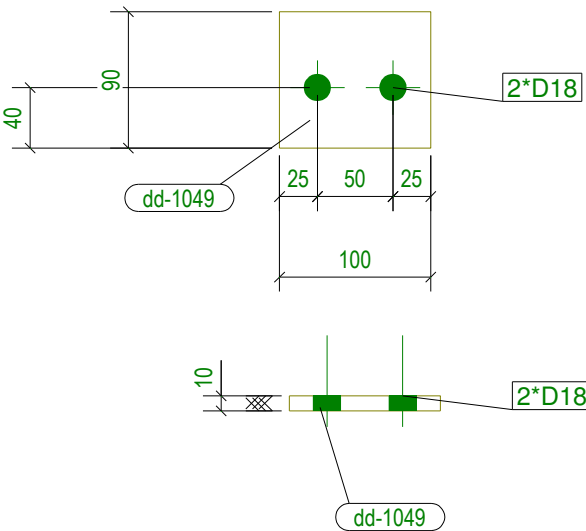
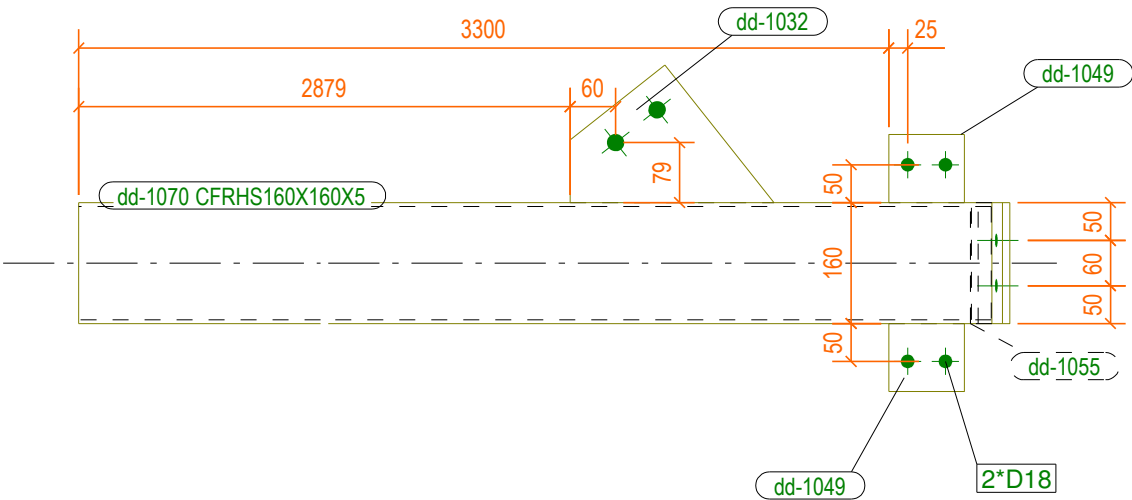
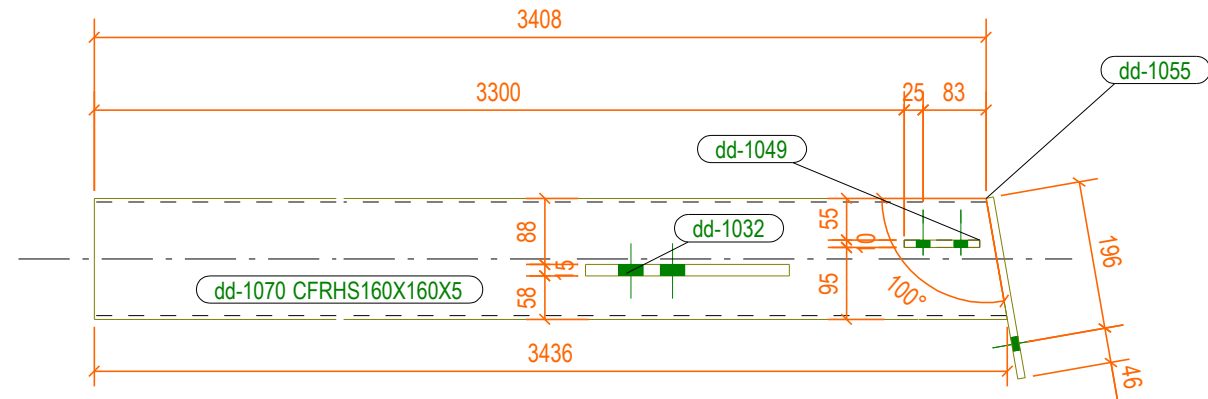
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-26 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B26 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Į, kg | | DAŽYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-27 | | VNT. | 1 | 92.00 | 92.00 | 2.33 | 2.33 |
| dd-1030 | PL15*172, L = 241 mm, S355JR | | VNT. | 1 | 3.15 | 3.15 | 0.064 | 0.064 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 2.68 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 92 | - | 2.33 |

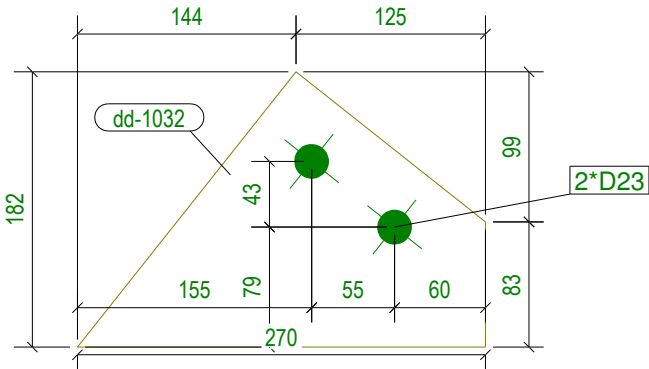
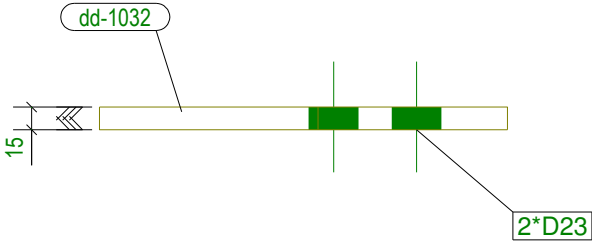


- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-27 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B27 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

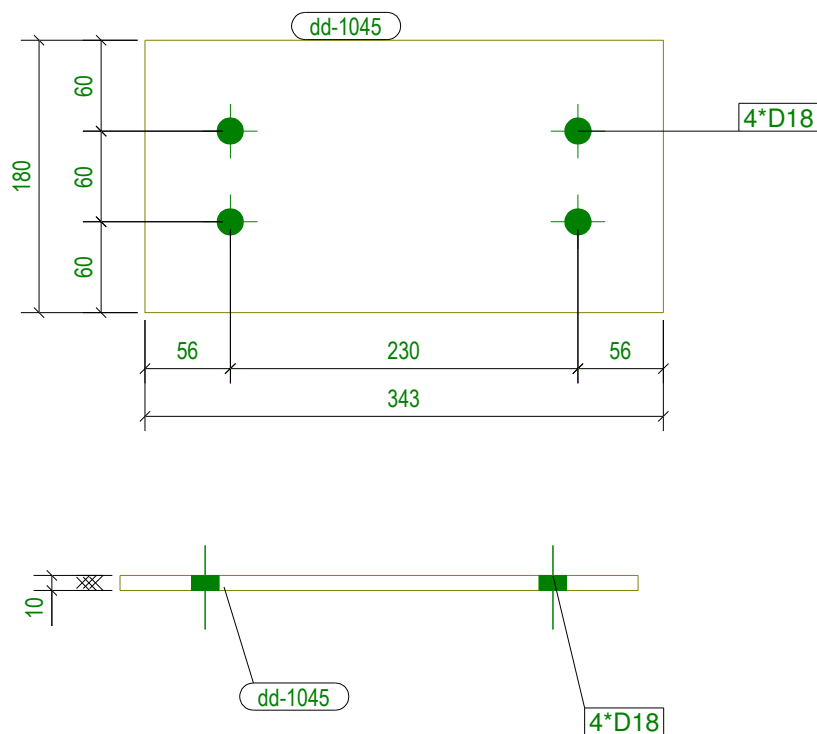
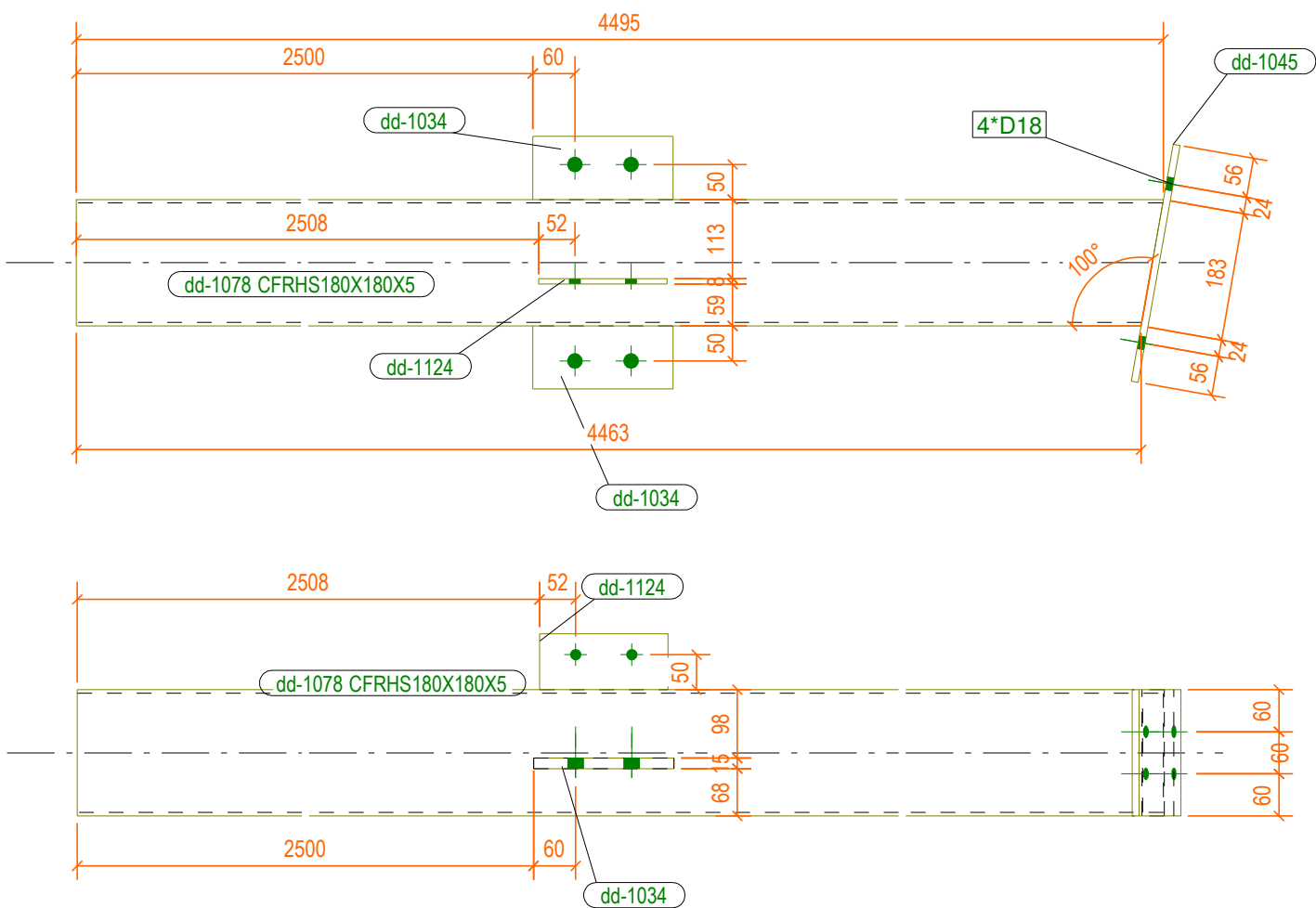


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-28 | | VNT. | 1 | 92.00 | 92.00 | 2.34 | 2.34 |
| dd-1032 | PL15*182, L = 269 mm, S355JR | | VNT. | 1 | 3.50 | 3.50 | 0.071 | 0.071 |
| dd-1049 | PL10*90, L = 100 mm, S355JR | | VNT. | 2 | 0.71 | 1.41 | 0.022 | 0.044 |
| dd-1055 | PL10*160, L = 242 mm, S355JR | | VNT. | 1 | 3.05 | 3.05 | 0.086 | 0.086 |
| dd-1070 | CFRHS160X160X5, L = 3436 mm, S355JR | | VNT. | 1 | 81.89 | 81.89 | 2.140 | 2.140 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 2.70 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 92 | - | - | 2.34 |

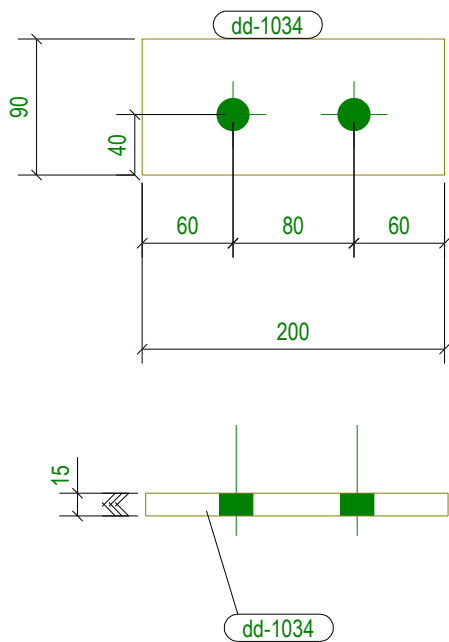
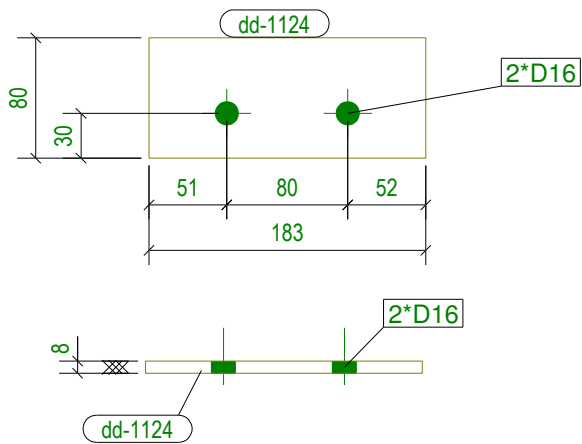


- PASTABOS:
- Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Kolona K-28 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B28 | | | LAPU |
| | | | | | | | 1 | 1 |

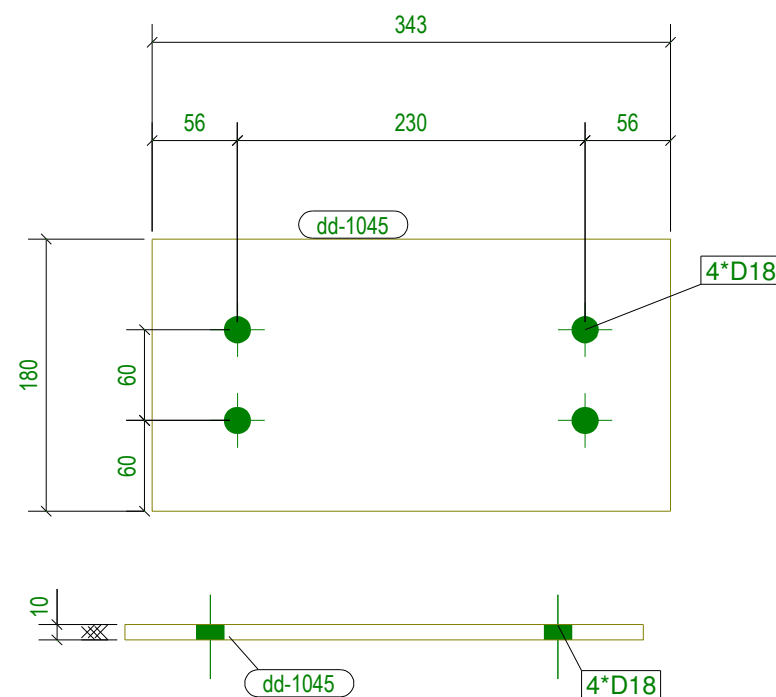


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-29 | | VNT. | 1 | 135.00 | 135.00 | 3.42 | 3.42 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 2 | 2.12 | 4.24 | 0.045 | 0.089 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1078 | CFRHS180X180X5, L = 4495 mm, S355JR | | VNT. | 1 | 121.23 | 121.23 | 3.159 | 3.159 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 1 | 0.91 | 0.91 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 3.94 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 135 | - | - | 3.42 |

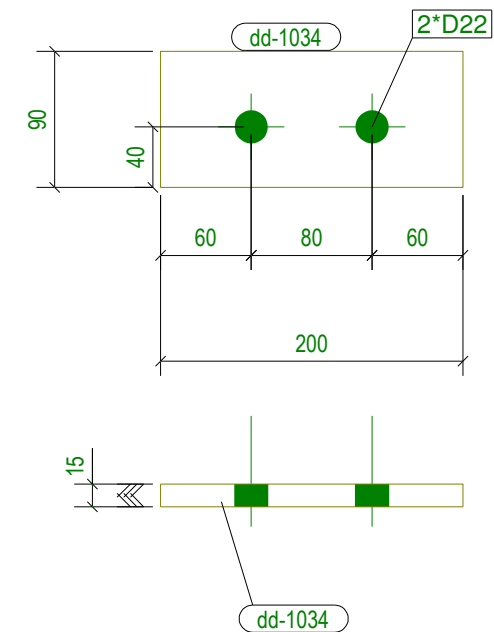


- PASTABOS:
- Profilų plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w n_w mažiau kaip 1,4 mm;
 - vielos stipris f_{wv} , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamų elementų storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-29 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B29 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |



| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Į, kg | | DAUŽYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-30 | | VNT. | 1 | 150.00 | 150.00 | 3.81 | 3.81 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1045 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| dd-1079 | CFRHS180X180X5, L = 5164 mm, S355JR | | VNT. | 1 | 139.28 | 139.28 | 3.630 | 3.630 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 4.39 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 150 | - | 3.81 |

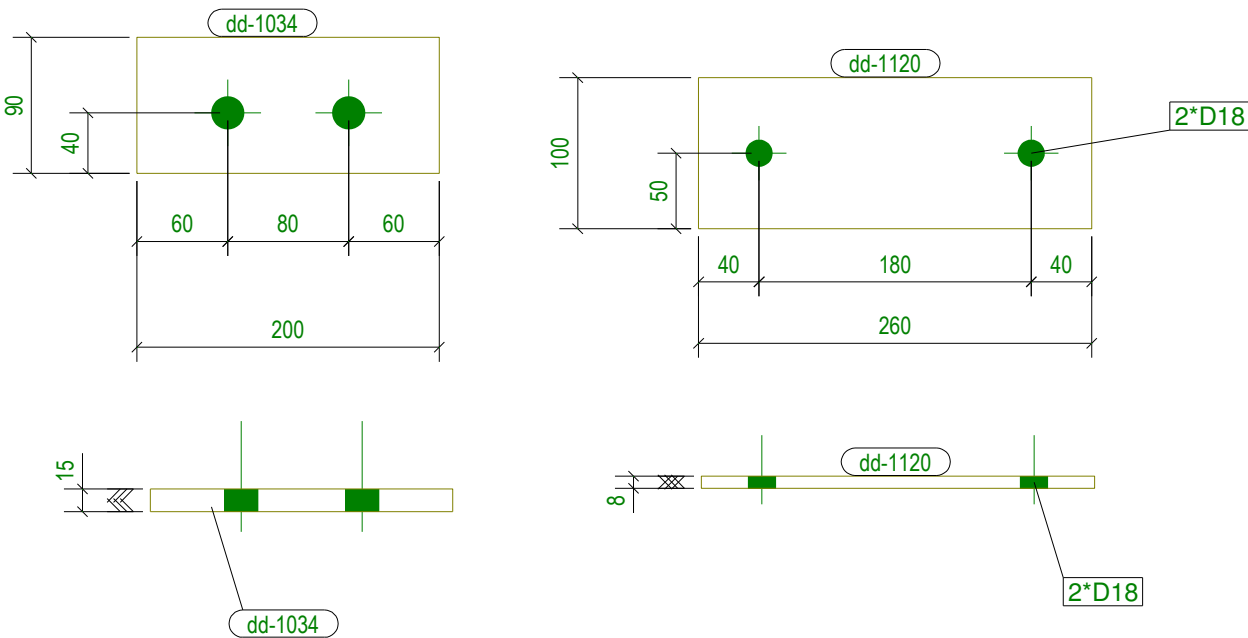
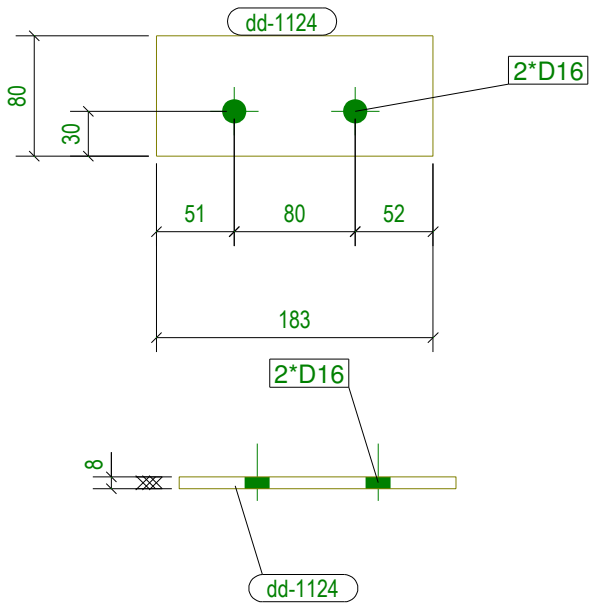
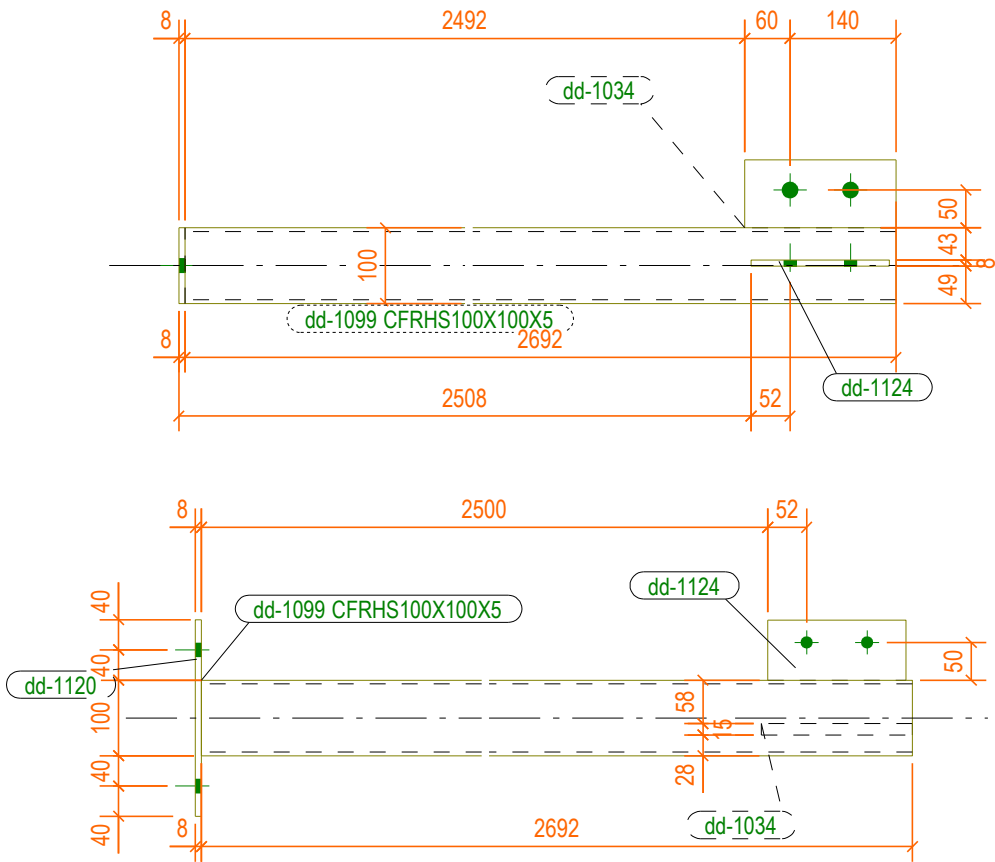


PASTABOS:

1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Kolona K-30 | | LAIDA |
| | | | | | | | |
| | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B30 | | LAPAS 1 |
| | | | | | | | LAPU 1 |

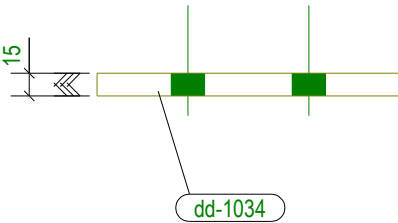
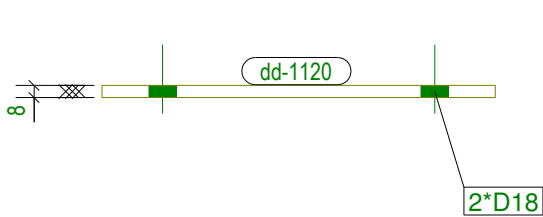
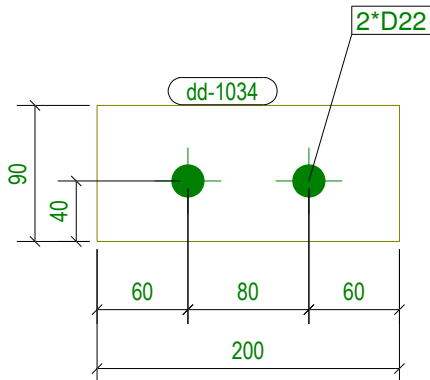
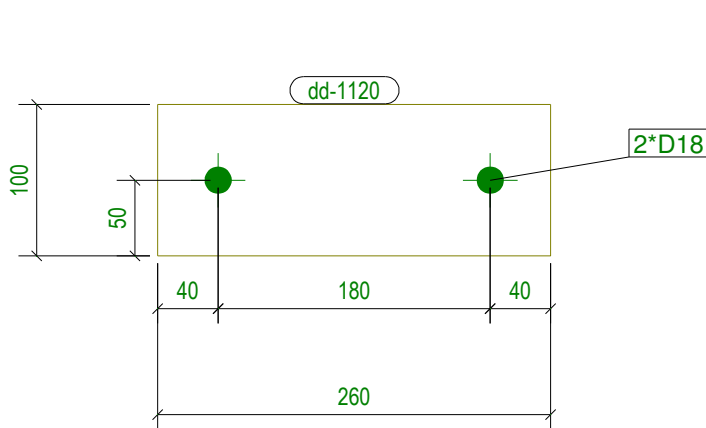
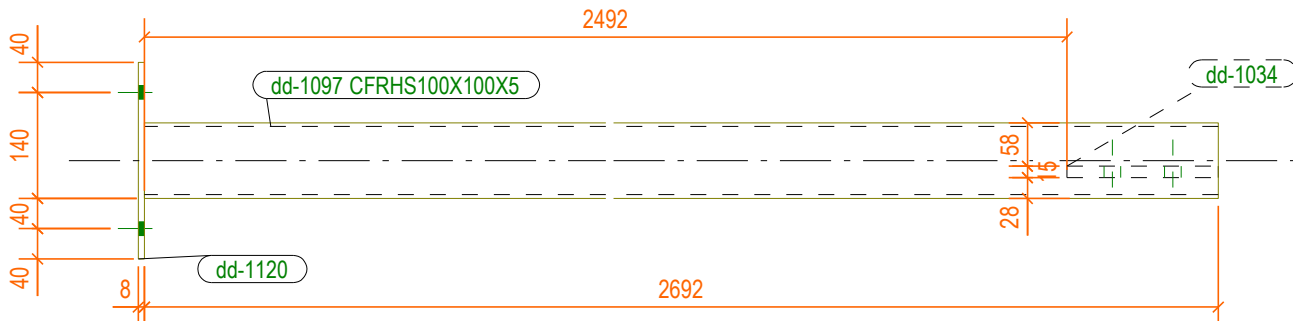
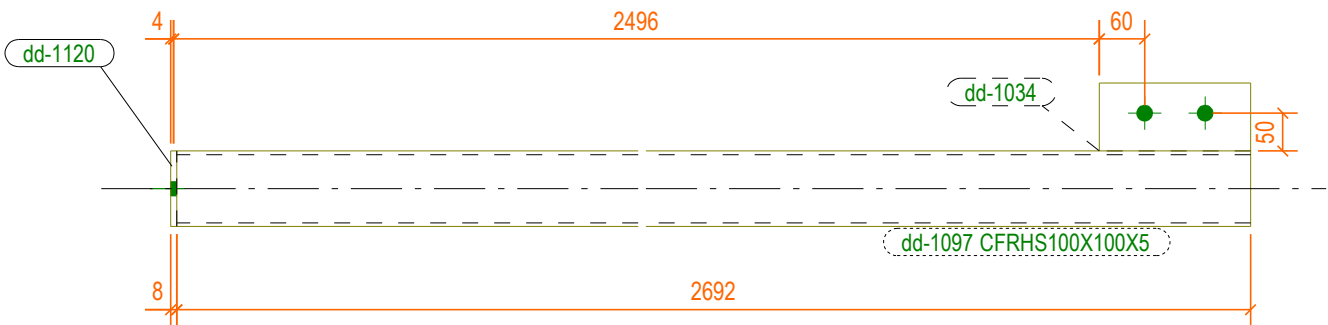
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS,m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-31 | | VNT. | 1 | 44.00 | 44.00 | 1.17 | 1.17 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1099 | CFRHS100X100X5, L = 2691 mm, S355JR | | VNT. | 1 | 38.79 | 38.79 | 1.030 | 1.030 |
| dd-1120 | PL8*100, L = 260 mm, S355JR | | VNT. | 1 | 1.63 | 1.63 | 0.058 | 0.058 |
| dd-1124 | PL8*80, L = 183 mm, S355JR | | VNT. | 1 | 0.91 | 0.91 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.30 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 44 | - | - | 1.17 |



PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zmutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

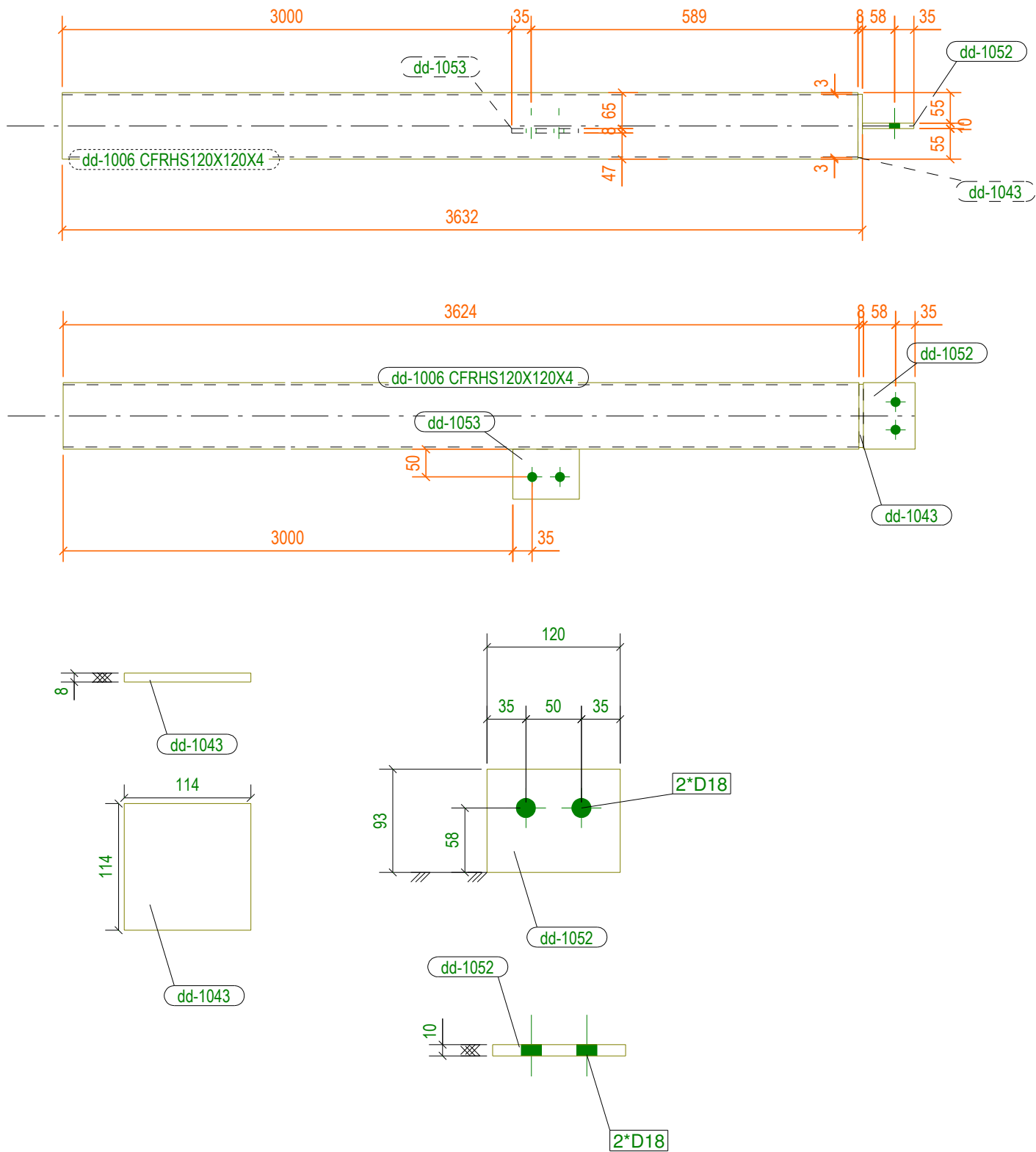
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-31 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B31 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |



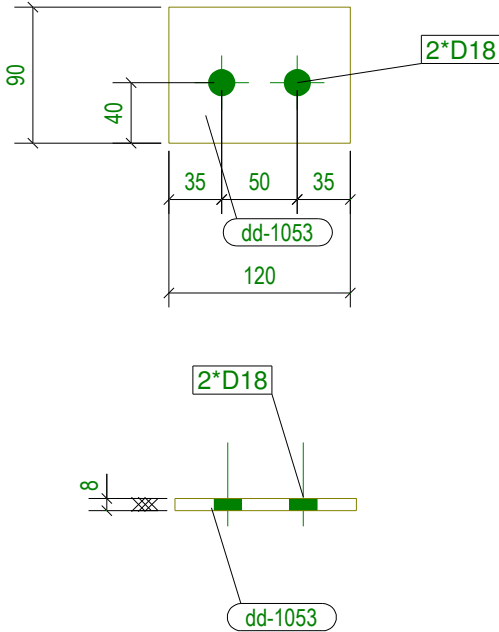
- PASTABOS:
1. Profiliu plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zmutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/I, kg | | DAIUYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-32 | | VNT. | 1 | 43.00 | 43.00 | 1.13 | 1.13 |
| dd-1034 | PL15*90, L = 200 mm, S355JR | | VNT. | 1 | 2.12 | 2.12 | 0.045 | 0.045 |
| dd-1097 | CFRHS100X100X5, L = 2691 mm, S355JR | | VNT. | 1 | 38.79 | 38.79 | 1.030 | 1.030 |
| dd-1120 | PL8*100, L = 260 mm, S355JR | | VNT. | 1 | 1.63 | 1.63 | 0.058 | 0.058 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.28 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 43 | - | - | 1.13 |

| | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|------------|-----------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| | | | | | Brezinio pavadinimas: | | | LAIDA | |
| | | | | | Kolona K-32 | | | | |
| 19978 | PDV | R. Diškevičius | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | Brezinio numeris: 2020-03/2-DP-SK -B32 | | | LAPAS 1 | LAPU 1 |

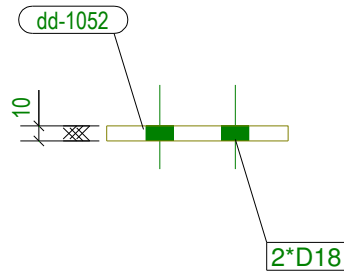
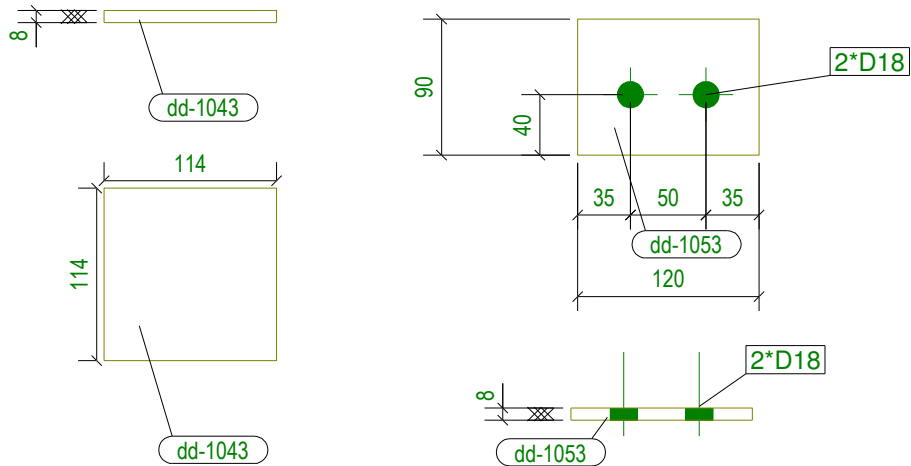
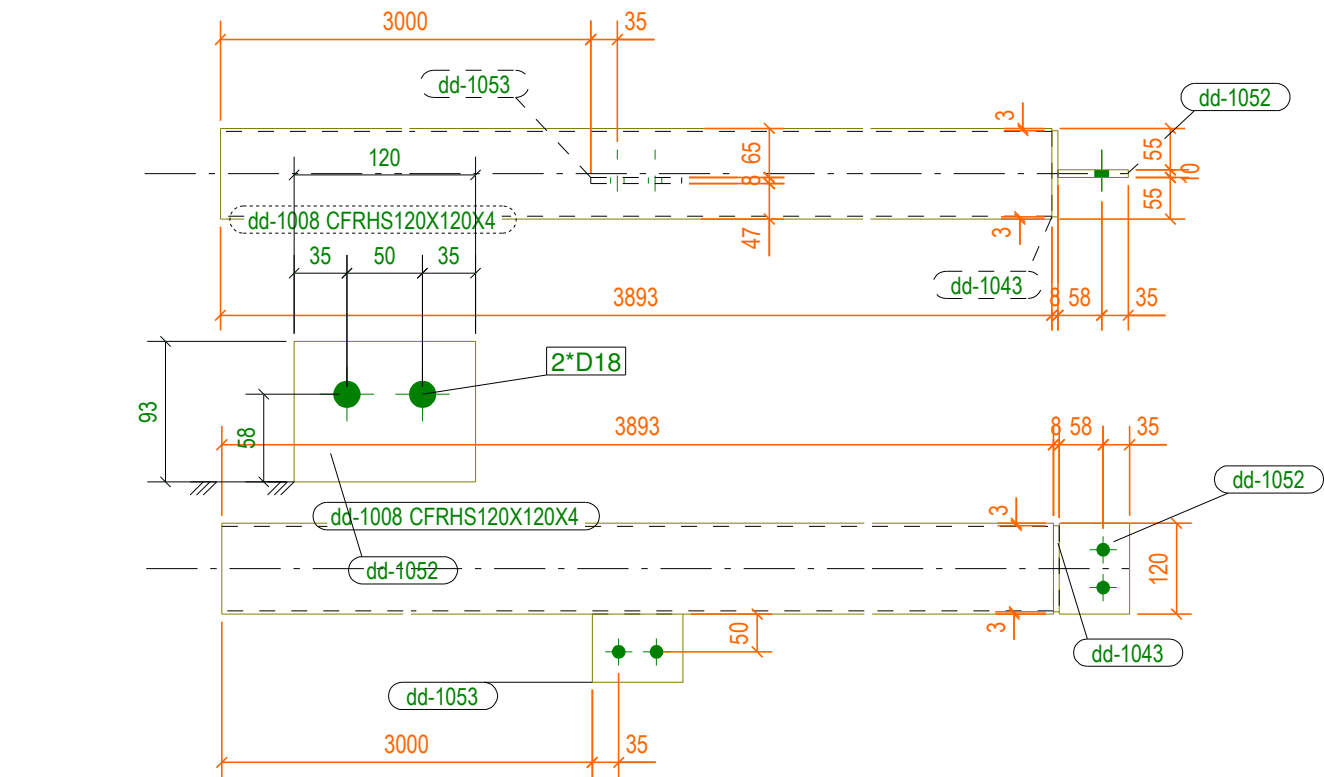


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-33 | | VNT. | 1 | 55.00 | 55.00 | 1.77 | 1.77 |
| dd-1006 | CFRHS120X120X4, L = 3623 mm, S355JR | | VNT. | 1 | 51.63 | 51.63 | 1.690 | 1.690 |
| dd-1043 | PL8*114, L = 114 mm, S355JR | | VNT. | 1 | 0.82 | 0.82 | 0.030 | 0.030 |
| dd-1052 | PL10*92.95, L = 120 mm, S355JR | | VNT. | 1 | 0.88 | 0.88 | 0.027 | 0.027 |
| dd-1053 | PL8*90, L = 120 mm, S355JR | | VNT. | 1 | 0.68 | 0.68 | 0.025 | 0.025 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.62 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 55 | - | - | 1.77 |



- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|---|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Kolona K-33 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B33 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

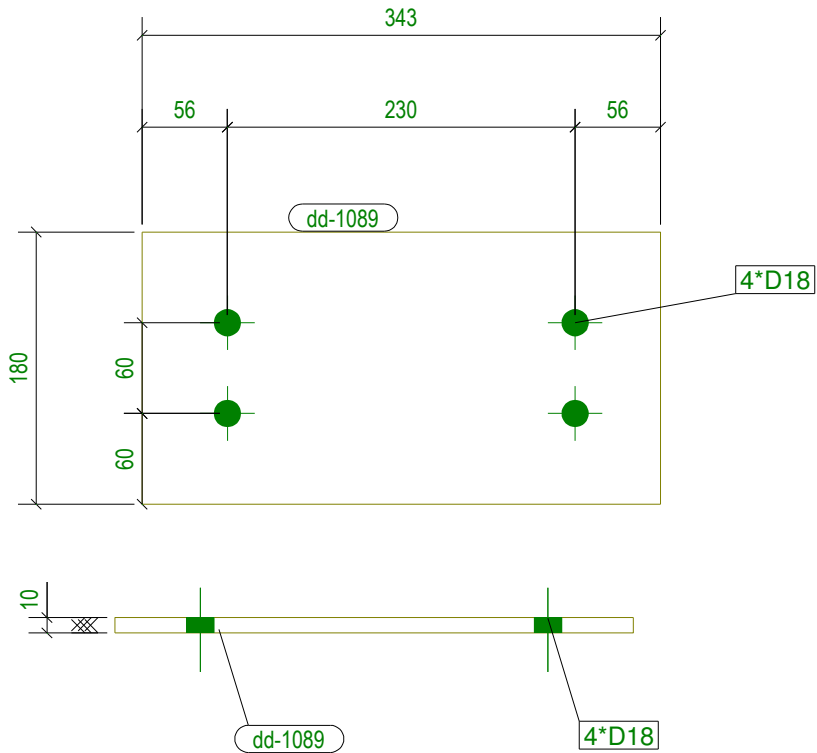
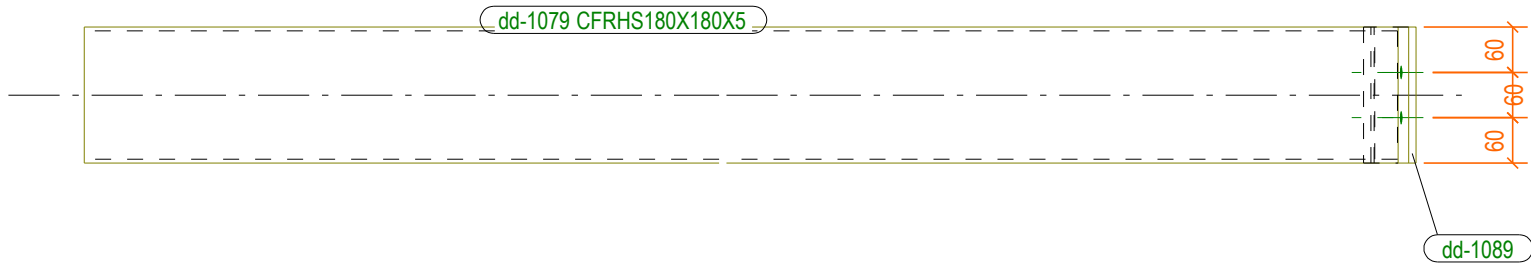
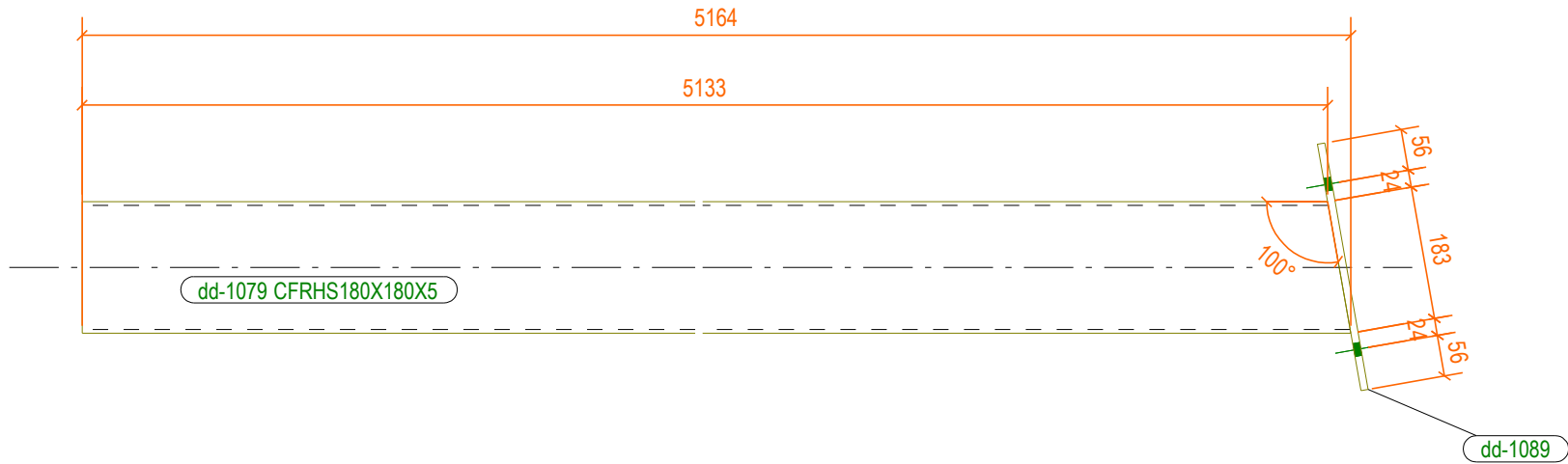


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-36 | | VNT. | 1 | 59.00 | 59.00 | 1.90 | 1.90 |
| dd-1008 | CFRHS120X120X4, L = 3893 mm, S355JR | | VNT. | 1 | 55.46 | 55.46 | 1.815 | 1.815 |
| dd-1043 | PL8*114, L = 114 mm, S355JR | | VNT. | 1 | 0.82 | 0.82 | 0.030 | 0.030 |
| dd-1052 | PL10*92.95, L = 120 mm, S355JR | | VNT. | 1 | 0.88 | 0.88 | 0.027 | 0.027 |
| dd-1053 | PL8*90, L = 120 mm, S355JR | | VNT. | 1 | 0.68 | 0.68 | 0.025 | 0.025 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.74 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 59 | - | - | 1.90 |

- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

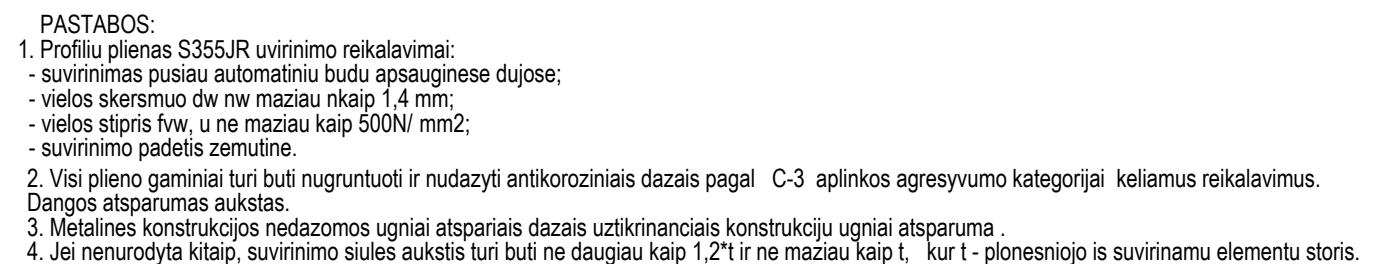
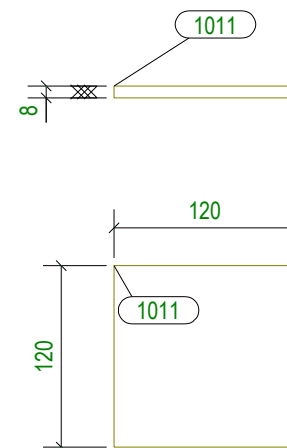
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-36 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B34 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | LAPU 1 | | | |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | K-38 | | VNT. | 1 | 148.00 | 148.00 | 3.76 | 3.76 |
| dd-1079 | CFRHS180X180X5, L = 5164 mm, S355JR | | VNT. | 1 | 139.28 | 139.28 | 3.630 | 3.630 |
| dd-1089 | PL10*180, L = 342 mm, S355JR | | VNT. | 1 | 4.84 | 4.84 | 0.134 | 0.134 |
| SUVIRINIMO SIBLIS, 3% : | | | | | | 4.32 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 148 | - | 3.76 |



- PASTABOS:
1. Profilių plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau kaip 1,4 mm;
 - vielos stipris fw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
 2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
 4. Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamų elementų storis.

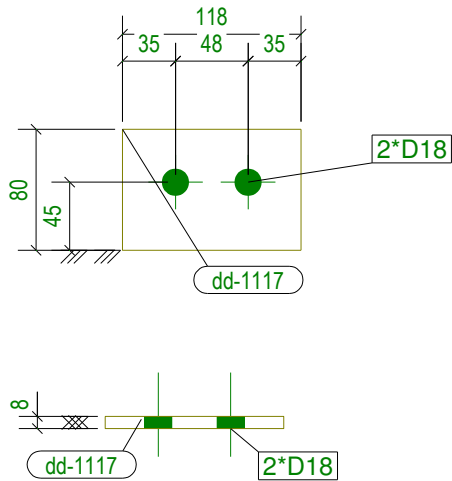
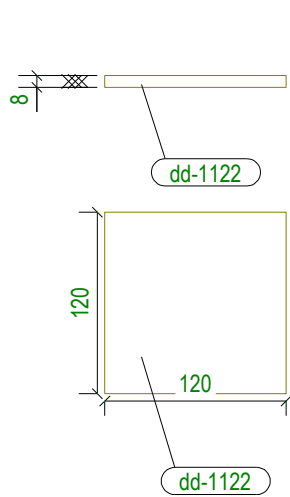
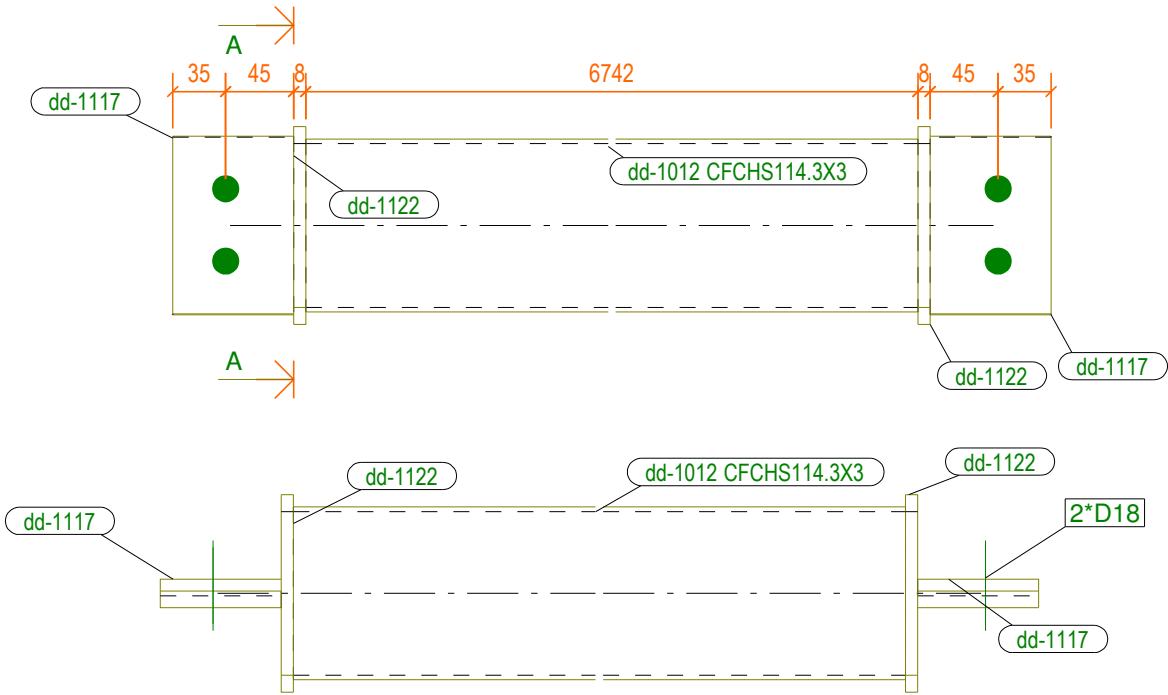
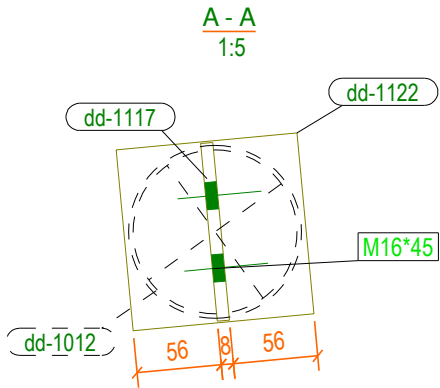
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Kolona K-38 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B36 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |



| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAUZYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-2 | | VNT. | 1 | 80.00 | 80.00 | 3.37 | 3.37 |
| 1011 | PL8*120, L = 120 mm, S235JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| 1012 | PL8*80, L = 118 mm, S235JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1003 | CFCHS127.0X3.0, L = 8174 mm, S355JR | | VNT. | 1 | 75.02 | 75.02 | 3.262 | 3.262 |
| SUVIRINIMO SIBILAS, 3% : | | | | | | 2.34 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 80 | - | 3.37 |

| | | | | | | | | | |
|-----------------|---------------------------------|----------------|--|--|---|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Rysis HR-2 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | Brezinio numeris: 2020-03/2-DP-SK -B39 | | | LAPAS 1 | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAUGYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-3 | | VNT. | 1 | 60.00 | 60.00 | 2.53 | 2.53 |
| dd-1012 | CFCHS114.3X3, L = 6742 mm, S355JR | | VNT. | 1 | 55.52 | 55.52 | 2.420 | 2.420 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIULYS, 3% : | | | | | 1.76 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 60 | - | - | 2.53 |

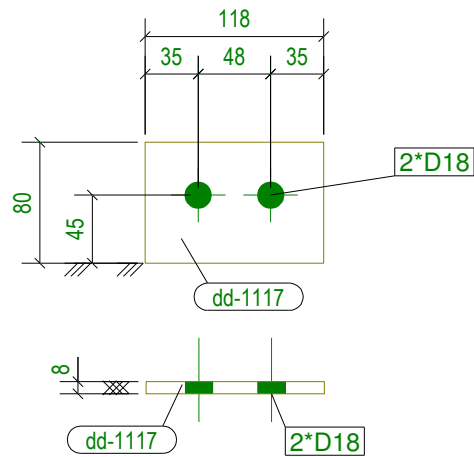
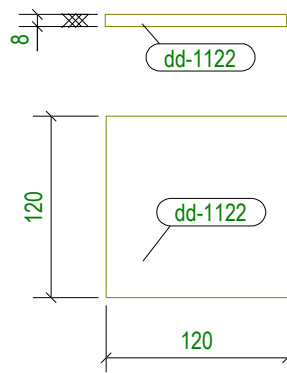
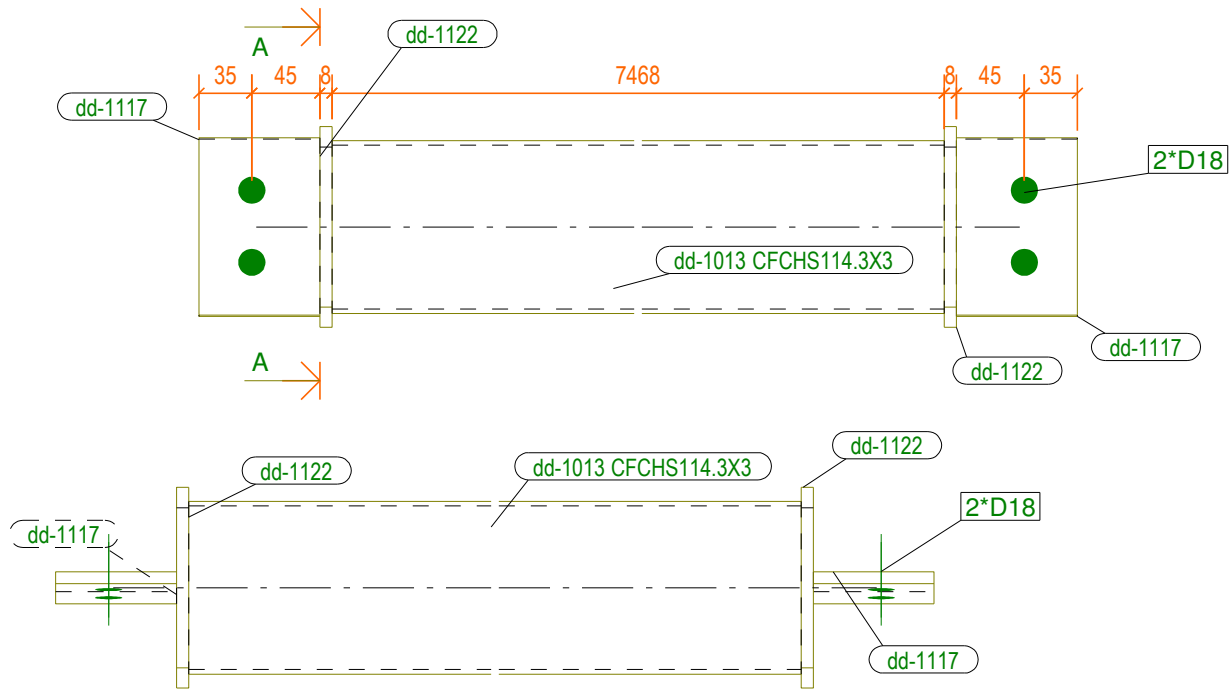
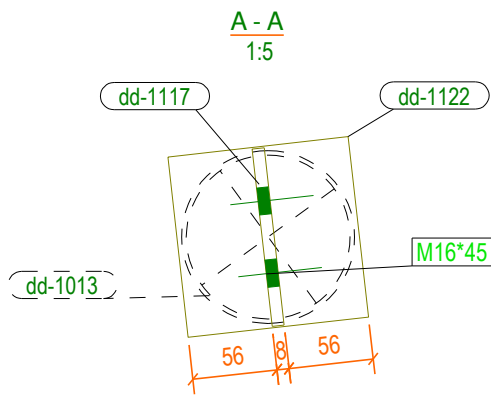


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-3 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B40 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | LAPU 1 | | | |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Į, kg | | DAIŲYMO PLOTAS, m² | |
|---------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-4 | | VNT. | 1 | 66.00 | 66.00 | 2.79 | 2.79 |
| dd-1013 | CFCHS114.3X3, L = 7467 mm, S355JR | | VNT. | 1 | 61.49 | 61.49 | 2.681 | 2.681 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBŲL/IS, 3% : | | | | | 1.93 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 66 | - | - | 2.79 |

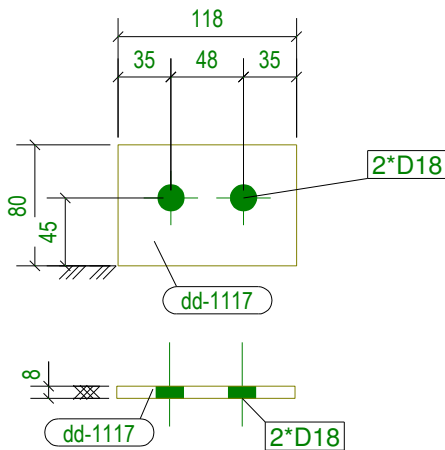
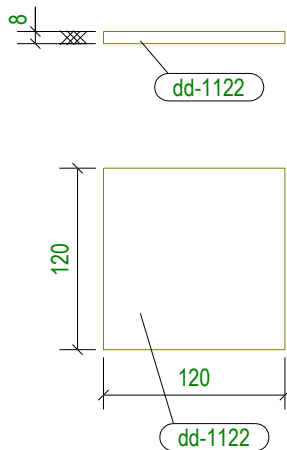
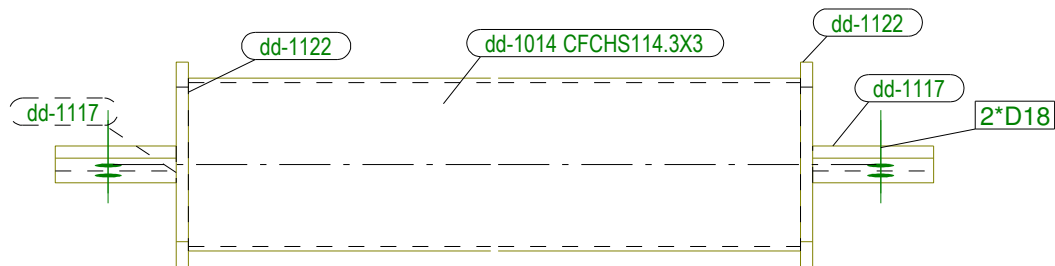
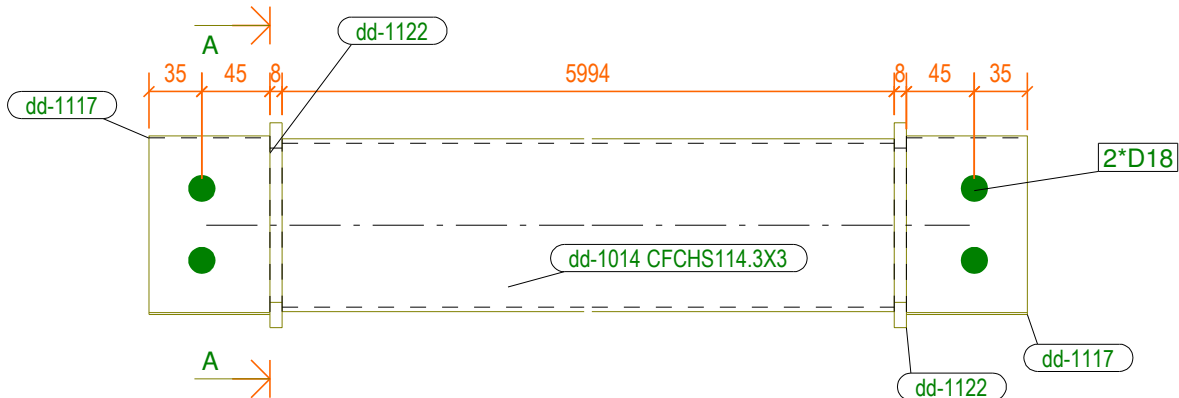
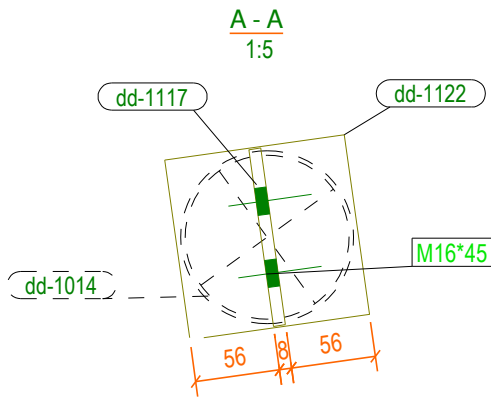


PASTABOS:

1. Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-4 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B41 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS,m² | |
|---------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-5 | | VNT. | 1 | 53.00 | 53.00 | 2.26 | 2.26 |
| dd-1014 | CFCHS114.3X3, L = 5993 mm, S355JR | | VNT. | 1 | 49.36 | 49.36 | 2.152 | 2.152 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBĲL/IS, 3% : | | | | | 1.57 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 53 | - | - | 2.26 |

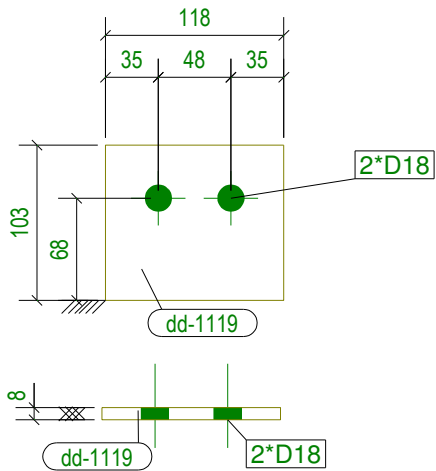
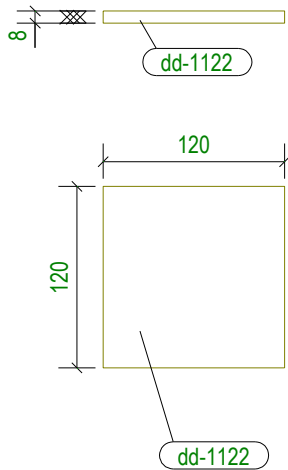
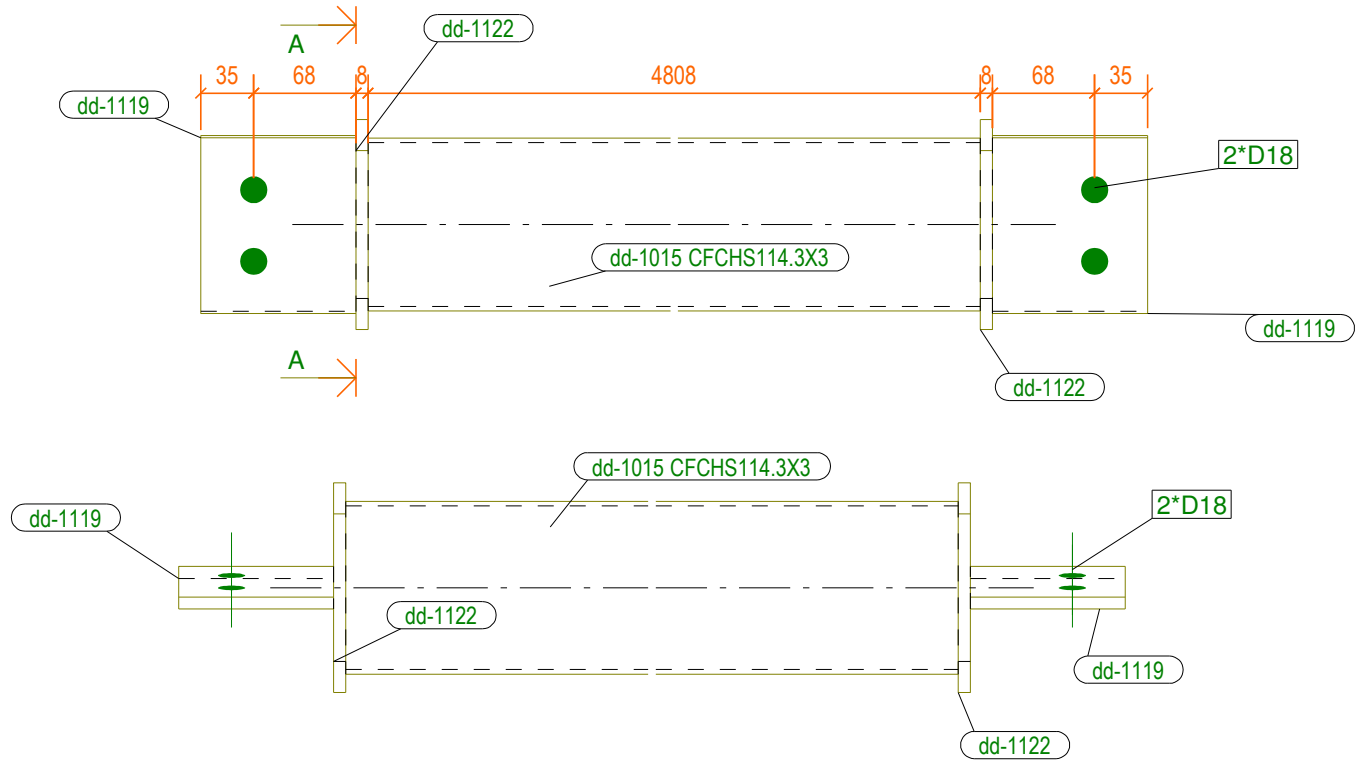
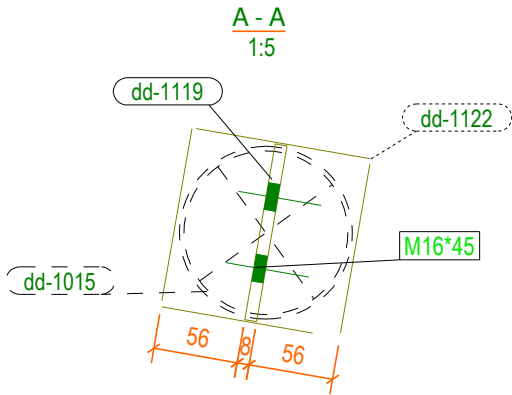


PASTABOS:

- Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-5 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B42 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Į, kg | | DAIŲYMO PLOTAS,m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-6 | | VNT. | 1 | 44.00 | 44.00 | 1.85 | 1.85 |
| dd-1015 | CFCHS114.3X3, L = 4808 mm, S355JR | | VNT. | 1 | 39.59 | 39.59 | 1.726 | 1.726 |
| dd-1119 | PL8*102.61, L = 118 mm, S355JR | | VNT. | 2 | 0.76 | 1.52 | 0.028 | 0.055 |
| dd-1122 | PL8*120, L = 120 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.29 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 44 | - | - | 1.85 |

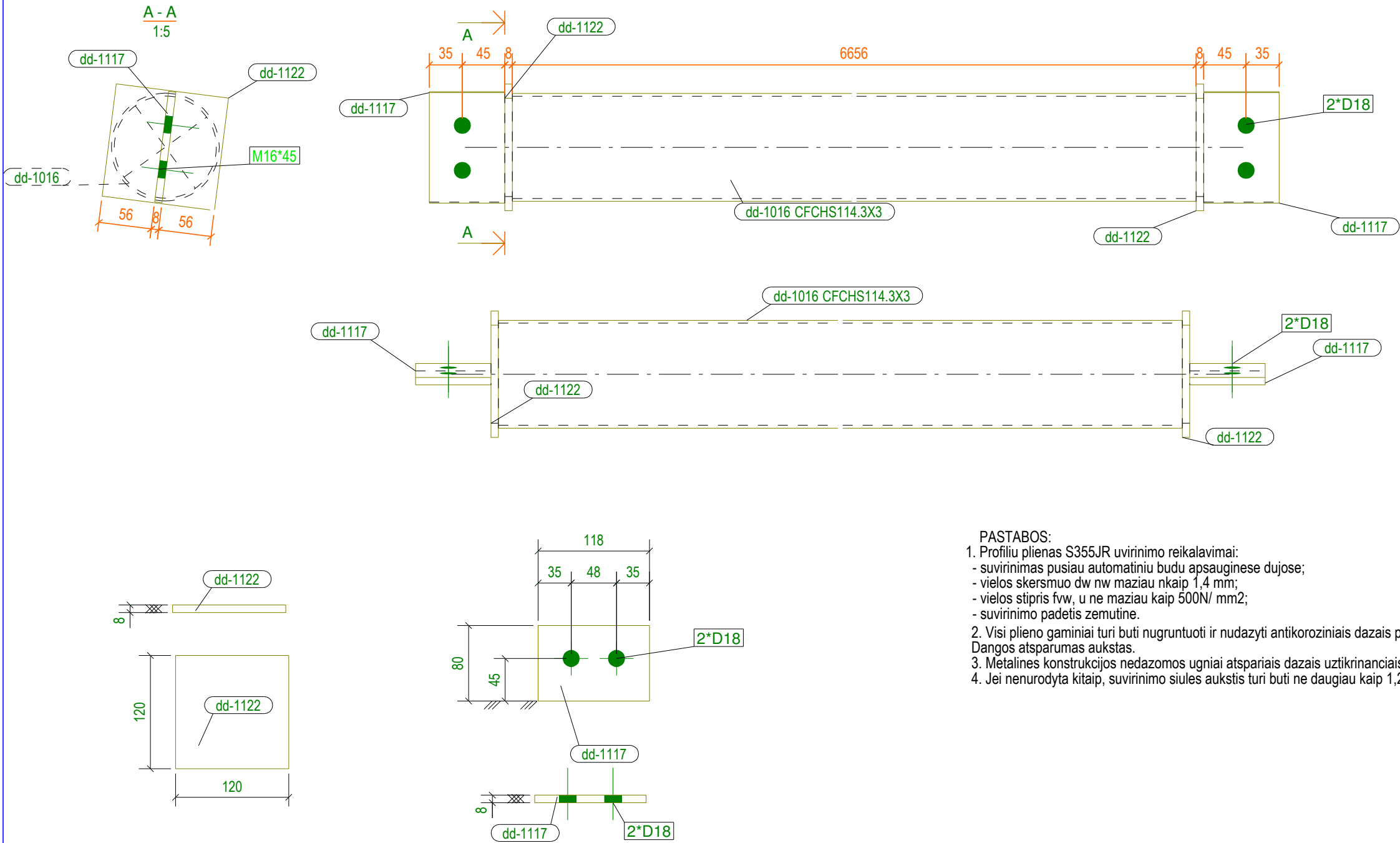


PASTABOS:

- Profilų plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu būdu apsauginėse dujose;
 - vielos skersmuo dw nw mažiau nkaip 1,4 mm;
 - vielos stipris fvw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutine.
- Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalinės konstrukcijos nedazomos ugniai atspariais dažais uztikrinanciais konstrukcijų ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-6 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B43 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

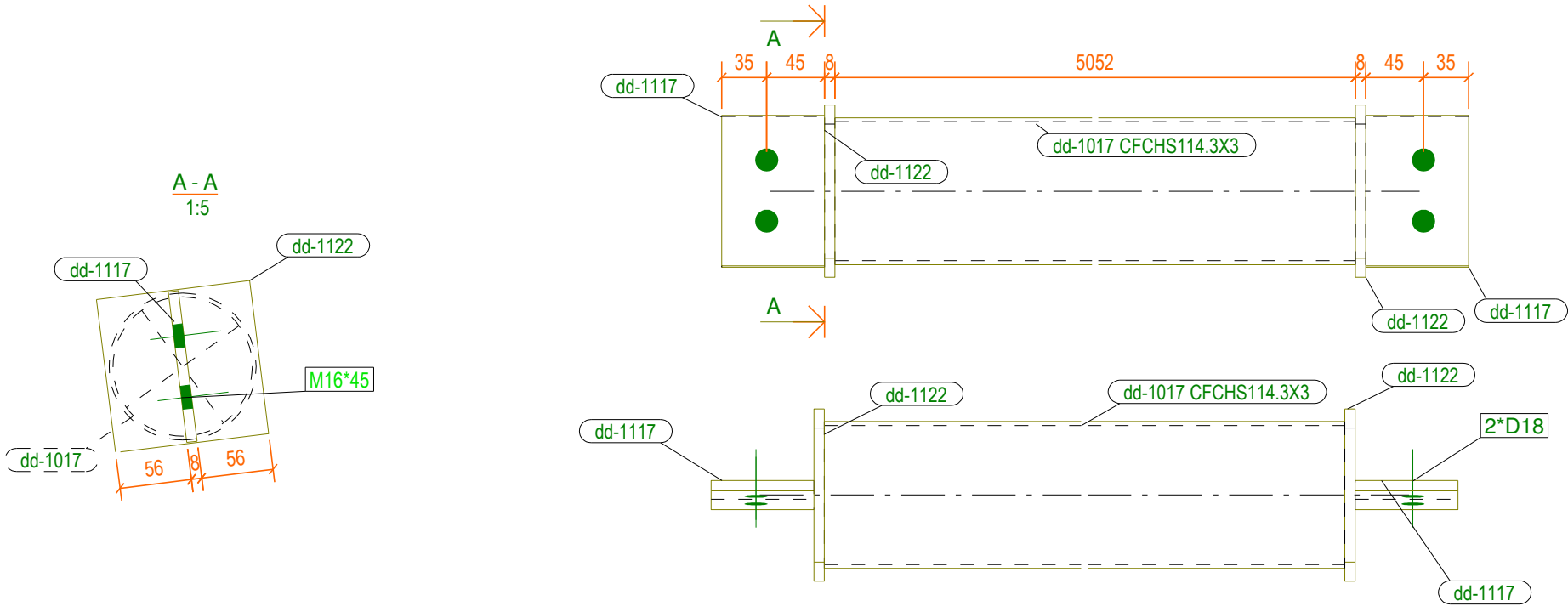
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAUGYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-7 | | VNT. | 1 | 59.00 | 59.00 | 2.50 | 2.50 |
| dd-1016 | CFCHS114.3X3, L = 6656 mm, S355JR | | VNT. | 1 | 54.81 | 54.81 | 2.390 | 2.390 |
| dd-1117 | PL8*80, L = 118 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 120 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.73 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 59 | - | - | 2.50 |



- PASTABOS:
- Profiliu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Rysis HR-7 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | Brezinio numeris: 2020-03/2-DP-SK -B44 | | | LAPAS 1 | LAPU 1 |

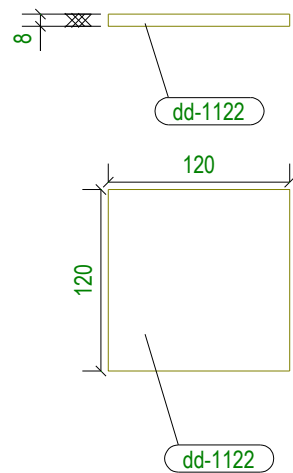
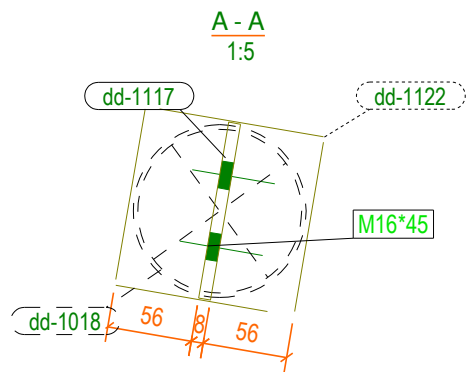
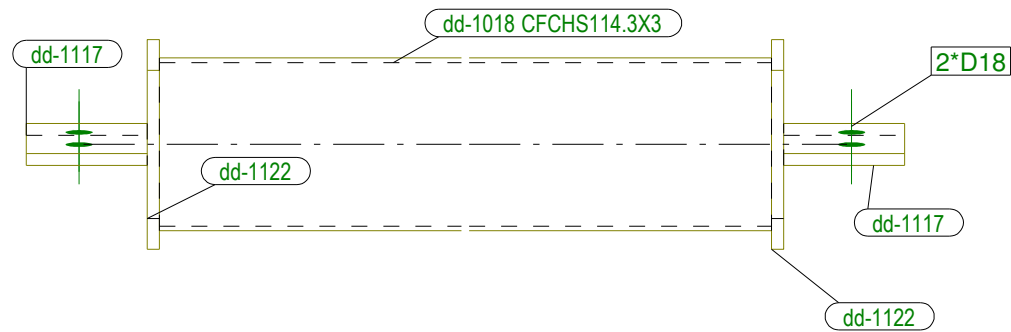
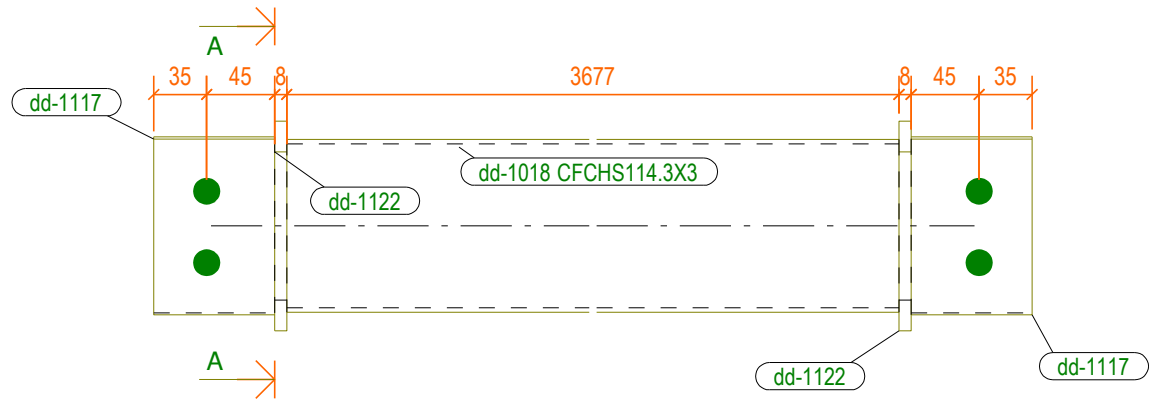
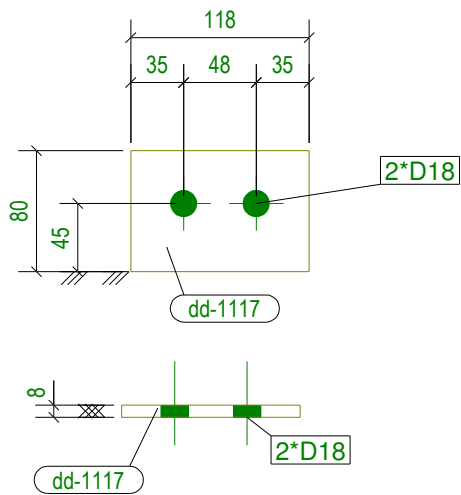
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS,m² | |
|---------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-8 | | VNT. | 1 | 45.00 | 45.00 | 1.92 | 1.92 |
| dd-1017 | CFCHS114.3X3, L = 5051 mm, S355JR | | VNT. | 1 | 41.60 | 41.60 | 1.814 | 1.814 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBĲL/IS, 3% : | | | | | 1.34 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 45 | - | - | 1.92 |



PASTABOS:

- Profilu plienas S355JR uvinimo reikalavimai:
 - suvinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-8 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B45 | | | LAPAS |
| | | | | | | | | LAPU |
| 19978 | PDV | R. Diškevičius | | | | | | 1 |
| | | | | | | | | 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | |

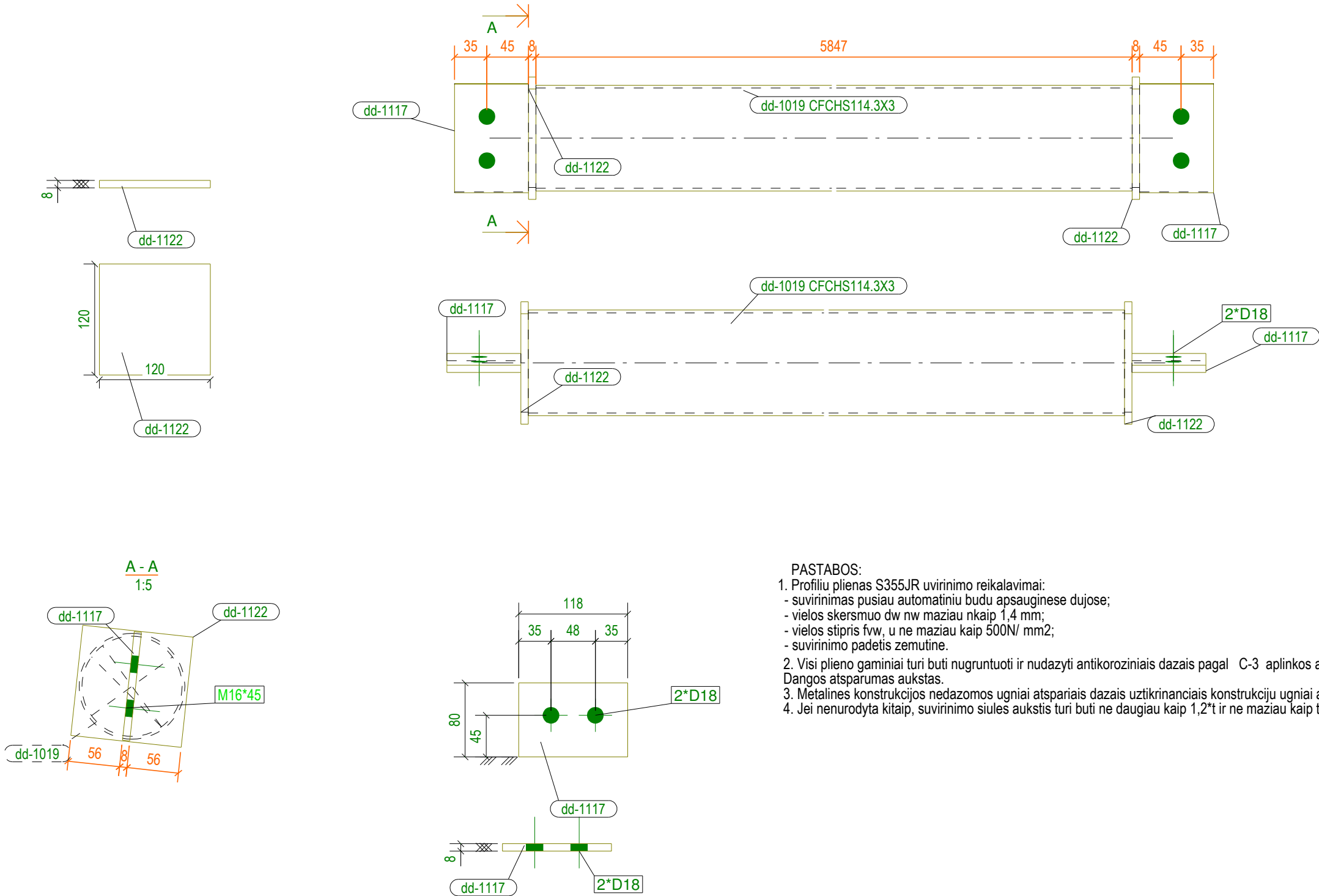


- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/I, kg | | DAIUYMO PLOTAS,m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-9 | | VNT. | 1 | 34.00 | 34.00 | 1.43 | 1.43 |
| dd-1018 | CFCHS114.3X3, L = 3677 mm, S355JR | | VNT. | 1 | 30.28 | 30.28 | 1.320 | 1.320 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.00 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 34 | - | - | 1.43 |

| | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|-------|------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| | | | | | Brezinio pavadinimas: | | | LAIDA | |
| | | | | | | | | | |
| 19978 | PDV | R. Diškevičius | | | Rysis HR-9 | | | | |
| | | | | | | | | | |
| | | | | | Brezinio numeris: | | | LAPAS | LAPU |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | | |
| | | | | | | | | 1 | 1 |

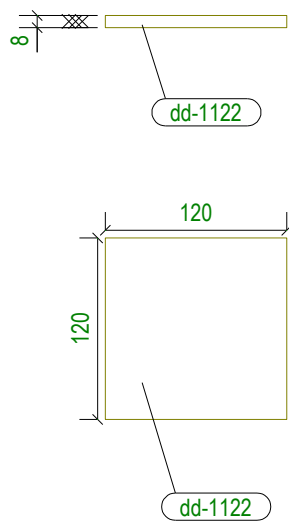
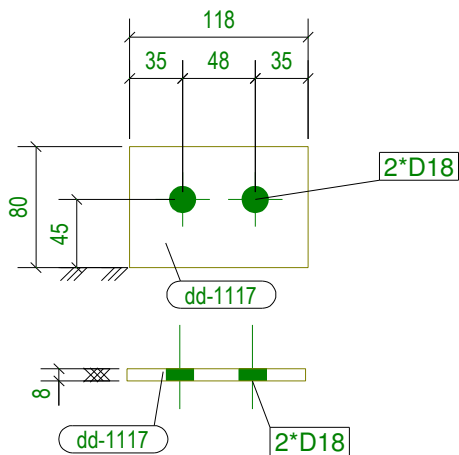
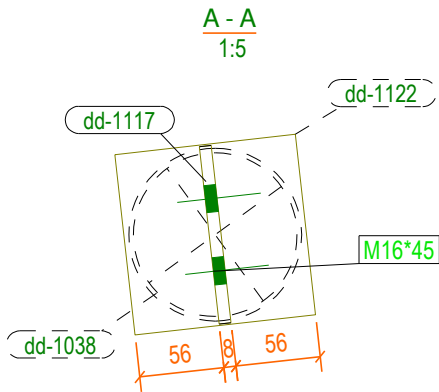
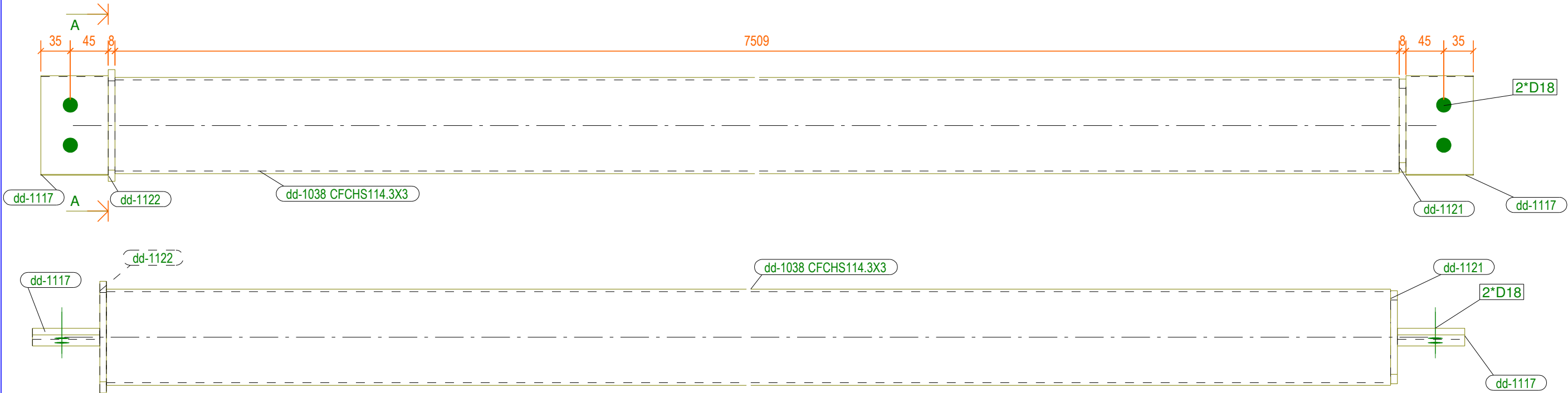
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-10 | | VNT. | 1 | 52.00 | 52.00 | 2.21 | 2.21 |
| dd-1019 | CFCHS114.3X3, L = 5846 mm, S355JR | | VNT. | 1 | 48.15 | 48.15 | 2.099 | 2.099 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 2 | 0.90 | 1.81 | 0.033 | 0.065 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | 1.53 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 52 | - | - | 2.21 |



- PASTABOS:
- Profilu plienas S355JR uvinimo reikalavimai:
 - suvinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-10 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B47 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

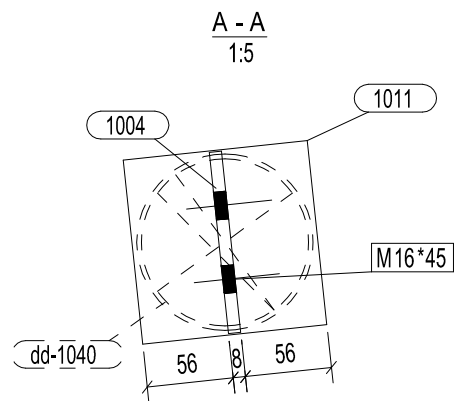
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | HR-11 | | VNT. | 1 | 66.00 | 66.00 | 2.80 | 2.80 |
| dd-1038 | CFCHS114.3X3, L = 7508 mm, S355JR | | VNT. | 1 | 61.83 | 61.83 | 2.696 | 2.696 |
| dd-1117 | PL8*80, L = 117 mm, S355JR | | VNT. | 2 | 0.59 | 1.19 | 0.022 | 0.044 |
| dd-1121 | PL8*100, L = 100 mm, S355JR | | VNT. | 1 | 0.63 | 0.63 | 0.023 | 0.023 |
| dd-1122 | PL8*120, L = 119 mm, S355JR | | VNT. | 1 | 0.90 | 0.90 | 0.033 | 0.033 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.94 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 66 | - | - | 2.80 |



PASTABOS:

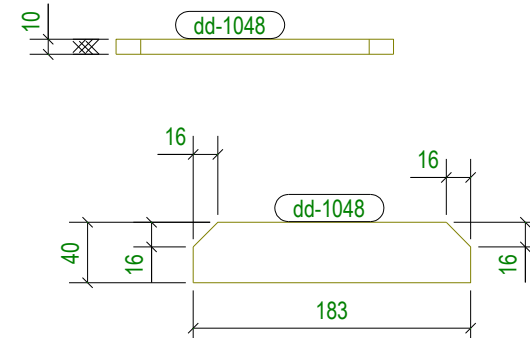
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis HR-11 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B48 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

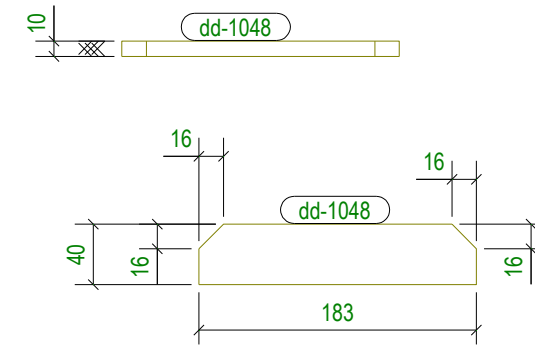


1. Profilių plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

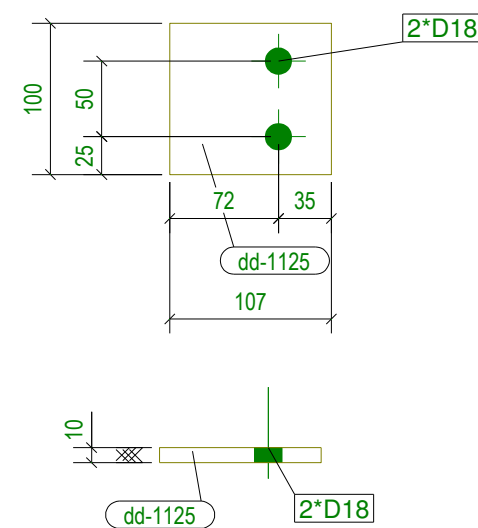
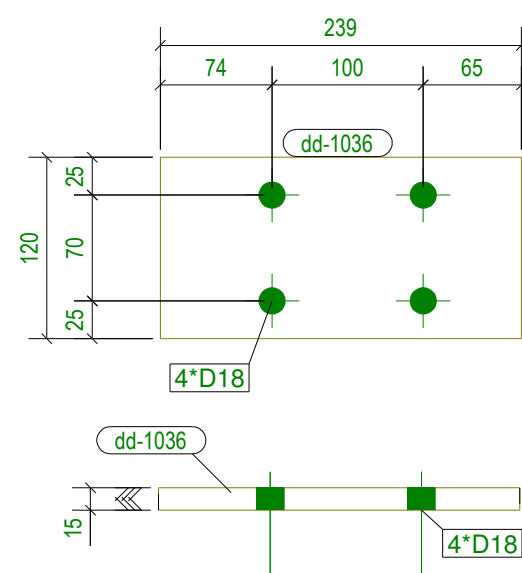
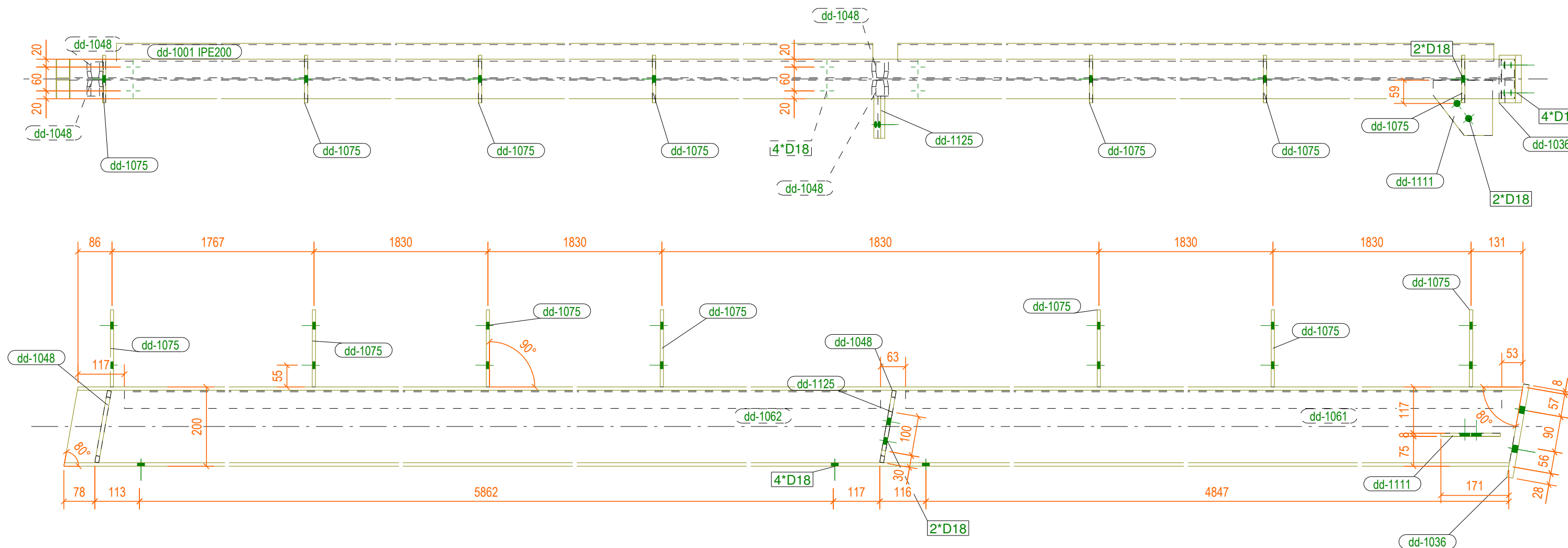
| | | | | | | | | | |
|------------------------|-------------------------------------|--|--|--|---|--|--|--------------------|-------------------|
| ATESTATO NR. | | <div>UAB "PROJEKTA"</div> <div>S. Neries g. 7-65, Vilnius</div> <div>Tel. +370 600 26922</div> | | | Objekto pavadinimas: <div>MTEP Technologinio centro</div> <div>Moletur. sav., Joniskis, Statyubos projektas</div> | | | | |
| 19978 | PDV | R. Diškevičius | | | Brėpinio pavadinimas: <div>Rysis</div> <div>HR-12</div> | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: <div>DP</div> | Statytojas: <div>UAB Merkadas</div> | | | | Brėpinio numeris: <div>2020-03/2-DP-SK-48.1</div> | | | LAPAS <div>1</div> | LAPŲ <div>1</div> |



| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|---|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-2 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | Brezinio numeris: 2020-03-2-DP-SK -B49 | | | | LAPAS 1 | LAPU 1 |

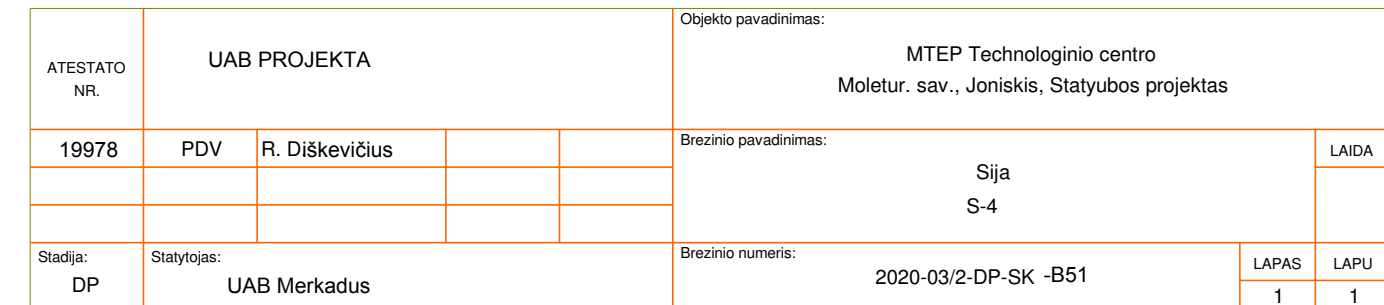
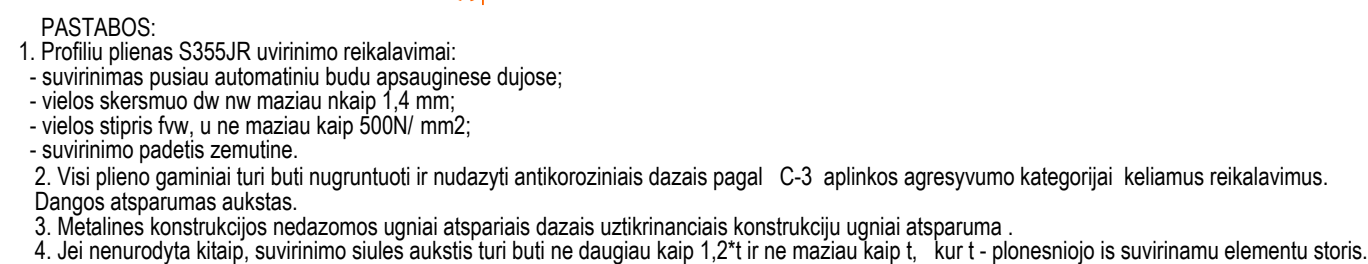
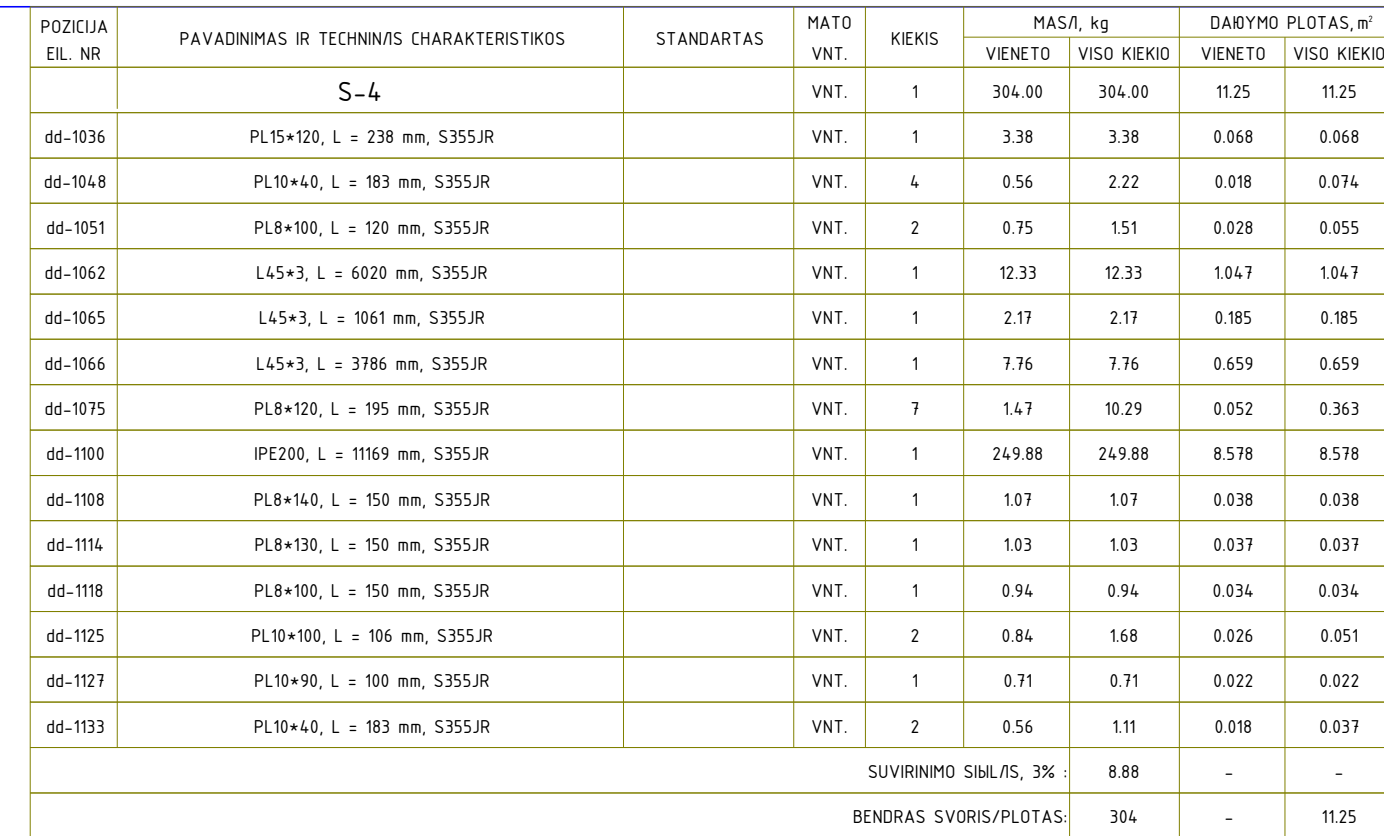


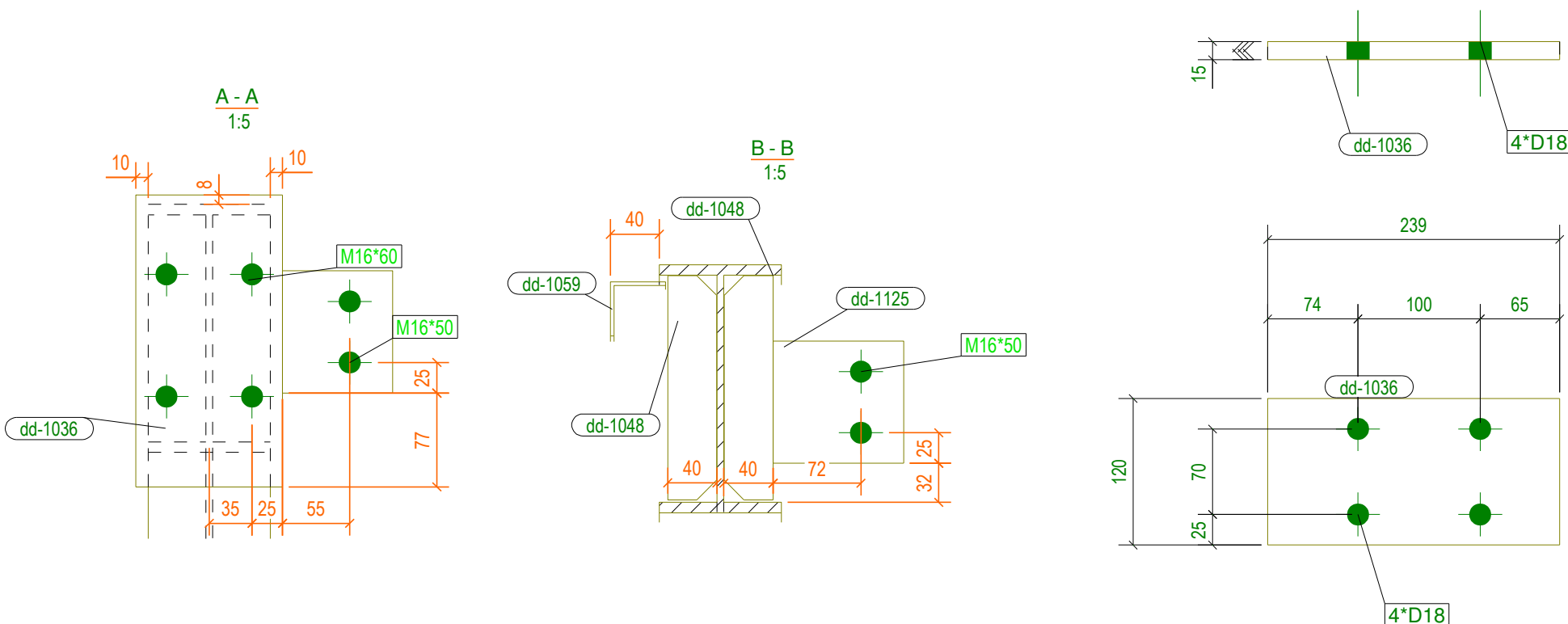
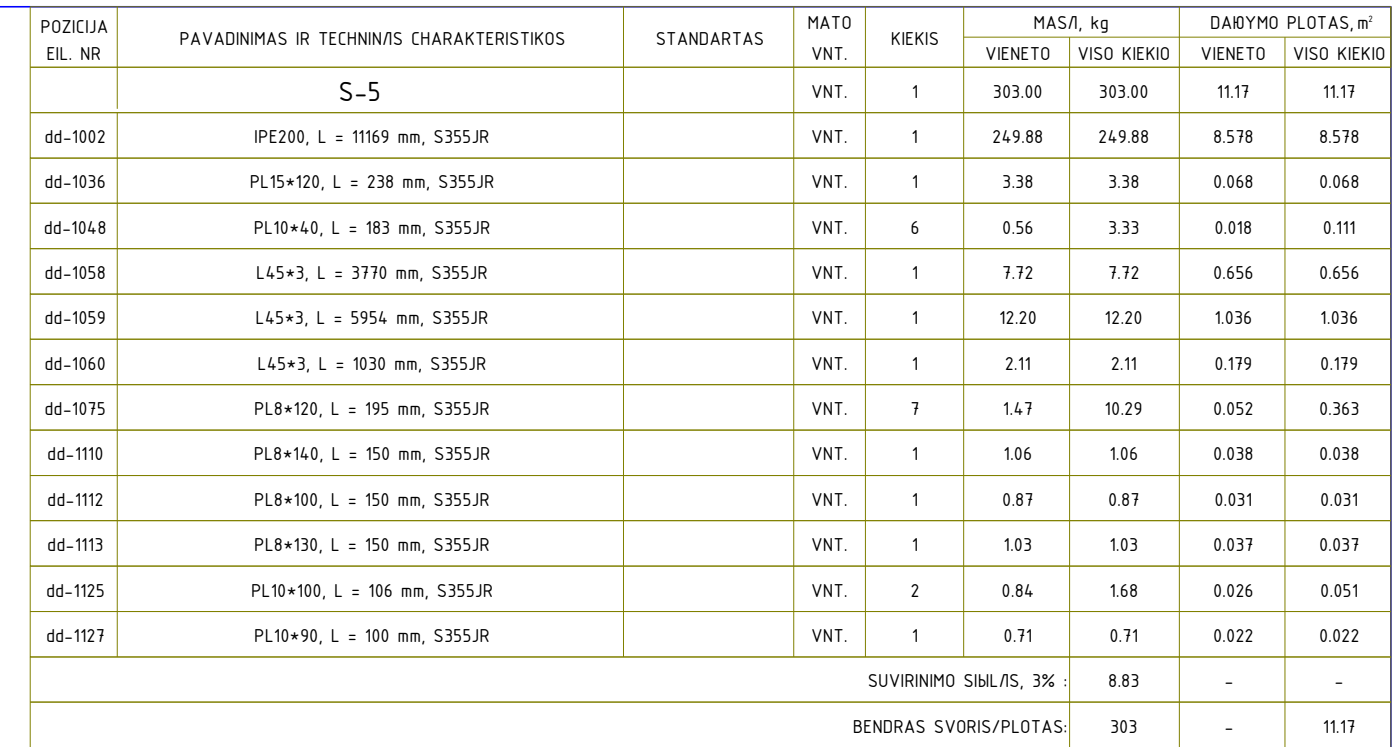
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASA, kg | | DARIMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | S-3 | | VNT. | 1 | 298.00 | 298.00 | 11.04 | 11.04 |
| dd-1001 | IPE200, L = 11169 mm, S355JR | | VNT. | 1 | 249.88 | 249.88 | 8.578 | 8.578 |
| dd-1036 | PL15*120, L = 238 mm, S355JR | | VNT. | 1 | 3.38 | 3.38 | 0.068 | 0.068 |
| dd-1048 | PL10*40, L = 183 mm, S355JR | | VNT. | 4 | 0.56 | 2.22 | 0.018 | 0.074 |
| dd-1061 | L45*3, L = 4880 mm, S355JR | | VNT. | 1 | 10.00 | 10.00 | 0.849 | 0.849 |
| dd-1062 | L45*3, L = 6020 mm, S355JR | | VNT. | 1 | 12.33 | 12.33 | 1.047 | 1.047 |
| dd-1075 | PL8*120, L = 195 mm, S355JR | | VNT. | 7 | 1.47 | 10.29 | 0.052 | 0.363 |
| dd-1111 | PL8*140, L = 150 mm, S355JR | | VNT. | 1 | 1.07 | 1.07 | 0.038 | 0.038 |
| dd-1125 | PL10*100, L = 106 mm, S355JR | | VNT. | 1 | 0.84 | 0.84 | 0.026 | 0.026 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 8.70 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 298 | - | 11.04 | |



- PASTABOS:**
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1.4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniai dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijas nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2" ir ne maziau kaip t kur t - plonesniojo is suvirinamu elementu storis.

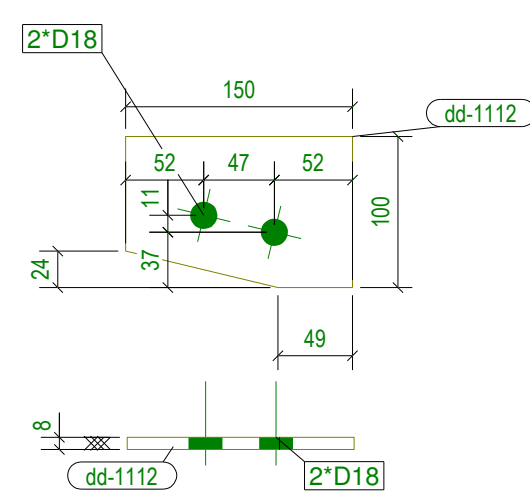
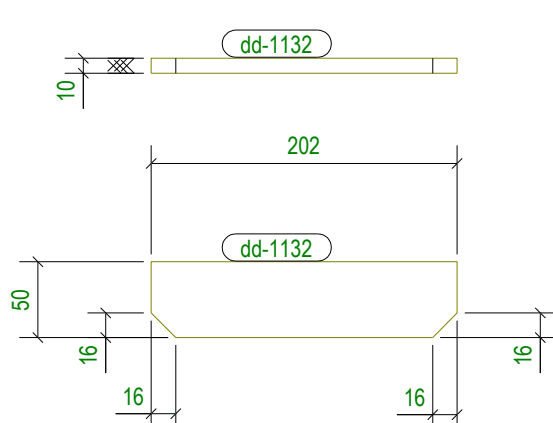
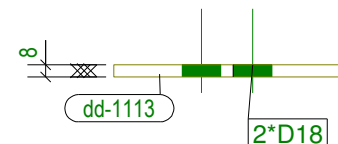
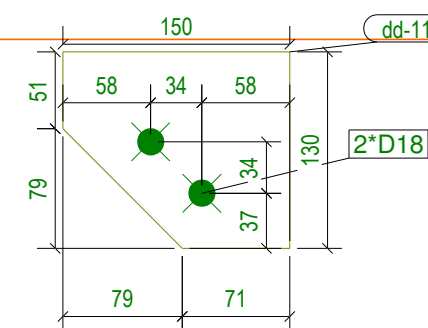
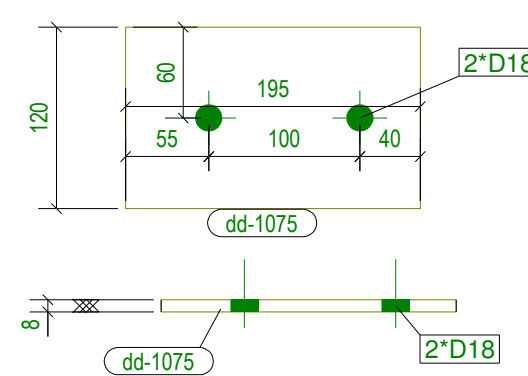
| | | | | | | | |
|-----------------|-----------------------------|----------------|--|---|--|--|------------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-3 | | LAIDA |
| | | | | | | | |
| | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | Brezinio numeris: 2020-03-2-DP-SK -B50 | | | LAPAS 1 |
| | | | | | | | LAPU 1 |



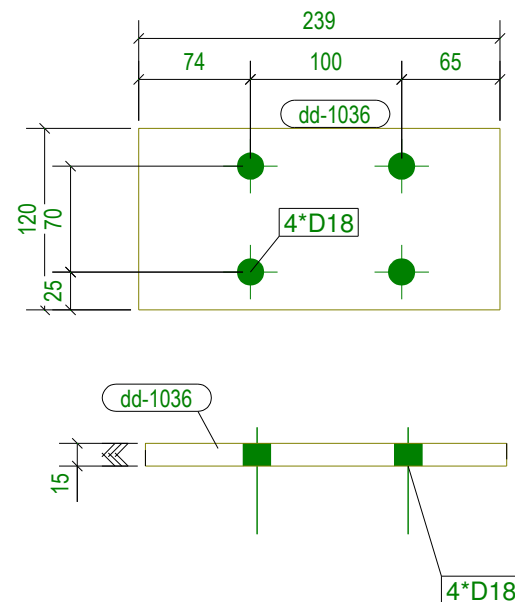
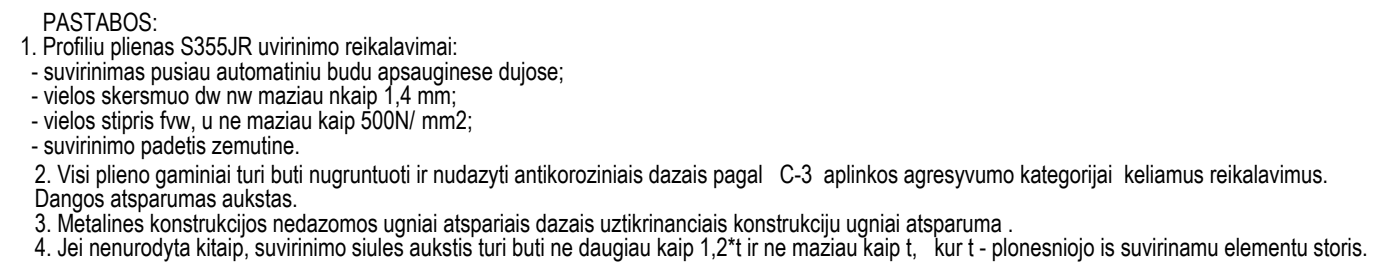


- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinii budu apsauginese dujose;
 - vielos skersmuo dw nwn maziau kaip 14 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijas nedezamos ugniai atspariais dazais uztikrinancias konstrukciju ugniai atsparuma.
 4. Jei nenurodyta kurti, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2" ir ne maziau kaip t, kurt i plonesniojo is suvirinamu elementu storis.

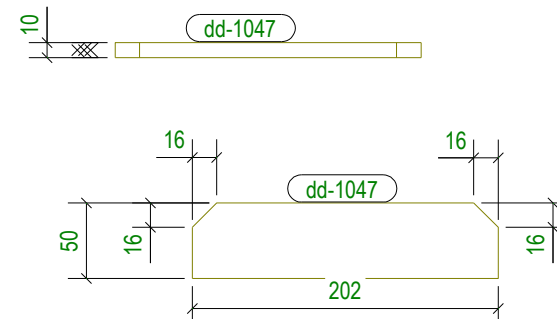
| | | | | | | | | |
|----------------|-----------------------------|----------------|--|---|--|--|--|------------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-5 | | | LAIDA |
| | | | | | | | | |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | Brezinio numeris: 2020-03-2-DP-SK -B52 | | | | LAPAS 1 |
| | | | | | | | | LAPU 1 |



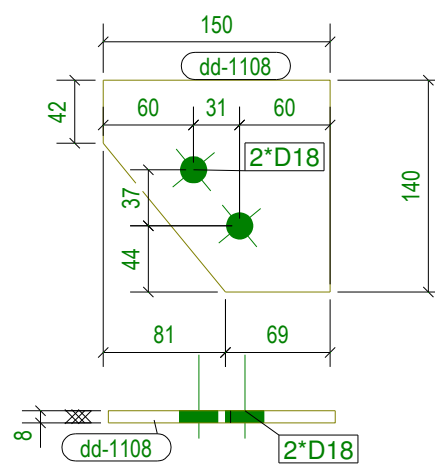
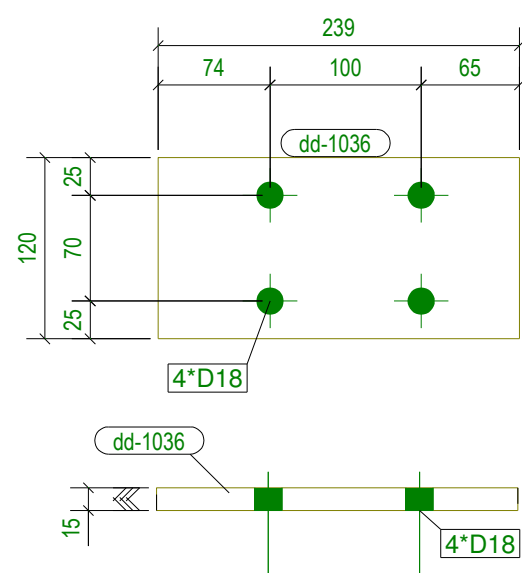
- | | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-6 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03-2-DP-SK -B53 | | | LAPAS 1 | LAPU 1 |



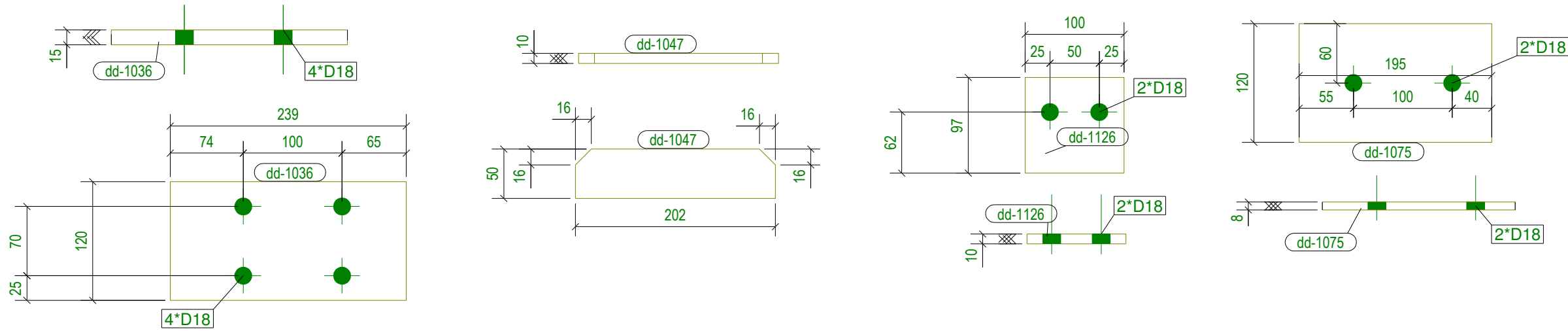
| | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-7 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B54 | | | LAPAS 1 | LAPU 1 |



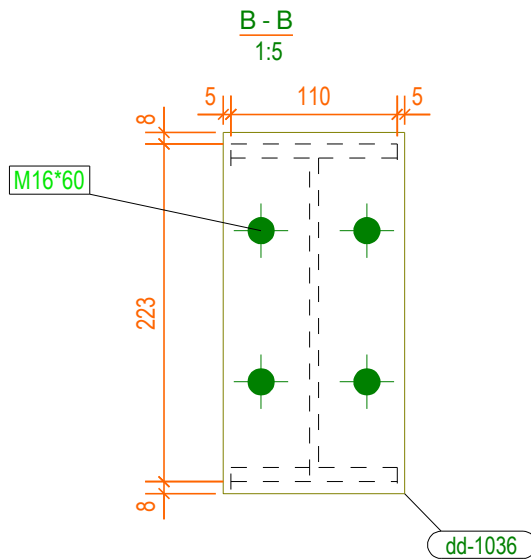
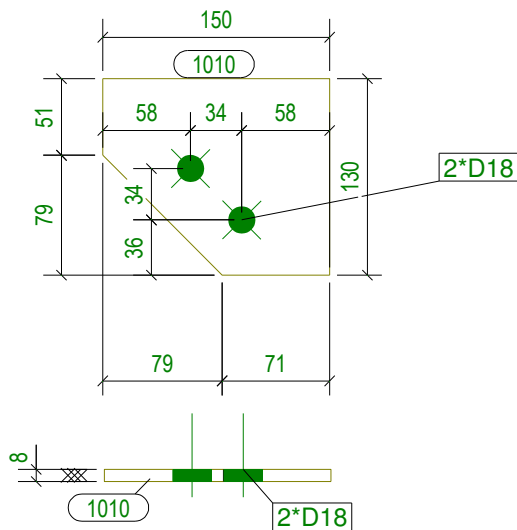
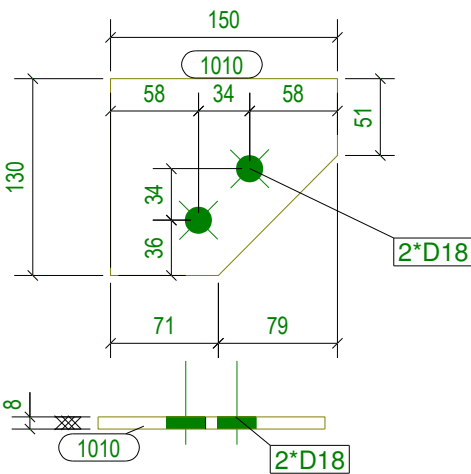
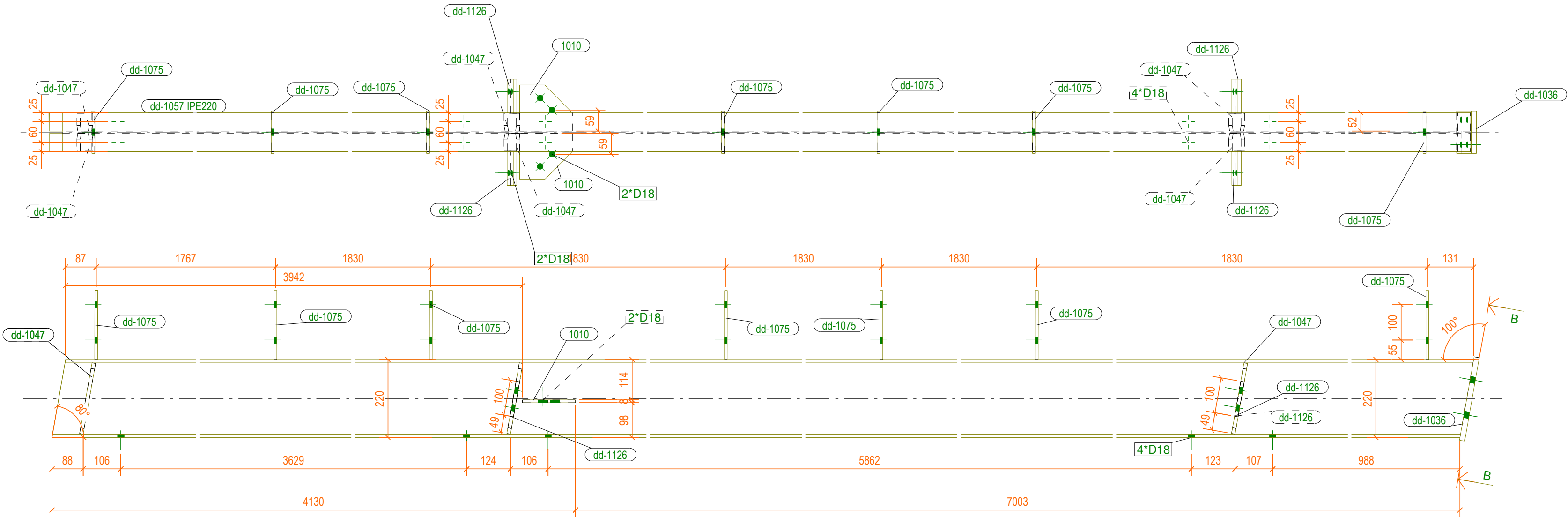
Technical drawing of a beam connection (Ansicht A) showing a longitudinal section of a beam. The beam is labeled "dd-1056 IPE220". Dimensions include 25, 60, 99, and 4*Ø18. Components are labeled with codes like dd-1047, dd-1075, dd-1108, dd-1109, dd-1126, and dd-1036.



| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-8 | | | LAIDA |
| | | | | | | | | |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | Brezinio numeris: 2020-03-2-DP-SK -B55 | | | LAPAS 1 |
| | | | | | | | | LAPU 1 |

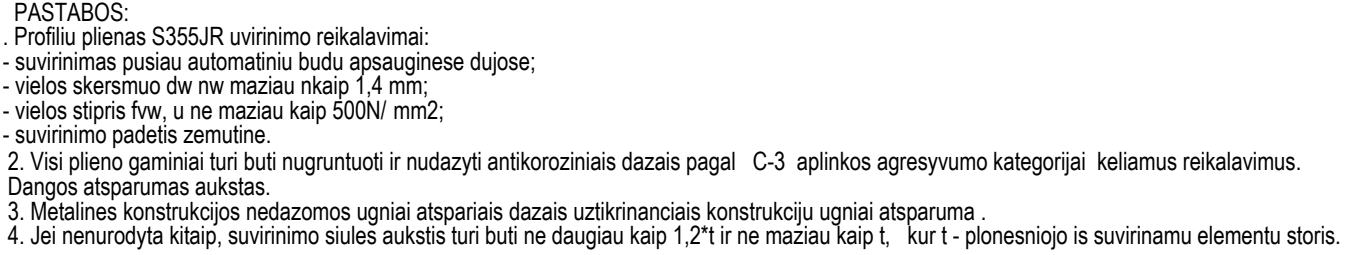
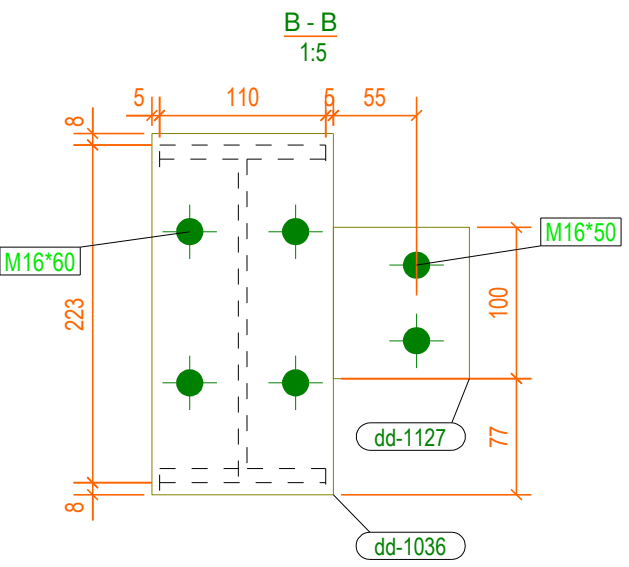
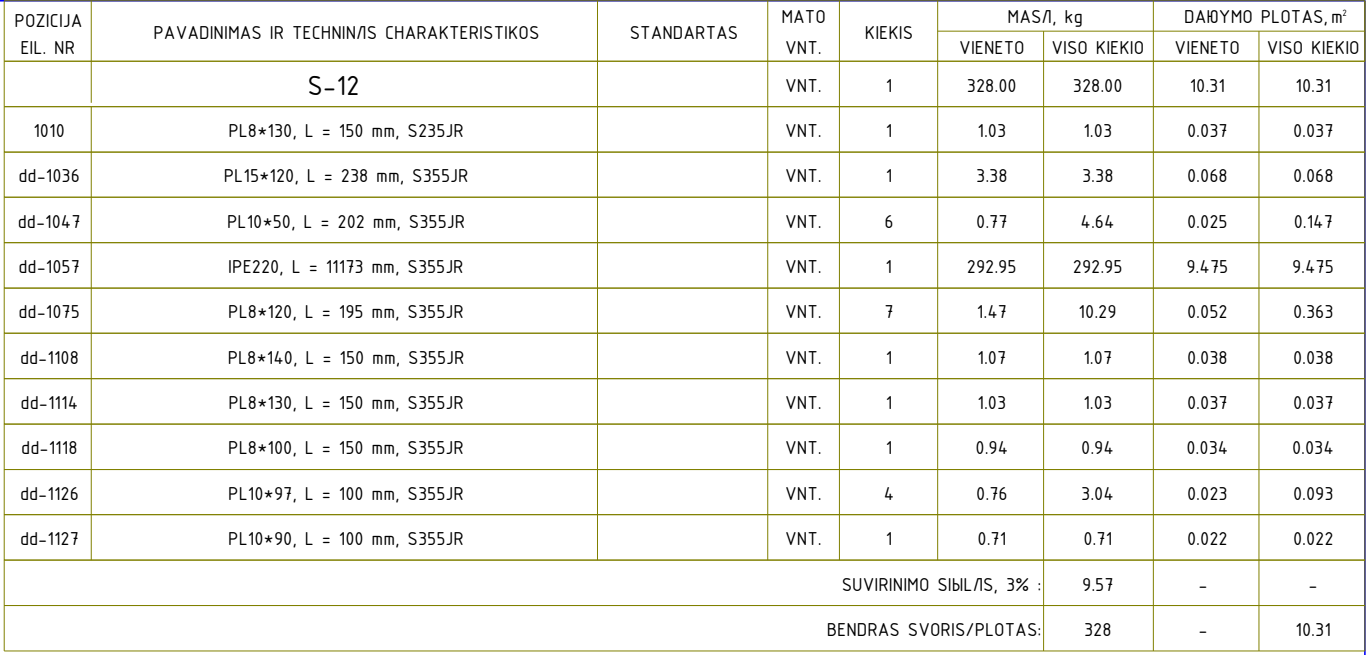


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DABŲMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VIŠO KIEKIO | VIENETO | VIŠO KIEKIO |
| | S-11 | | VNT. | 1 | 325.00 | 325.00 | 10.22 | 10.22 |
| 1010 | PL8*130, L = 150 mm, S235JR | | VNT. | 2 | 1.03 | 2.06 | 0.037 | 0.074 |
| dd-1036 | PL15*120, L = 238 mm, S355JR | | VNT. | 1 | 3.38 | 3.38 | 0.068 | 0.068 |
| dd-1047 | PL10*50, L = 202 mm, S355JR | | VNT. | 6 | 0.77 | 4.64 | 0.025 | 0.147 |
| dd-1057 | IPE220, L = 11173 mm, S355JR | | VNT. | 1 | 292.95 | 292.95 | 9.475 | 9.475 |
| dd-1075 | PL8*120, L = 195 mm, S355JR | | VNT. | 7 | 1.47 | 10.29 | 0.052 | 0.363 |
| dd-1126 | PL10*97, L = 100 mm, S355JR | | VNT. | 4 | 0.76 | 3.04 | 0.023 | 0.093 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 9.49 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 325 | - | - | 10.22 |

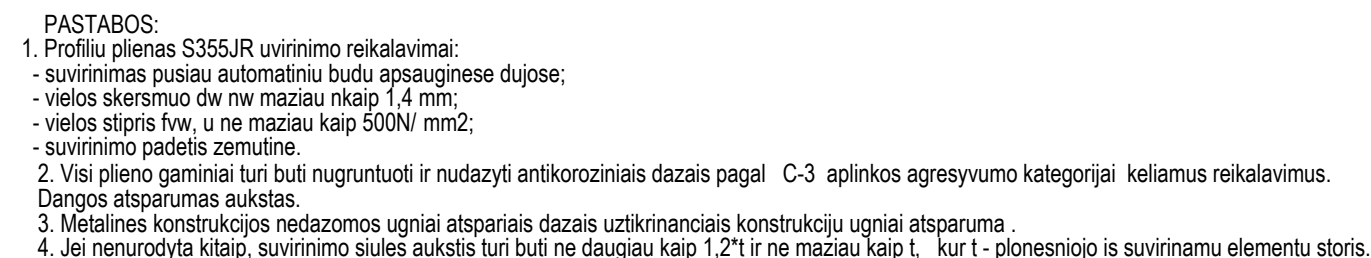
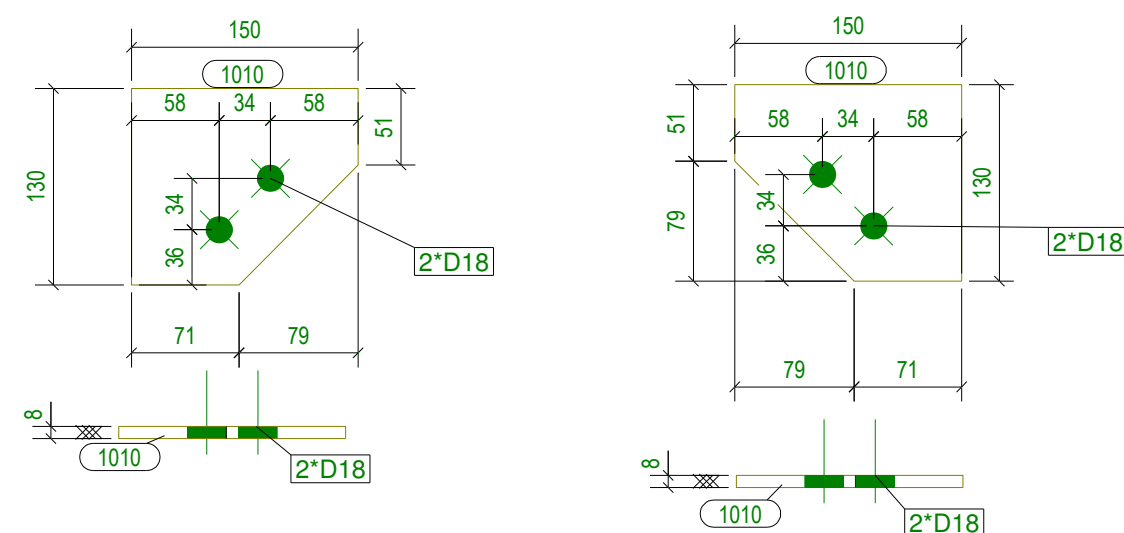


PASTABOS:
1. Profilių plienas S355JR uvirinimo reikalavimai:
- suvirinimas pusiau automatinio būdu apsauginėse dujose;
- vielos skersmuo dw n/w mažiau nkaip 1,4 mm;
- vielos stipris f_w, u ne mažiau kaip 500N/ mm²;
- suvirinimo padėtis žemutinė.
2. Visi plieno gaminiai turi būti nugruntuoti ir nudažyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
Dangos atsparumas aukstas.
3. Metalinės konstrukcijos nedamos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparuma.
4. Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

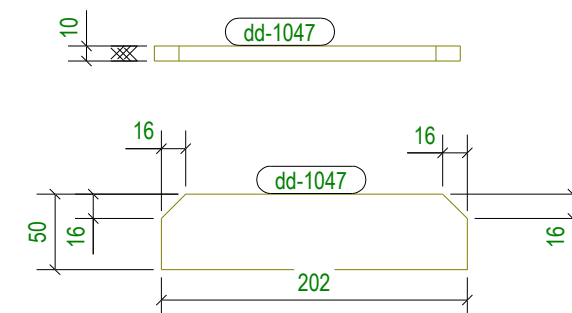
| | | | | | | | | |
|-----------------|--------------|-----|----------------|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | 19978 | PDV | R. Diškevičius | | Brezinio pavadinimas: Sija S-11 | | | LAIDA |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadus | | | | 2020-03/2-DP-SK -B56 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |



| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|---|--|-----------|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-12 | | | LAIDA |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B57 | | | LAPAS 1 |
| | | | | | | | LAPU 1 | |



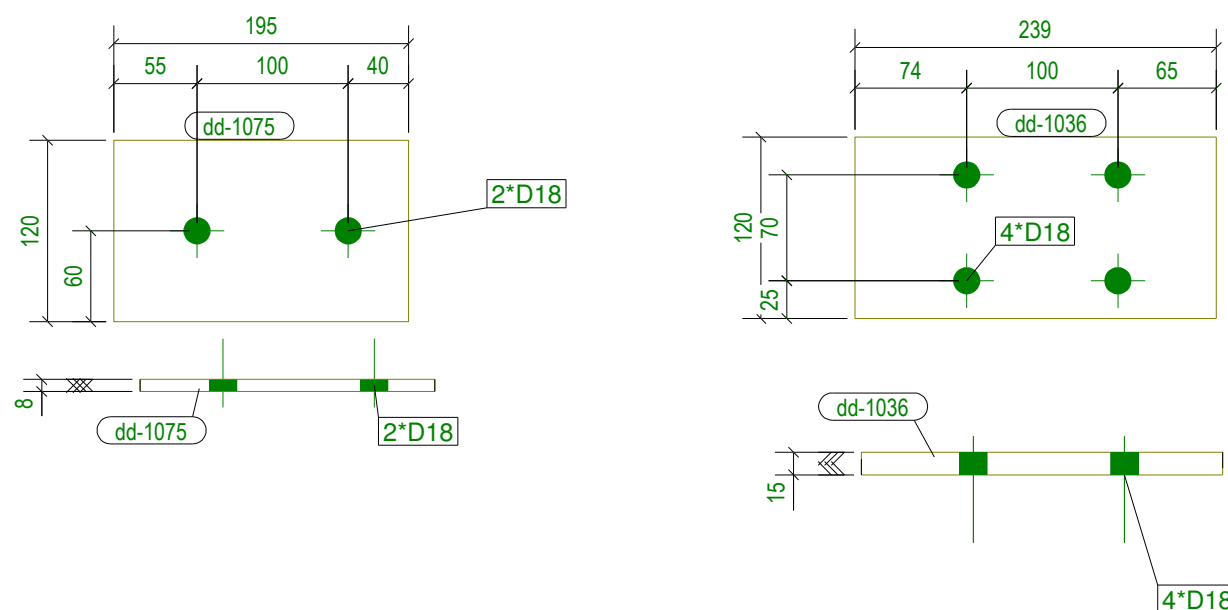
| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|---|--|--|--|--|------------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S-14 | | | | LAIDA |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | Brezinio numeris: 2020-03-2-DP-SK -B58 | | | | | LAPAS 1 |
| | | | | | | | | | LAPU 1 |



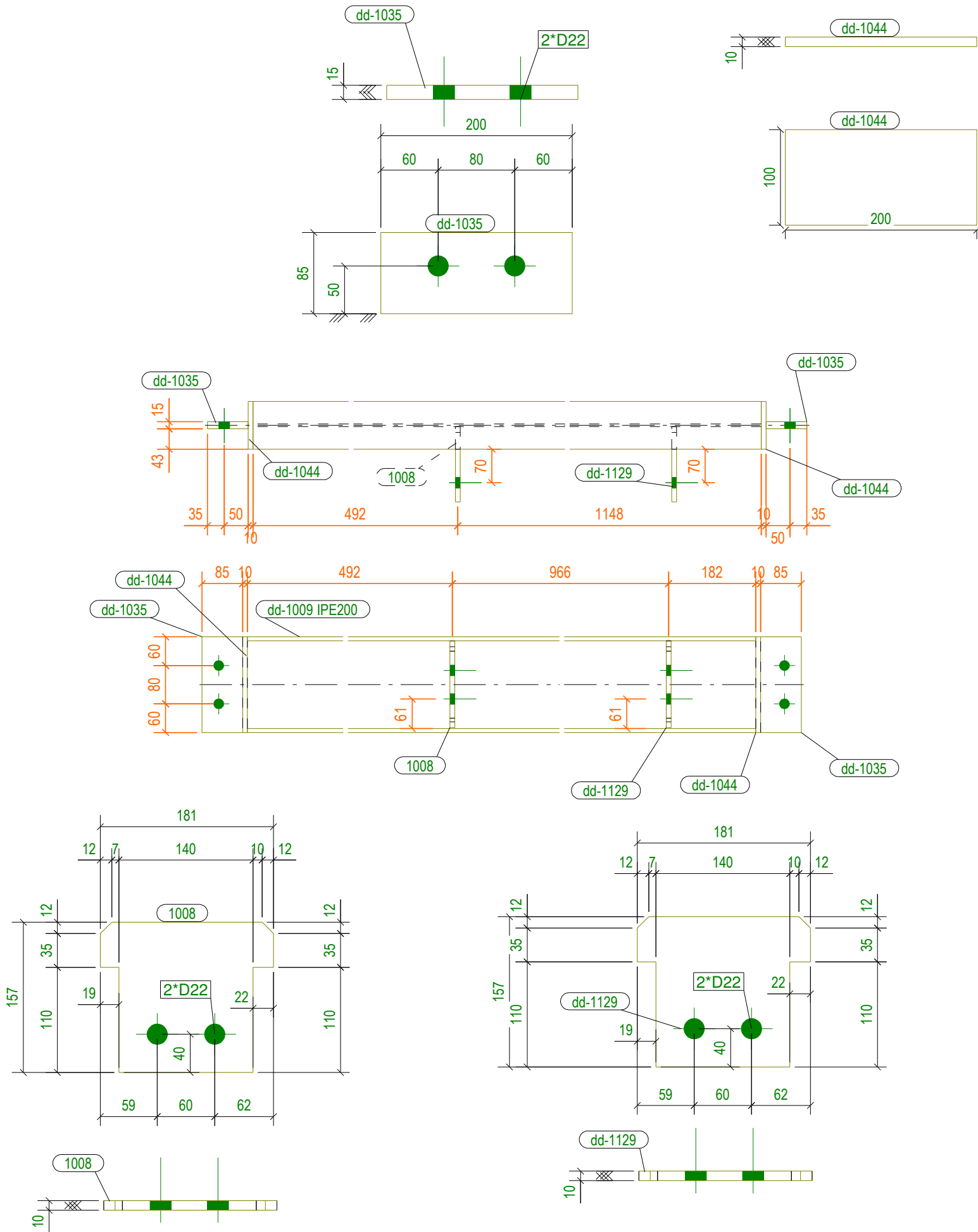
Technical drawing of a mechanical part. The drawing shows a cross-section of a part with a central hole. The dimensions are as follows:

- Overall width: 62
- Distance from left edge to center of hole: 35
- Distance from center of hole to right edge: 25
- Overall height: 49
- Distance from bottom edge to center of hole: 50

The section line is labeled $A - A$ with a scale of $1:5$. The hole is labeled $M16 \times 50$.



- | | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Sija | | | |
| | | | | | S2-1 | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03-2-DP-SK -B59 | | | LAPAS 1 |
| | | | | | | | | LAPU 1 |



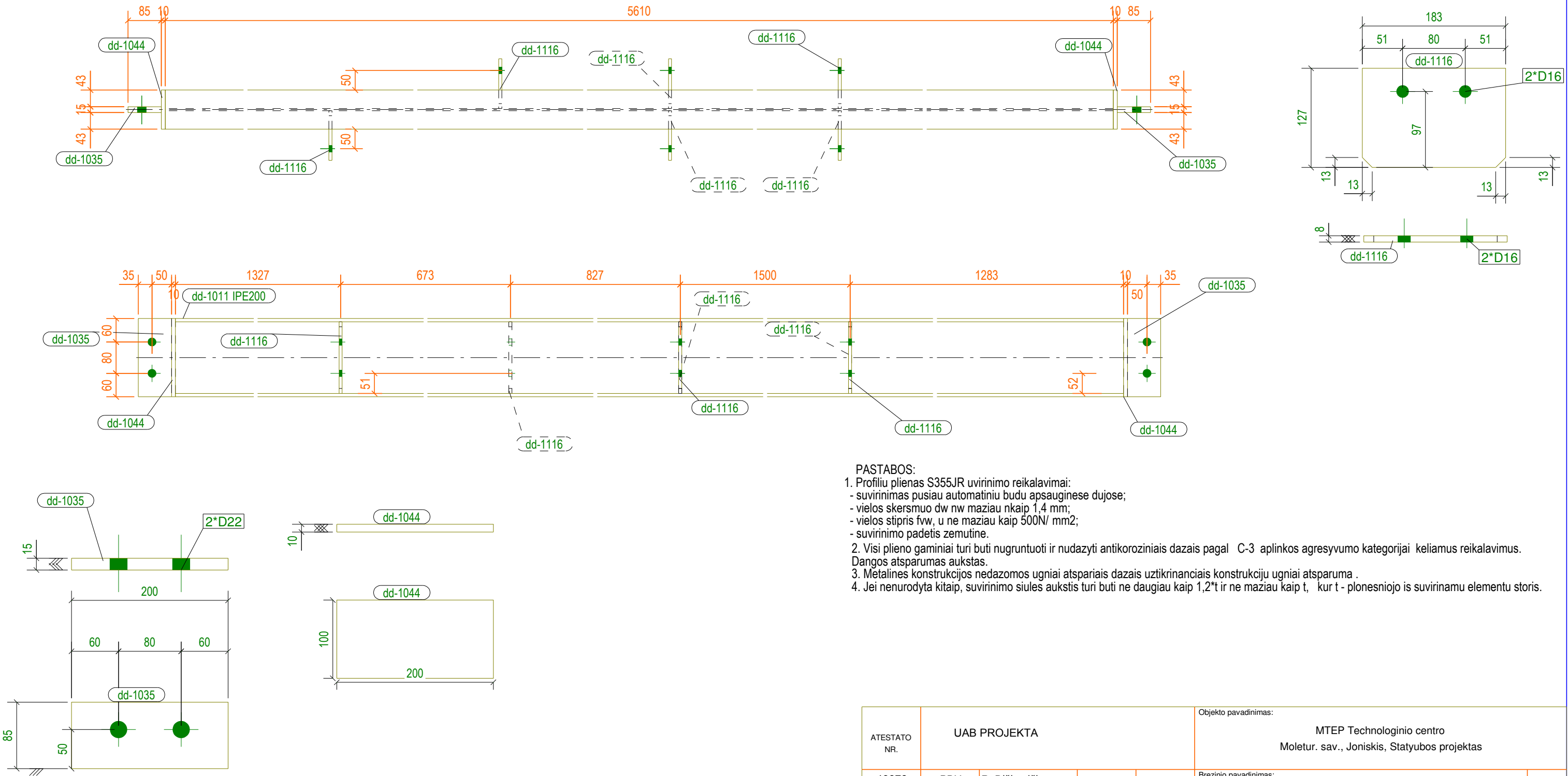
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAUJYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-1 | | VNT. | 1 | 48.00 | 48.00 | 1.55 | 1.55 |
| 1008 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| dd-1009 | IPE200, L = 1640 mm, S355JR | | VNT. | 1 | 36.69 | 36.69 | 1.260 | 1.260 |
| dd-1035 | PL15*85, L = 200 mm, S355JR | | VNT. | 2 | 2.00 | 4.00 | 0.043 | 0.085 |
| dd-1044 | PL10*100, L = 200 mm, S355JR | | VNT. | 2 | 1.57 | 3.14 | 0.046 | 0.092 |
| dd-1129 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.43 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 48 | - | - | 1.55 |

PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
- Dangos atsparumas aukstas.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Sija SA-1 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B60 | | | LAPU |
| | | | | | | | 1 | 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-3 | | VNT. | 1 | 145.00 | 145.00 | 4.79 | 4.79 |
| dd-1011 | IPE200, L = 5610 mm, S355JR | | VNT. | 1 | 125.51 | 125.51 | 4.308 | 4.308 |
| dd-1035 | PL15*85, L = 200 mm, S355JR | | VNT. | 2 | 2.00 | 4.00 | 0.043 | 0.085 |
| dd-1044 | PL10*100, L = 200 mm, S355JR | | VNT. | 2 | 1.57 | 3.14 | 0.046 | 0.092 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 6 | 1.45 | 8.68 | 0.051 | 0.305 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 4.24 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 145 | - | - | 4.79 |

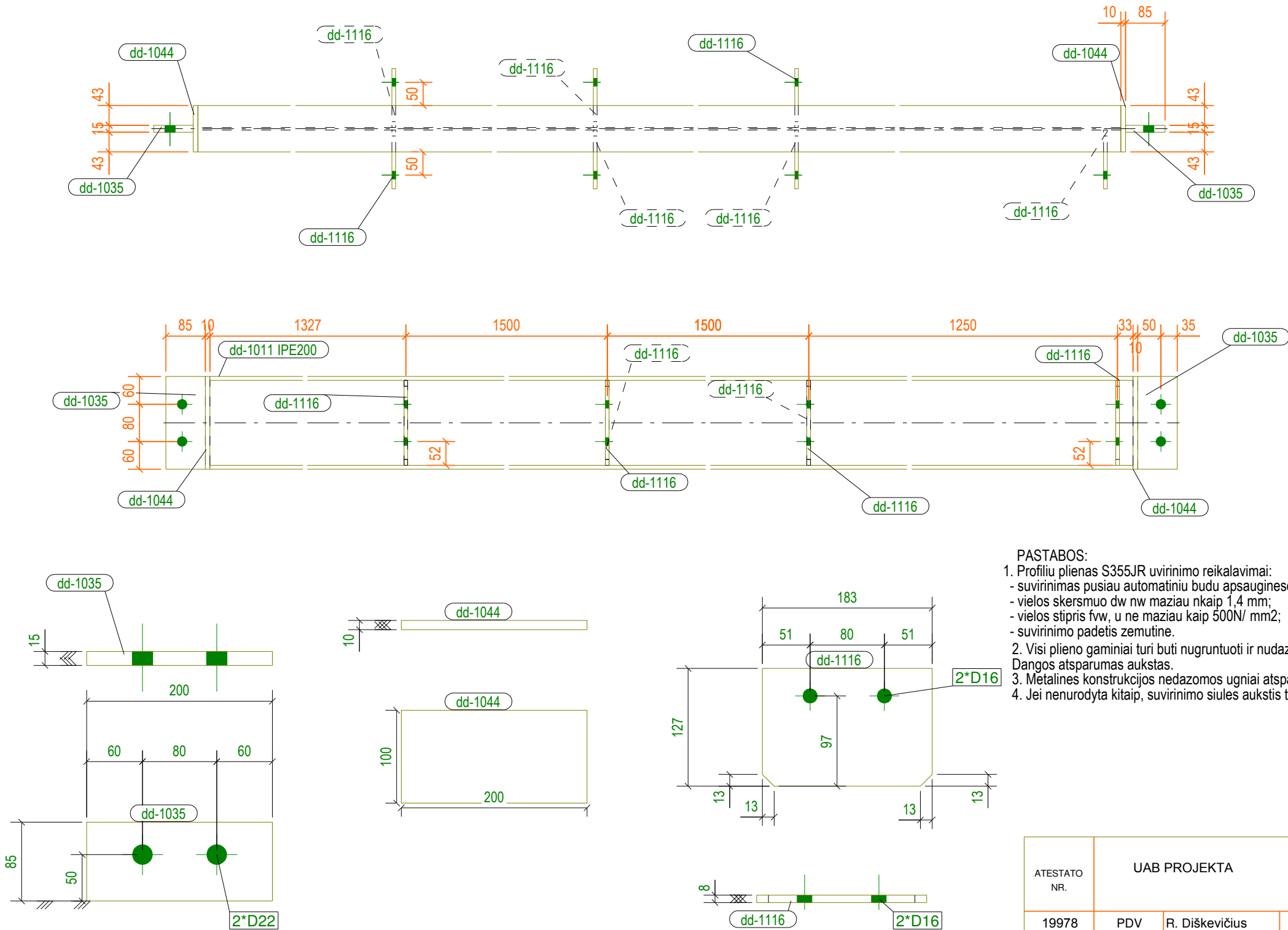


PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|-------|------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | LAIDA | |
| | | | | | Sija SA-3 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | LAPAS | LAPU |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B62 | | 1 | 1 |

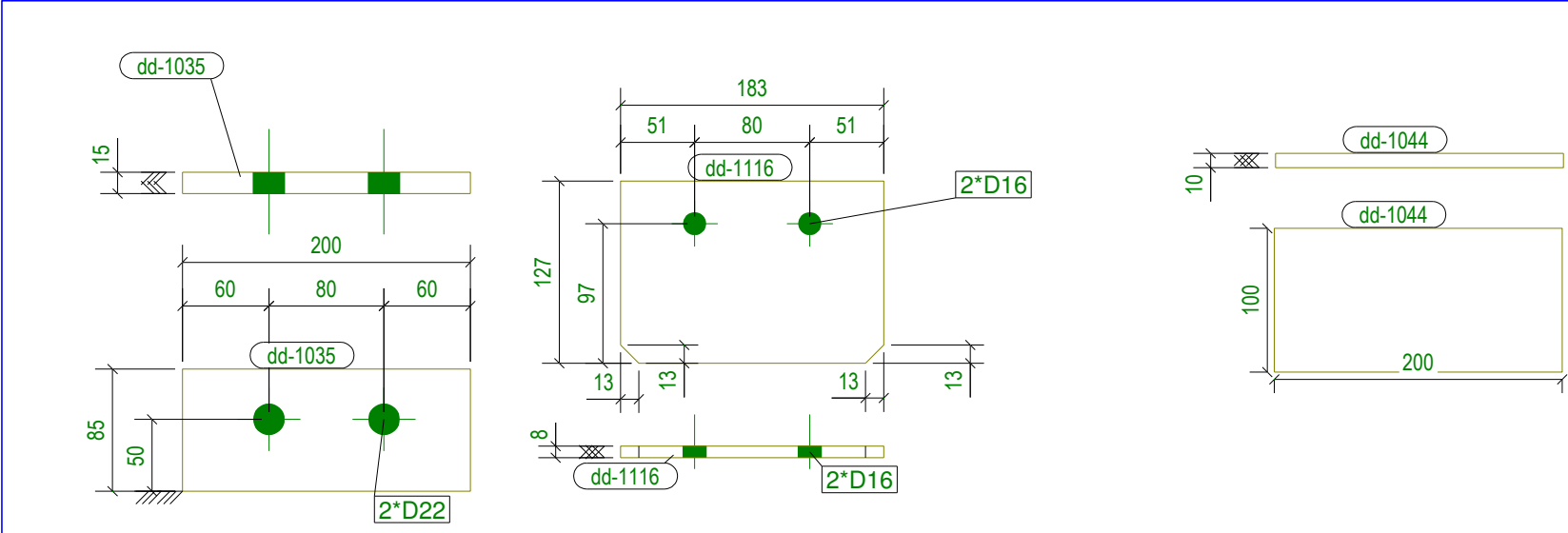
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-5 | | VNT. | 1 | 147.00 | 147.00 | 4.84 | 4.84 |
| dd-1011 | IPE200, L = 5610 mm, S355JR | | VNT. | 1 | 125.51 | 125.51 | 4.308 | 4.308 |
| dd-1035 | PL15*85, L = 200 mm, S355JR | | VNT. | 2 | 2.00 | 4.00 | 0.043 | 0.085 |
| dd-1044 | PL10*100, L = 200 mm, S355JR | | VNT. | 2 | 1.57 | 3.14 | 0.046 | 0.092 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 7 | 1.45 | 10.12 | 0.051 | 0.356 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 4.28 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 147 | - | - | 4.84 |



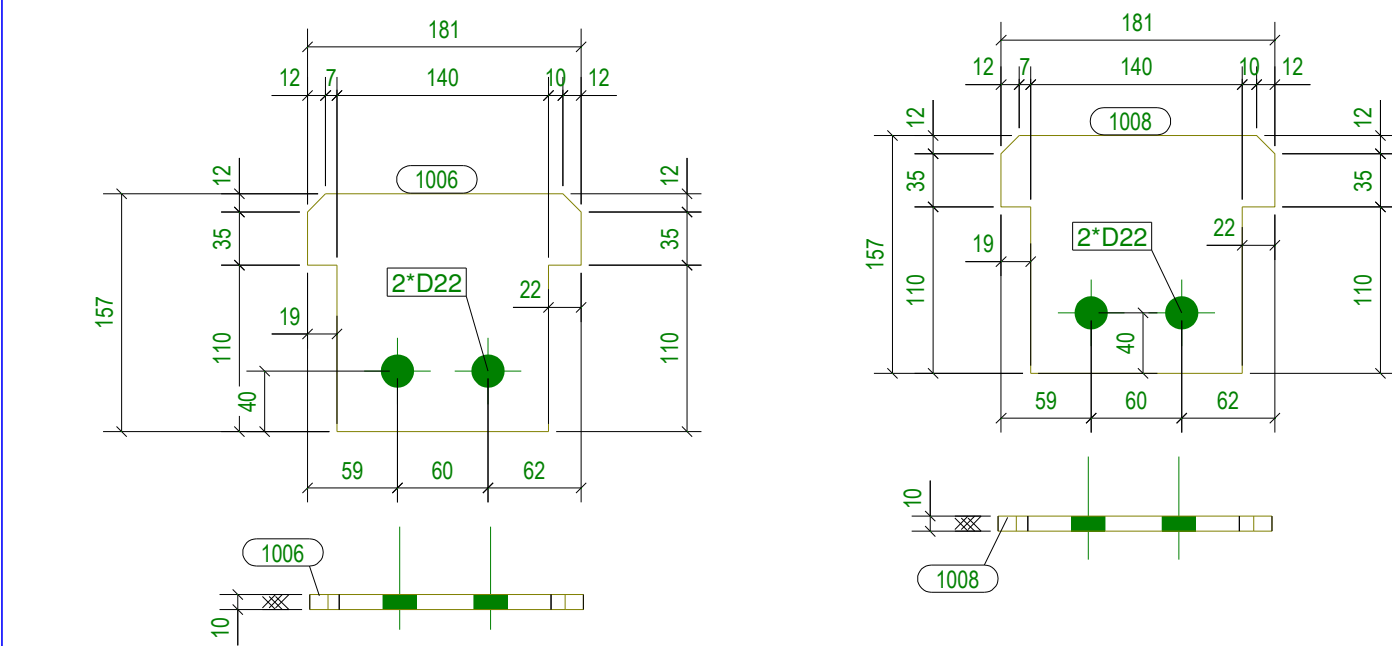
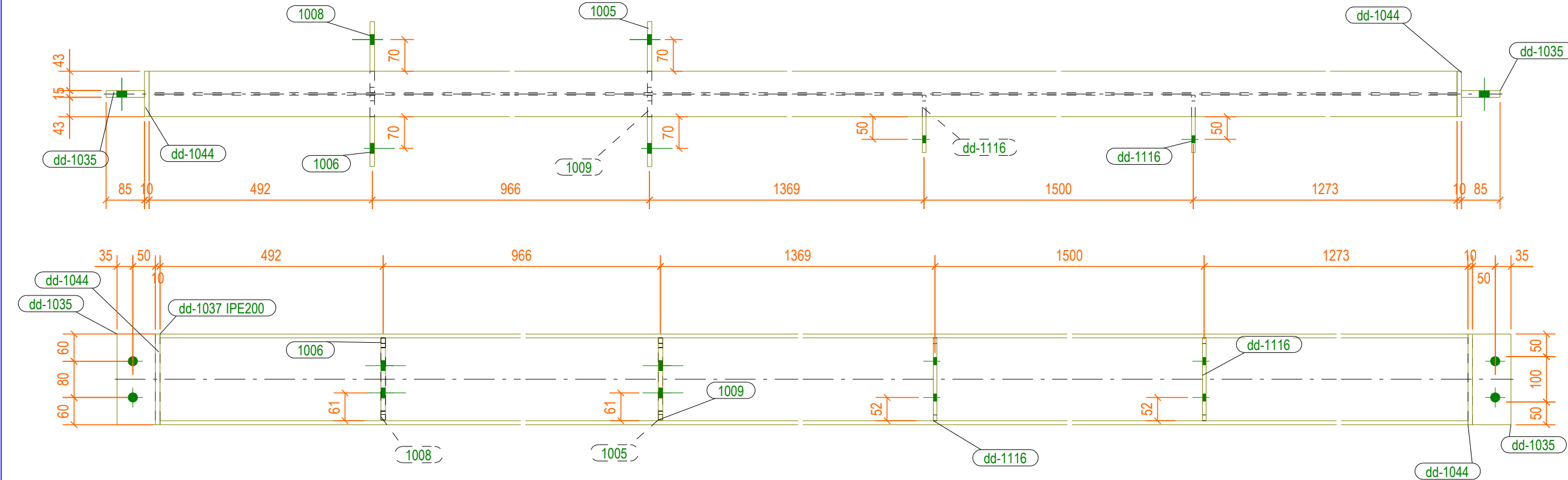
PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: | | | |
| 19978 | PDV | R. Diškevičius | | | Sija SA-5 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B64 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |



| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUŽYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-6 | | VNT. | 1 | 147.00 | 147.00 | 4.80 | 4.80 |
| 1005 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| 1006 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| 1008 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| 1009 | PL10*157, L = 180 mm, S355JR | | VNT. | 1 | 1.87 | 1.87 | 0.054 | 0.054 |
| dd-1035 | PL15*85, L = 200 mm, S355JR | | VNT. | 2 | 2.00 | 4.00 | 0.043 | 0.085 |
| dd-1037 | IPE200, L = 5600 mm, S355JR | | VNT. | 1 | 125.29 | 125.29 | 4.301 | 4.301 |
| dd-1044 | PL10*100, L = 200 mm, S355JR | | VNT. | 2 | 1.57 | 3.14 | 0.046 | 0.092 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 2 | 1.45 | 2.89 | 0.051 | 0.102 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 4.28 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 147 | - | - | 4.80 |

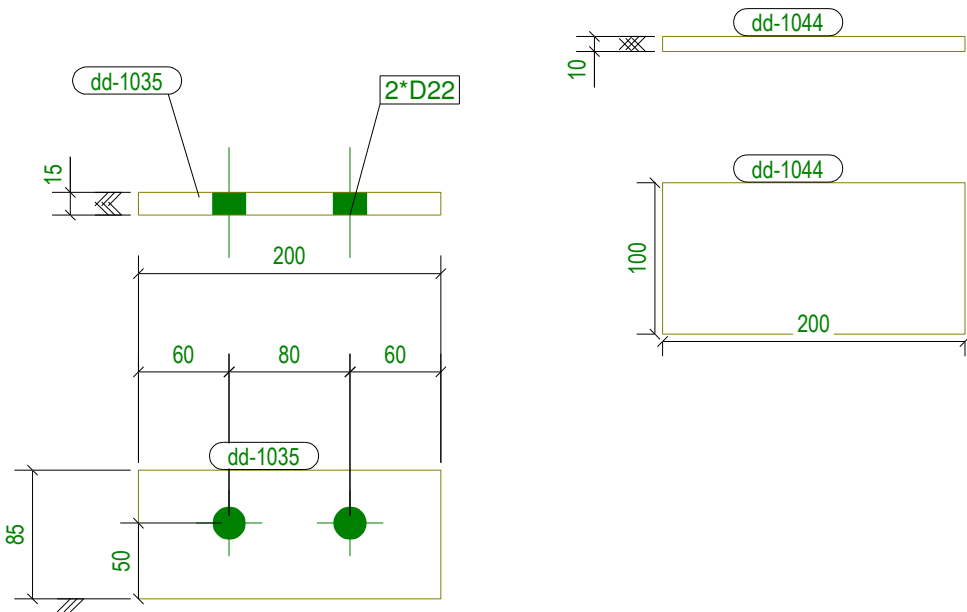
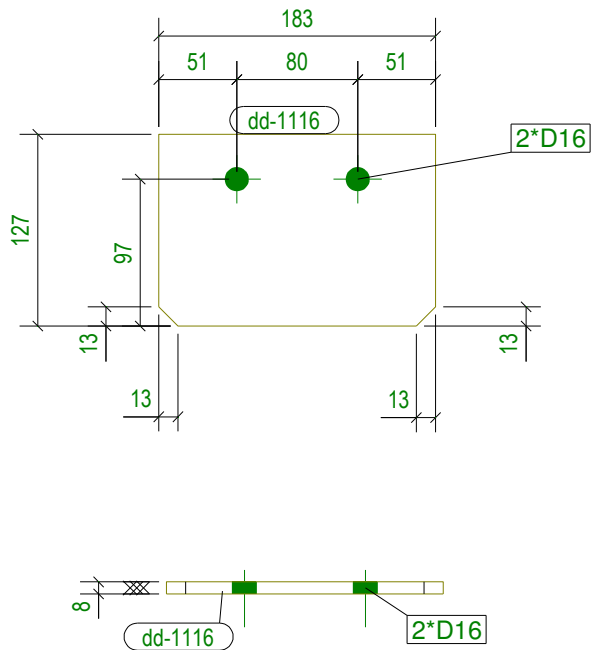
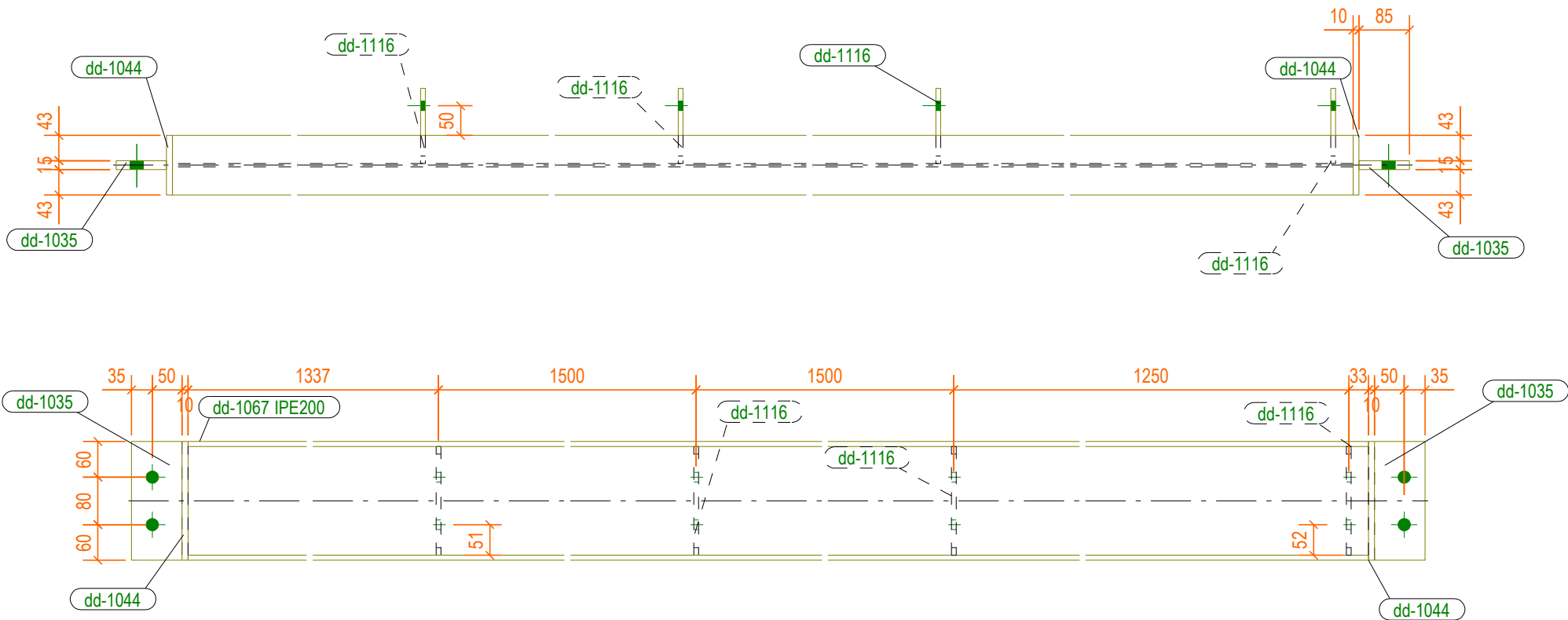


PASTABOS:

- Profilų plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo dw n mažiau nkaip 1,4 mm;
 - vielos stipris fw, u ne mažiau kaip 500N/ mm2;
 - suvirinimo padėtis žemutinė.
- Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
- Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinanciais konstrukcijų ugniai atsparumą .
- Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2*t ir ne mažiau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Sija SA-6 | | | |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B65 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

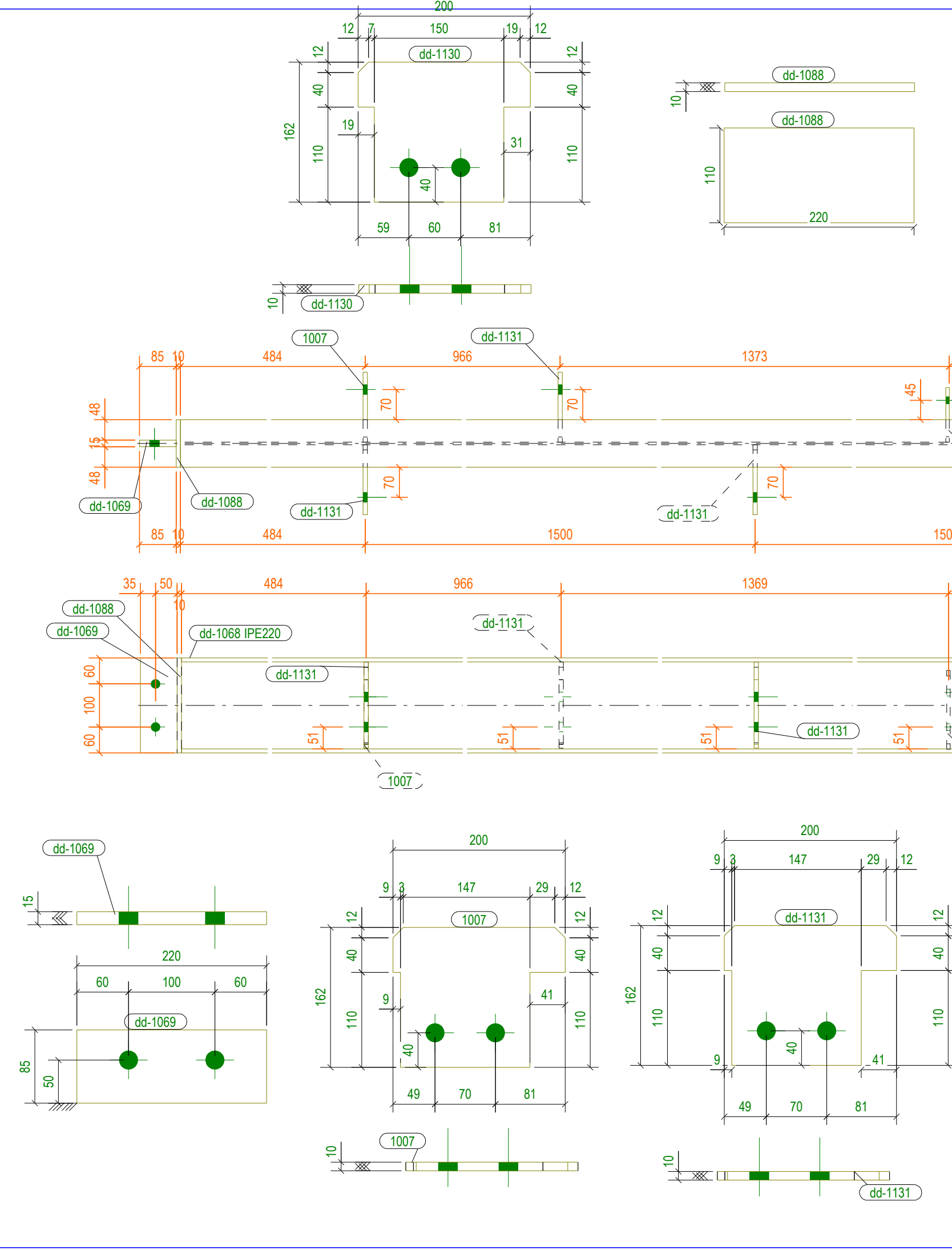
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-7 | | VNT. | 1 | 142.00 | 142.00 | 4.70 | 4.70 |
| dd-1035 | PL15*85, L = 200 mm, S355JR | | VNT. | 2 | 2.00 | 4.00 | 0.043 | 0.085 |
| dd-1044 | PL10*100, L = 200 mm, S355JR | | VNT. | 2 | 1.57 | 3.14 | 0.046 | 0.092 |
| dd-1067 | IPE200, L = 5620 mm, S355JR | | VNT. | 1 | 125.73 | 125.73 | 4.316 | 4.316 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 4 | 1.45 | 5.78 | 0.051 | 0.204 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 4.16 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 142 | - | - | 4.70 |



PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|-----|----------------|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | 19978 | PDV | R. Diškevičius | | Brezinio pavadinimas: Sija SA-7 | | | LAIDA |
| | | | | | | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B66 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |



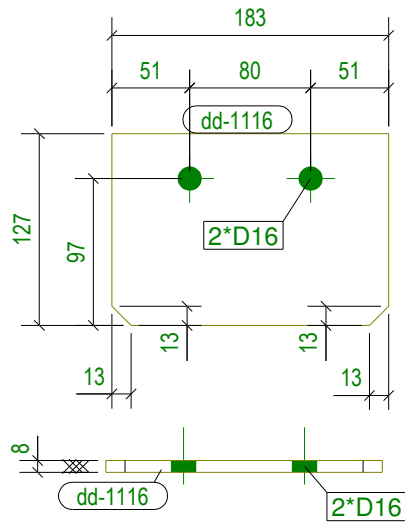
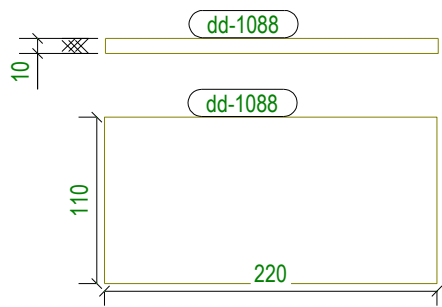
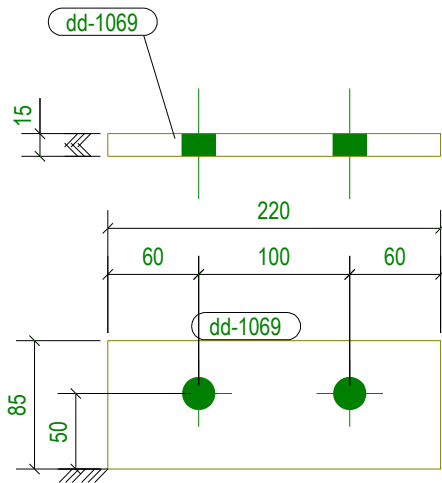
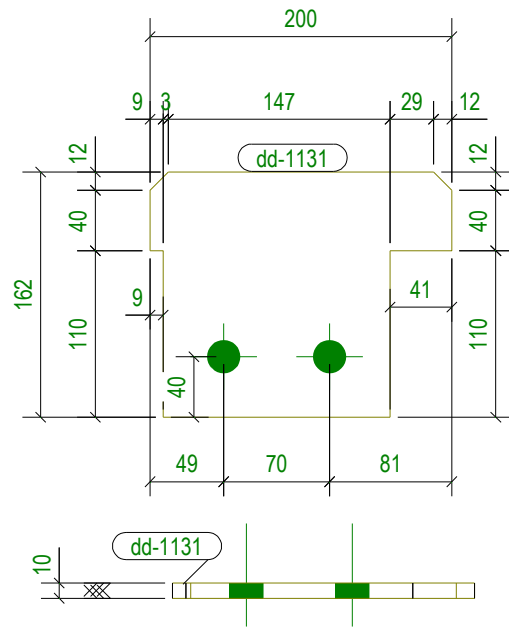
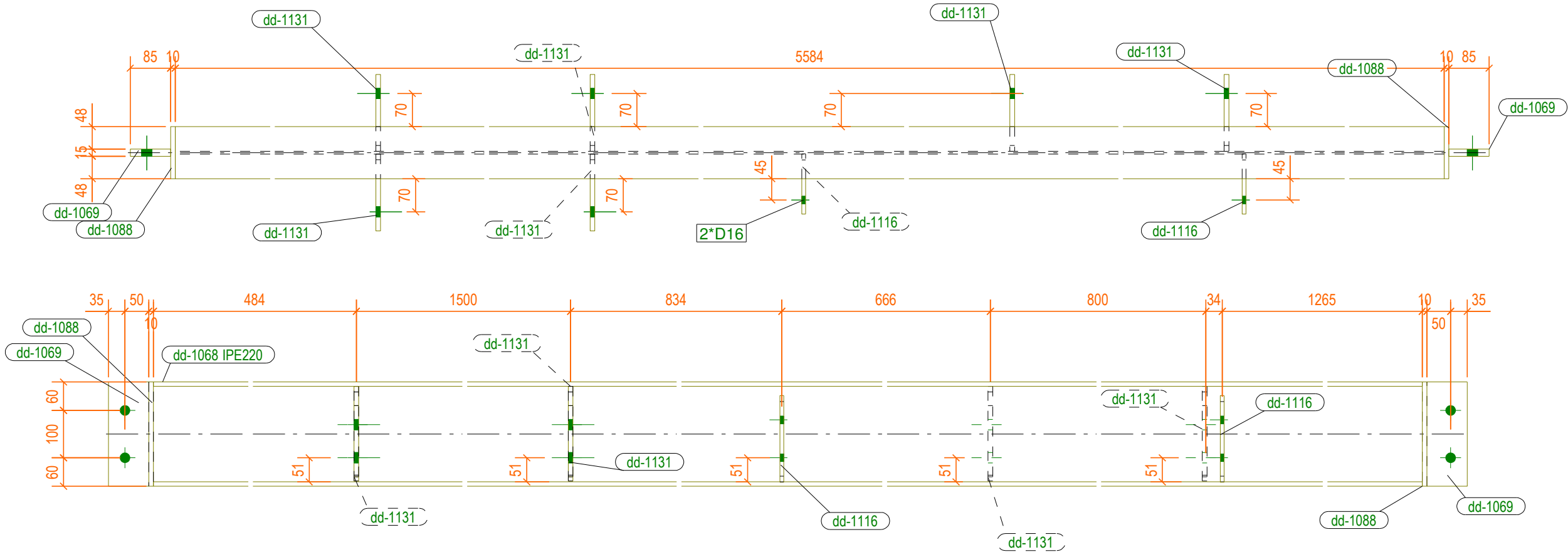
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-9 | | VNT. | 1 | 175.00 | 175.00 | 5.40 | 5.40 |
| 1007 | PL10*162, L = 199 mm, S355JR | | VNT. | 1 | 2.10 | 2.10 | 0.061 | 0.061 |
| dd-1068 | IPE220, L = 5584 mm, S355JR | | VNT. | 1 | 146.41 | 146.41 | 4.735 | 4.735 |
| dd-1069 | PL15*85, L = 220 mm, S355JR | | VNT. | 2 | 2.20 | 4.40 | 0.047 | 0.093 |
| dd-1088 | PL10*110, L = 220 mm, S355JR | | VNT. | 2 | 1.90 | 3.80 | 0.055 | 0.110 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 2 | 1.45 | 2.89 | 0.051 | 0.102 |
| dd-1130 | PL10*162, L = 199 mm, S355JR | | VNT. | 2 | 2.10 | 4.20 | 0.061 | 0.121 |
| dd-1131 | PL10*162, L = 199 mm, S355JR | | VNT. | 3 | 2.10 | 6.30 | 0.061 | 0.182 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 5.10 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 175 | - | - | 5.40 |

PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2"t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Sija SA-9 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B68 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUGYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-10 | | VNT. | 1 | 175.00 | 175.00 | 5.40 | 5.40 |
| dd-1068 | IPE220, L = 5583 mm, S355JR | | VNT. | 1 | 146.41 | 146.41 | 4.735 | 4.735 |
| dd-1069 | PL15*85, L = 220 mm, S355JR | | VNT. | 2 | 2.20 | 4.40 | 0.047 | 0.093 |
| dd-1088 | PL10*110, L = 220 mm, S355JR | | VNT. | 2 | 1.90 | 3.80 | 0.055 | 0.110 |
| dd-1116 | PL8*127, L = 183 mm, S355JR | | VNT. | 2 | 1.45 | 2.89 | 0.051 | 0.102 |
| dd-1131 | PL10*162, L = 199 mm, S355JR | | VNT. | 6 | 2.10 | 12.60 | 0.061 | 0.363 |
| SUVRINIMO SIBL/IS, 3% : | | | | | 5.10 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 175 | - | - | 5.40 |

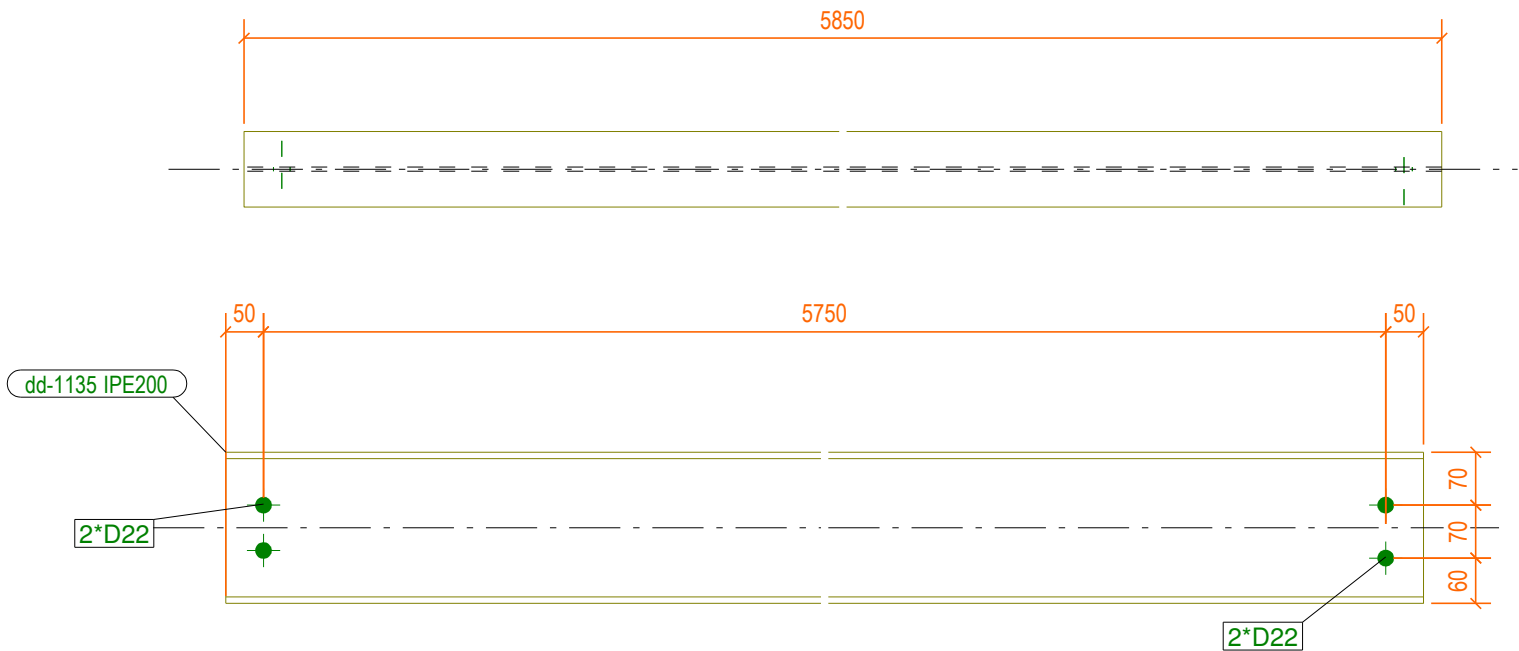


PASTABOS:

- Profilų plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w n_w mažiau kaip 1,4 mm;
 - vielos stipris f_w , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
- Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
- Metalinės konstrukcijos nedamos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
- Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2 t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamų elementų storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Sija SA-10 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B69 | | | LAPU |
| | | | | | | | | 1 |
| | | | | | | | | 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIJOYO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-11 | | VNT. | 2 | 134.00 | 268.00 | 4.49 | 8.99 |
| dd-1135 | IPE200, L = 5850 mm, S355JR | | VNT. | 1 | 130.88 | 130.88 | 4.493 | 4.493 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.93 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 134 | - | 4.49 |

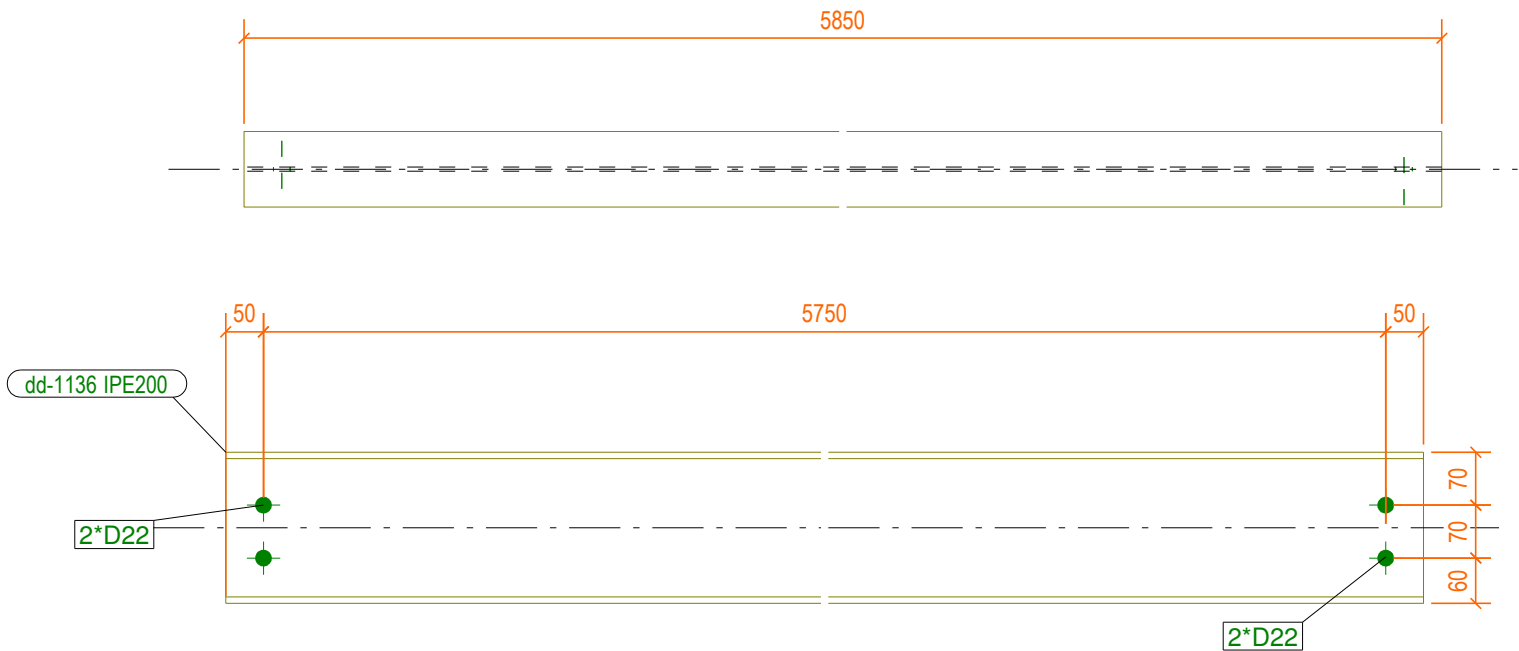


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fww, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-11 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B70 | | | LAPAS 1 | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIJOYO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-12 | | VNT. | 2 | 134.00 | 268.00 | 4.49 | 8.99 |
| dd-1136 | IPE200, L = 5850 mm, S355JR | | VNT. | 1 | 130.88 | 130.88 | 4.493 | 4.493 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.93 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 134 | - | 4.49 |

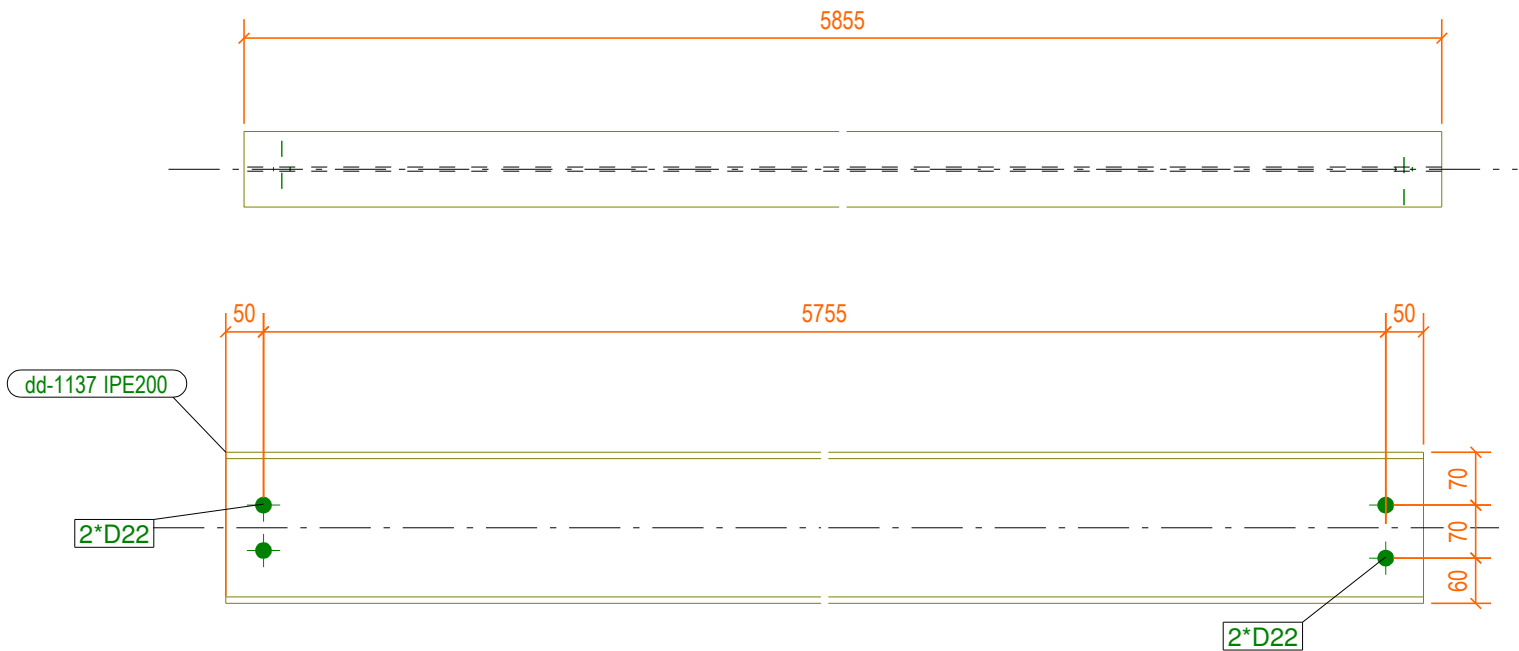


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fww, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-12 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B71 | | | LAPAS 1 | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-13 | | VNT. | 2 | 134.00 | 268.00 | 4.50 | 8.99 |
| dd-1137 | IPE200, L = 5855 mm, S355JR | | VNT. | 1 | 130.99 | 130.99 | 4.497 | 4.497 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.93 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 134 | - | 4.50 |

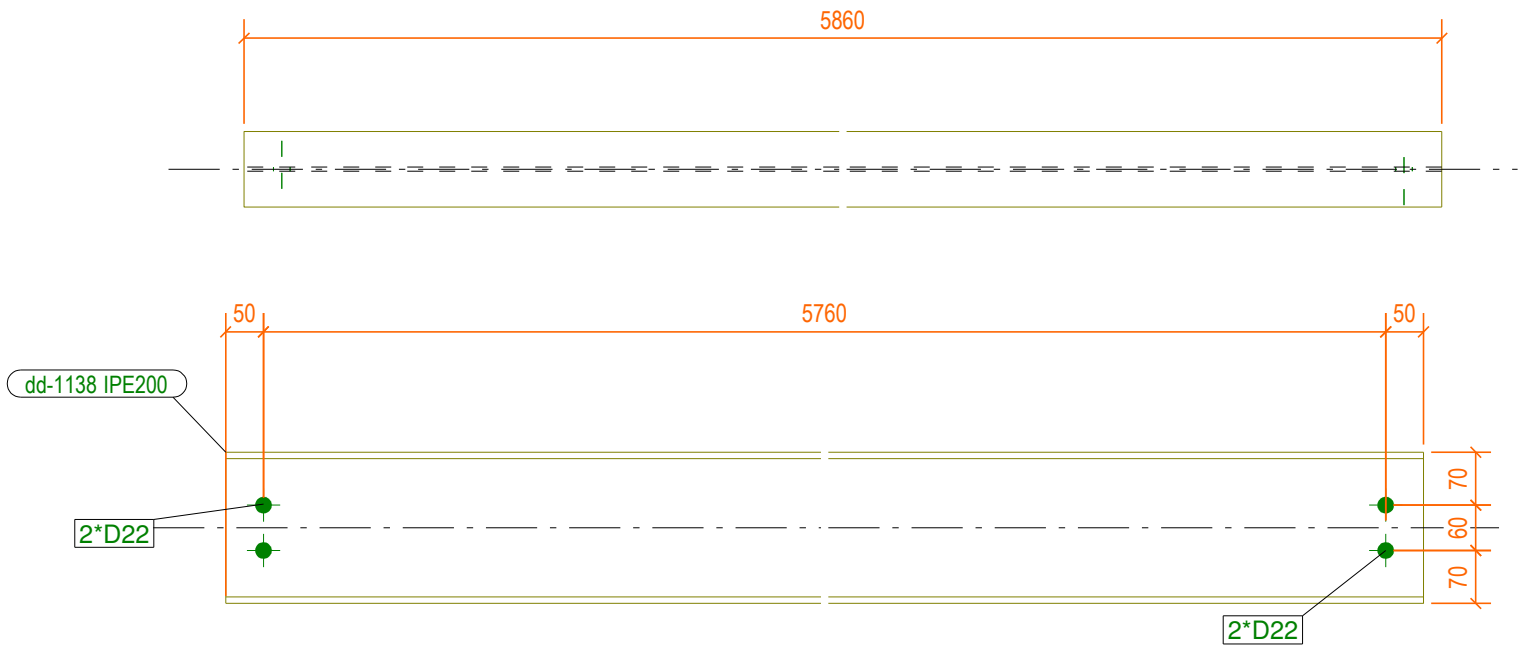


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fww, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-13 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B72 | | | LAPAS 1 | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAŽYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-14 | | VNT. | 2 | 135.00 | 270.00 | 4.50 | 9.00 |
| dd-1138 | IPE200, L = 5860 mm, S355JR | | VNT. | 1 | 131.10 | 131.10 | 4.500 | 4.500 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 3.93 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 135 | - | 4.50 |

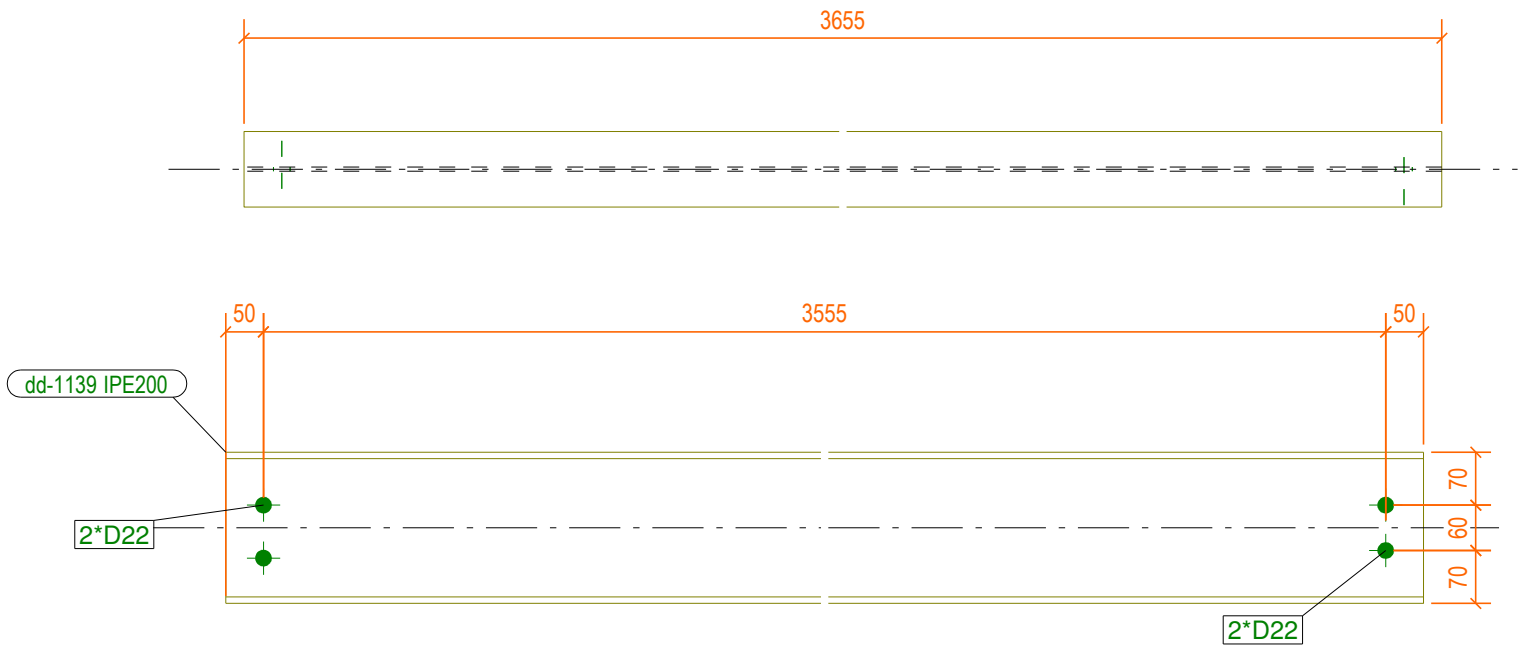


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinio budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-14 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B73 | | | LAPAS 1 | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUGYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-15 | | VNT. | 1 | 84.00 | 84.00 | 2.81 | 2.81 |
| dd-1139 | IPE200, L = 3655 mm, S355JR | | VNT. | 1 | 81.77 | 81.77 | 2.807 | 2.807 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | | 2.45 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 84 | - | 2.81 |

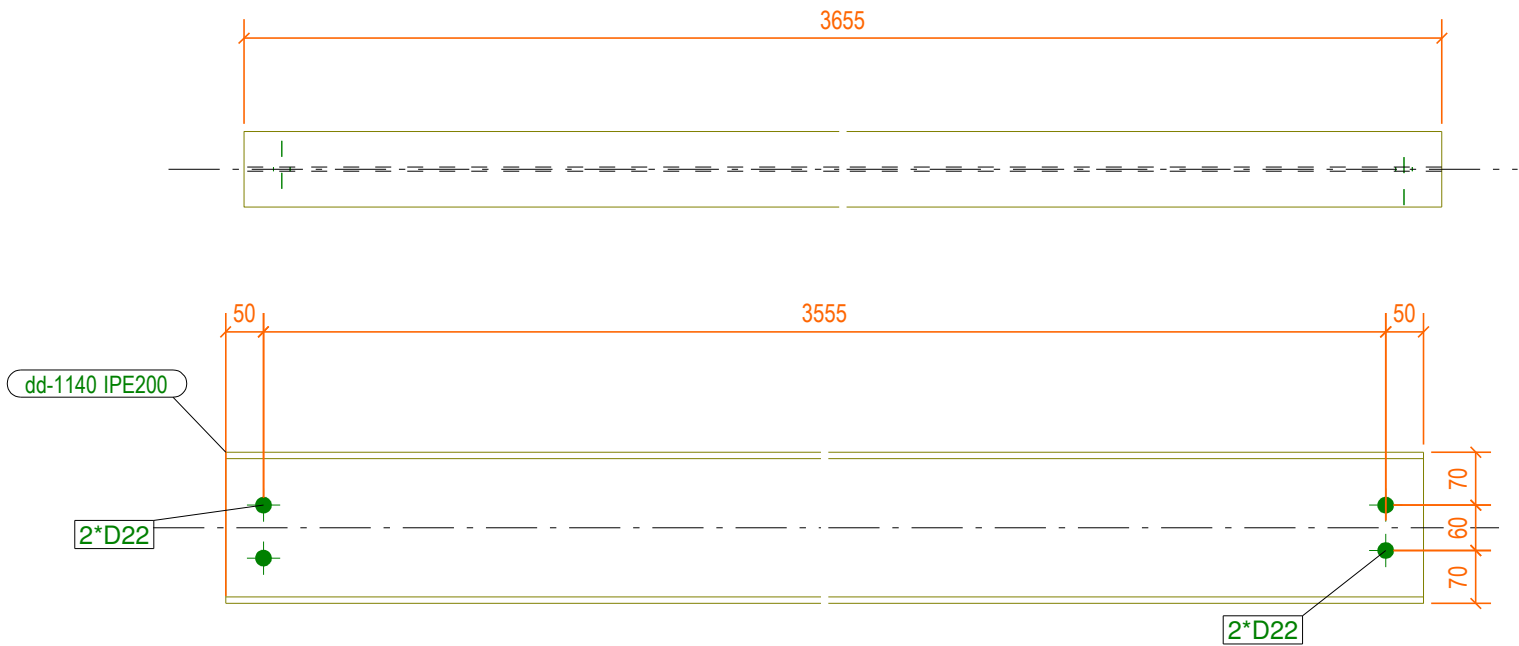


PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fww, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-15 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B74 | | | LAPAS 1 | LAPU 1 |

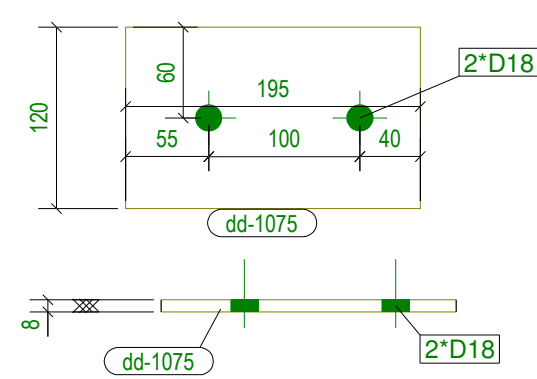
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | SA-16 | | VNT. | 1 | 84.00 | 84.00 | 2.81 | 2.81 |
| dd-1140 | IPE200, L = 3655 mm, S355JR | | VNT. | 1 | 81.77 | 81.77 | 2.807 | 2.807 |
| SUVIRINIMO SIBLIS, 3% : | | | | | | 2.45 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 84 | - | 2.81 |



PASTABOS:

- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatinu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fww, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

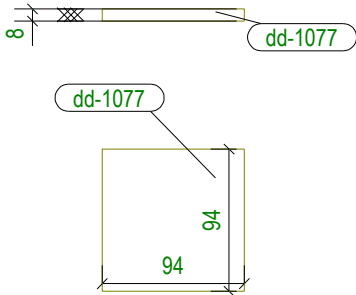
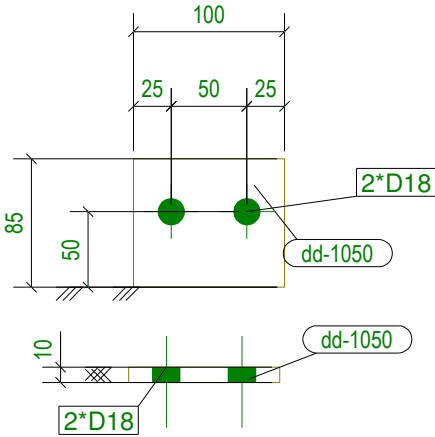
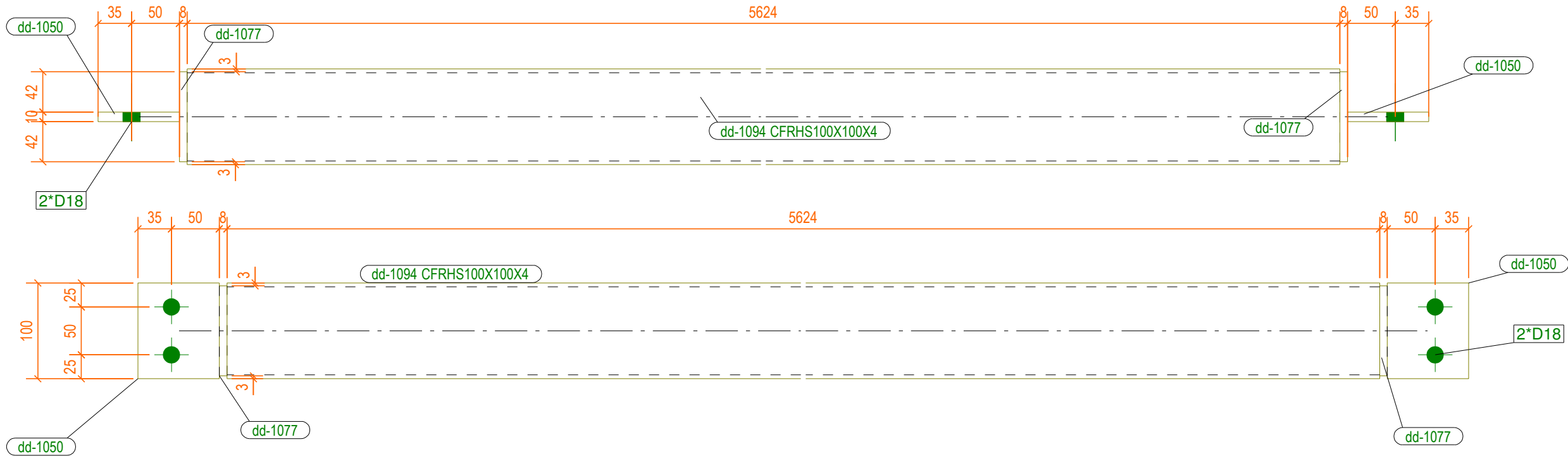
| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija SA-16 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03/2-DP-SK -B75 | | | LAPAS 1 | LAPU 1 |



Technical drawing of a rectangular plate with dimensions and a hole. The plate has a total width of 202 and a total height of 50. There is a central hole with a diameter of 100. The hole is positioned 16 units from the top and bottom edges. The distance from the left edge to the center of the hole is 16 units. The distance from the right edge to the center of the hole is 16 units. The hole is labeled '1001'.

| | | | | | | | | |
|-----------------|-----------------------------|----------------|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Sija S1-1 | | | LAIDA |
| | | | | | | | | |
| | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadus | | | | Brezinio numeris: 2020-03-2-DP-SK -B76 | | | LAPAS 1 |
| | | | | | | | | LAPU 1 |

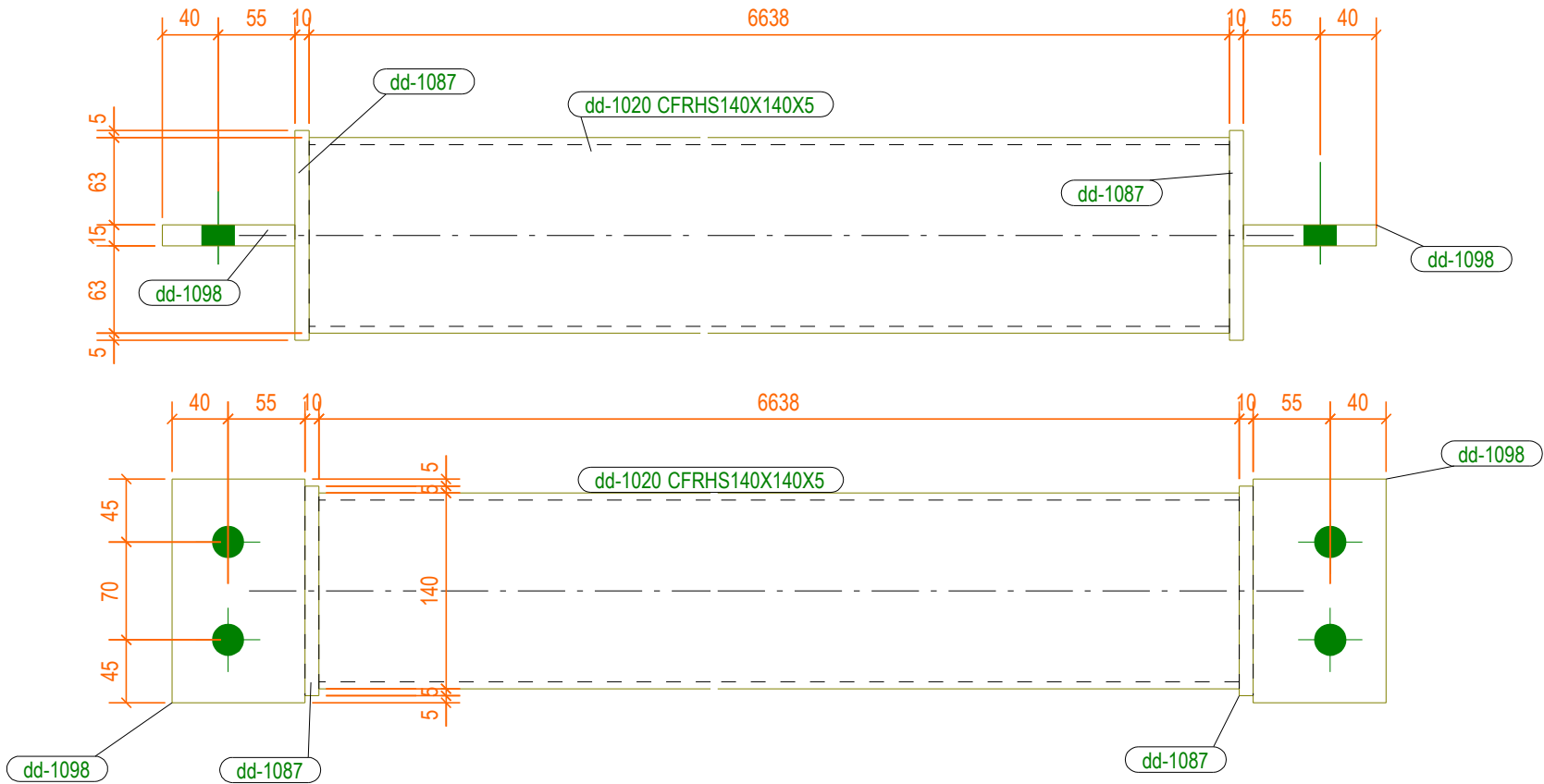
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIŲYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R1-2 | | VNT. | 1 | 70.00 | 70.00 | 2.26 | 2.26 |
| dd-1050 | PL10*85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8*94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| dd-1094 | CFRHS100X100X4, L = 5624 mm, S355JR | | VNT. | 1 | 65.99 | 65.99 | 2.173 | 2.173 |
| SUVIRINIMO SIŲLIS, 3% : | | | | | 2.05 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 70 | - | - | 2.26 |



- PASTABOS:
- Profilu plienas S355JR uvinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nuguntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

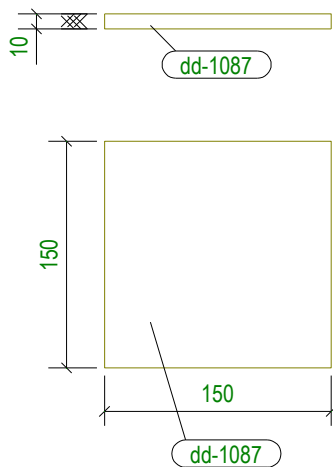
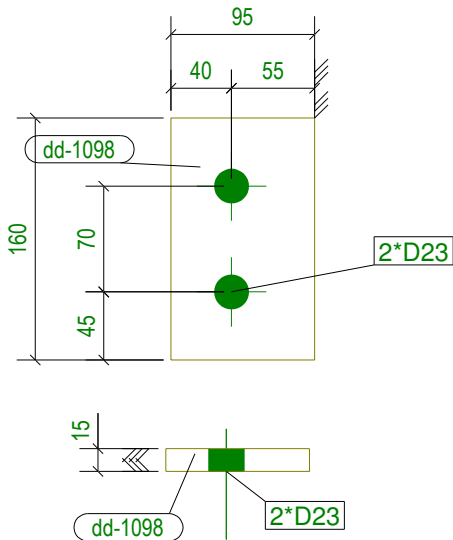
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R1-2 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B78 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUGYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-1 | | VNT. | 1 | 148.00 | 148.00 | 3.78 | 3.78 |
| dd-1020 | CFRHS140X140X5, L = 6638 mm, S355JR | | VNT. | 1 | 137.34 | 137.34 | 3.603 | 3.603 |
| dd-1087 | PL10*150, L = 149 mm, S355JR | | VNT. | 2 | 1.77 | 3.53 | 0.051 | 0.102 |
| dd-1098 | PL15*160, L = 95 mm, S355JR | | VNT. | 2 | 1.79 | 3.58 | 0.038 | 0.076 |
| SUVIRINIMO SIŪL/IS, 3% : | | | | | 4.33 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 148 | - | - | 3.78 |



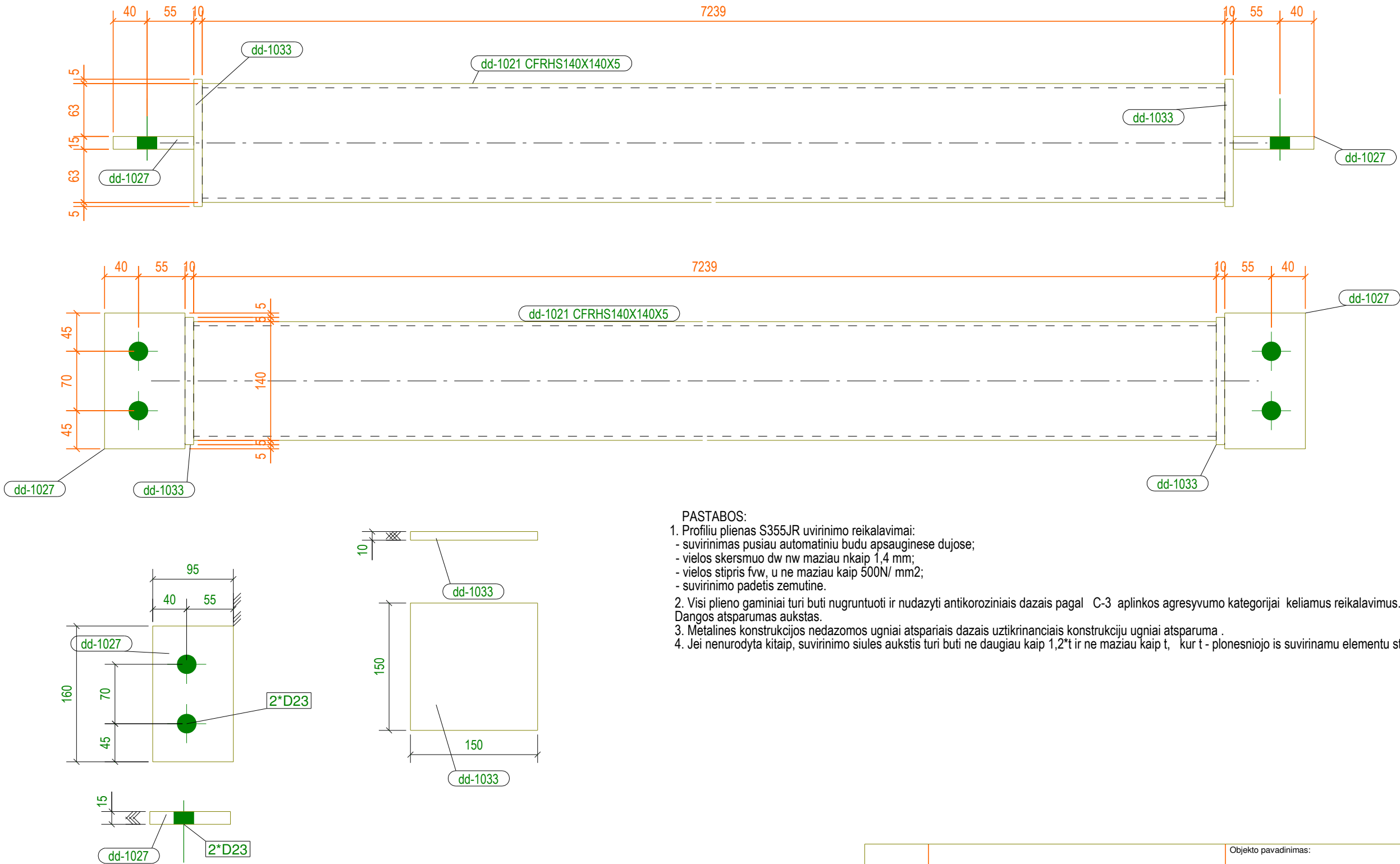
PASTABOS:

1. Profilių plienas S355JR uvirtinimo reikalavimai:
 - suvirtinimas pusiau automatiniu būdu apsauginėse dujose;
 - vielos skersmuo d_w ne mažiau kaip 1,4 mm;
 - vielos stipris f_{vw} , u ne mažiau kaip 500N/ mm²;
 - suvirtinimo padėtis žemutinė.
2. Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
3. Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
4. Jei nenurodyta kitaip, suvirtinimo siūlės aukštis turi būti ne daugiau kaip 1,2t ir ne mažiau kaip t, kur t - plonėsiojo iš suvirtinamų elementų storis.



| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-1 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B79 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-2 | | VNT. | 1 | 161.00 | 161.00 | 4.11 | 4.11 |
| dd-1021 | CFRHS140X140X5, L = 7238 mm, S355JR | | VNT. | 1 | 149.77 | 149.77 | 3.929 | 3.929 |
| dd-1027 | PL15*160, L = 94 mm, S355JR | | VNT. | 2 | 1.79 | 3.58 | 0.038 | 0.076 |
| dd-1033 | PL10*150, L = 150 mm, S355JR | | VNT. | 2 | 1.77 | 3.53 | 0.051 | 0.102 |
| SUVIRINIMO SIBLIS, 3% : | | | | | 4.71 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 161 | - | - | 4.11 |

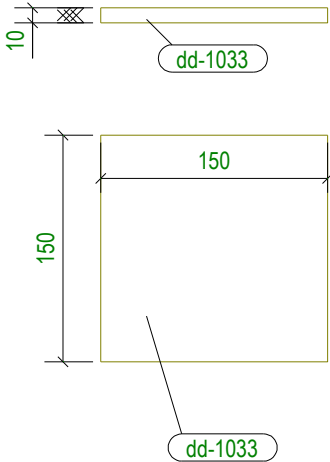
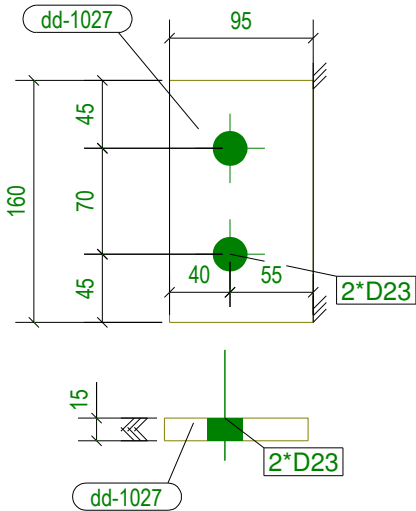
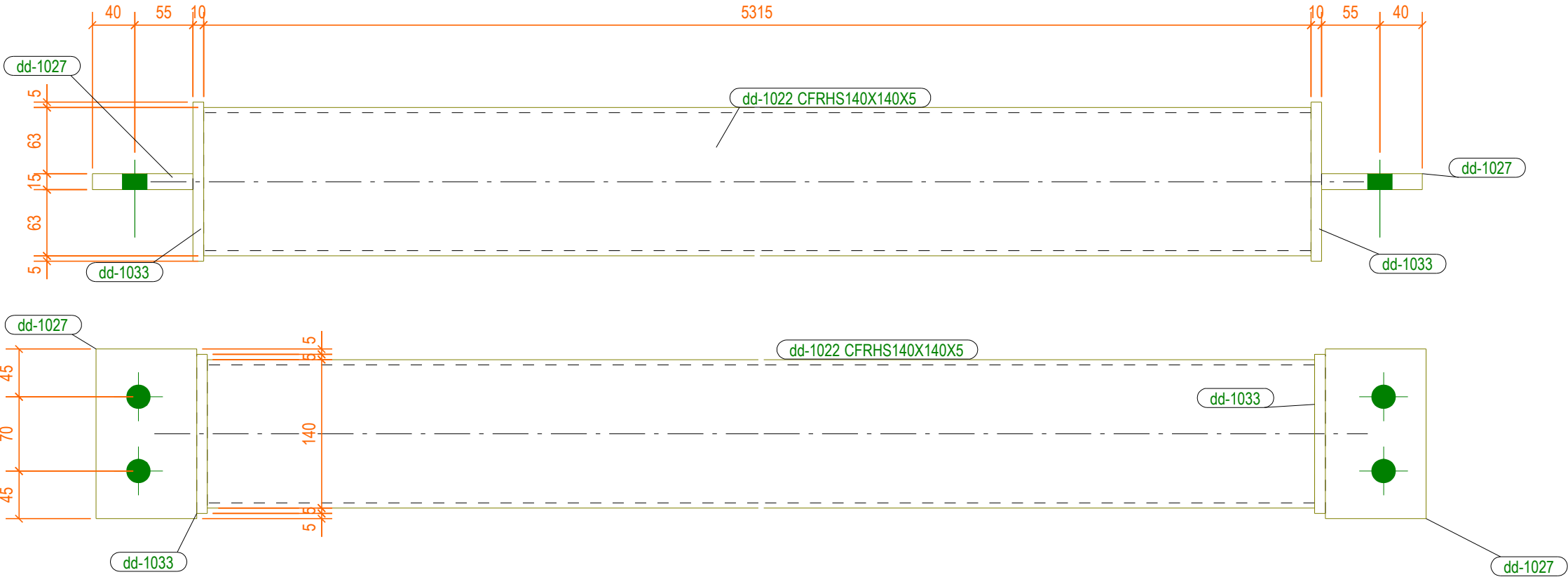


PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dzais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
- Metelines konstrukcijos nedazomos ugniai atspariais dzais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-2 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B80 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

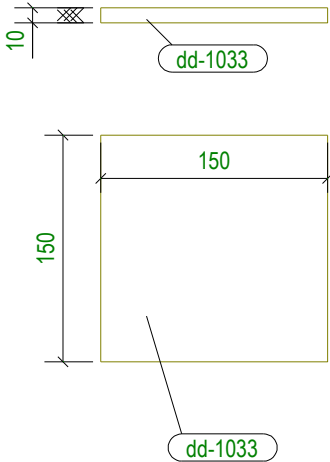
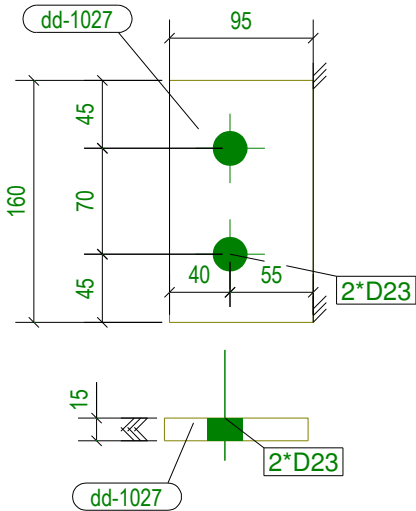
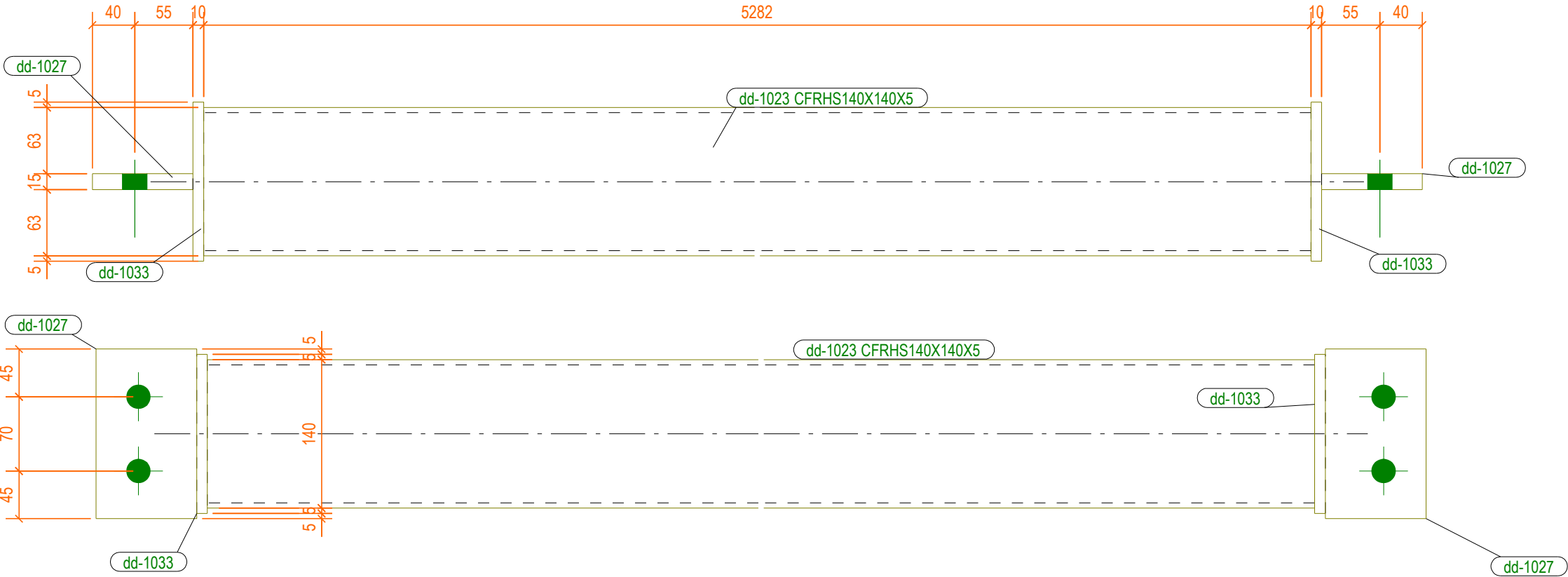
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Į, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-3 | | VNT. | 1 | 120.00 | 120.00 | 3.06 | 3.06 |
| dd-1022 | CFRHS140X140X5, L = 5315 mm, S355JR | | VNT. | 1 | 109.98 | 109.98 | 2.885 | 2.885 |
| dd-1027 | PL15*160, L = 95 mm, S355JR | | VNT. | 2 | 1.79 | 3.58 | 0.038 | 0.076 |
| dd-1033 | PL10*150, L = 150 mm, S355JR | | VNT. | 2 | 1.77 | 3.53 | 0.051 | 0.102 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | 3.51 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 120 | - | - | 3.06 |



- PASTABOS:
- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dzais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dzais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-3 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B81 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

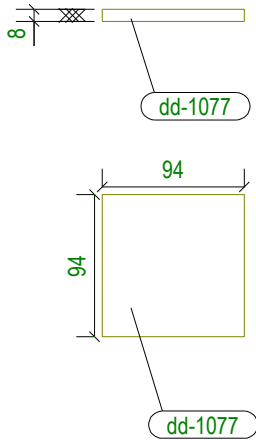
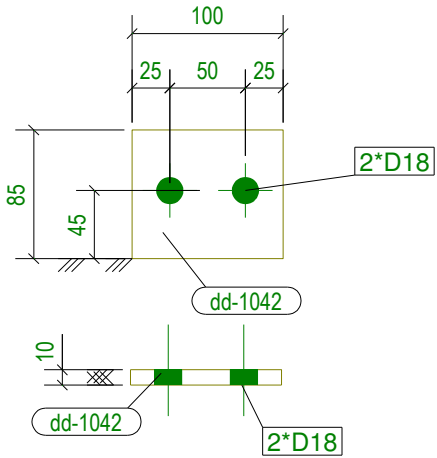
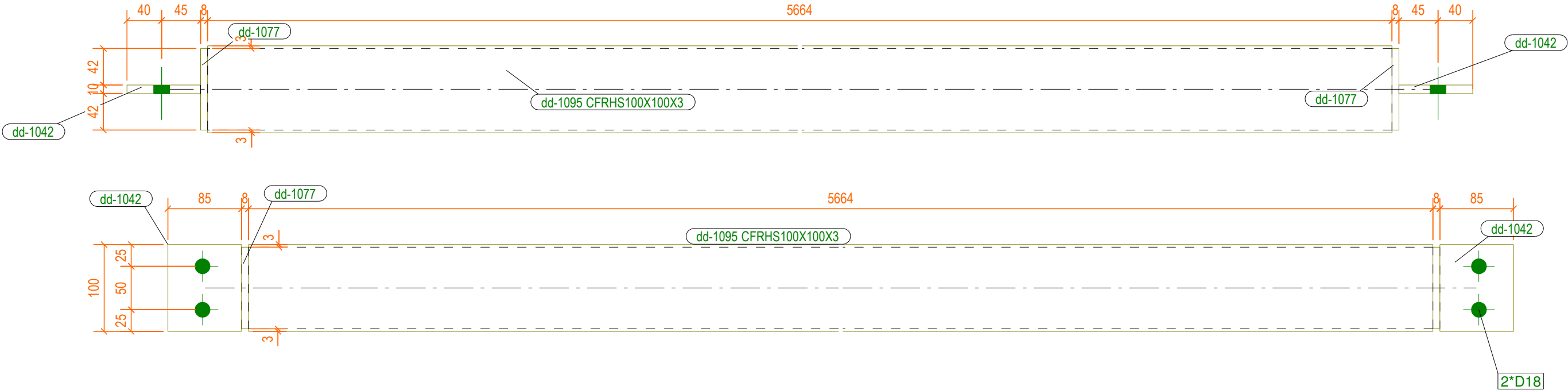
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-4 | | VNT. | 1 | 119.00 | 119.00 | 3.05 | 3.05 |
| dd-1023 | CFRHS140X140X5, L = 5281 mm, S355JR | | VNT. | 1 | 109.28 | 109.28 | 2.867 | 2.867 |
| dd-1027 | PL15*160, L = 95 mm, S355JR | | VNT. | 2 | 1.79 | 3.58 | 0.038 | 0.076 |
| dd-1033 | PL10*150, L = 150 mm, S355JR | | VNT. | 2 | 1.77 | 3.53 | 0.051 | 0.102 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | 3.49 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 119 | - | - | 3.05 |



- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-4 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B82 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNIN/IS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MAS/Ĳ, kg | | DAIŲYMO PLOTAS, m² | |
|--------------------------|--|------------|--------------|--------|-----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-7 | | VNT. | 10 | 54.00 | 540.00 | 2.29 | 22.90 |
| dd-1042 | PL10×85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8×94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| dd-1095 | CFRHS100X100X3, L = 5663 mm, S355JR | | VNT. | 1 | 50.72 | 50.72 | 2.207 | 2.207 |
| SUVIRINIMO SIŲL/IS, 3% : | | | | | | 1.60 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 54 | - | 2.29 |

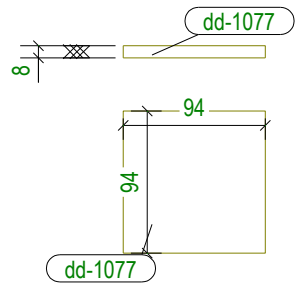
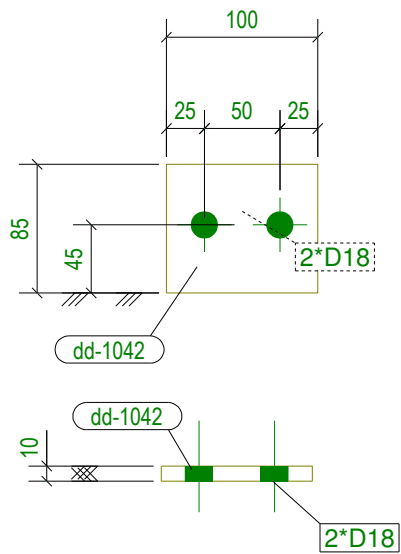
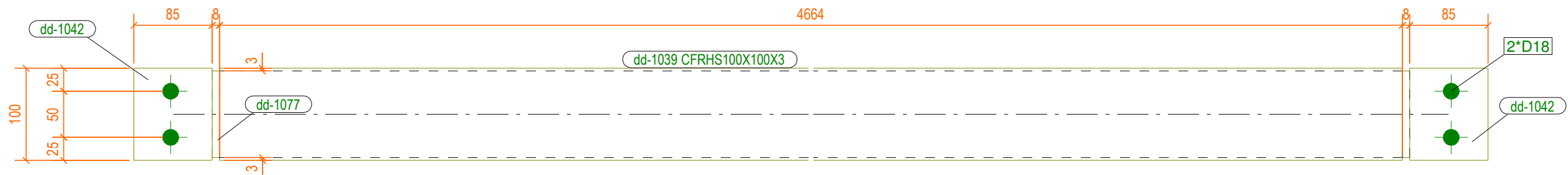
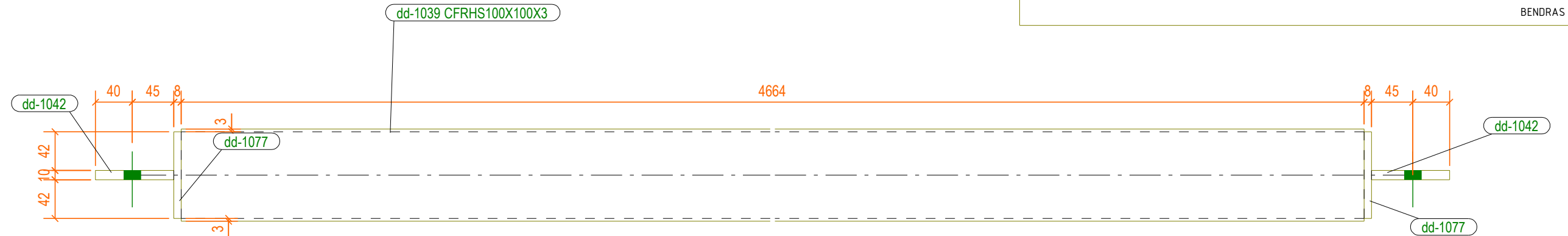


PASTABOS:

- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
- Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
- Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
- Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-7 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B84 | | | LAPAS |
| | | | | | 1 | | | LAPU |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | |

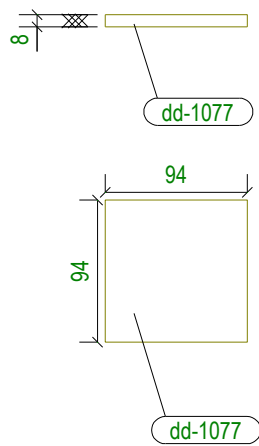
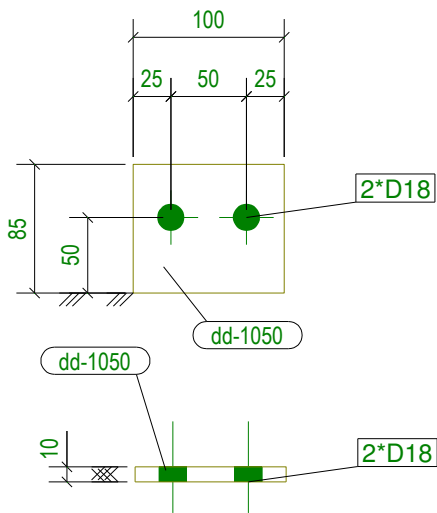
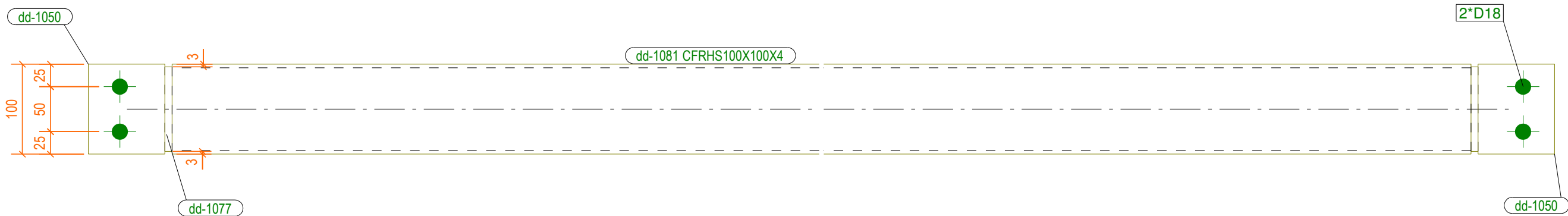
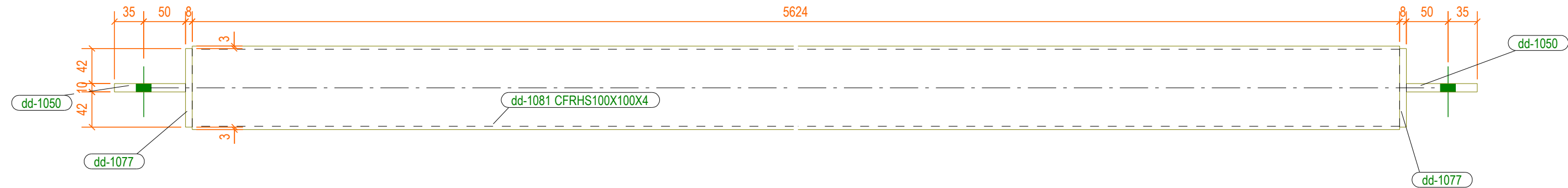
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUGYMO PLOTAS, m² | |
|---------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-9 | | VNT. | 4 | 45.00 | 180.00 | 1.90 | 7.60 |
| dd-1039 | CFRHS100X100X3, L = 4663 mm, S355JR | | VNT. | 1 | 41.77 | 41.77 | 1.818 | 1.818 |
| dd-1042 | PL10*85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8*94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| SUVIRINIMO SIBIL/IS, 3% : | | | | | 1.33 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 45 | - | - | 1.90 |



- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | |
|-----------------|--------------|----------------|--|--|--|--|---|-------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: | | | |
| | | | | | MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: | | | LAIDA |
| | | | | | Rysis R-9 | | | |
| Stadija: | Statytojas: | | | | Brezinio numeris: | | | LAPAS |
| DP | UAB Merkadas | | | | 2020-03/2-DP-SK -B85 | | | LAPU |
| | | | | | | | 1 | 1 |

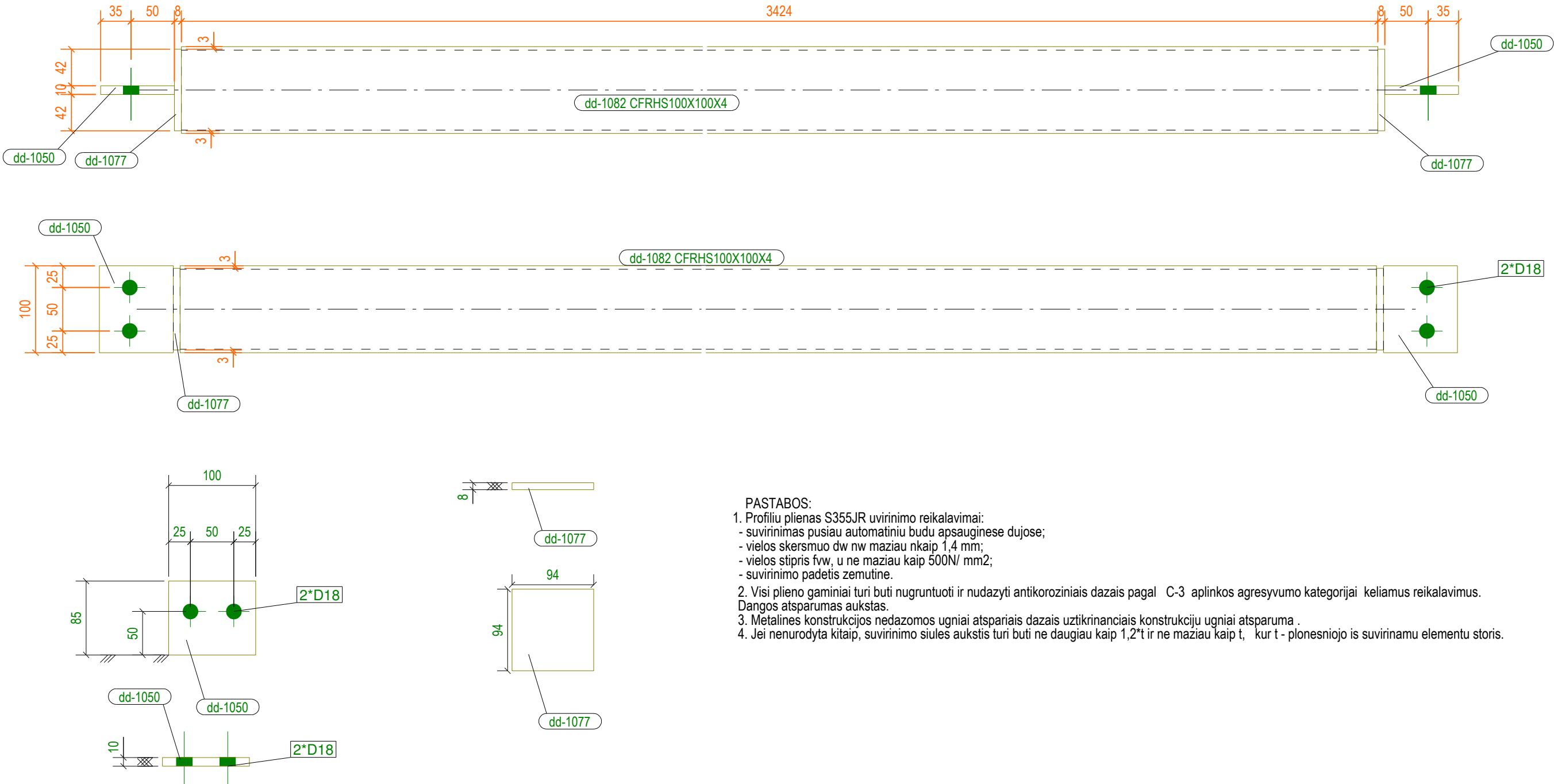
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-11 | | VNT. | 9 | 70.00 | 630.00 | 2.26 | 20.30 |
| dd-1050 | PL10*85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8*94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| dd-1081 | CFRHS100X100X4, L = 5624 mm, S355JR | | VNT. | 1 | 65.99 | 65.99 | 2.173 | 2.173 |
| SUVIRINIMO SIBLIS, 3% : | | | | | | 2.05 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 70 | - | 2.26 |



- PASTABOS:
- Profilu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

| | | | | | | | | | |
|----------------|-----------------------------|----------------|--|--|--|--|--|------------|-----------|
| ATESTATO NR. | | UAB PROJEKTA | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | | |
| 19978 | PDV | R. Diškevičius | | | Brezinio pavadinimas: Rysis R-11 | | | LAIDA | |
| | | | | | | | | | |
| | | | | | | | | | |
| Stadija: DP | Statytojas: UAB Merkadas | | | | Brezinio numeris: 2020-03/2-DP-SK -B86 | | | LAPAS 1 | LAPU 1 |

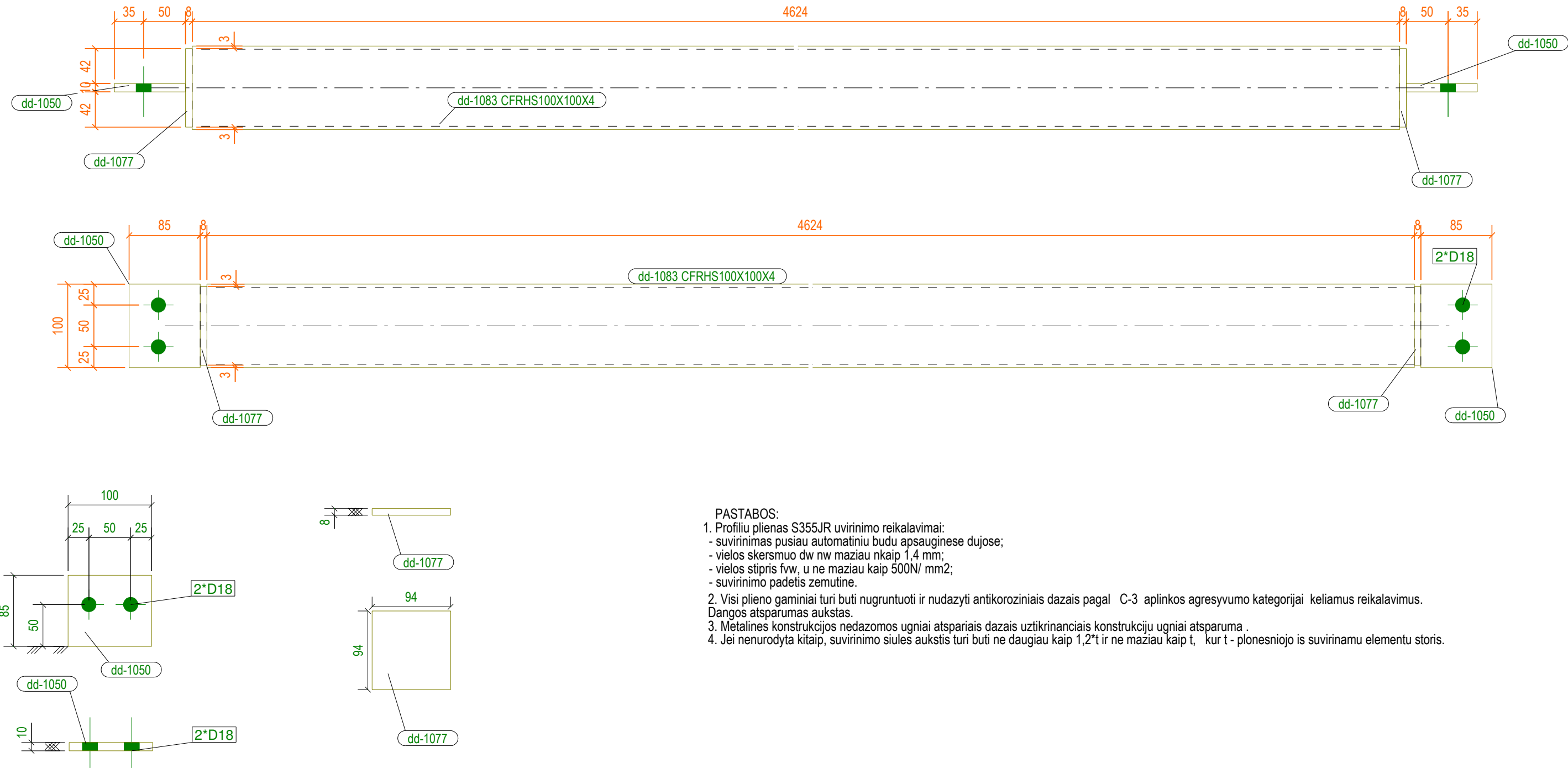
| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIŲYMO PLOTAS, m² | |
|-------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-12 | | VNT. | 2 | 43.00 | 86.00 | 1.41 | 2.81 |
| dd-1050 | PL10*85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8*94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| dd-1082 | CFRHS100X100X4, L = 3424 mm, S355JR | | VNT. | 1 | 40.18 | 40.18 | 1.323 | 1.323 |
| SUVIRINIMO SIŲLIS, 3% : | | | | | | 1.28 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 43 | - | 1.41 |



- PASTABOS:
- Profilu plienas S355JR uvirinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 - Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukstas.
 - Metelines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 - Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2*t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

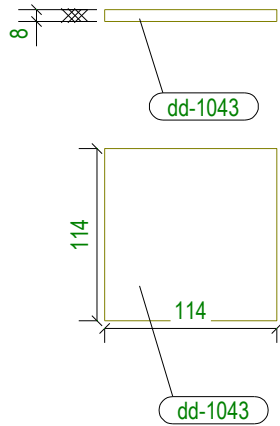
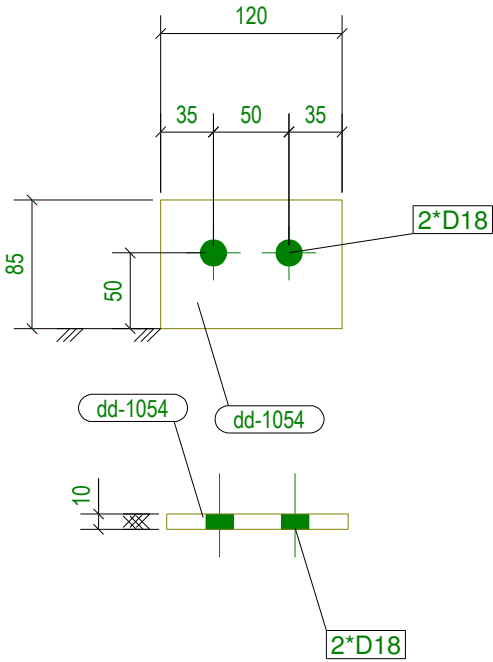
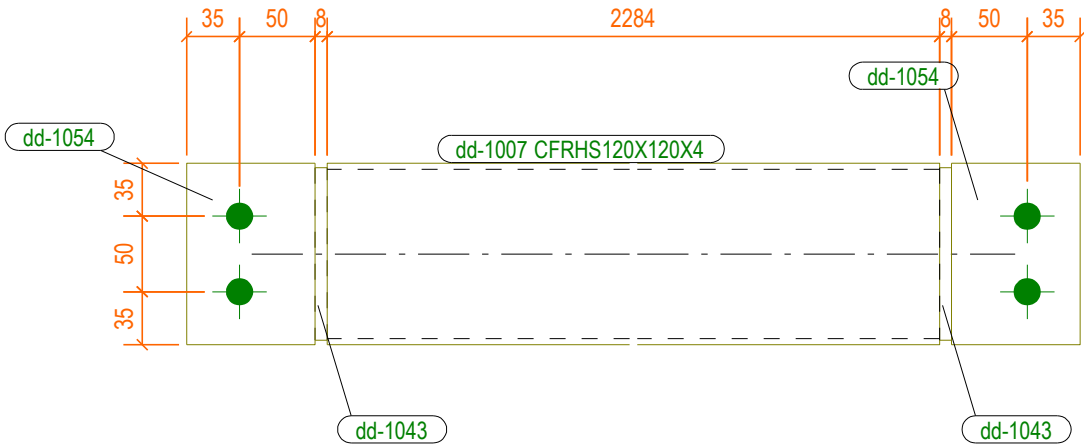
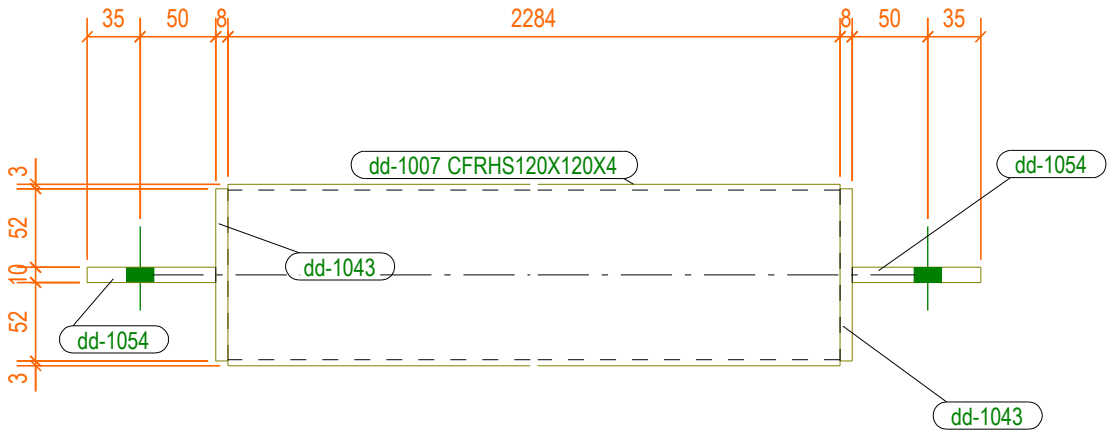
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-12 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B87 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAŽYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R-13 | | VNT. | 1 | 58.00 | 58.00 | 1.87 | 1.87 |
| dd-1050 | PL10*85, L = 100 mm, S355JR | | VNT. | 2 | 0.67 | 1.33 | 0.021 | 0.041 |
| dd-1077 | PL8*94, L = 94 mm, S355JR | | VNT. | 2 | 0.55 | 1.11 | 0.021 | 0.041 |
| dd-1083 | CFRHS100X100X4, L = 4624 mm, S355JR | | VNT. | 1 | 54.26 | 54.26 | 1.786 | 1.786 |
| SUVIRINIMO SIŪL/IS, 3% : | | | | | | 1.70 | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | | 58 | - | 1.87 |



- PASTABOS:
- Profilų plienas S355JR uvirtinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w n_w mažiau kaip 1,4 mm;
 - vielos stipris f_{vw} , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
 - Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
 - Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
 - Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2t ir ne mažiau kaip t, kur t - plonesniojo iš suvirinamų elementų storis.

| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R-13 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B88 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

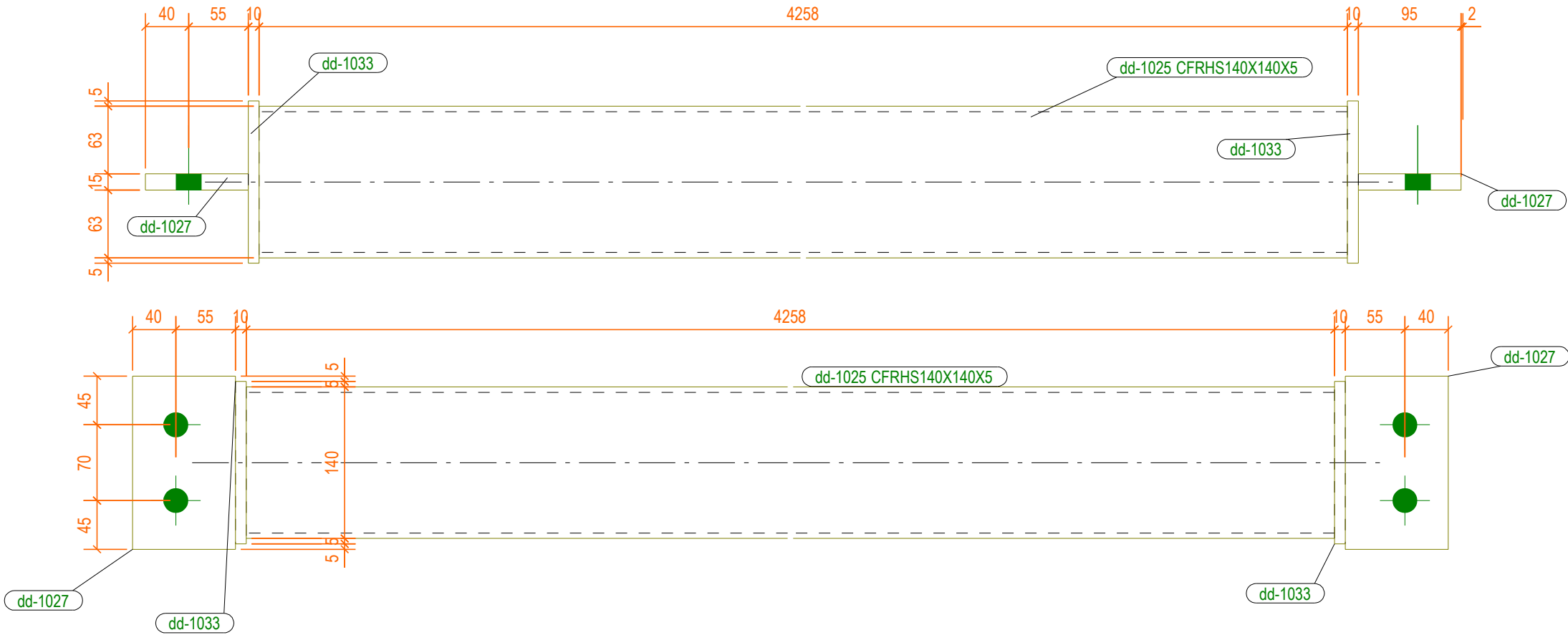


| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASI, kg | | DAIYMO PLOTAS, m² | |
|--------------------------|---|------------|--------------|--------|----------|-------------|-------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R3-1 | | VNT. | 2 | 36.00 | 72.00 | 1.17 | 2.35 |
| dd-1007 | CFRHS120X120X4, L = 2284 mm, S355JR | | VNT. | 1 | 32.54 | 32.54 | 1.065 | 1.065 |
| dd-1043 | PL8*114, L = 114 mm, S355JR | | VNT. | 2 | 0.82 | 1.63 | 0.030 | 0.059 |
| dd-1054 | PL10*85, L = 120 mm, S355JR | | VNT. | 2 | 0.80 | 1.60 | 0.025 | 0.049 |
| SUVIRINIMO SIBL/IS, 3% : | | | | | 1.07 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 36 | - | - | 1.17 |

- PASTABOS:
1. Profiliu plienas S355JR uvrinimo reikalavimai:
 - suvirinimas pusiau automatiniu budu apsauginese dujose;
 - vielos skersmuo dw nw maziau nkaip 1,4 mm;
 - vielos stipris fvw, u ne maziau kaip 500N/ mm2;
 - suvirinimo padetis zemutine.
 2. Visi plieno gaminiai turi buti nugruntuoti ir nudazyti antikoroziniais dazais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus.
 3. Metalines konstrukcijos nedazomos ugniai atspariais dazais uztikrinanciais konstrukciju ugniai atsparuma .
 4. Jei nenurodyta kitaip, suvirinimo siules aukstis turi buti ne daugiau kaip 1,2t ir ne maziau kaip t, kur t - plonesniojo is suvirinamu elementu storis.

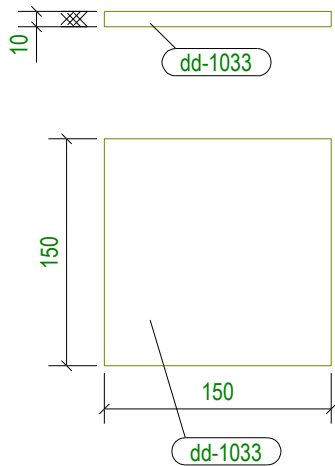
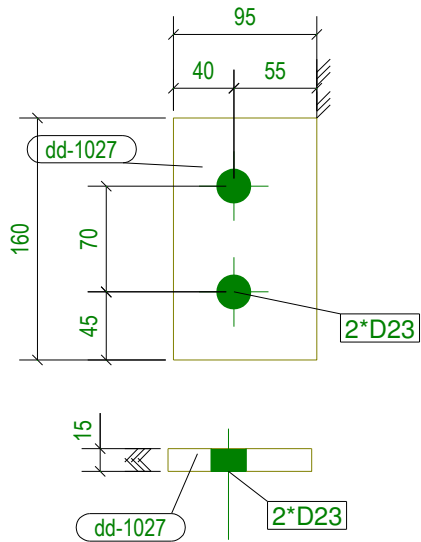
| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|---|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statyubos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R3-1 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B90 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

| POZICIJA EIL. NR | PAVADINIMAS IR TECHNINIS CHARAKTERISTIKOS | STANDARTAS | MATO VNT. | KIEKIS | MASĖ, kg | | DAUŽYMO PLOTAS, m² | |
|------------------------|---|------------|--------------|--------|----------|-------------|--------------------|-------------|
| | | | | | VIENETO | VISO KIEKIO | VIENETO | VISO KIEKIO |
| | R4-1 | | VNT. | 1 | 98.00 | 98.00 | 2.49 | 2.49 |
| dd-1025 | CFRHS140X140X5, L = 4257 mm, S355JR | | VNT. | 1 | 88.09 | 88.09 | 2.311 | 2.311 |
| dd-1027 | PL15*160, L = 95 mm, S355JR | | VNT. | 2 | 1.79 | 3.58 | 0.038 | 0.076 |
| dd-1033 | PL10*150, L = 149 mm, S355JR | | VNT. | 2 | 1.77 | 3.53 | 0.051 | 0.102 |
| SUVIRINIMO SIŪLŲ, 3% : | | | | | 2.86 | - | - | - |
| BENDRAS SVORIS/PLOTAS: | | | | | 98 | - | - | 2.49 |



PASTABOS:

- Profilų plienas S355JR uvirtinimo reikalavimai:
 - suvirinimas pusiau automatinio būdu apsauginėse dujose;
 - vielos skersmuo d_w n_k mažiau kaip 1,4 mm;
 - vielos stipris f_w , u ne mažiau kaip 500N/ mm²;
 - suvirinimo padėtis žemutinė.
- Visi plieno gaminiai turi būti nugruntuoti ir nudazyti antikoroziniais dažais pagal C-3 aplinkos agresyvumo kategorijai keliamus reikalavimus. Dangos atsparumas aukštas.
- Metalinės konstrukcijos nedazomos ugniai atspariais dažais užtikrinančiais konstrukcijų ugniai atsparumą.
- Jei nenurodyta kitaip, suvirinimo siūlės aukštis turi būti ne daugiau kaip 1,2t ir ne mažiau kaip t, kur t - plonėsiojo iš suvirinamų elementų storis.



| | | | | | | | | |
|-----------------|-----------------------------|--|--|--|--|--|--|------------|
| ATESTATO NR. | UAB PROJEKTA | | | | Objekto pavadinimas: MTEP Technologinio centro Moletur. sav., Joniskis, Statybos projektas | | | |
| | | | | | Brezinio pavadinimas: Rysis R4-1 | | | LAIDA |
| | | | | | Brezinio numeris: 2020-03/2-DP-SK -B91 | | | LAPAS 1 |
| Stadija: DP | Statytojas: UAB Merkadas | | | | | | | LAPU 1 |

Priedas Nr.1 prie projektavimo darbų sutarties Nr.2021-08/1

Projektavimo reikalavimai ir darbų apimtis

Statinio Projekto konstrukcijų dalis turi būti parengta laikantis Lietuvos Respublikos Statybos įstatymo, organizacinio tvarkomojo statybos techninio reglamento STR 1.05.06:2005 "Statinio projektavimas", bei kitų teisės norminių aktų reikalavimus.

Projektavimo užduotis:


1. Pagal pateikta architektūrinės dalies projektą suprojektuoti pastato statybines konstrukcijas .
2. Projektuojamos pastato konstrukcijos
 - 2.1. Pamatai -*poliniai;*
 - 2.2. Laikančios konstrukcijos -*metalinės kolonos, metalinės sojos, z tipo ilginiai;*
 - 2.3. Pertvaros -*„sandvic“ plokštės, gipso kartono pertavaros (administracinė dalis);*
 - 2.4. Stogo konstrukcija, stogo danga -*„sandvic“ plokštės;*
 - 2.5. Langai -*plastikiniai;*
 - 2.6. Fasado apdaila -*„sandvic“ plokštės.*
 - 2.7 Energetinė klasė A+
 - 2.8 Grindų plokštė *Projektuoti grindų plokštę save laikančią (charakteristinės apkrovos 3kPa, sandėlio 10kPa)*
 - 2.9 Projektavimo normos *Apkrovos ir metalinės konstrukcijos pagal EN Pamatai , rostverkai , plokštės EN arba STR*

STATYTOJAS :

Tvirtinu: UAB "Mercadus"



Statinio projekto vadovas A 1997 L.Blauzdavičius

| UŽSAKOVAS: | VYKDYTOJAS: |
|--|--|
| UAB "MaRichi homes" Įmonės kodas 305256412 PVM kodas LT100012720018 A/s Biuro adresas: Olandų g. 10A-5, LT-01100 Vilnius Tel.: 8 655 34212 El.p.: Direktorius Raimundas Kareckas _____ (parašas) A.V. | UAB "PROJEKTA" Įmonės kodas 300512384 AB bankas „Swedbank“ A/s LT62 7300 0100 9264 6453 Biuro adresas: S. Neries g. 7, Vilnius Mob.tel.:8 600 26922 El.p.: info@projekta.lt Dirtektorius Renaldas Diškevičius  |

KONSTRUKCIJŲ SKAIČIAVIMAI

MTEP TECHNOLOGINIO CENTRO MOLĖTŲ R. SAV. JONIŠKIS

Ivadas

Skaičiavimai atliekami MTEP Technologinio centro Molėtų r. sav. Joniškis Statybos projektui.

Skaičiavimo rezultatai atitinka projekto rengimo dokumentų reikalavimus, normatyvinių statybos dokumentų reikalavimus. Konstrukcinių elementų ir jų jungčių laikomosios galios išnaudojimas atitinka normatyvinių statybos dokumentų reikalavimus.

Projektavimo normos

EN1991-1-3/4:2005 Apkrovos (sniegas / vejas)

EN 1993-1-8:2005/A1:2009 Metalų konstrukcijos

EN 1992-1-1:2004/AC:2008 Betoninės konstrukcijos

Apkrovos

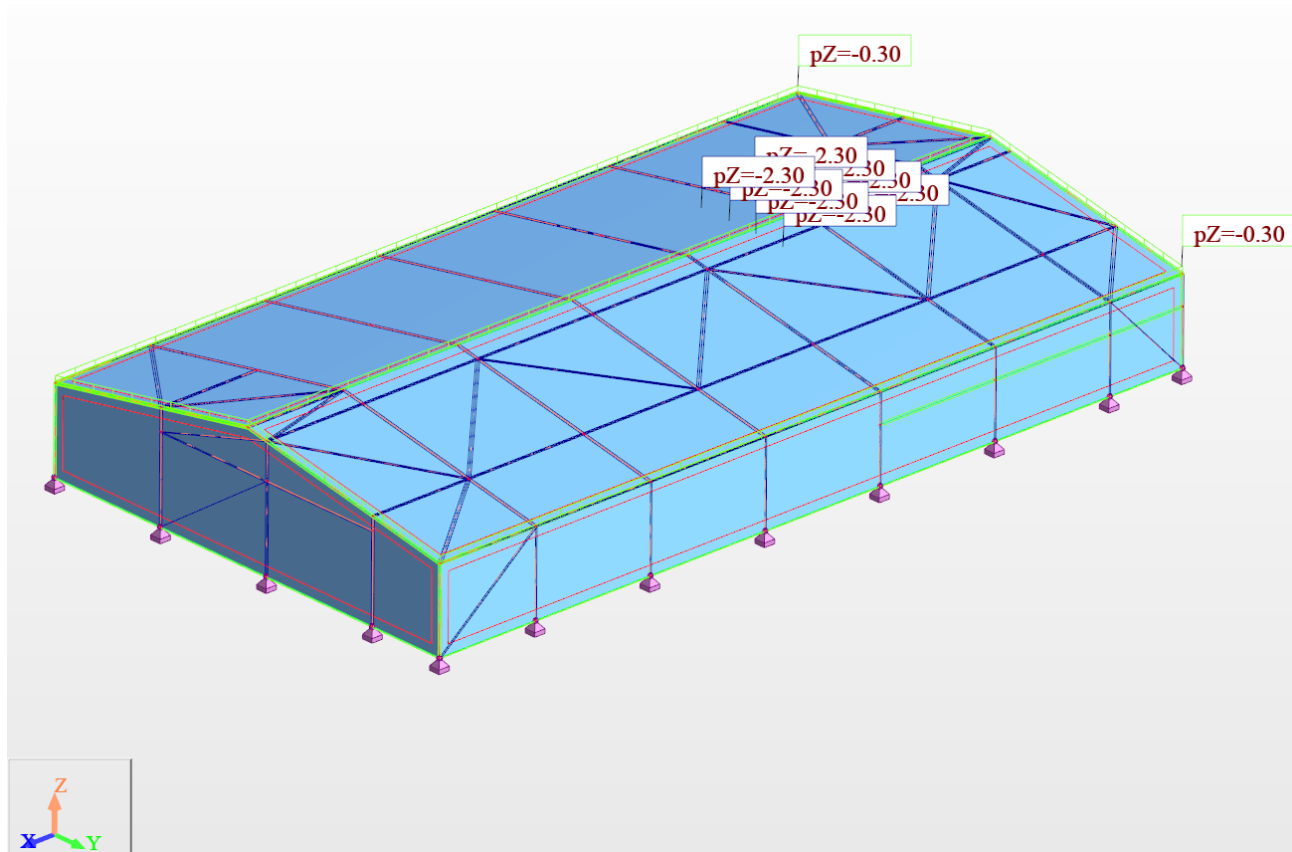
1. Pastovi apkrova, savasis svoris DL1, (1 pav.);
2. Laikina apkrova LL1, (2 pav.);
3. Sniego apkrova SN ($1,60 \cdot 0,8 = 1,28$ kPa), (3 pav.);
4. Vejo apkrova X+ kryptimi 24m/s (4 pav.);
5. Vejo apkrova Y+ kryptimi 24m/s (5 pav.);
6. Vejo apkrova X- kryptimi 24m/s (6 pav.);
7. Vejo apkrova Y- kryptimi 24m/s (7 pav.);

1 Table. Apkrovų kombinacijos

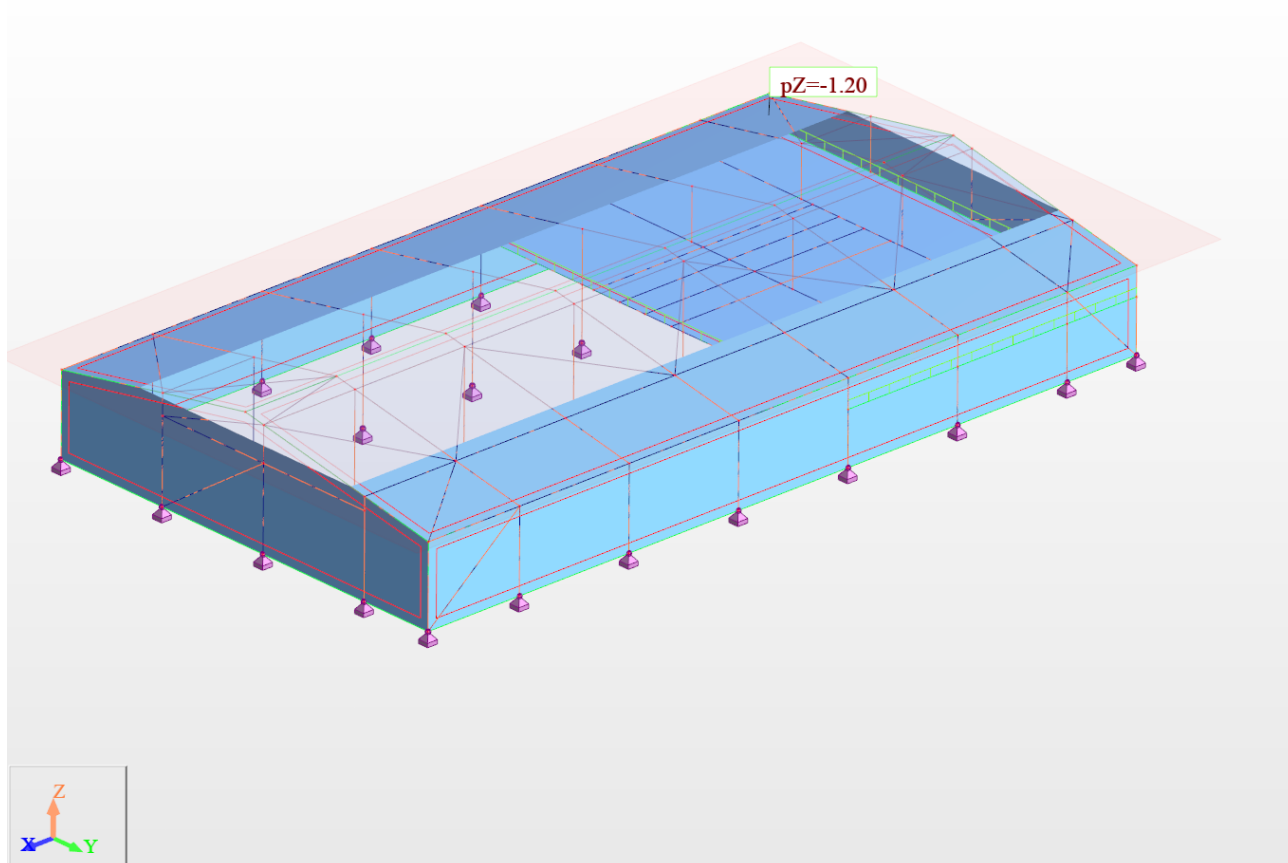
| Combination s | Name | Analysis type | Combination | Case nature | Definition |
|------------------|--------|---------------|-------------|-------------|--|
| 9 (C) | COMB1 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35$ |
| 10 (C) | COMB2 | Линейное соче | ПС1 | Structural | $(1+2) \cdot 1.35$ |
| 11 (C) | COMB3 | Линейное соче | ПС1 | Structural | $(1+2) \cdot 1.35 + 3 \cdot 0.90$ |
| 12 (C) | COMB4 | Линейное соче | ПС1 | Structural | $(1+2) \cdot 1.35 + (3+4) \cdot 0.90$ |
| 13 (C) | COMB5 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 2 \cdot 1.30 + (3+5) \cdot 0.90$ |
| 14 (C) | COMB6 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 2 \cdot 1.30 + (3+6) \cdot 0.90$ |
| 15 (C) | COMB7 | Линейное соче | ПС1 | Structural | $(1+2) \cdot 1.35 + (3+7) \cdot 0.90$ |
| 16 (C) | COMB8 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 4 \cdot 1.30$ |
| 17 (C) | COMB9 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 5 \cdot 1.30$ |
| 18 (C) | COMB10 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 6 \cdot 1.30$ |
| 19 (C) | COMB11 | Линейное соче | ПС1 | Structural | $1 \cdot 1.35 + 7 \cdot 1.30$ |
| 20 (C) | COMB12 | Линейное соче | ПС2 | Structural | $(1+2+3+4) \cdot 1.00$ |
| 21 (C) | COMB13 | Линейное соче | ПС2 | Structural | $(1+2+3+5) \cdot 1.00$ |
| 22 (C) | COMB14 | Линейное соче | ПС2 | Structural | $(1+2+3+6) \cdot 1.00$ |
| 23 (C) | COMB15 | Линейное соче | ПС2 | Structural | $(1+2+3+7) \cdot 1.00$ |
| 24 (C) | COMB16 | Линейное соче | ПС2 | Structural | $(1+4) \cdot 1.00$ |
| 25 (C) | COMB17 | Линейное соче | ПС2 | Structural | $(1+5) \cdot 1.00$ |
| 26 (C) | COMB18 | Линейное соче | ПС2 | Structural | $(1+6) \cdot 1.00$ |
| 27 (C) | COMB19 | Линейное соче | ПС2 | Structural | $(1+7) \cdot 1.00$ |

Pastabos: ULS – I ribinis būvis; SLS – II ribinis būvis.

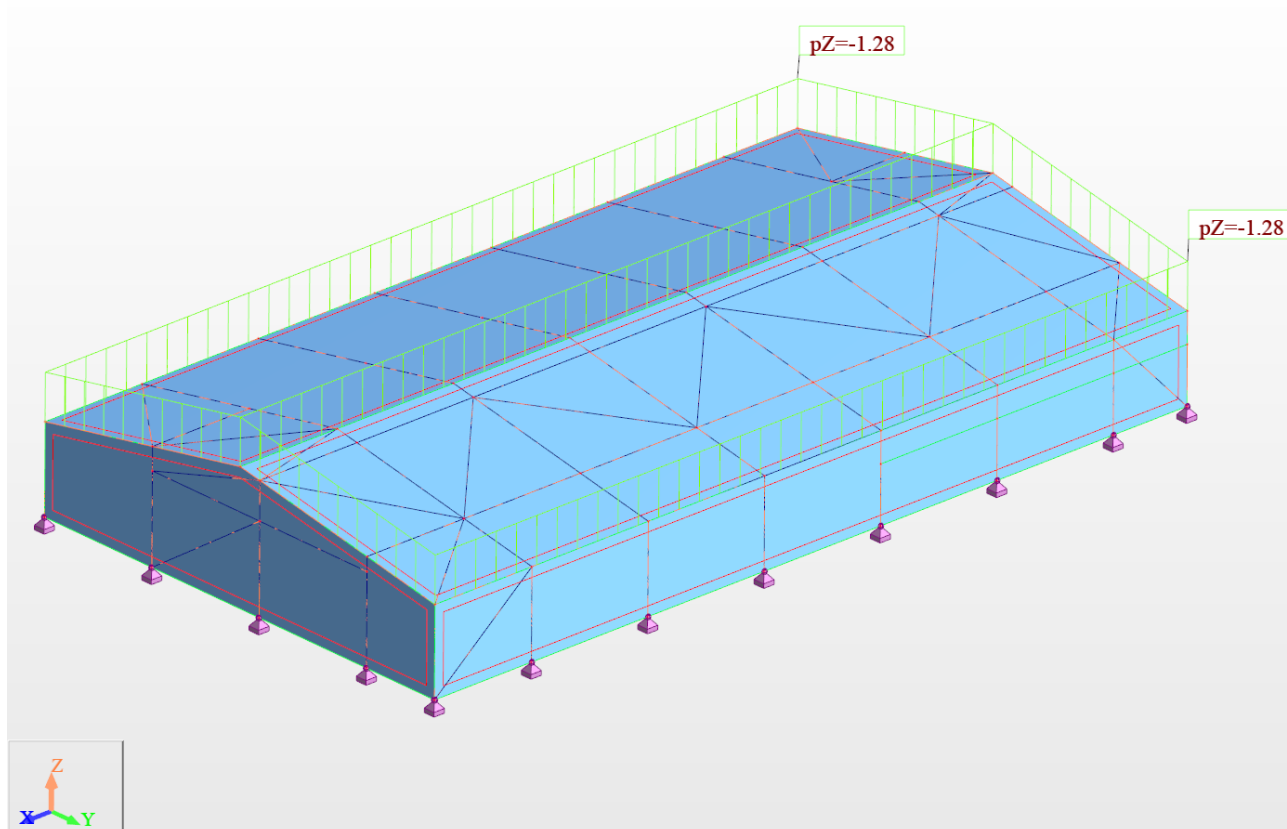
Apkrovų schemas



1 pav. Pastovi apkrova. Technologinė apkrova 0,3 kPa, Antresoles technologinė 2.5kN/m.

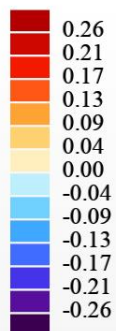


2 pav. Laikina apkrova aptarnavimo 1.2 kPa

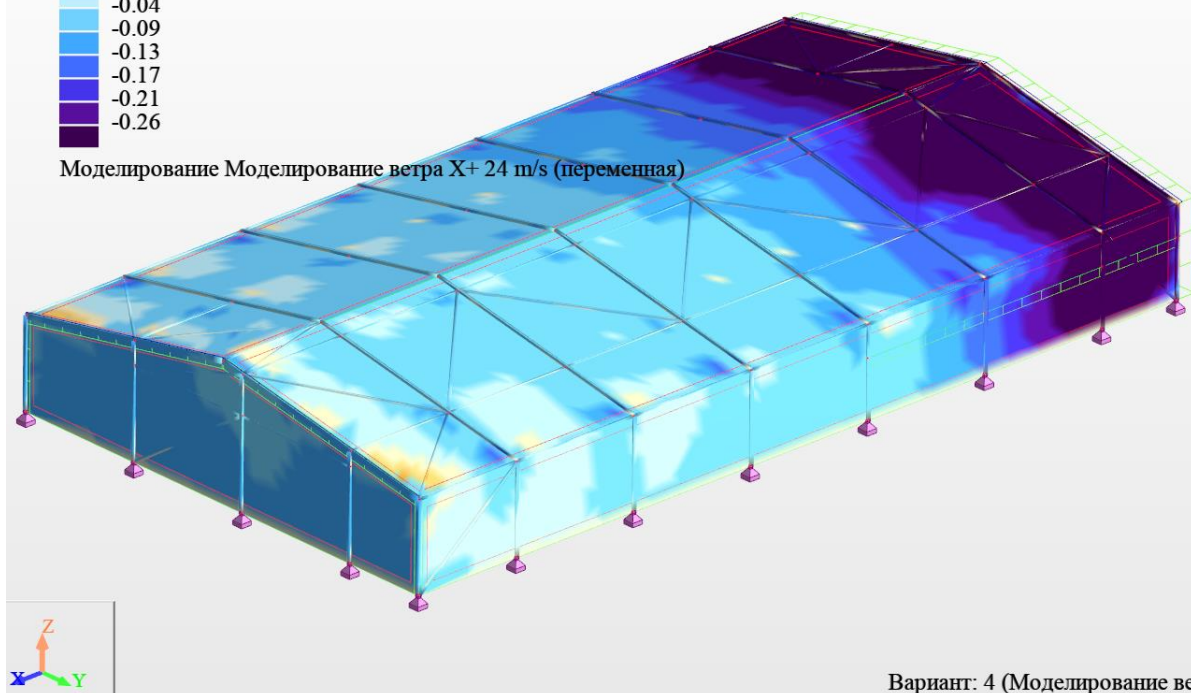


3 pav. Sniego apkrova $1.2\text{kPa} \times 0,8 = 1.28\text{ kPa}$.

Давление на элементы (кПа)



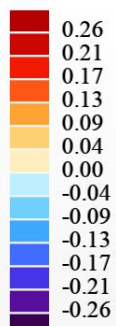
Моделирование Моделирование ветра X+ 24 m/s (переменная)



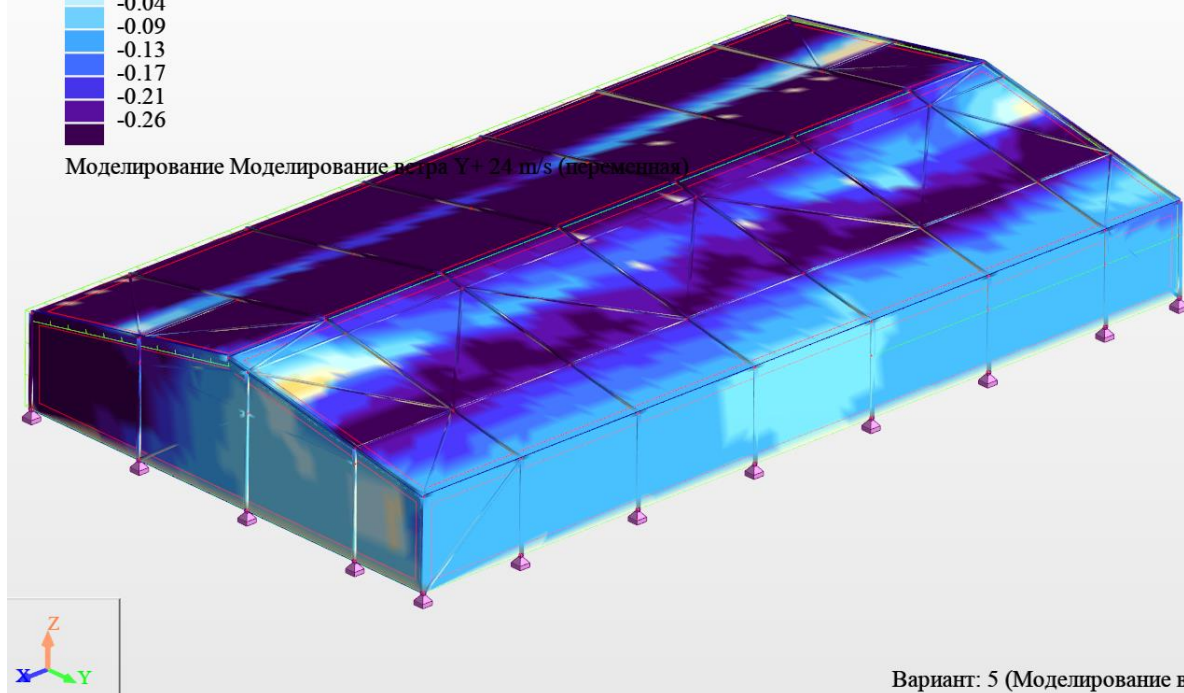
Вариант: 4 (Моделирование ветра X+ 24

4.pav. Vėjo apkrovos X+ kryptimi simuliacijos rezultatai

Давление на элементы (кПа)

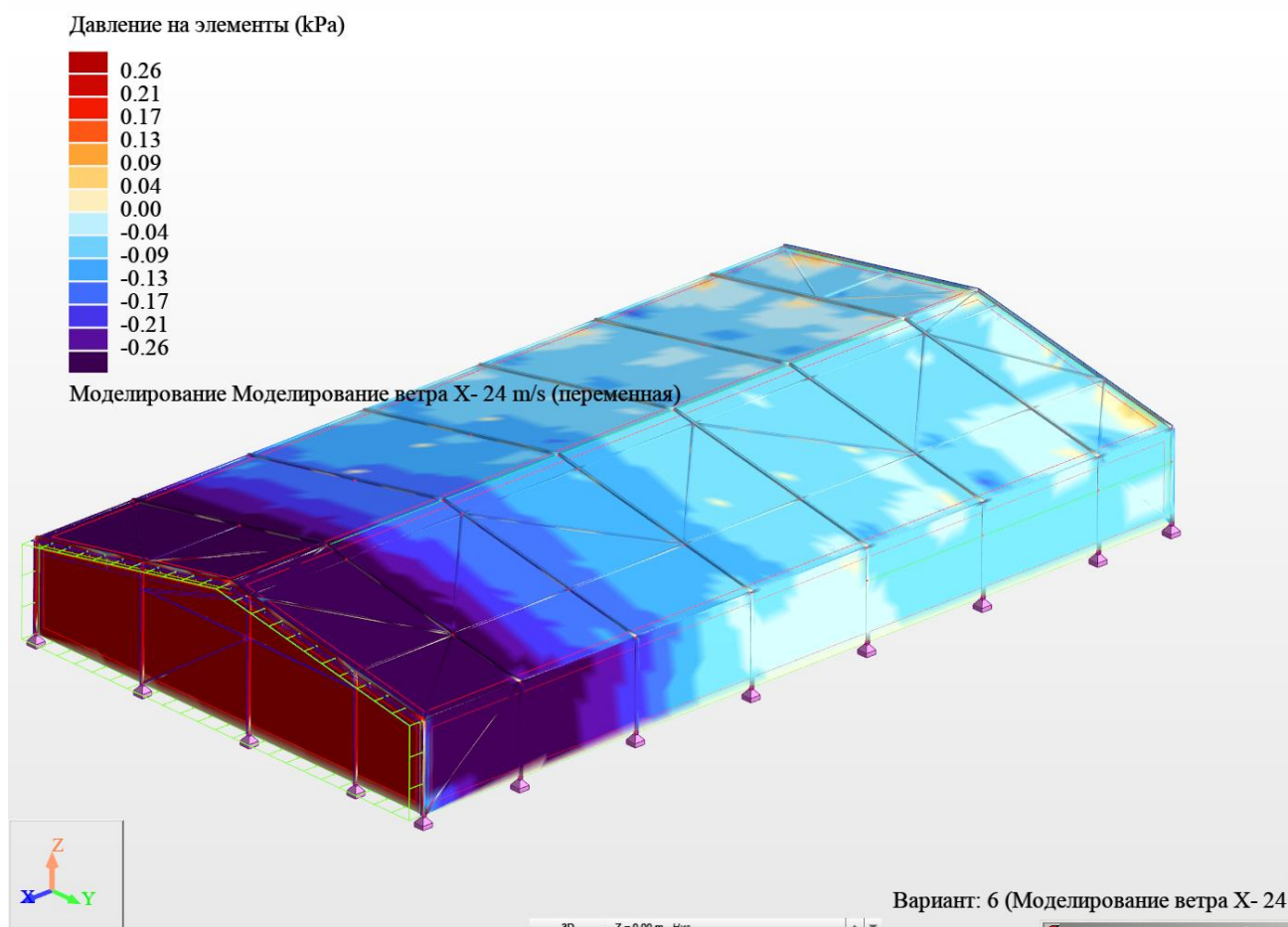


Моделирование Моделирование ветра Y+ 24 m/s (переменная)

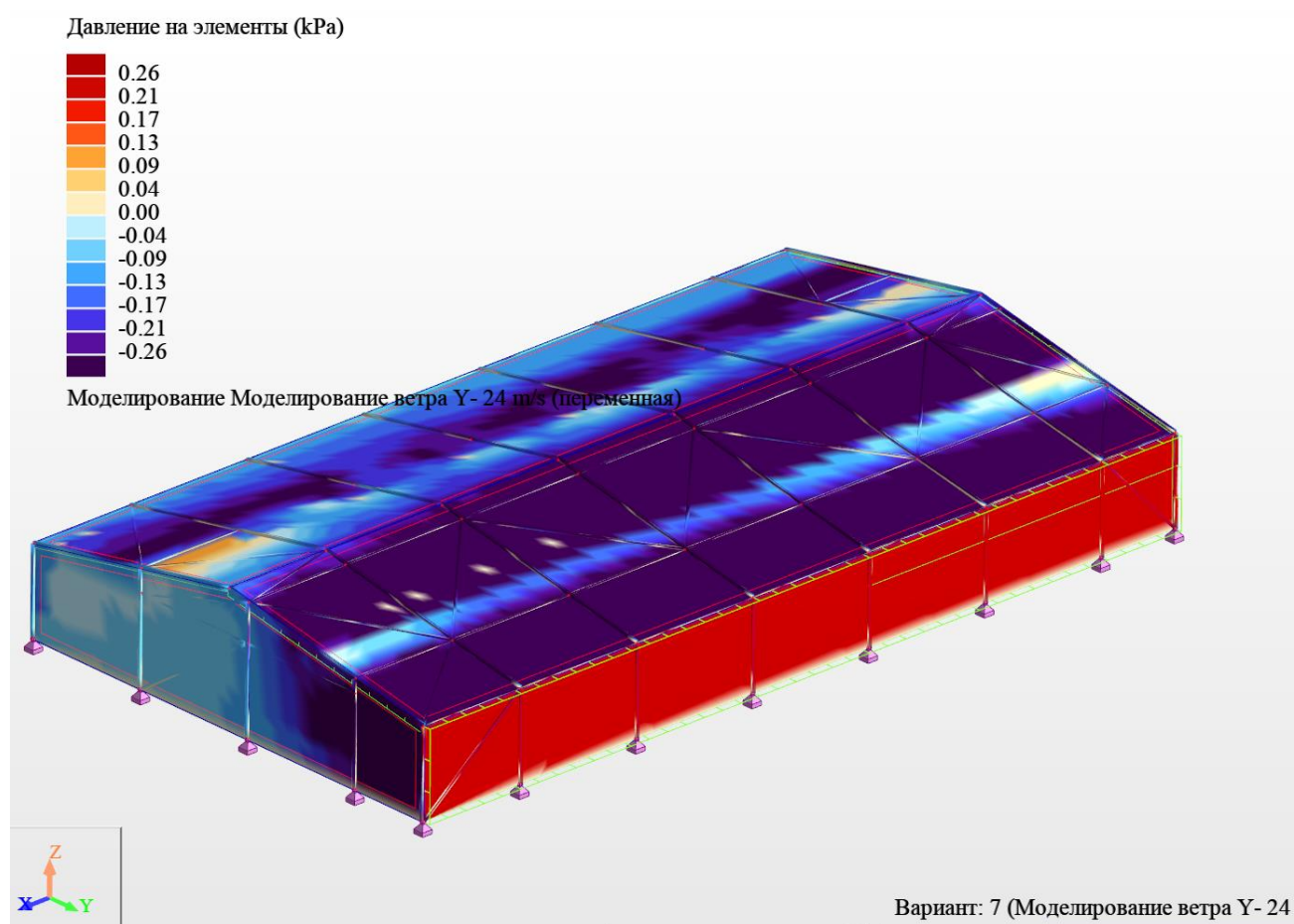


Вариант: 5 (Моделирование ветра Y+ 24

5.pav. Vėjo apkrovos Y+ kryptimi simuliacijos rezultatai



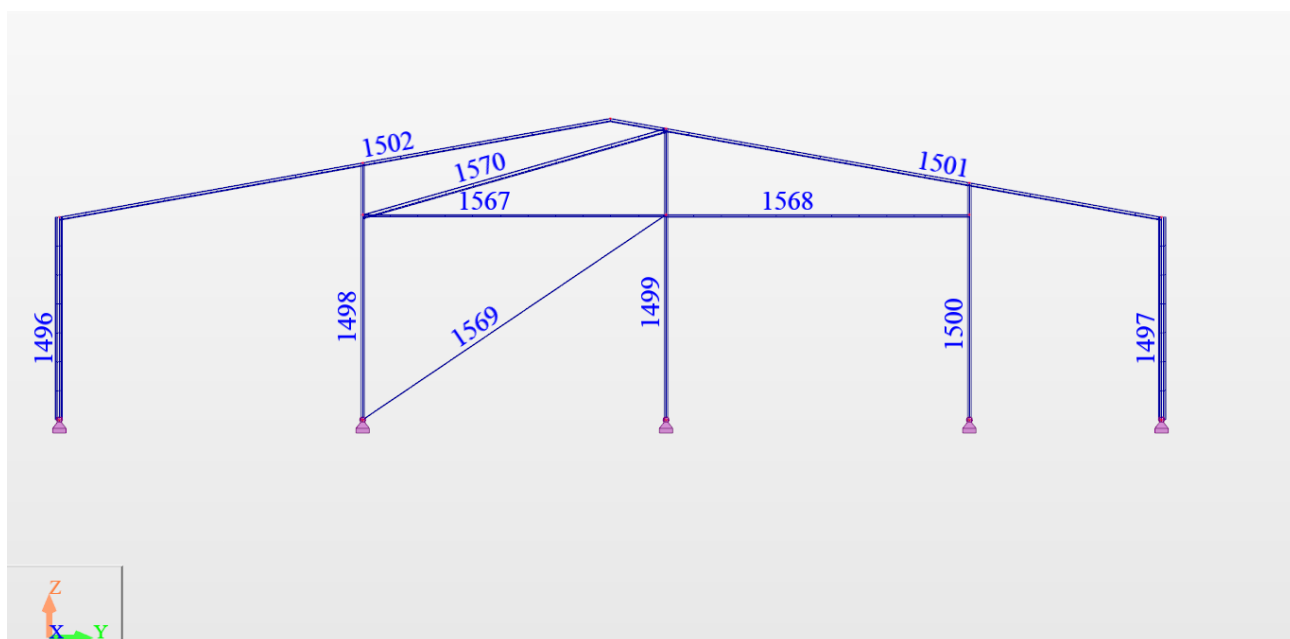
6.pav. Vējo apkrovas X- kryptimi simulācijas rezultāti



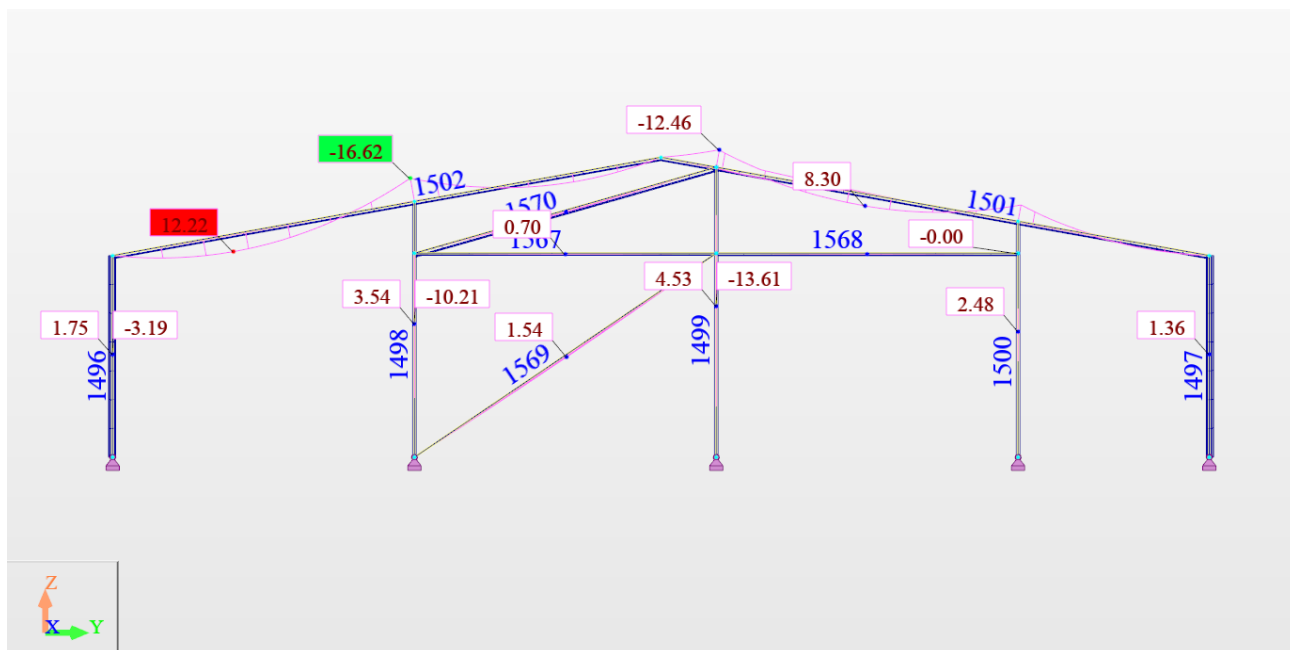
7.pav. Vėjo apkrovos Y- kryptimi simuliacijos rezultatai

Statinių skaičiavimų rezultatai

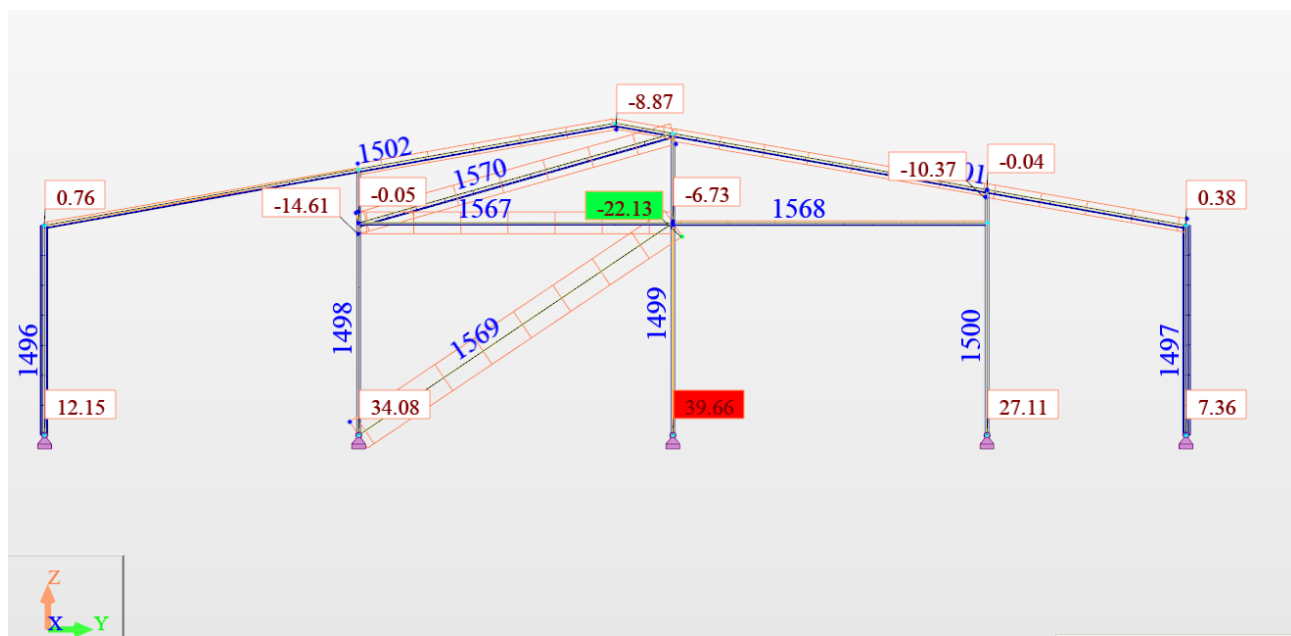
Konstrukcijų ašyje B schema



Konstrukcijų ašyje B lenkimo momentų diagramos



Konstrukcijų ašyje B ašinių jėgų diagramos



Konstrukcijų ašyje B elementų skaičiavimo rezultatai

| Mem | Section | Material | Lay | Laz | Ratio | Case | Ratio(uy) | Case (uy) | Ratio(uz) | Case (uz) |
|------|---|----------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|
| 1496 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.06 | 17 COMB9 | 0.05 | 21 COMB13 | 0.06 | 22 COMB14 |
| 1497 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.06 | 19 COMB11 | 0.05 | 27 COMB19 | 0.04 | 22 COMB14 |
| 1498 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 71.41 | 71.41 | 0.14 | 18 COMB10 | 0.02 | 27 COMB19 | 0.23 | 26 COMB18 |
| 1499 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 80.97 | 80.97 | 0.17 | 18 COMB10 | 0.01 | 23 COMB15 | 0.34 | 22 COMB14 |
| 1500 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 65.87 | 65.87 | 0.10 | 18 COMB10 | 0.02 | 21 COMB13 | 0.14 | 22 COMB14 |
| 1501 | <input checked="" type="checkbox"/> IPE 240 | S 355 | 111.01 | 37.14 | 0.12 | 14 COMB6 | 0.06 | 1*6 | 0.06 | 21 COMB13 |
| 1502 | <input checked="" type="checkbox"/> IPE 240 | S 355 | 111.01 | 37.14 | 0.15 | 14 COMB6 | 0.09 | 1*6 | 0.08 | 20 COMB12 |
| 1567 | <input checked="" type="checkbox"/> SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.17 | 17 COMB9 | - | - | - | - |
| 1568 | <input checked="" type="checkbox"/> SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.06 | 19 COMB11 | - | - | - | - |
| 1569 | <input checked="" type="checkbox"/> SQUA 140x14 | S 355 | 132.18 | 132.18 | 0.11 | 19 COMB11 | - | - | - | - |
| 1570 | <input checked="" type="checkbox"/> SQUA 140x14 | S 355 | 113.90 | 113.90 | 0.07 | 19 COMB11 | - | - | - | - |

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1496

POINT: 2

COORDINATE: x = 0.50 L = 2.00 m

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



SECTION PARAMETERS: SQUA 180x180x5

h=18.0 cm

gM0=1.00

gM1=1.00

b=18.0 cm

Ay=17.18 cm²

Az=17.18 cm²

Ax=34.36 cm²

tw=0.5 cm

Iy=1736.87 cm⁴

Iz=1736.87 cm⁴

Ix=2724.16 cm⁴

tf=0.5 cm

Wply=224.02 cm³

Wplz=224.02 cm³

INTERNAL FORCES AND CAPACITIES:

N_{Ed} = 1.92 kN

M_{y,Ed} = 1.75 kN*m

M_{z,Ed} = 2.99 kN*m

V_{y,Ed} = -0.07 kN

| | | | |
|--------------------|-----------------------|-----------------------|---------------------|
| Nc,Rd = 1219.65 kN | My,Ed,max = 1.75 kN*m | Mz,Ed,max = 2.99 kN*m | Vy,c,Rd = 352.08 kN |
| Nb,Rd = 1219.65 kN | My,c,Rd = 79.53 kN*m | Mz,c,Rd = 79.53 kN*m | Vz,Ed = 0.03 kN |
| | MN,y,Rd = 79.53 kN*m | MN,z,Rd = 79.53 kN*m | Vz,c,Rd = 352.08 kN |
| | Mb,Rd = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|----------------|--------------------|--------------|----------------|
| z = 1.00 | Mcr = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| Lcr,upp=4.00 m | Lam_LT = 0.18 | fi,LT = 0.43 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

kyy = 1.00



About z axis:

kzz = 1.00

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.00 < 1.00 (6.2.4.(1))

(My,Ed/MN,y,Rd)^1.66 + (Mz,Ed/MN,z,Rd)^1.66 = 0.01 < 1.00 (6.2.9.1.(6))

Vy,Ed/Vy,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Vz,Ed/Vz,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

My,Ed,max/Mb,Rd = 0.02 < 1.00 (6.3.2.1.(1))

N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00 (6.3.3.(4))

N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

uy = 0.1 cm < uy max = L/200.00 = 2.0 cm

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

uz = 0.1 cm < uz max = L/200.00 = 2.0 cm

Verified

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), [Eurocode 3: Design of steel structures](#).

ANALYSIS TYPE: [Member Verification](#)

CODE GROUP:

MEMBER: 1497

POINT: 2

COORDINATE: x = 0.50 L = 2.00 m

LOADS:

Governing Load Case: 19 COMB11 1*1.35+7*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | Ay=17.18 cm ² | Az=17.18 cm ² | Ax=34.36 cm ² |
| tw=0.5 cm | Iy=1736.87 cm ⁴ | Iz=1736.87 cm ⁴ | Ix=2724.16 cm ⁴ |
| tf=0.5 cm | Wply=224.02 cm ³ | Wplz=224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|----------------|-------------------|--------------------|-----------------|
| N,Ed = 2.02 kN | My,Ed = 1.36 kN*m | Mz,Ed = -2.97 kN*m | Vy,Ed = 0.06 kN |
|----------------|-------------------|--------------------|-----------------|

| | | | |
|--------------------|-----------------------|------------------------|---------------------|
| Nc,Rd = 1219.65 kN | My,Ed,max = 1.36 kN*m | Mz,Ed,max = -2.97 kN*m | Vy,c,Rd = 352.08 kN |
| Nb,Rd = 1219.65 kN | My,c,Rd = 79.53 kN*m | Mz,c,Rd = 79.53 kN*m | Vz,Ed = 0.04 kN |
| | MN,y,Rd = 79.53 kN*m | MN,z,Rd = 79.53 kN*m | Vz,c,Rd = 352.08 kN |
| | Mb,Rd = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|----------------|--------------------|--------------|----------------|
| z = 1.00 | Mcr = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| Lcr,upp=4.00 m | Lam_LT = 0.18 | fi,LT = 0.43 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

kyy = 1.00



About z axis:

kzz = 1.00

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.00 < 1.00 (6.2.4.(1))
 $(My,Ed/MN,y,Rd)^{1.66} + (Mz,Ed/MN,z,Rd)^{1.66} = 0.01 < 1.00$ (6.2.9.1.(6))
 Vy,Ed/Vy,c,Rd = 0.00 < 1.00 (6.2.6.(1))
 Vz,Ed/Vz,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

My,Ed,max/Mb,Rd = 0.02 < 1.00 (6.3.2.1.(1))
 $N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00$ (6.3.3.(4))
 $N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00$ (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

uy = 0.1 cm < uy max = L/200.00 = 2.0 cm Verified

Governing Load Case: 27 COMB19 (1+7)*1.00

uz = 0.1 cm < uz max = L/200.00 = 2.0 cm Verified

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1498

POINT: 2

COORDINATE: x = 0.40 L = 2.02 m

LOADS:

Governing Load Case: 18 COMB10 1*1.35+6*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | Ay=17.18 cm ² | Az=17.18 cm ² | Ax=34.36 cm ² |
| tw=0.5 cm | Iy=1736.87 cm ⁴ | Iz=1736.87 cm ⁴ | Ix=2724.16 cm ⁴ |
| tf=0.5 cm | Wply=224.02 cm ³ | Wplz=224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|----------------|--------------------|--------------------|-----------------|
| N,Ed = 5.56 kN | My,Ed = -9.61 kN*m | Mz,Ed = -0.26 kN*m | Vy,Ed = 0.11 kN |
|----------------|--------------------|--------------------|-----------------|

$N_{c,Rd} = 1219.65 \text{ kN}$
 $N_{b,Rd} = 1219.65 \text{ kN}$
 $M_{y,Ed,max} = -10.19 \text{ kN}\cdot\text{m}$
 $M_{y,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $MN_{y,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $M_{b,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $M_{z,Ed,max} = -0.44 \text{ kN}\cdot\text{m}$
 $M_{z,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $MN_{z,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $V_{y,Ed} = -1.93 \text{ kN}$
 $V_{z,Ed} = 352.08 \text{ kN}$
 $V_{y,c,Rd}$
 $V_{z,c,Rd}$
 Class of section = 1



LATERAL BUCKLING PARAMETERS:

$z = 1.00$
 $L_{cr,low} = 5.08 \text{ m}$
 $M_{cr} = 1897.18 \text{ kN}\cdot\text{m}$
 $\lambda_{m,LT} = 0.20$
 Curve_{LT-d}
 $\phi_{LT} = 0.44$
 $X_{LT} = 1.00$
 $X_{LT,mod} = 1.00$

BUCKLING PARAMETERS:



About y axis:

$k_{yy} = 1.00$



About z axis:

$k_{zz} = 1.00$

VERIFICATION FORMULAS:

Section strength check:

$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$
 $(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.03 < 1.00 \quad (6.2.9.1.(6))$
 $V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$
 $V_{z,Ed}/V_{z,c,Rd} = 0.01 < 1.00 \quad (6.2.6.(1))$

Global stability check of member:

$M_{y,Ed,max}/M_{b,Rd} = 0.13 < 1.00 \quad (6.3.2.1.(1))$
 $N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.14 < 1.00 \quad (6.3.3.(4))$
 $N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.14 < 1.00 \quad (6.3.3.(4))$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$u_y = 0.0 \text{ cm} < u_{y,max} = L/200.00 = 2.5 \text{ cm}$ Verified

Governing Load Case: 27 COMB19 (1+7)*1.00

$u_z = 0.6 \text{ cm} < u_{z,max} = L/200.00 = 2.5 \text{ cm}$ Verified

Governing Load Case: 26 COMB18 (1+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1499

POINT: 2

COORDINATE: $x = 0.35 L = 2.02 \text{ m}$

LOADS:

Governing Load Case: 18 COMB10 1*1.35+6*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 180x180x5

$h = 18.0 \text{ cm}$
 $b = 18.0 \text{ cm}$
 $t_w = 0.5 \text{ cm}$
 $t_f = 0.5 \text{ cm}$
 $gM0 = 1.00$
 $A_y = 17.18 \text{ cm}^2$
 $I_y = 1736.87 \text{ cm}^4$
 $W_{ply} = 224.02 \text{ cm}^3$
 $gM1 = 1.00$
 $A_z = 17.18 \text{ cm}^2$
 $I_z = 1736.87 \text{ cm}^4$
 $W_{plz} = 224.02 \text{ cm}^3$
 $A_x = 34.36 \text{ cm}^2$
 $I_x = 2724.16 \text{ cm}^4$

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------------------|-------------------------------------|----------------------------------|--|
| N _{Ed} = 1.09 kN | M _{y,Ed} = -12.04 kN*m | M _{z,Ed} = 0.04 kN*m | V _{y,Ed} = -0.01 kN |
| N _{c,Rd} = 1219.65 kN | M _{y,Ed,max} = -13.58 kN*m | | M _{z,Ed,max} = 0.05 kN*m V _{y,c,Rd} |
| = 352.08 kN | | | |
| N _{b,Rd} = 1219.65 kN | M _{y,c,Rd} = 79.53 kN*m | M _{z,c,Rd} = 79.53 kN*m | V _{z,Ed} = -3.12 kN |
| | MN _{y,Rd} = 79.53 kN*m | MN _{z,Rd} = 79.53 kN*m | V _{z,c,Rd} = 352.08 kN |
| | M _{b,Rd} = 79.53 kN*m | | |
| Class of section = 1 | | | |



LATERAL BUCKLING PARAMETERS:

| | | | |
|------------------------------|--------------------------------|--------------|----------------|
| z = 1.00 | M _{cr} = 1679.64 kN*m | Curve,LT - d | XLT = 1.00 |
| L _{cr,low} = 5.76 m | Lam_LT = 0.22 | fi,LT = 0.45 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

$$k_{yy} = 1.00$$



About z axis:

$$k_{zz} = 1.00$$

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.04 < 1.00 \quad (6.2.9.1.(6))$$

$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

$$V_{z,Ed}/V_{z,c,Rd} = 0.01 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.17 < 1.00 \quad (6.3.2.1.(1))$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.17 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.17 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.0 \text{ cm} < u_{y,max} = L/200.00 = 2.9 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 23 \text{ COMB15 } (1+2+3+7) \cdot 1.00$$

$$u_z = 1.0 \text{ cm} < u_{z,max} = L/200.00 = 2.9 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 22 \text{ COMB14 } (1+2+3+6) \cdot 1.00$$



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1500

POINT: 2

COORDINATE: x = 0.43 L = 2.02 m

LOADS:

Governing Load Case: 18 COMB10 1*1.35+6*1.30

MATERIAL:

S 355 (S 355) f_y = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|--|--|---|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | A _y =17.18 cm ² | A _z =17.18 cm ² | A _x =34.36 cm ² |
| tw=0.5 cm | I _y =1736.87 cm ⁴ | I _z =1736.87 cm ⁴ | I _x =2724.16 cm ⁴ |
| tf=0.5 cm | W _{ply} =224.02 cm ³ | W _{plz} =224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|---------------------------------|--|---|----------------------------------|
| $N_{Ed} = 4.22 \text{ kN}$ | $M_{y,Ed} = -6.78 \text{ kN}\cdot\text{m}$ | $M_{z,Ed} = 0.21 \text{ kN}\cdot\text{m}$ | $V_{y,Ed} = -0.09 \text{ kN}$ |
| $N_{c,Rd} = 1219.65 \text{ kN}$ | $M_{y,Ed,max} = -6.98 \text{ kN}\cdot\text{m}$ | $M_{z,Ed,max} = 0.36 \text{ kN}\cdot\text{m}$ | $V_{y,c,Rd} = 352.08 \text{ kN}$ |
| $N_{b,Rd} = 1219.65 \text{ kN}$ | $M_{y,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $M_{z,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $V_{z,Ed} = -1.04 \text{ kN}$ |
| | $MN_{y,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $MN_{z,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $V_{z,c,Rd} = 352.08 \text{ kN}$ |
| | $M_{b,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|-------------------------------|--|----------------------|--------------------|
| $z = 1.00$ | $M_{cr} = 2050.96 \text{ kN}\cdot\text{m}$ | Curve,LT - d | $XLT = 1.00$ |
| $L_{cr,low} = 4.68 \text{ m}$ | $\lambda_{m,LT} = 0.20$ | $\phi_{i,LT} = 0.44$ | $XLT_{mod} = 1.00$ |

BUCKLING PARAMETERS:



About y axis:

$$k_{yy} = 1.00$$



About z axis:

$$k_{zz} = 1.00$$

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$$
$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.02 < 1.00 \quad (6.2.9.1.(6))$$
$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$
$$V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.09 < 1.00 \quad (6.3.2.1.(1))$$
$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.10 < 1.00 \quad (6.3.3.(4))$$
$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.10 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.1 \text{ cm} < u_{y,max} = L/200.00 = 2.3 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

$$u_z = 0.3 \text{ cm} < u_{z,max} = L/200.00 = 2.3 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1501 sija_1501

POINT: 1

COORDINATE: $x = 0.35 L = 3.86 \text{ m}$

LOADS:

Governing Load Case: 14 COMB6 $1 \cdot 1.35 + 2 \cdot 1.30 + (3+6) \cdot 0.90$

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: IPE 240

| | | | |
|------------------------|---------------------------------|--------------------------------|----------------------------|
| $h = 24.0 \text{ cm}$ | $gM0 = 1.00$ | $gM1 = 1.00$ | |
| $b = 12.0 \text{ cm}$ | $A_y = 27.31 \text{ cm}^2$ | $A_z = 19.14 \text{ cm}^2$ | $A_x = 39.12 \text{ cm}^2$ |
| $t_w = 0.6 \text{ cm}$ | $I_y = 3891.63 \text{ cm}^4$ | $I_z = 283.63 \text{ cm}^4$ | $I_x = 11.60 \text{ cm}^4$ |
| $t_f = 1.0 \text{ cm}$ | $W_{ply} = 366.68 \text{ cm}^3$ | $W_{plz} = 73.93 \text{ cm}^3$ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|---------------------------------|---|---|----------------------------------|
| $N_{Ed} = 7.05 \text{ kN}$ | $M_{y,Ed} = -10.18 \text{ kN}\cdot\text{m}$ | $M_{z,Ed} = 0.81 \text{ kN}\cdot\text{m}$ | $V_{y,Ed} = 1.04 \text{ kN}$ |
| $N_{c,Rd} = 1388.63 \text{ kN}$ | $M_{y,Ed,max} = -10.18 \text{ kN}\cdot\text{m}$ | $M_{z,Ed,max} = 0.81 \text{ kN}\cdot\text{m}$ | $V_{y,c,Rd} = 559.77 \text{ kN}$ |
| $N_{b,Rd} = 1388.63 \text{ kN}$ | $M_{y,c,Rd} = 130.17 \text{ kN}\cdot\text{m}$ | $M_{z,c,Rd} = 26.24 \text{ kN}\cdot\text{m}$ | $V_{z,Ed} = 11.19 \text{ kN}$ |
| | $MN_{y,Rd} = 130.17 \text{ kN}\cdot\text{m}$ | $MN_{z,Rd} = 26.24 \text{ kN}\cdot\text{m}$ | $V_{z,c,Rd} = 392.37 \text{ kN}$ |
| | $M_{b,Rd} = 128.10 \text{ kN}\cdot\text{m}$ | | |
| Class of section = 1 | | | |



LATERAL BUCKLING PARAMETERS:

| | | | |
|-------------------------------|---|----------------------|--------------------|
| $z = 1.00$ | $M_{cr} = 523.22 \text{ kN}\cdot\text{m}$ | Curve,LT - b | $XLT = 0.96$ |
| $L_{cr,low} = 1.00 \text{ m}$ | $\lambda_{m,LT} = 0.50$ | $\phi_{i,LT} = 0.61$ | $XLT_{mod} = 0.98$ |

BUCKLING PARAMETERS:



About y axis:

$$k_{yy} = 1.00$$



About z axis:

$$k_{zz} = 1.00$$

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$
$$(M_{y,Ed}/M_{N,y,Rd})^2 + (M_{z,Ed}/M_{N,z,Rd}) = 0.04 < 1.00 \quad (6.2.9.1.(6))$$
$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$
$$V_{z,Ed}/V_{z,c,Rd} = 0.03 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.08 < 1.00 \quad (6.3.2.1.(1))$$
$$N_{Ed}/(X_y \cdot N_{Rk}/\gamma_{M1}) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/\gamma_{M1}) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/\gamma_{M1}) = 0.12 < 1.00 \quad (6.3.3.(4))$$
$$N_{Ed}/(X_z \cdot N_{Rk}/\gamma_{M1}) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/\gamma_{M1}) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/\gamma_{M1}) = 0.12 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.3 \text{ cm} < u_{y,max} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 26 \text{ COMB18 } (1+6) \cdot 1.00 \quad \text{Verified}$$

$$u_z = 0.4 \text{ cm} < u_{z,max} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 21 \text{ COMB13 } (1+2+3+5) \cdot 1.00 \quad \text{Verified}$$

$$u_{inst,y} = 0.3 \text{ cm} < u_{inst,max,y} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 1 \cdot 6 \quad \text{Verified}$$

$$u_{inst,z} = 0.2 \text{ cm} < u_{inst,max,z} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

$$\text{Governing Load Case: } 1 \cdot 7$$



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1502 sija_1502

POINT: 3

COORDINATE: x = 0.45 L = 4.98 m

LOADS:

Governing Load Case: 14 COMB6 1*1.35+2*1.30+(3+6)*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: IPE 240

| | | | |
|-----------|-----------------------------|----------------------------|--------------------------|
| h=24.0 cm | gM0=1.00 | gM1=1.00 | |
| b=12.0 cm | Ay=27.31 cm ² | Az=19.14 cm ² | Ax=39.12 cm ² |
| tw=0.6 cm | Iy=3891.63 cm ⁴ | Iz=283.63 cm ⁴ | Ix=11.60 cm ⁴ |
| tf=1.0 cm | Wply=366.68 cm ³ | Wplz=73.93 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------------------|------------------------------------|---------------------------------|--|
| N _{Ed} = 6.73 kN | My _{Ed} = -13.58 kN*m | Mz _{Ed} = 1.04 kN*m | Vy _{Ed} = -1.05 kN |
| N _{c,Rd} = 1388.63 kN | My _{Ed,max} = -13.58 kN*m | | Mz _{Ed,max} = 1.04 kN*m Vy _{c,Rd} |
| = 559.77 kN | | | |
| Nb _{Rd} = 1388.63 kN | My _{c,Rd} = 130.17 kN*m | Mz _{c,Rd} = 26.24 kN*m | Vz _{Ed} = -11.54 kN |
| | MN _{y,Rd} = 130.17 kN*m | MN _{z,Rd} = 26.24 kN*m | Vz _{c,Rd} = 392.37 kN |
| | Mb _{Rd} = 128.10 kN*m | | |
| | | | Class of section = 1 |



LATERAL BUCKLING PARAMETERS:

| | | | |
|------------------------------|-------------------------------|-------------------------|---------------------------|
| z = 1.00 | M _{cr} = 523.22 kN*m | Curve,LT - b | XLT = 0.96 |
| L _{cr,low} = 1.00 m | Lam _{LT} = 0.50 | fi _{LT} = 0.61 | XLT _{mod} = 0.98 |

BUCKLING PARAMETERS:



About y axis:

k_{yy} = 1.00



About z axis:

k_{zz} = 1.00

VERIFICATION FORMULAS:

Section strength check:

N_{Ed}/N_{c,Rd} = 0.00 < 1.00 (6.2.4.(1))
 (My_{Ed}/MN_{y,Rd})^{2.00} + (Mz_{Ed}/MN_{z,Rd})^{1.00} = 0.05 < 1.00 (6.2.9.1.(6))
 Vy_{Ed}/Vy_{c,Rd} = 0.00 < 1.00 (6.2.6.(1))
 Vz_{Ed}/Vz_{c,Rd} = 0.03 < 1.00 (6.2.6.(1))

Global stability check of member:

My_{Ed,max}/Mb_{Rd} = 0.11 < 1.00 (6.3.2.1.(1))
 N_{Ed}/(Xy*N_{Rk}/gM1) + k_{yy}*My_{Ed,max}/(XLT*My_{Rk}/gM1) + k_{yz}*Mz_{Ed,max}/(Mz_{Rk}/gM1) = 0.15 < 1.00 (6.3.3.(4))
 N_{Ed}/(Xz*N_{Rk}/gM1) + k_{zy}*My_{Ed,max}/(XLT*My_{Rk}/gM1) + k_{zz}*Mz_{Ed,max}/(Mz_{Rk}/gM1) = 0.15 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

| | |
|--|----------|
| u _y = 0.5 cm < u _{y max} = L/200.00 = 5.5 cm | Verified |
| Governing Load Case: 22 COMB14 (1+2+3+6)*1.00 | |
| u _z = 0.4 cm < u _{z max} = L/200.00 = 5.5 cm | Verified |
| Governing Load Case: 20 COMB12 (1+2+3+4)*1.00 | |
| u _{inst,y} = 0.5 cm < u _{inst,max,y} = L/200.00 = 5.5 cm | Verified |
| Governing Load Case: 1*6 | |
| u _{inst,z} = 0.1 cm < u _{inst,max,z} = L/200.00 = 5.5 cm | Verified |
| Governing Load Case: 1*7 | |



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1567 hor rysis_1567 **POINT:** 2

COORDINATE: x = 0.50 L = 3.00 m

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



SECTION PARAMETERS: SQUA 100x100x4

| | | | |
|--------------|---------------------------------|---------------------------------|------------------------------|
| $h=10.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=10.0$ cm | $A_y=7.47$ cm ² | $A_z=7.47$ cm ² | $A_x=14.95$ cm ² |
| $t_w=0.4$ cm | $I_y=226.35$ cm ⁴ | $I_z=226.35$ cm ⁴ | $I_x=362.01$ cm ⁴ |
| $t_f=0.4$ cm | $W_{ply}=53.30$ cm ³ | $W_{plz}=53.30$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|------------------------|----------------------------|-----------------------------|
| $N_{Ed} = 14.83$ kN | $M_{y,Ed} = 0.64$ kN*m | $M_{z,Ed} = -0.06$ kN*m |
| $N_{c,Rd} = 530.65$ kN | $M_{y,Ed,max} = 0.64$ kN*m | $M_{z,Ed,max} = -0.06$ kN*m |
| $N_{b,Rd} = 116.35$ kN | $M_{y,c,Rd} = 18.92$ kN*m | $M_{z,c,Rd} = 18.92$ kN*m |
| | $MN_{y,Rd} = 18.92$ kN*m | $MN_{z,Rd} = 18.92$ kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

| | |
|--------------------------|------------------------|
| $L_y = 6.00$ m | $\Lambda_{m,y} = 2.02$ |
| $L_{cr,y} = 6.00$ m | $X_y = 0.22$ |
| $\Lambda_{m,y} = 154.19$ | $k_{yy} = 1.06$ |



About z axis:

| | |
|--------------------------|------------------------|
| $L_z = 6.00$ m | $\Lambda_{m,z} = 2.02$ |
| $L_{cr,z} = 6.00$ m | $X_z = 0.22$ |
| $\Lambda_{m,z} = 154.19$ | $k_{yz} = 0.70$ |

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.03 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/MN_{y,Rd})^{1.66} + (M_{z,Ed}/MN_{z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\Lambda_{m,y} = 154.19 < \Lambda_{m,max} = 210.00 \quad \Lambda_{m,z} = 154.19 < \Lambda_{m,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.17 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.15 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), [Eurocode 3: Design of steel structures](#).

ANALYSIS TYPE: [Member Verification](#)

CODE GROUP:

MEMBER: 1568 hor rysis_1568 **POINT:** 2

COORDINATE: $x = 0.50$ L = 3.00 m

LOADS:

Governing Load Case: 19 COMB11 1*1.35+7*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



SECTION PARAMETERS: SQUA 100x100x4

| | | | |
|--------------|---------------------------------|---------------------------------|------------------------------|
| $h=10.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=10.0$ cm | $A_y=7.47$ cm ² | $A_z=7.47$ cm ² | $A_x=14.95$ cm ² |
| $t_w=0.4$ cm | $I_y=226.35$ cm ⁴ | $I_z=226.35$ cm ⁴ | $I_x=362.01$ cm ⁴ |
| $t_f=0.4$ cm | $W_{ply}=53.30$ cm ³ | $W_{plz}=53.30$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|--------------------|------------------------|-------------------------|
| $N_{Ed} = 2.70$ kN | $M_{y,Ed} = 0.69$ kN*m | $M_{z,Ed} = -0.10$ kN*m |
|--------------------|------------------------|-------------------------|

Nc,Rd = 530.65 kN
Nb,Rd = 116.35 kN

My,Ed,max = 0.69 kN*m
My,c,Rd = 18.92 kN*m
MN,y,Rd = 18.92 kN*m

Mz,Ed,max = -0.10 kN*m
Mz,c,Rd = 18.92 kN*m
MN,z,Rd = 18.92 kN*m

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

Ly = 6.00 m
Lcr,y = 6.00 m
Lamy = 154.19
Lam_y = 2.02
Xy = 0.22
ky = 1.01



About z axis:

Lz = 6.00 m
Lcr,z = 6.00 m
Lamz = 154.19
Lam_z = 2.02
Xz = 0.22
kyz = 0.62

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.01 < 1.00 (6.2.4.(1))

(My,Ed/MN,y,Rd)^1.66 + (Mz,Ed/MN,z,Rd)^1.66 = 0.00 < 1.00 (6.2.9.1.(6))

Global stability check of member:

Lambda,y = 154.19 < Lambda,max = 210.00 Lambda,z = 154.19 < Lambda,max = 210.00 STABLE

N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00 (6.3.3.(4))

N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.05 < 1.00 (6.3.3.(4))

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1-2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1569 hor rysis_1569 **POINT:** 2

COORDINATE: x = 0.50 L = 3.62 m

LOADS:

Governing Load Case: 19 COMB11 1*1.35+7*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 140x140x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=14.0 cm | gM0=1.00 | gM1=1.00 | |
| b=14.0 cm | Ay=13.18 cm ² | Az=13.18 cm ² | Ax=26.36 cm ² |
| tw=0.5 cm | Iy=790.56 cm ⁴ | Iz=790.56 cm ⁴ | Ix=1255.76 cm ⁴ |
| tf=0.5 cm | Wply=132.30 cm ³ | Wplz=132.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|-------------------|-----------------------|------------------------|
| N,Ed = 21.17 kN | My,Ed = 1.49 kN*m | Mz,Ed = -0.06 kN*m |
| Nc,Rd = 935.65 kN | My,Ed,max = 1.49 kN*m | Mz,Ed,max = -0.06 kN*m |
| Nb,Rd = 271.60 kN | My,c,Rd = 46.97 kN*m | Mz,c,Rd = 46.97 kN*m |
| | MN,y,Rd = 46.97 kN*m | MN,z,Rd = 46.97 kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

Ly = 7.24 m
Lam_y = 1.73



About z axis:

Lz = 7.24 m
Lam_z = 1.73

| | | | |
|----------------|------------|----------------|------------|
| Lcr,y = 7.24 m | Xy = 0.29 | Lcr,z = 7.24 m | Xz = 0.29 |
| Lamy = 132.18 | kyy = 1.04 | Lamz = 132.18 | kyz = 0.66 |

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.02 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\lambda_{y,Ed} = 132.18 < \lambda_{y,max} = 210.00 \quad \lambda_{z,Ed} = 132.18 < \lambda_{z,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.11 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.10 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: *BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.*

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1570 hor rysis_1570 **POINT:** 2

COORDINATE: x = 0.50 L = 3.12 m

LOADS:

Governing Load Case: 19 COMB11 1*1.35+7*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 140x140x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=14.0 cm | gM0=1.00 | gM1=1.00 | |
| b=14.0 cm | Ay=13.18 cm ² | Az=13.18 cm ² | Ax=26.36 cm ² |
| tw=0.5 cm | Iy=790.56 cm ⁴ | Iz=790.56 cm ⁴ | Ix=1255.76 cm ⁴ |
| tf=0.5 cm | Wply=132.30 cm ³ | Wplz=132.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|-------------------------------|-----------------------------------|------------------------------------|
| N _{Ed} = 13.83 kN | M _{y,Ed} = 1.27 kN*m | M _{z,Ed} = -0.01 kN*m |
| N _{c,Rd} = 935.65 kN | M _{y,Ed,max} = 1.27 kN*m | M _{z,Ed,max} = -0.01 kN*m |
| N _{b,Rd} = 352.18 kN | M _{y,c,Rd} = 46.97 kN*m | M _{z,c,Rd} = 46.97 kN*m |
| | M _{N,y,Rd} = 46.97 kN*m | M _{N,z,Rd} = 46.97 kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

| | |
|-------------------------|-------------------------|
| L _y = 6.24 m | Lam _y = 1.49 |
| Lcr,y = 6.24 m | Xy = 0.38 |
| Lamy = 113.90 | kyy = 1.02 |



About z axis:

| | |
|-------------------------|-------------------------|
| L _z = 6.24 m | Lam _z = 1.49 |
| Lcr,z = 6.24 m | Xz = 0.38 |
| Lamz = 113.90 | kyz = 0.63 |

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\lambda_{y,Ed} = 113.90 < \lambda_{y,max} = 210.00 \quad \lambda_{z,Ed} = 113.90 < \lambda_{z,max} = 210.00 \quad \text{STABLE}$$

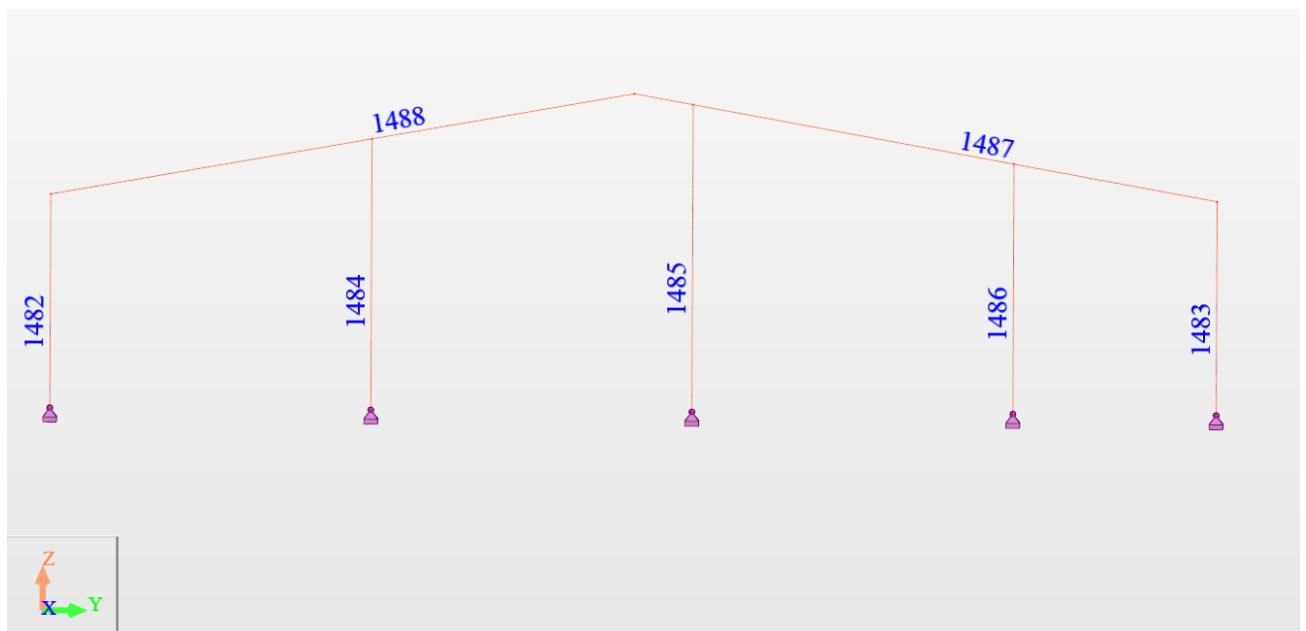
$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.07 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00$$

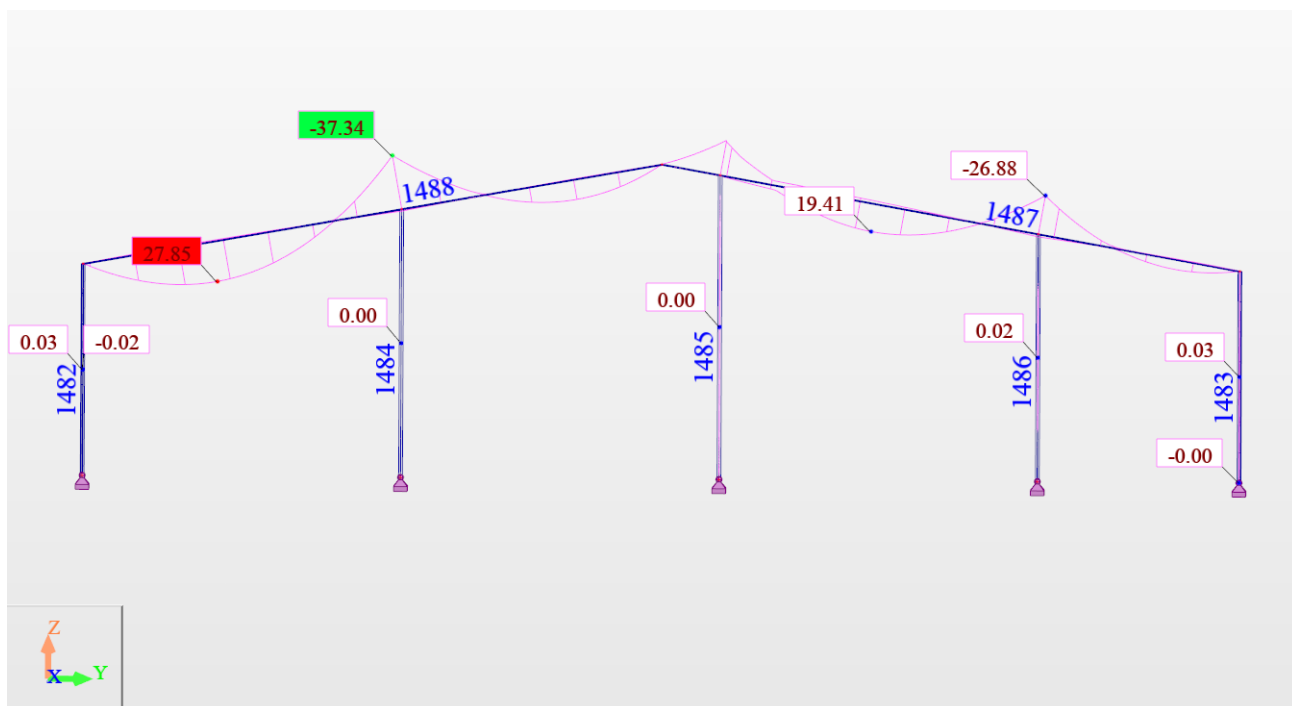
(6.3.3.(4))

Section OK !!!

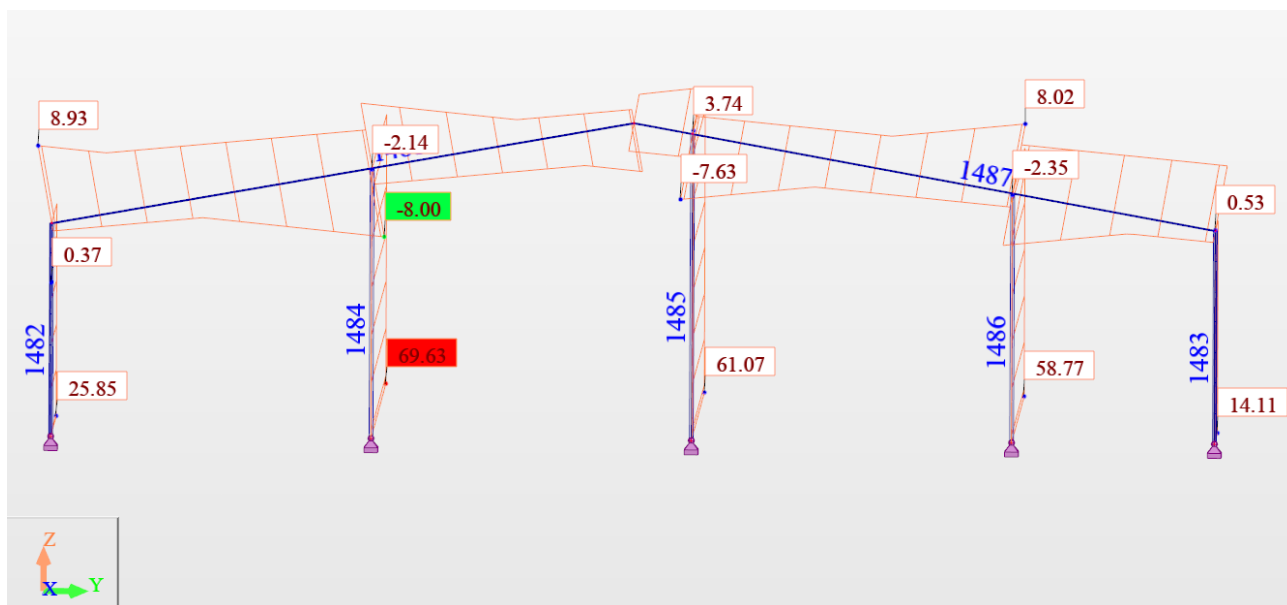
Konstrukcijų ašyje 4 schema



Konstrukcijų ašyje 4 lenkimo momentų diagramos



Konstrukcijų ašyje 4 ašinių jėgų diagramos



Konstrukcijų ašyje 4 elementų skaičiavimo rezultatai

| Mem | Section | Material | Lay | Laz | Ratio | Case | Ratio(uy) | Case (uy) | Ratio(uz) | Case (uz) |
|------|---|----------|--------|-------|-------|-----------|-----------|-----------|-----------|-----------|
| 1482 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.09 | 17 COMB9 | 0.12 | 21 COMB13 | 0.00 | 22 COMB14 |
| 1483 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.09 | 19 COMB11 | 0.12 | 23 COMB15 | 0.00 | 22 COMB14 |
| 1484 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 71.41 | 71.41 | 0.06 | 11 COMB3 | 0.00 | 21 COMB13 | 0.00 | 20 COMB12 |
| 1485 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 80.97 | 80.97 | 0.05 | 11 COMB3 | 0.00 | 27 COMB19 | 0.00 | 21 COMB13 |
| 1486 | <input checked="" type="checkbox"/> SQUA 180x18 | S 355 | 65.87 | 65.87 | 0.05 | 11 COMB3 | 0.00 | 25 COMB17 | 0.00 | 21 COMB13 |
| 1487 | <input checked="" type="checkbox"/> IPE 240 | S 355 | 111.01 | 37.14 | 0.21 | 11 COMB3 | 0.01 | 26 COMB18 | 0.13 | 21 COMB13 |
| 1488 | <input checked="" type="checkbox"/> IPE 240 | S 355 | 111.01 | 37.14 | 0.30 | 11 COMB3 | 0.08 | 1*5 | 0.18 | 20 COMB12 |

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1482

POINT: 2

COORDINATE: $x = 0.50 L = 2.00 \text{ m}$ **LOADS:**Governing Load Case: 17 COMB9 $1 \cdot 1.35 + 5 \cdot 1.30$ **MATERIAL:**S 355 (S 355) $f_y = 355.00 \text{ MPa}$ **SECTION PARAMETERS: SQUA 180x180x5** $h = 18.0 \text{ cm}$ $gM0 = 1.00$ $gM1 = 1.00$ $b = 18.0 \text{ cm}$ $A_y = 17.18 \text{ cm}^2$ $A_z = 17.18 \text{ cm}^2$ $A_x = 34.36 \text{ cm}^2$ $t_w = 0.5 \text{ cm}$ $I_y = 1736.87 \text{ cm}^4$ $I_z = 1736.87 \text{ cm}^4$ $I_x = 2724.16 \text{ cm}^4$ $t_f = 0.5 \text{ cm}$ $W_{ply} = 224.02 \text{ cm}^3$ $W_{plz} = 224.02 \text{ cm}^3$ **INTERNAL FORCES AND CAPACITIES:** $N_{Ed} = 0.89 \text{ kN}$ $M_{y,Ed} = -0.02 \text{ kN} \cdot \text{m}$ $M_{z,Ed} = 6.72 \text{ kN} \cdot \text{m}$ $V_{y,Ed} = -0.16 \text{ kN}$ $N_{c,Rd} = 1219.65 \text{ kN}$ $M_{y,Ed,max} = -0.02 \text{ kN} \cdot \text{m}$ $M_{z,Ed,max} = 6.72 \text{ kN} \cdot \text{m}$ $V_{y,c,Rd} = 352.08 \text{ kN}$ $N_{b,Rd} = 1219.65 \text{ kN}$ $M_{y,c,Rd} = 79.53 \text{ kN} \cdot \text{m}$ $M_{z,c,Rd} = 79.53 \text{ kN} \cdot \text{m}$ $M_{N,y,Rd} = 79.53 \text{ kN} \cdot \text{m}$ $M_{N,z,Rd} = 79.53 \text{ kN} \cdot \text{m}$ $M_{b,Rd} = 79.53 \text{ kN} \cdot \text{m}$

Class of section = 1

**LATERAL BUCKLING PARAMETERS:** $z = 1.00$ $M_{cr} = 2384.77 \text{ kN} \cdot \text{m}$

Curve,LT - d

 $X_{LT} = 1.00$ $L_{cr,low} = 4.00 \text{ m}$ $\lambda_{m,LT} = 0.18$ $\phi_{i,LT} = 0.43$ $X_{LT,mod} = 1.00$ **BUCKLING PARAMETERS:**

About y axis:

 $k_{yy} = 1.00$ 

About z axis:

 $k_{zz} = 1.00$ **VERIFICATION FORMULAS:****Section strength check:** $N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$ $(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.02 < 1.00 \quad (6.2.9.1.(6))$ $V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$ **Global stability check of member:** $M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00 \quad (6.3.2.1.(1))$ $N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 \quad (6.3.3.(4))$ $N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 \quad (6.3.3.(4))$ **LIMIT DISPLACEMENTS****Deflections (LOCAL SYSTEM):** $u_y = 0.2 \text{ cm} < u_{y,max} = L/200.00 = 2.0 \text{ cm}$

Verified

Governing Load Case: 21 COMB13 $(1+2+3+5) \cdot 1.00$ $u_z = 0.0 \text{ cm} < u_{z,max} = L/200.00 = 2.0 \text{ cm}$

Verified

Governing Load Case: 22 COMB14 $(1+2+3+6) \cdot 1.00$ 

Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!**STEEL DESIGN**

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1483

POINT: 2

COORDINATE: $x = 0.50 L = 2.00 \text{ m}$

LOADS:

Governing Load Case: 19 COMB11 1*1.35+7*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



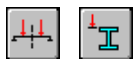
SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|--------------|----------------------------------|----------------------------------|-------------------------------|
| $h=18.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=18.0$ cm | $A_y=17.18$ cm ² | $A_z=17.18$ cm ² | $A_x=34.36$ cm ² |
| $t_w=0.5$ cm | $I_y=1736.87$ cm ⁴ | $I_z=1736.87$ cm ⁴ | $I_x=2724.16$ cm ⁴ |
| $t_f=0.5$ cm | $W_{ply}=224.02$ cm ³ | $W_{plz}=224.02$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|-------------------------|----------------------------|-----------------------------|--------------------------|
| $N_{Ed} = 1.57$ kN | $M_{y,Ed} = 0.02$ kN*m | $M_{z,Ed} = -6.79$ kN*m | $V_{y,Ed} = 0.18$ kN |
| $N_{c,Rd} = 1219.65$ kN | $M_{y,Ed,max} = 0.02$ kN*m | $M_{z,Ed,max} = -6.79$ kN*m | $V_{y,c,Rd} = 352.08$ kN |
| $N_{b,Rd} = 1219.65$ kN | $M_{y,c,Rd} = 79.53$ kN*m | $M_{z,c,Rd} = 79.53$ kN*m | |
| | $MN_{y,Rd} = 79.53$ kN*m | $MN_{z,Rd} = 79.53$ kN*m | |
| | $M_{b,Rd} = 79.53$ kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|---------------------|--------------------------|--------------------------|--------------------|
| $z = 1.00$ | $M_{cr} = 2384.77$ kN*m | Curve,LT - d | $XLT = 1.00$ |
| $L_{cr,upp}=4.00$ m | $\lambda_{m_LT} = 0.18$ | $\bar{\phi}_{LT} = 0.43$ | $XLT_{mod} = 1.00$ |

BUCKLING PARAMETERS:



About y axis:

$$k_{yy} = 1.00$$



About z axis:

$$k_{zz} = 1.00$$

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.02 < 1.00 \quad (6.2.9.1.(6))$$

$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00 \quad (6.3.2.1.(1))$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.2 \text{ cm} < u_{y,max} = L/200.00 = 2.0 \text{ cm}$$

Verified

Governing Load Case: 23 COMB15 (1+2+3+7)*1.00

$$u_z = 0.0 \text{ cm} < u_{z,max} = L/200.00 = 2.0 \text{ cm}$$

Verified

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1484

POINT: 1

COORDINATE: $x = 0.00$ $L = 0.00$ m

LOADS:

Governing Load Case: 11 COMB3 (1+2)*1.35+3*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa

**SECTION PARAMETERS: SQUA 180x180x5**

| | | | |
|--------------|----------------------------------|----------------------------------|-------------------------------|
| $h=18.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=18.0$ cm | $A_y=17.18$ cm ² | $A_z=17.18$ cm ² | $A_x=34.36$ cm ² |
| $t_w=0.5$ cm | $I_y=1736.87$ cm ⁴ | $I_z=1736.87$ cm ⁴ | $I_x=2724.16$ cm ⁴ |
| $t_f=0.5$ cm | $W_{ely}=192.99$ cm ³ | $W_{elz}=192.99$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

$N_{Ed} = 69.63$ kN

$N_{c,Rd} = 1219.65$ kN

$N_{b,Rd} = 1219.65$ kN

Class of section = 3

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:



About z axis:

VERIFICATION FORMULAS:

Section strength check:

$N_{Ed}/N_{c,Rd} = 0.06 < 1.00$ (6.2.4.(1))

LIMIT DISPLACEMENTS

Deflections (LOCAL SYSTEM):

$u_y = 0.0$ cm < $u_{y,max} = L/200.00 = 2.5$ cm

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

$u_z = 0.0$ cm < $u_{z,max} = L/200.00 = 2.5$ cm

Verified

Governing Load Case: 20 COMB12 (1+2+3+4)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1485

POINT: 1

COORDINATE: $x = 0.00$ L = 0.00 m

LOADS:

Governing Load Case: 11 COMB3 (1+2)*1.35+3*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa

**SECTION PARAMETERS: SQUA 180x180x5**

| | | | |
|--------------|----------------------------------|----------------------------------|-------------------------------|
| $h=18.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=18.0$ cm | $A_y=17.18$ cm ² | $A_z=17.18$ cm ² | $A_x=34.36$ cm ² |
| $t_w=0.5$ cm | $I_y=1736.87$ cm ⁴ | $I_z=1736.87$ cm ⁴ | $I_x=2724.16$ cm ⁴ |
| $t_f=0.5$ cm | $W_{ely}=192.99$ cm ³ | $W_{elz}=192.99$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

$N_{Ed} = 61.07 \text{ kN}$

$N_{c,Rd} = 1219.65 \text{ kN}$

$N_{b,Rd} = 1219.65 \text{ kN}$

Class of section = 3

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:



About z axis:

VERIFICATION FORMULAS:**Section strength check:**

$N_{Ed}/N_{c,Rd} = 0.05 < 1.00 \quad (6.2.4.(1))$

LIMIT DISPLACEMENTS**Deflections (LOCAL SYSTEM):**

$u_y = 0.0 \text{ cm} < u_{y \max} = L/200.00 = 2.9 \text{ cm}$

Verified

Governing Load Case: 27 COMB19 (1+7)*1.00

$u_z = 0.0 \text{ cm} < u_{z \max} = L/200.00 = 2.9 \text{ cm}$

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), [Eurocode 3: Design of steel structures](#).

ANALYSIS TYPE: [Member Verification](#)

CODE GROUP:

MEMBER: 1486

POINT: 1

COORDINATE: $x = 0.00 \text{ L} = 0.00 \text{ m}$

LOADS:

Governing Load Case: 11 COMB3 (1+2)*1.35+3*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$

**SECTION PARAMETERS: SQUA 180x180x5**

$h = 18.0 \text{ cm}$

$gM0 = 1.00$

$gM1 = 1.00$

$b = 18.0 \text{ cm}$

$A_y = 17.18 \text{ cm}^2$

$A_z = 17.18 \text{ cm}^2$

$A_x = 34.36 \text{ cm}^2$

$t_w = 0.5 \text{ cm}$

$I_y = 1736.87 \text{ cm}^4$

$I_z = 1736.87 \text{ cm}^4$

$I_x = 2724.16 \text{ cm}^4$

$t_f = 0.5 \text{ cm}$

$W_{ely} = 192.99 \text{ cm}^3$

$W_{elz} = 192.99 \text{ cm}^3$

INTERNAL FORCES AND CAPACITIES:

$N_{Ed} = 58.77 \text{ kN}$

$N_{c,Rd} = 1219.65 \text{ kN}$

$N_{b,Rd} = 1219.65 \text{ kN}$

Class of section = 3

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:



About z axis:

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.05 < 1.00 \quad (6.2.4.(1))$$

LIMIT DISPLACEMENTS**Deflections (LOCAL SYSTEM):**

$$u_y = 0.0 \text{ cm} < u_{y \max} = L/200.00 = 2.3 \text{ cm}$$

Verified

Governing Load Case: 25 COMB17 (1+5)*1.00

$$u_z = 0.0 \text{ cm} < u_{z \max} = L/200.00 = 2.3 \text{ cm}$$

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00**Displacements (GLOBAL SYSTEM):** Not analyzed**Section OK !!!**

STEEL DESIGN**CODE:** BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.**ANALYSIS TYPE:** Member Verification**CODE GROUP:****MEMBER:** 1487 sija_1487**POINT:** 1**COORDINATE:** x = 0.35 L = 3.86 m**LOADS:****Governing Load Case:** 11 COMB3 (1+2)*1.35+3*0.90**MATERIAL:**S 355 (S 355) $f_y = 355.00 \text{ MPa}$ **SECTION PARAMETERS: IPE 240**

h=24.0 cm

gM0=1.00

gM1=1.00

b=12.0 cm

Ay=27.31 cm²Az=19.14 cm²Ax=39.12 cm²

tw=0.6 cm

Iy=3891.63 cm⁴Iz=283.63 cm⁴Ix=11.60 cm⁴

tf=1.0 cm

Wply=366.68 cm³Wplz=73.93 cm³**INTERNAL FORCES AND CAPACITIES:**N_{Ed} = 5.33 kNM_{y,Ed} = -26.88 kN*mM_{z,Ed} = -0.00 kN*mV_{y,Ed} = -0.00 kNN_{c,Rd} = 1388.63 kNM_{y,Ed,max} = -26.88 kN*mM_{z,Ed,max} = 0.00 kN*m V_{y,c,Rd}

= 559.77 kN

N_{b,Rd} = 1388.63 kNM_{y,c,Rd} = 130.17 kN*mM_{z,c,Rd} = 26.24 kN*mV_{z,Ed} = 29.80 kNM_{N,y,Rd} = 130.17 kN*mM_{N,z,Rd} = 26.24 kN*mV_{z,c,Rd} = 392.37 kNM_{b,Rd} = 128.10 kN*m

Class of section = 1

**LATERAL BUCKLING PARAMETERS:**

z = 1.00

M_{cr} = 523.22 kN*m

Curve,LT - b

XLT = 0.96

L_{cr,low} = 1.00 m

Lam_LT = 0.50

f_{i,LT} = 0.61

XLT,mod = 0.98

BUCKLING PARAMETERS:

About y axis:

k_{yy} = 1.00

About z axis:

k_{zz} = 1.00**VERIFICATION FORMULAS:****Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{2.00} + (M_{z,Ed}/M_{N,z,Rd})^{1.00} = 0.04 < 1.00 \quad (6.2.9.1.(6))$$

$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

$$V_{z,Ed}/V_{z,c,Rd} = 0.08 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.21 < 1.00 \quad (6.3.2.1.(1))$$

$$N_{y,Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.21 < 1.00 \quad (6.3.3.(4))$$

$$N_{z,Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.21 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.1 \text{ cm} < u_{y,max} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 26 COMB18 (1+6)*1.00

$$u_z = 0.7 \text{ cm} < u_{z,max} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

$$u_{inst,y} = 0.1 \text{ cm} < u_{inst,max,y} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 1*6

$$u_{inst,z} = 0.3 \text{ cm} < u_{inst,max,z} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 1*7



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1-2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1488 sija_1488

POINT: 3

COORDINATE: x = 0.45 L = 4.98 m

LOADS:

Governing Load Case: 11 COMB3 (1+2)*1.35+3*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: IPE 240

| | | | |
|----------------------|-------------------------------|------------------------------|--------------------------|
| $h=24.0 \text{ cm}$ | $gM0=1.00$ | $gM1=1.00$ | |
| $b=12.0 \text{ cm}$ | $A_y=27.31 \text{ cm}^2$ | $A_z=19.14 \text{ cm}^2$ | $A_x=39.12 \text{ cm}^2$ |
| $t_w=0.6 \text{ cm}$ | $I_y=3891.63 \text{ cm}^4$ | $I_z=283.63 \text{ cm}^4$ | $I_x=11.60 \text{ cm}^4$ |
| $t_f=1.0 \text{ cm}$ | $W_{ply}=366.68 \text{ cm}^3$ | $W_{plz}=73.93 \text{ cm}^3$ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|---------------------------------|---|----------------------------------|
| $N_{y,Ed} = 5.61 \text{ kN}$ | $M_{y,Ed} = -37.34 \text{ kN}\cdot\text{m}$ | |
| $N_{c,Rd} = 1388.63 \text{ kN}$ | $M_{y,Ed,max} = -37.34 \text{ kN}\cdot\text{m}$ | |
| $N_{b,Rd} = 1388.63 \text{ kN}$ | $M_{y,c,Rd} = 130.17 \text{ kN}\cdot\text{m}$ | $V_{z,Ed} = -31.39 \text{ kN}$ |
| | $M_{N,y,Rd} = 130.17 \text{ kN}\cdot\text{m}$ | $V_{z,c,Rd} = 392.37 \text{ kN}$ |
| | $M_{b,Rd} = 128.10 \text{ kN}\cdot\text{m}$ | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|-------------------------------|---|-------------------|---------------------|
| $z = 1.00$ | $M_{cr} = 523.22 \text{ kN}\cdot\text{m}$ | Curve,LT - b | $X_{LT} = 0.96$ |
| $L_{cr,low} = 1.00 \text{ m}$ | $\lambda_{m_LT} = 0.50$ | $f_{i,LT} = 0.61$ | $X_{LT,mod} = 0.98$ |

BUCKLING PARAMETERS:



About y axis:

$$k_{yy} = 1.00$$



About z axis:

$$k_{zy} = 1.00$$

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.00 < 1.00 \quad (6.2.4.(1))$$

$$M_{y,Ed}/M_{y,c,Rd} = 0.29 < 1.00 \quad (6.2.5.(1))$$

$$V_{z,Ed}/V_{z,c,Rd} = 0.08 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$M_{y,Ed,max}/M_{b,Rd} = 0.29 < 1.00 \quad (6.3.2.1.(1))$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) = 0.30 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(X_{LT} \cdot M_{y,Rk}/gM1) = 0.30 < 1.00 \quad (6.3.3.(4))$$

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$$u_y = 0.5 \text{ cm} < u_{y \text{ max}} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 25 COMB17 (1+5)*1.00

$$u_z = 1.0 \text{ cm} < u_{z \text{ max}} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 20 COMB12 (1+2+3+4)*1.00

$$u_{\text{inst},y} = 0.5 \text{ cm} < u_{\text{inst,max},y} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 1*5

$$u_{\text{inst},z} = 0.2 \text{ cm} < u_{\text{inst,max},z} = L/200.00 = 5.5 \text{ cm} \quad \text{Verified}$$

Governing Load Case: 1*5

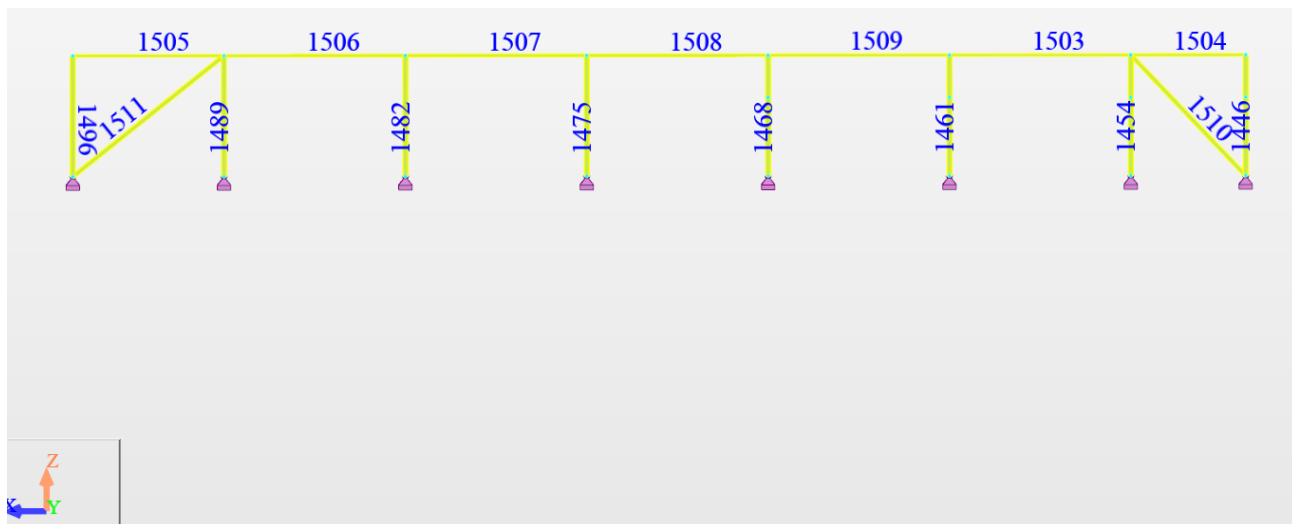


Displacements (GLOBAL SYSTEM): Not analyzed

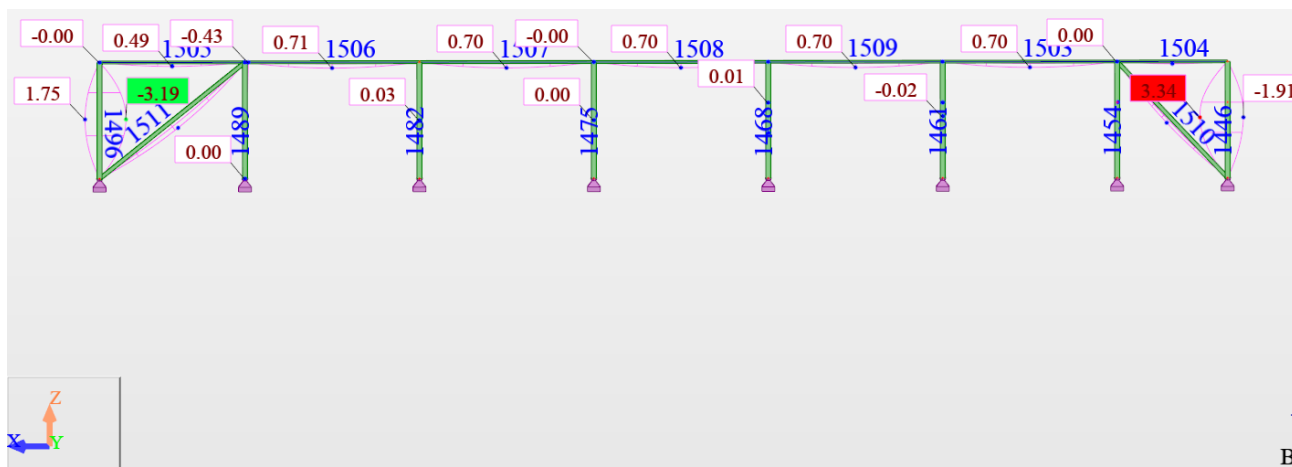
Section OK !!!

Konstrukcijų ašyje 4 schema

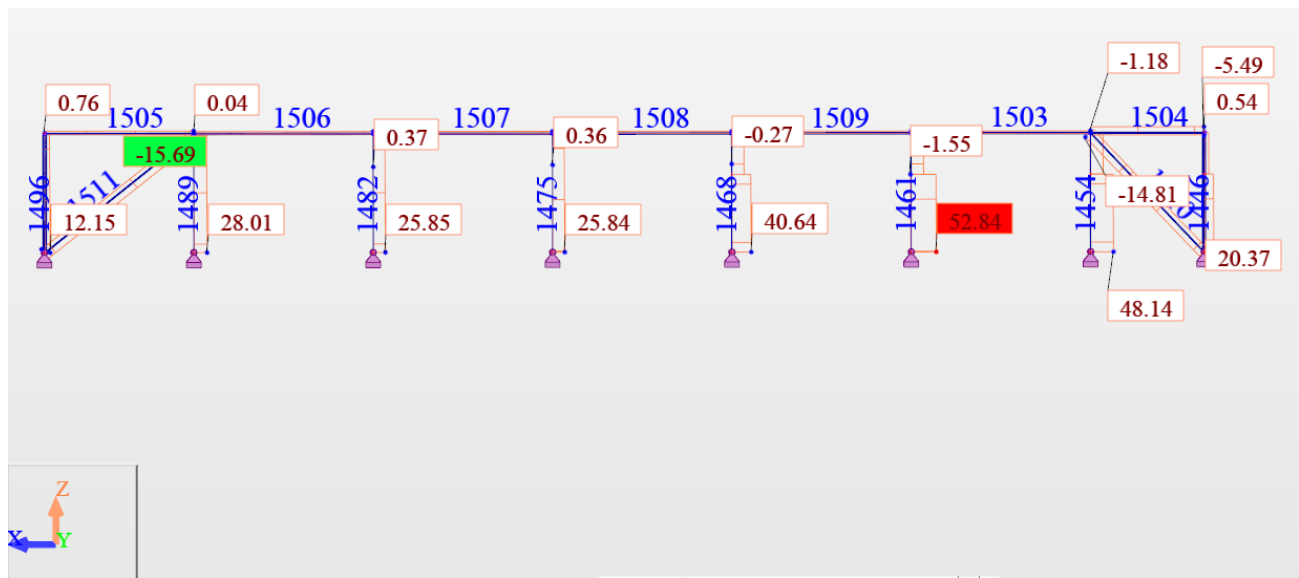
Konstrukcijų ašyje 4 schema



Konstrukcijų ašyje 4 lenkimo momentų diagramos



Konstrukcijų ašyje 4 ašinių jėgų diagramos



Konstrukcijų ašyje 4 elementų skaičiavimo rezultatai

| Memb | Section | Material | Lay | Laz | Ratio | Case | Ratio(uy) | Case (uy) | Ratio(uz) | Case (uz) |
|--------|-------------|----------|--------|--------|-------|-----------|-----------|-----------|-----------|-----------|
| 1446 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.09 | 15 COMB7 | 0.03 | 20 COMB12 | 0.06 | 20 COMB12 |
| 1454 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.15 | 13 COMB5 | 0.07 | 23 COMB15 | 0.00 | 25 COMB17 |
| 1461 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.16 | 15 COMB7 | 0.08 | 23 COMB15 | 0.00 | 24 COMB16 |
| 1468 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.11 | 15 COMB7 | 0.06 | 23 COMB15 | 0.00 | 25 COMB17 |
| 1475 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.09 | 17 COMB9 | 0.12 | 21 COMB13 | 0.00 | 25 COMB17 |
| 1482 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.09 | 17 COMB9 | 0.12 | 21 COMB13 | 0.00 | 22 COMB14 |
| 1489 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.08 | 17 COMB9 | 0.10 | 25 COMB17 | 0.00 | 21 COMB13 |
| 1496 | SQUA 180x18 | S 355 | 56.31 | 56.31 | 0.06 | 17 COMB9 | 0.05 | 21 COMB13 | 0.06 | 22 COMB14 |
| 1503 h | SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.07 | 12 COMB4 | - | - | - | - |
| 1504 h | SQUA 100x10 | S 355 | 97.65 | 97.65 | 0.06 | 16 COMB8 | - | - | - | - |
| 1505 h | SQUA 100x10 | S 355 | 128.49 | 128.49 | 0.05 | 18 COMB10 | - | - | - | - |
| 1506 h | SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.07 | 14 COMB6 | - | - | - | - |
| 1507 h | SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.06 | 14 COMB6 | - | - | - | - |
| 1508 h | SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.06 | 12 COMB4 | - | - | - | - |
| 1509 h | SQUA 100x10 | S 355 | 154.19 | 154.19 | 0.06 | 12 COMB4 | - | - | - | - |
| 1510 h | SQUA 140x14 | S 355 | 100.79 | 100.79 | 0.04 | 18 COMB10 | - | - | - | - |
| 1511 h | SQUA 140x14 | S 355 | 116.96 | 116.96 | 0.05 | 16 COMB8 | - | - | - | - |

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1446

POINT: 2

COORDINATE: x = 0.32 L = 1.30 m

LOADS:

Governing Load Case: 15 COMB7 (1+2)*1.35+(3+7)*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



SECTION PARAMETERS: SQUA 180x180x5

h=18.0 cm

gM0=1.00

gM1=1.00

b=18.0 cm

Ay=17.18 cm²

Az=17.18 cm²

Ax=34.36 cm²

tw=0.5 cm

Iy=1736.87 cm⁴

Iz=1736.87 cm⁴

Ix=2724.16 cm⁴

tf=0.5 cm

Wply=224.02 cm³

Wplz=224.02 cm³

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------------------|------------------------------------|-----------------------------------|---------------------------------|
| N _{Ed} = 19.44 kN | M _{y,Ed} = -0.65 kN*m | M _{z,Ed} = -1.41 kN*m | V _{y,Ed} = 0.98 kN |
| N _{c,Rd} = 1219.65 kN | M _{y,Ed,max} = -0.78 kN*m | M _{z,Ed,max} = 4.90 kN*m | V _{y,c,Rd} = 352.08 kN |
| N _{b,Rd} = 1219.65 kN | M _{y,c,Rd} = 79.53 kN*m | M _{z,c,Rd} = 79.53 kN*m | V _{z,Ed} = -0.30 kN |
| | MN _{y,Rd} = 79.53 kN*m | MN _{z,Rd} = 79.53 kN*m | V _{z,c,Rd} = 352.08 kN |
| | M _{b,Rd} = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|------------------------------|--------------------------------|--------------|----------------|
| z = 1.00 | M _{cr} = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| L _{cr,low} = 4.00 m | Lam_LT = 0.18 | fi,LT = 0.43 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

k_{yy} = 1.00



About z axis:

k_{zz} = 1.00

VERIFICATION FORMULAS:

Section strength check:

N_{Ed}/N_{c,Rd} = 0.02 < 1.00 (6.2.4.(1))
 $(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00$ (6.2.9.1.(6))
V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 (6.2.6.(1))
V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

M_{y,Ed,max}/M_{b,Rd} = 0.01 < 1.00 (6.3.2.1.(1))
N_{Ed}/(X_y*N_{Rk}/gM1) + k_{yy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{yz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 (6.3.3.(4))
N_{Ed}/(X_z*N_{Rk}/gM1) + k_{zy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{zz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

u_y = 0.1 cm < u_y max = L/200.00 = 2.0 cm Verified

Governing Load Case: 20 COMB12 (1+2+3+4)*1.00

u_z = 0.1 cm < u_z max = L/200.00 = 2.0 cm Verified

Governing Load Case: 20 COMB12 (1+2+3+4)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1454

POINT: 2

COORDINATE: x = 0.32 L = 1.30 m

LOADS:

Governing Load Case: 13 COMB5 1*1.35+2*1.30+(3+5)*0.90

MATERIAL:

S 355 (S 355) f_y = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|--|--|---|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | A _y =17.18 cm ² | A _z =17.18 cm ² | A _x =34.36 cm ² |
| tw=0.5 cm | I _y =1736.87 cm ⁴ | I _z =1736.87 cm ⁴ | I _x =2724.16 cm ⁴ |
| tf=0.5 cm | W _{ply} =224.02 cm ³ | W _{plz} =224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------------------|------------------------------------|-----------------------------------|---------------------------------|
| N _{Ed} = 37.43 kN | M _{y,Ed} = -0.04 kN*m | M _{z,Ed} = -1.74 kN*m | V _{y,Ed} = 2.38 kN |
| N _{c,Rd} = 1219.65 kN | M _{y,Ed,max} = -0.06 kN*m | M _{z,Ed,max} = 9.19 kN*m | V _{y,c,Rd} = 352.08 kN |
| N _{b,Rd} = 1219.65 kN | M _{y,c,Rd} = 79.53 kN*m | M _{z,c,Rd} = 79.53 kN*m | V _{z,Ed} = -0.02 kN |
| | MN _{y,Rd} = 79.53 kN*m | MN _{z,Rd} = 79.53 kN*m | V _{z,c,Rd} = 352.08 kN |
| | M _{b,Rd} = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|------------------------------|--------------------------------|--------------|---------------------------|
| z = 1.00 | M _{cr} = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| L _{cr,low} = 4.00 m | Lam_LT = 0.18 | fi_LT = 0.43 | XLT _{mod} = 1.00 |

BUCKLING PARAMETERS:



About y axis:

k_{yy} = 1.00



About z axis:

k_{zz} = 1.00

VERIFICATION FORMULAS:

Section strength check:

N_{Ed}/N_{c,Rd} = 0.03 < 1.00 (6.2.4.(1))
 $(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00$ (6.2.9.1.(6))
V_{y,Ed}/V_{y,c,Rd} = 0.01 < 1.00 (6.2.6.(1))
V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00 (6.3.2.1.(1))
N_{Ed}/(X_y*N_{Rk}/gM1) + k_{yy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{yz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.15 < 1.00 (6.3.3.(4))
N_{Ed}/(X_z*N_{Rk}/gM1) + k_{zy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{zz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.15 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

u_y = 0.1 cm < u_y max = L/200.00 = 2.0 cm Verified

Governing Load Case: 23 COMB15 (1+2+3+7)*1.00

u_z = 0.0 cm < u_z max = L/200.00 = 2.0 cm Verified

Governing Load Case: 25 COMB17 (1+5)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1461

POINT: 3

COORDINATE: x = 0.65 L = 2.60 m

LOADS:

Governing Load Case: 15 COMB7 (1+2)*1.35+(3+7)*0.90

MATERIAL:

S 355 (S 355) f_y = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|--|--|---|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | A _y =17.18 cm ² | A _z =17.18 cm ² | A _x =34.36 cm ² |
| tw=0.5 cm | I _y =1736.87 cm ⁴ | I _z =1736.87 cm ⁴ | I _x =2724.16 cm ⁴ |
| tf=0.5 cm | W _{ply} =224.02 cm ³ | W _{plz} =224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------------------|------------------------------------|------------------------------------|---------------------------------|
| N _{Ed} = 49.83 kN | M _{y,Ed} = -0.00 kN*m | M _{z,Ed} = -9.18 kN*m | V _{y,Ed} = 2.94 kN |
| N _{c,Rd} = 1219.65 kN | M _{y,Ed,max} = -0.00 kN*m | M _{z,Ed,max} = -9.18 kN*m | V _{y,c,Rd} = 352.08 kN |
| N _{b,Rd} = 1219.65 kN | M _{y,c,Rd} = 79.53 kN*m | M _{z,c,Rd} = 79.53 kN*m | V _{z,Ed} = 0.00 kN |
| | MN _{y,Rd} = 79.53 kN*m | MN _{z,Rd} = 79.53 kN*m | V _{z,c,Rd} = 352.08 kN |
| | M _{b,Rd} = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|------------------------------|--------------------------------|--------------|---------------------------|
| z = 1.00 | M _{cr} = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| L _{cr,low} = 4.00 m | Lam_LT = 0.18 | fi_LT = 0.43 | XLT _{mod} = 1.00 |

BUCKLING PARAMETERS:



About y axis:

k_{yy} = 1.00



About z axis:

k_{zz} = 1.00

VERIFICATION FORMULAS:

Section strength check:

N_{Ed}/N_{c,Rd} = 0.04 < 1.00 (6.2.4.(1))
 (M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.03 < 1.00 (6.2.9.1.(6))
 V_{y,Ed}/V_{y,c,Rd} = 0.01 < 1.00 (6.2.6.(1))
 V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00 (6.3.2.1.(1))
 N_{Ed}/(X_y*N_{Rk}/gM1) + k_{yy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{yz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.16 < 1.00 (6.3.3.(4))
 N_{Ed}/(X_z*N_{Rk}/gM1) + k_{zy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{zz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.16 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

u_y = 0.2 cm < u_y max = L/200.00 = 2.0 cm Verified

Governing Load Case: 23 COMB15 (1+2+3+7)*1.00

u_z = 0.0 cm < u_z max = L/200.00 = 2.0 cm Verified

Governing Load Case: 24 COMB16 (1+4)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), [Eurocode 3: Design of steel structures](#).

ANALYSIS TYPE: [Member Verification](#)

CODE GROUP:

MEMBER: 1468

POINT: 3

COORDINATE: x = 0.65 L = 2.60 m

LOADS:

Governing Load Case: 15 COMB7 (1+2)*1.35+(3+7)*0.90

MATERIAL:

S 355 (S 355) f_y = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|--|--|---|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | A _y =17.18 cm ² | A _z =17.18 cm ² | A _x =34.36 cm ² |
| tw=0.5 cm | I _y =1736.87 cm ⁴ | I _z =1736.87 cm ⁴ | I _x =2724.16 cm ⁴ |
| tf=0.5 cm | W _{ply} =224.02 cm ³ | W _{plz} =224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|---------------------------------|---|--|----------------------------------|
| $N_{Ed} = 37.82 \text{ kN}$ | $M_{y,Ed} = 0.01 \text{ kN}\cdot\text{m}$ | $M_{z,Ed} = -6.12 \text{ kN}\cdot\text{m}$ | $V_{y,Ed} = 1.77 \text{ kN}$ |
| $N_{c,Rd} = 1219.65 \text{ kN}$ | $M_{y,Ed,max} = 0.01 \text{ kN}\cdot\text{m}$ | $M_{z,Ed,max} = -6.12 \text{ kN}\cdot\text{m}$ | $V_{y,c,Rd} = 352.08 \text{ kN}$ |
| $N_{b,Rd} = 1219.65 \text{ kN}$ | $M_{y,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $M_{z,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $V_{z,Ed} = 0.00 \text{ kN}$ |
| | $MN_{y,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $MN_{z,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $V_{z,c,Rd} = 352.08 \text{ kN}$ |
| | $M_{b,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|-------------------------------|--|----------------------|--------------------|
| $z = 1.00$ | $M_{cr} = 2384.77 \text{ kN}\cdot\text{m}$ | Curve,LT - d | $XLT = 1.00$ |
| $L_{cr,upp} = 4.00 \text{ m}$ | $\lambda_{m_LT} = 0.18$ | $\phi_{i,LT} = 0.43$ | $XLT_{mod} = 1.00$ |

BUCKLING PARAMETERS:



About y axis:

$k_{yy} = 1.00$



About z axis:

$k_{zz} = 1.00$

VERIFICATION FORMULAS:

Section strength check:

$N_{Ed}/N_{c,Rd} = 0.03 < 1.00$ (6.2.4.(1))
 $(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.01 < 1.00$ (6.2.9.1.(6))
 $V_{y,Ed}/V_{y,c,Rd} = 0.01 < 1.00$ (6.2.6.(1))
 $V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00$ (6.2.6.(1))

Global stability check of member:

$M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00$ (6.3.2.1.(1))
 $N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.11 < 1.00$ (6.3.3.(4))
 $N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.11 < 1.00$ (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$u_y = 0.1 \text{ cm} < u_{y,max} = L/200.00 = 2.0 \text{ cm}$ Verified

Governing Load Case: 23 COMB15 (1+2+3+7)*1.00

$u_z = 0.0 \text{ cm} < u_{z,max} = L/200.00 = 2.0 \text{ cm}$ Verified

Governing Load Case: 25 COMB17 (1+5)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1475

POINT: 2

COORDINATE: $x = 0.50 L = 2.00 \text{ m}$

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|------------------------|---------------------------------|---------------------------------|------------------------------|
| $h = 18.0 \text{ cm}$ | $gM0 = 1.00$ | $gM1 = 1.00$ | |
| $b = 18.0 \text{ cm}$ | $A_y = 17.18 \text{ cm}^2$ | $A_z = 17.18 \text{ cm}^2$ | $A_x = 34.36 \text{ cm}^2$ |
| $t_w = 0.5 \text{ cm}$ | $I_y = 1736.87 \text{ cm}^4$ | $I_z = 1736.87 \text{ cm}^4$ | $I_x = 2724.16 \text{ cm}^4$ |
| $t_f = 0.5 \text{ cm}$ | $W_{ply} = 224.02 \text{ cm}^3$ | $W_{plz} = 224.02 \text{ cm}^3$ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|---------------------------------|--|---|----------------------------------|
| $N_{Ed} = 0.88 \text{ kN}$ | $M_{y,Ed} = -0.01 \text{ kN}\cdot\text{m}$ | $M_{z,Ed} = 6.74 \text{ kN}\cdot\text{m}$ | $V_{y,Ed} = -0.16 \text{ kN}$ |
| $N_{c,Rd} = 1219.65 \text{ kN}$ | $M_{y,Ed,max} = -0.01 \text{ kN}\cdot\text{m}$ | $M_{z,Ed,max} = 6.74 \text{ kN}\cdot\text{m}$ | $V_{y,c,Rd} = 352.08 \text{ kN}$ |
| $N_{b,Rd} = 1219.65 \text{ kN}$ | $M_{y,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $M_{z,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | |
| | $MN_{y,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | $MN_{z,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | |
| | $M_{b,Rd} = 79.53 \text{ kN}\cdot\text{m}$ | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|-------------------------------|--|--------------------|--------------------|
| $z = 1.00$ | $M_{cr} = 2384.77 \text{ kN}\cdot\text{m}$ | Curve,LT - d | $XLT = 1.00$ |
| $L_{cr,low} = 4.00 \text{ m}$ | $\lambda_{m_LT} = 0.18$ | $\phi_{LT} = 0.43$ | $XLT_{mod} = 1.00$ |

BUCKLING PARAMETERS:



About y axis:

$k_{yy} = 1.00$



About z axis:

$k_{zz} = 1.00$

VERIFICATION FORMULAS:

Section strength check:

$N_{Ed}/N_{c,Rd} = 0.00 < 1.00$ (6.2.4.(1))

$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.02 < 1.00$ (6.2.9.1.(6))

$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00$ (6.2.6.(1))

Global stability check of member:

$M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00$ (6.3.2.1.(1))

$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00$ (6.3.3.(4))

$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.09 < 1.00$ (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$u_y = 0.2 \text{ cm} < u_{y,max} = L/200.00 = 2.0 \text{ cm}$

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

$u_z = 0.0 \text{ cm} < u_{z,max} = L/200.00 = 2.0 \text{ cm}$

Verified

Governing Load Case: 25 COMB17 (1+5)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1-2:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1482

POINT: 2

COORDINATE: $x = 0.50 L = 2.00 \text{ m}$

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|------------------------|---------------------------------|---------------------------------|------------------------------|
| $h = 18.0 \text{ cm}$ | $gM0 = 1.00$ | $gM1 = 1.00$ | |
| $b = 18.0 \text{ cm}$ | $A_y = 17.18 \text{ cm}^2$ | $A_z = 17.18 \text{ cm}^2$ | $A_x = 34.36 \text{ cm}^2$ |
| $t_w = 0.5 \text{ cm}$ | $I_y = 1736.87 \text{ cm}^4$ | $I_z = 1736.87 \text{ cm}^4$ | $I_x = 2724.16 \text{ cm}^4$ |
| $t_f = 0.5 \text{ cm}$ | $W_{ply} = 224.02 \text{ cm}^3$ | $W_{plz} = 224.02 \text{ cm}^3$ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|----------------------------|--|---|-------------------------------|
| $N_{Ed} = 0.89 \text{ kN}$ | $M_{y,Ed} = -0.02 \text{ kN}\cdot\text{m}$ | $M_{z,Ed} = 6.72 \text{ kN}\cdot\text{m}$ | $V_{y,Ed} = -0.16 \text{ kN}$ |
|----------------------------|--|---|-------------------------------|

$N_{c,Rd} = 1219.65 \text{ kN}$ $M_{y,Ed,max} = -0.02 \text{ kN}\cdot\text{m}$ $M_{z,Ed,max} = 6.72 \text{ kN}\cdot\text{m}$ $V_{y,c,Rd} = 352.08 \text{ kN}$
 $N_{b,Rd} = 1219.65 \text{ kN}$ $M_{y,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$ $M_{z,c,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $MN_{y,Rd} = 79.53 \text{ kN}\cdot\text{m}$ $MN_{z,Rd} = 79.53 \text{ kN}\cdot\text{m}$
 $M_{b,Rd} = 79.53 \text{ kN}\cdot\text{m}$

Class of section = 1



LATERAL BUCKLING PARAMETERS:

$z = 1.00$ $M_{cr} = 2384.77 \text{ kN}\cdot\text{m}$ Curve,LT - d $XLT = 1.00$
 $L_{cr,low} = 4.00 \text{ m}$ $\lambda_{m,LT} = 0.18$ $\phi_{i,LT} = 0.43$ $XLT_{mod} = 1.00$

BUCKLING PARAMETERS:



About y axis:

$k_{yy} = 1.00$



About z axis:

$k_{zz} = 1.00$

VERIFICATION FORMULAS:

Section strength check:

$N_{Ed}/N_{c,Rd} = 0.00 < 1.00$ (6.2.4.(1))
 $(M_{y,Ed}/MN_{y,Rd})^{1.66} + (M_{z,Ed}/MN_{z,Rd})^{1.66} = 0.02 < 1.00$ (6.2.9.1.(6))
 $V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00$ (6.2.6.(1))

Global stability check of member:

$M_{y,Ed,max}/M_{b,Rd} = 0.00 < 1.00$ (6.3.2.1.(1))
 $N_{Ed}/(X_y \cdot N_{Rk}/\gamma_{M1}) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/\gamma_{M1}) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/\gamma_{M1}) = 0.09 < 1.00$ (6.3.3.(4))
 $N_{Ed}/(X_z \cdot N_{Rk}/\gamma_{M1}) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/\gamma_{M1}) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/\gamma_{M1}) = 0.09 < 1.00$ (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

$u_y = 0.2 \text{ cm} < u_{y,max} = L/200.00 = 2.0 \text{ cm}$ Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

$u_z = 0.0 \text{ cm} < u_{z,max} = L/200.00 = 2.0 \text{ cm}$ Verified

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1489

POINT: 3

COORDINATE: x = 1.00 L = 4.00 m

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 180x180x5

$h = 18.0 \text{ cm}$ $gM0 = 1.00$ $gM1 = 1.00$
 $b = 18.0 \text{ cm}$ $A_y = 17.18 \text{ cm}^2$ $A_z = 17.18 \text{ cm}^2$ $A_x = 34.36 \text{ cm}^2$
 $t_w = 0.5 \text{ cm}$ $I_y = 1736.87 \text{ cm}^4$ $I_z = 1736.87 \text{ cm}^4$ $I_x = 2724.16 \text{ cm}^4$
 $t_f = 0.5 \text{ cm}$ $W_{ply} = 224.02 \text{ cm}^3$ $W_{plz} = 224.02 \text{ cm}^3$

INTERNAL FORCES AND CAPACITIES:

$N_{Ed} = 2.02 \text{ kN}$ $M_{y,Ed} = -0.35 \text{ kN}\cdot\text{m}$ $M_{z,Ed} = -0.55 \text{ kN}\cdot\text{m}$ $V_{y,Ed} = 6.48 \text{ kN}$
 $N_{c,Rd} = 1219.65 \text{ kN}$ $M_{y,Ed,max} = -0.35 \text{ kN}\cdot\text{m}$ $M_{z,Ed,max} = 5.93 \text{ kN}\cdot\text{m}$ $V_{y,c,Rd} = 352.08 \text{ kN}$

| | | | |
|--------------------|----------------------|----------------------|---------------------|
| Nb,Rd = 1219.65 kN | My,c,Rd = 79.53 kN*m | Mz,c,Rd = 79.53 kN*m | Vz,Ed = -0.07 kN |
| | MN,y,Rd = 79.53 kN*m | MN,z,Rd = 79.53 kN*m | Vz,c,Rd = 352.08 kN |
| | Mb,Rd = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|----------------|--------------------|--------------|----------------|
| z = 1.00 | Mcr = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| Lcr,low=4.00 m | Lam_LT = 0.18 | fi,LT = 0.43 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

kyy = 1.00



About z axis:

kzz = 1.00

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.00 < 1.00 (6.2.4.(1))
 $(My,Ed/MN,y,Rd)^{1.66} + (Mz,Ed/MN,z,Rd)^{1.66} = 0.00 < 1.00$ (6.2.9.1.(6))
 Vy,Ed/Vy,c,Rd = 0.02 < 1.00 (6.2.6.(1))
 Vz,Ed/Vz,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

My,Ed,max/Mb,Rd = 0.00 < 1.00 (6.3.2.1.(1))
 $N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.08 < 1.00$ (6.3.3.(4))
 $N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.08 < 1.00$ (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

uy = 0.2 cm < uy max = L/200.00 = 2.0 cm Verified

Governing Load Case: 25 COMB17 (1+5)*1.00

uz = 0.0 cm < uz max = L/200.00 = 2.0 cm Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: [BS-EN 1993-1:2005/NA:2008/A1:2014](#), [Eurocode 3: Design of steel structures](#).

ANALYSIS TYPE: [Member Verification](#)

CODE GROUP:

MEMBER: 1496

POINT: 2

COORDINATE: x = 0.50 L = 2.00 m

LOADS:

Governing Load Case: 17 COMB9 1*1.35+5*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 180x180x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=18.0 cm | gM0=1.00 | gM1=1.00 | |
| b=18.0 cm | Ay=17.18 cm ² | Az=17.18 cm ² | Ax=34.36 cm ² |
| tw=0.5 cm | Iy=1736.87 cm ⁴ | Iz=1736.87 cm ⁴ | Ix=2724.16 cm ⁴ |
| tf=0.5 cm | Wply=224.02 cm ³ | Wplz=224.02 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|--------------------|-----------------------|-----------------------|---------------------|
| N,Ed = 1.92 kN | My,Ed = 1.75 kN*m | Mz,Ed = 2.99 kN*m | Vy,Ed = -0.07 kN |
| Nc,Rd = 1219.65 kN | My,Ed,max = 1.75 kN*m | Mz,Ed,max = 2.99 kN*m | Vy,c,Rd = 352.08 kN |

| | | | |
|--------------------|----------------------|----------------------|---------------------|
| Nb,Rd = 1219.65 kN | My,c,Rd = 79.53 kN*m | Mz,c,Rd = 79.53 kN*m | Vz,Ed = 0.03 kN |
| | MN,y,Rd = 79.53 kN*m | MN,z,Rd = 79.53 kN*m | Vz,c,Rd = 352.08 kN |
| | Mb,Rd = 79.53 kN*m | | |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

| | | | |
|----------------|--------------------|--------------|----------------|
| z = 1.00 | Mcr = 2384.77 kN*m | Curve,LT - d | XLT = 1.00 |
| Lcr,upp=4.00 m | Lam_LT = 0.18 | fi,LT = 0.43 | XLT,mod = 1.00 |

BUCKLING PARAMETERS:



About y axis:

kyy = 1.00



About z axis:

kzz = 1.00

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.00 < 1.00 (6.2.4.(1))

(My,Ed/MN,y,Rd)^1.66 + (Mz,Ed/MN,z,Rd)^1.66 = 0.01 < 1.00 (6.2.9.1.(6))

Vy,Ed/Vy,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Vz,Ed/Vz,c,Rd = 0.00 < 1.00 (6.2.6.(1))

Global stability check of member:

My,Ed,max/Mb,Rd = 0.02 < 1.00 (6.3.2.1.(1))

N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00 (6.3.3.(4))

N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.06 < 1.00 (6.3.3.(4))

LIMIT DISPLACEMENTS



Deflections (LOCAL SYSTEM):

uy = 0.1 cm < uy max = L/200.00 = 2.0 cm

Verified

Governing Load Case: 21 COMB13 (1+2+3+5)*1.00

uz = 0.1 cm < uz max = L/200.00 = 2.0 cm

Verified

Governing Load Case: 22 COMB14 (1+2+3+6)*1.00



Displacements (GLOBAL SYSTEM): Not analyzed

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1503 hor rysis_1503 POINT: 2

COORDINATE: x = 0.50 L = 3.00 m

LOADS:

Governing Load Case: 12 COMB4 (1+2)*1.35+(3+4)*0.90

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 100x100x4

| | | | |
|-----------|----------------------------|----------------------------|---------------------------|
| h=10.0 cm | gM0=1.00 | gM1=1.00 | |
| b=10.0 cm | Ay=7.47 cm ² | Az=7.47 cm ² | Ax=14.95 cm ² |
| tw=0.4 cm | Iy=226.35 cm ⁴ | Iz=226.35 cm ⁴ | Ix=362.01 cm ⁴ |
| tf=0.4 cm | Wply=53.30 cm ³ | Wplz=53.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|-------------------|-----------------------|------------------------|
| N,Ed = 3.13 kN | My,Ed = 0.70 kN*m | Mz,Ed = -0.06 kN*m |
| Nc,Rd = 530.65 kN | My,Ed,max = 0.70 kN*m | Mz,Ed,max = -0.06 kN*m |

Nb,Rd = 116.35 kN

My,c,Rd = 18.92 kN*m
MN,y,Rd = 18.92 kN*m

Mz,c,Rd = 18.92 kN*m
MN,z,Rd = 18.92 kN*m

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

Ly = 6.00 m
Lcr,y = 6.00 m
Lamy = 154.19
Lam_y = 2.02
Xy = 0.22
ky = 1.01



About z axis:

Lz = 6.00 m
Lcr,z = 6.00 m
Lamz = 154.19
Lam_z = 2.02
Xz = 0.22
kyz = 0.62

VERIFICATION FORMULAS:

Section strength check:

N,Ed/Nc,Rd = 0.01 < 1.00 (6.2.4.(1))

(My,Ed/MN,y,Rd)^1.66 + (Mz,Ed/MN,z,Rd)^1.66 = 0.00 < 1.00 (6.2.9.1.(6))

Global stability check of member:

Lambda,y = 154.19 < Lambda,max = 210.00 Lambda,z = 154.19 < Lambda,max = 210.00 STABLE

N,Ed/(Xy*N,Rk/gM1) + kyy*My,Ed,max/(XLT*My,Rk/gM1) + kyz*Mz,Ed,max/(Mz,Rk/gM1) = 0.07 < 1.00 (6.3.3.(4))

N,Ed/(Xz*N,Rk/gM1) + kzy*My,Ed,max/(XLT*My,Rk/gM1) + kzz*Mz,Ed,max/(Mz,Rk/gM1) = 0.05 < 1.00 (6.3.3.(4))

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1-2:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1504 hor rysis_1504 **POINT:** 2

COORDINATE: x = 0.50 L = 1.90 m

LOADS:

Governing Load Case: 16 COMB8 1*1.35+4*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa



SECTION PARAMETERS: SQUA 100x100x4

| | | | |
|-----------|----------------------------|----------------------------|---------------------------|
| h=10.0 cm | gM0=1.00 | gM1=1.00 | |
| b=10.0 cm | Ay=7.47 cm ² | Az=7.47 cm ² | Ax=14.95 cm ² |
| tw=0.4 cm | Iy=226.35 cm ⁴ | Iz=226.35 cm ⁴ | Ix=362.01 cm ⁴ |
| tf=0.4 cm | Wply=53.30 cm ³ | Wplz=53.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|-------------------|-----------------------|------------------------|
| N,Ed = 11.68 kN | My,Ed = 0.26 kN*m | Mz,Ed = -0.07 kN*m |
| Nc,Rd = 530.65 kN | My,Ed,max = 0.26 kN*m | Mz,Ed,max = -0.07 kN*m |
| Nb,Rd = 256.22 kN | My,c,Rd = 18.92 kN*m | Mz,c,Rd = 18.92 kN*m |
| | MN,y,Rd = 18.92 kN*m | MN,z,Rd = 18.92 kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

Ly = 3.80 m
Lcr,y = 3.80 m
Lam_y = 1.28
Xy = 0.48



About z axis:

Lz = 3.80 m
Lcr,z = 3.80 m
Lam_z = 1.28
Xz = 0.48

Lamy = 97.65

kyy = 1.03

Lamz = 97.65

kyz = 0.63

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.02 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\Lambda_{b,y} = 97.65 < \Lambda_{b,max} = 210.00 \quad \Lambda_{b,z} = 97.65 < \Lambda_{b,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!**STEEL DESIGN****CODE:** BS-EN 1993-1-2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.**ANALYSIS TYPE:** Member Verification**CODE GROUP:****MEMBER:** 1505 hor rysis_1505 **POINT:** 2**COORDINATE:** x = 0.50 L = 2.50 m**LOADS:**

Governing Load Case: 18 COMB10 1*1.35+6*1.30

MATERIAL:S 355 (S 355) $f_y = 355.00 \text{ MPa}$ **SECTION PARAMETERS: SQUA 100x100x4**

h=10.0 cm

gM0=1.00

gM1=1.00

b=10.0 cm

Ay=7.47 cm²Az=7.47 cm²Ax=14.95 cm²

tw=0.4 cm

Iy=226.35 cm⁴Iz=226.35 cm⁴Ix=362.01 cm⁴

tf=0.4 cm

Wply=53.30 cm³Wplz=53.30 cm³**INTERNAL FORCES AND CAPACITIES:**N_{Ed} = 4.46 kNM_{y,Ed} = 0.43 kN*mM_{z,Ed} = -0.08 kN*mN_{c,Rd} = 530.65 kNM_{y,Ed,max} = 0.43 kN*mM_{z,Ed,max} = -0.08 kN*mN_{b,Rd} = 162.00 kNM_{y,c,Rd} = 18.92 kN*mM_{z,c,Rd} = 18.92 kN*mM_{N,y,Rd} = 18.92 kN*mM_{N,z,Rd} = 18.92 kN*m

Class of section = 1

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:

L_y = 5.00 mΛ_{b,y} = 1.68L_{cr,y} = 5.00 mX_y = 0.31

Lamy = 128.49

kyy = 1.01



About z axis:

L_z = 5.00 mΛ_{b,z} = 1.68L_{cr,z} = 5.00 mX_z = 0.31

Lamz = 128.49

kyz = 0.62

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\Lambda_{b,y} = 128.49 < \Lambda_{b,max} = 210.00 \quad \Lambda_{b,z} = 128.49 < \Lambda_{b,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1506 hor rysis_1506 POINT: 2

COORDINATE: x = 0.50 L = 3.00 m

LOADS:

Governing Load Case: 14 COMB6 1*1.35+2*1.30+(3+6)*0.90

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa



SECTION PARAMETERS: SQUA 100x100x4

| | | | |
|--------------|---------------------------------|---------------------------------|------------------------------|
| $h=10.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=10.0$ cm | $A_y=7.47$ cm ² | $A_z=7.47$ cm ² | $A_x=14.95$ cm ² |
| $t_w=0.4$ cm | $I_y=226.35$ cm ⁴ | $I_z=226.35$ cm ⁴ | $I_x=362.01$ cm ⁴ |
| $t_f=0.4$ cm | $W_{ply}=53.30$ cm ³ | $W_{plz}=53.30$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|------------------------|----------------------------|-----------------------------|
| $N_{Ed} = 3.14$ kN | $M_{y,Ed} = 0.71$ kN*m | $M_{z,Ed} = -0.06$ kN*m |
| $N_{c,Rd} = 530.65$ kN | $M_{y,Ed,max} = 0.71$ kN*m | $M_{z,Ed,max} = -0.06$ kN*m |
| $N_{b,Rd} = 116.35$ kN | $M_{y,c,Rd} = 18.92$ kN*m | $M_{z,c,Rd} = 18.92$ kN*m |
| | $MN_{y,Rd} = 18.92$ kN*m | $MN_{z,Rd} = 18.92$ kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

| | |
|-------------------------|------------------------|
| $L_y = 6.00$ m | $\Lambda_{m,y} = 2.02$ |
| $L_{cr,y} = 6.00$ m | $X_y = 0.22$ |
| $\Lambda_{my} = 154.19$ | $k_{yy} = 1.01$ |



About z axis:

| | |
|-------------------------|------------------------|
| $L_z = 6.00$ m | $\Lambda_{m,z} = 2.02$ |
| $L_{cr,z} = 6.00$ m | $X_z = 0.22$ |
| $\Lambda_{mz} = 154.19$ | $k_{yz} = 0.62$ |

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\Lambda_{m,y} = 154.19 < \Lambda_{m,y,max} = 210.00 \quad \Lambda_{m,z} = 154.19 < \Lambda_{m,z,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.07 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1507 hor rysis_1507 POINT: 2

COORDINATE: x = 0.50 L = 3.00 m

LOADS:

Governing Load Case: 14 COMB6 $1 \cdot 1.35 + 2 \cdot 1.30 + (3+6) \cdot 0.90$

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa

**SECTION PARAMETERS: SQUA 100x100x4**

| | | | |
|--------------|---------------------------------|---------------------------------|------------------------------|
| $h=10.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=10.0$ cm | $A_y=7.47$ cm ² | $A_z=7.47$ cm ² | $A_x=14.95$ cm ² |
| $t_w=0.4$ cm | $I_y=226.35$ cm ⁴ | $I_z=226.35$ cm ⁴ | $I_x=362.01$ cm ⁴ |
| $t_f=0.4$ cm | $W_{ply}=53.30$ cm ³ | $W_{plz}=53.30$ cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|------------------------|----------------------------|-----------------------------|
| $N_{Ed} = 3.11$ kN | $M_{y,Ed} = 0.70$ kN*m | $M_{z,Ed} = -0.02$ kN*m |
| $N_{c,Rd} = 530.65$ kN | $M_{y,Ed,max} = 0.70$ kN*m | $M_{z,Ed,max} = -0.02$ kN*m |
| $N_{b,Rd} = 116.35$ kN | $M_{y,c,Rd} = 18.92$ kN*m | $M_{z,c,Rd} = 18.92$ kN*m |
| | $MN_{y,Rd} = 18.92$ kN*m | $MN_{z,Rd} = 18.92$ kN*m |

Class of section = 1

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:

| | |
|--------------------------|------------------------|
| $L_y = 6.00$ m | $\lambda_{m,y} = 2.02$ |
| $L_{cr,y} = 6.00$ m | $X_y = 0.22$ |
| $\lambda_{m,y} = 154.19$ | $k_{yy} = 1.01$ |



About z axis:

| | |
|--------------------------|------------------------|
| $L_z = 6.00$ m | $\lambda_{m,z} = 2.02$ |
| $L_{cr,z} = 6.00$ m | $X_z = 0.22$ |
| $\lambda_{m,z} = 154.19$ | $k_{yz} = 0.62$ |

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\lambda_{m,y} = 154.19 < \lambda_{m,max} = 210.00 \quad \lambda_{m,z} = 154.19 < \lambda_{m,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1508 hor rysis_1508 **POINT:** 2

COORDINATE: $x = 0.50$ L = 3.00 m

LOADS:

Governing Load Case: 12 COMB4 $(1+2) \cdot 1.35 + (3+4) \cdot 0.90$

MATERIAL:

S 355 (S 355) $f_y = 355.00$ MPa

**SECTION PARAMETERS: SQUA 100x100x4**

| | | | |
|--------------|------------------------------|------------------------------|------------------------------|
| $h=10.0$ cm | $gM0=1.00$ | $gM1=1.00$ | |
| $b=10.0$ cm | $A_y=7.47$ cm ² | $A_z=7.47$ cm ² | $A_x=14.95$ cm ² |
| $t_w=0.4$ cm | $I_y=226.35$ cm ⁴ | $I_z=226.35$ cm ⁴ | $I_x=362.01$ cm ⁴ |

tf=0.4 cm

Wply=53.30 cm³

Wplz=53.30 cm³

INTERNAL FORCES AND CAPACITIES:

N_{Ed} = 3.12 kN

M_{y,Ed} = 0.69 kN*m

M_{z,Ed} = -0.01 kN*m

N_{c,Rd} = 530.65 kN

M_{y,Ed,max} = 0.69 kN*m

M_{z,Ed,max} = -0.01 kN*m

N_{b,Rd} = 116.35 kN

M_{y,c,Rd} = 18.92 kN*m

M_{z,c,Rd} = 18.92 kN*m

M_{N,y,Rd} = 18.92 kN*m

M_{N,z,Rd} = 18.92 kN*m

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

L_y = 6.00 m

Lam_y = 2.02

L_{cr,y} = 6.00 m

X_y = 0.22

Lam_y = 154.19

k_{yy} = 1.01



About z axis:

L_z = 6.00 m

Lam_z = 2.02

L_{cr,z} = 6.00 m

X_z = 0.22

Lam_z = 154.19

k_{yz} = 0.62

VERIFICATION FORMULAS:

Section strength check:

N_{Ed}/N_{c,Rd} = 0.01 < 1.00 (6.2.4.(1))

(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 (6.2.9.1.(6))

Global stability check of member:

Lam_{da,y} = 154.19 < Lam_{da,max} = 210.00 Lam_{da,z} = 154.19 < Lam_{da,max} = 210.00 STABLE

N_{Ed}/(X_y*N_{Rk}/gM1) + k_{yy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{yz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00 (6.3.3.(4))

N_{Ed}/(X_z*N_{Rk}/gM1) + k_{zy}*M_{y,Ed,max}/(XLT*M_{y,Rk}/gM1) + k_{zz}*M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 (6.3.3.(4))

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1509 hor rysis_1509 **POINT:** 2

COORDINATE: x = 0.50 L = 3.00 m

LOADS:

Governing Load Case: 12 COMB4 (1+2)*1.35+(3+4)*0.90

MATERIAL:

S 355 (S 355) f_y = 355.00 MPa



SECTION PARAMETERS: SQUA 100x100x4

h=10.0 cm

gM0=1.00

gM1=1.00

b=10.0 cm

A_y=7.47 cm²

A_z=7.47 cm²

A_x=14.95 cm²

tw=0.4 cm

I_y=226.35 cm⁴

I_z=226.35 cm⁴

I_x=362.01 cm⁴

tf=0.4 cm

W_{ply}=53.30 cm³

W_{plz}=53.30 cm³

INTERNAL FORCES AND CAPACITIES:

N_{Ed} = 3.11 kN

M_{y,Ed} = 0.69 kN*m

M_{z,Ed} = -0.02 kN*m

N_{c,Rd} = 530.65 kN

M_{y,Ed,max} = 0.69 kN*m

M_{z,Ed,max} = -0.02 kN*m

N_{b,Rd} = 116.35 kN

M_{y,c,Rd} = 18.92 kN*m

M_{z,c,Rd} = 18.92 kN*m

M_{N,y,Rd} = 18.92 kN*m

M_{N,z,Rd} = 18.92 kN*m

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:

About y axis:

Ly = 6.00 m Lam_y = 2.02
 Lcr,y = 6.00 m Xy = 0.22
 Lamy = 154.19 kyy = 1.01



About z axis:

Lz = 6.00 m Lam_z = 2.02
 Lcr,z = 6.00 m Xz = 0.22
 Lamz = 154.19 kyz = 0.62

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

$$\lambda_{b,y} = 154.19 < \lambda_{b,max} = 210.00 \quad \lambda_{b,z} = 154.19 < \lambda_{b,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.06 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!**STEEL DESIGN****CODE:** *BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.***ANALYSIS TYPE:** Member Verification**CODE GROUP:****MEMBER:** 1510 hor rysis_1510 **POINT:** 2**COORDINATE:** x = 0.32 L = 1.79 m**LOADS:**

Governing Load Case: 18 COMB10 1*1.35+6*1.30

MATERIAL:

S 355 (S 355) fy = 355.00 MPa

**SECTION PARAMETERS: SQUA 140x140x5**

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=14.0 cm | gM0=1.00 | gM1=1.00 | |
| b=14.0 cm | Ay=13.18 cm ² | Az=13.18 cm ² | Ax=26.36 cm ² |
| tw=0.5 cm | Iy=790.56 cm ⁴ | Iz=790.56 cm ⁴ | Ix=1255.76 cm ⁴ |
| tf=0.5 cm | Wply=132.30 cm ³ | Wplz=132.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | | |
|-------------------------------|-----------------------------------|------------------------------------|---------------------------------|
| N _{Ed} = 8.68 kN | M _{y,Ed} = 0.63 kN*m | M _{z,Ed} = -0.03 kN*m | V _{y,Ed} = 0.01 kN |
| N _{c,Rd} = 935.65 kN | M _{y,Ed,max} = 0.72 kN*m | M _{z,Ed,max} = -0.03 kN*m | V _{y,c,Rd} = 270.10 kN |
| N _{b,Rd} = 430.20 kN | M _{y,c,Rd} = 46.97 kN*m | M _{z,c,Rd} = 46.97 kN*m | V _{z,Ed} = 0.18 kN |
| | M _{N,y,Rd} = 46.97 kN*m | M _{N,z,Rd} = 46.97 kN*m | V _{z,c,Rd} = 270.10 kN |
| | | | Class of section = 1 |

**LATERAL BUCKLING PARAMETERS:****BUCKLING PARAMETERS:**

About y axis:

Ly = 5.52 m Lam_y = 1.32
 Lcr,y = 5.52 m Xy = 0.46
 Lamy = 100.79 kyy = 1.01



About z axis:

Lz = 5.52 m Lam_z = 1.32
 Lcr,z = 5.52 m Xz = 0.46
 Lamz = 100.79 kyz = 0.61

VERIFICATION FORMULAS:**Section strength check:**

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

$$V_{y,Ed}/V_{y,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

$$V_{z,Ed}/V_{z,c,Rd} = 0.00 < 1.00 \quad (6.2.6.(1))$$

Global stability check of member:

$$\Lambda_{y,Ed} = 100.79 < \Lambda_{y,max} = 210.00 \quad \Lambda_{z,Ed} = 100.79 < \Lambda_{z,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.04 < 1.00 \quad (6.3.3.(4))$$

$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.03 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

STEEL DESIGN

CODE: BS-EN 1993-1:2005/NA:2008/A1:2014, Eurocode 3: Design of steel structures.

ANALYSIS TYPE: Member Verification

CODE GROUP:

MEMBER: 1511 hor rysis_1511 **POINT:** 2

COORDINATE: x = 0.50 L = 3.20 m

LOADS:

Governing Load Case: 16 COMB8 1*1.35+4*1.30

MATERIAL:

S 355 (S 355) $f_y = 355.00 \text{ MPa}$



SECTION PARAMETERS: SQUA 140x140x5

| | | | |
|-----------|-----------------------------|-----------------------------|----------------------------|
| h=14.0 cm | gM0=1.00 | gM1=1.00 | |
| b=14.0 cm | Ay=13.18 cm ² | Az=13.18 cm ² | Ax=26.36 cm ² |
| tw=0.5 cm | Iy=790.56 cm ⁴ | Iz=790.56 cm ⁴ | Ix=1255.76 cm ⁴ |
| tf=0.5 cm | Wply=132.30 cm ³ | Wplz=132.30 cm ³ | |

INTERNAL FORCES AND CAPACITIES:

| | | |
|-------------------------------|-----------------------------------|-----------------------------------|
| N _{Ed} = 8.83 kN | M _{y,Ed} = 1.10 kN*m | M _{z,Ed} = 0.03 kN*m |
| N _{c,Rd} = 935.65 kN | M _{y,Ed,max} = 1.10 kN*m | M _{z,Ed,max} = 0.03 kN*m |
| N _{b,Rd} = 336.64 kN | M _{y,c,Rd} = 46.97 kN*m | M _{z,c,Rd} = 46.97 kN*m |
| | MN _{y,Rd} = 46.97 kN*m | MN _{z,Rd} = 46.97 kN*m |

Class of section = 1



LATERAL BUCKLING PARAMETERS:

BUCKLING PARAMETERS:



About y axis:

| | |
|----------------------------|-------------------------|
| L _y = 6.41 m | Lam _y = 1.53 |
| L _{cr,y} = 6.41 m | X _y = 0.36 |
| Lam _y = 116.96 | k _{yy} = 1.01 |



About z axis:

| | |
|----------------------------|-------------------------|
| L _z = 6.41 m | Lam _z = 1.53 |
| L _{cr,z} = 6.41 m | X _z = 0.36 |
| Lam _z = 116.96 | k _{yz} = 0.62 |

VERIFICATION FORMULAS:

Section strength check:

$$N_{Ed}/N_{c,Rd} = 0.01 < 1.00 \quad (6.2.4.(1))$$

$$(M_{y,Ed}/M_{N,y,Rd})^{1.66} + (M_{z,Ed}/M_{N,z,Rd})^{1.66} = 0.00 < 1.00 \quad (6.2.9.1.(6))$$

Global stability check of member:

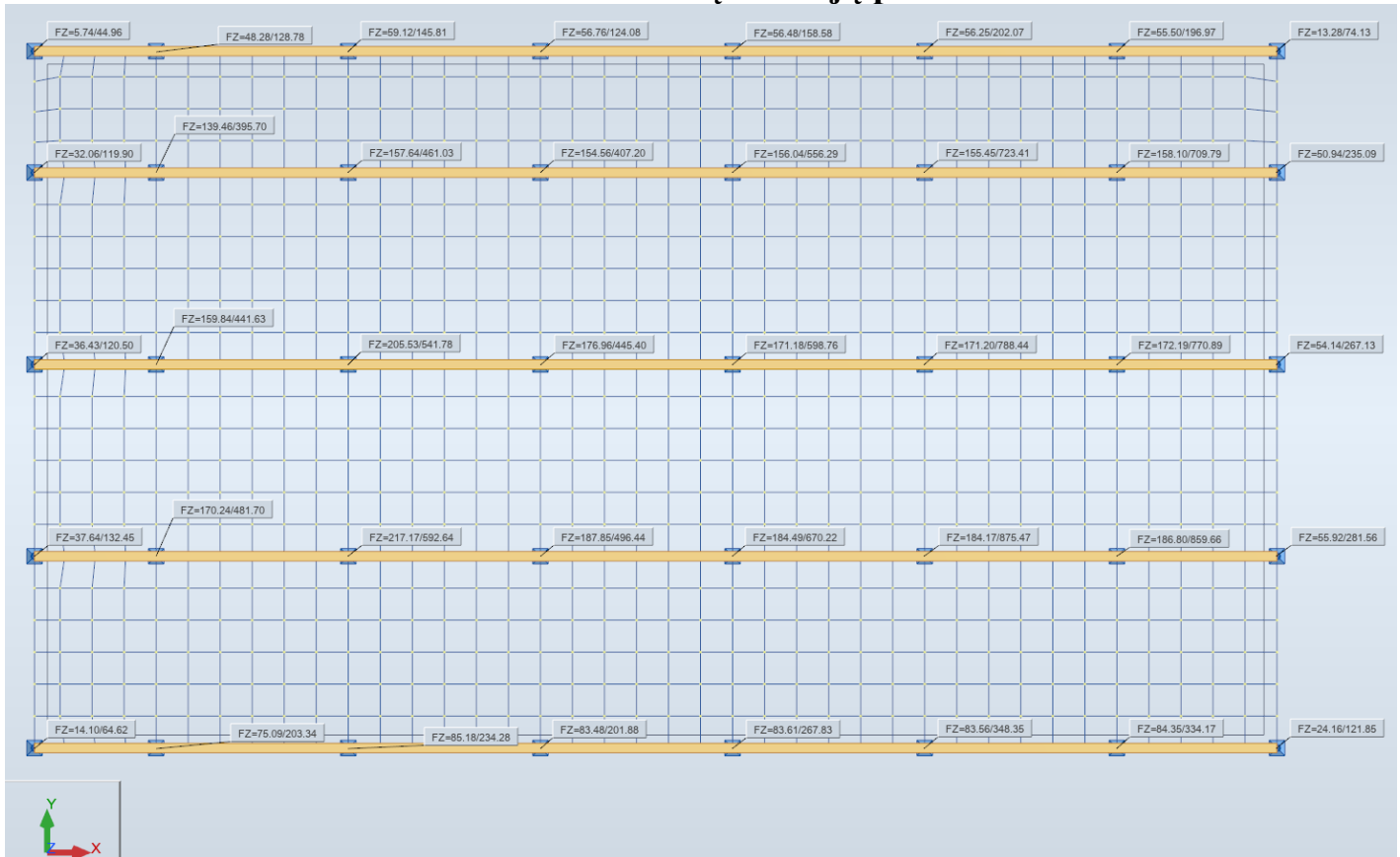
$$\Lambda_{y,Ed} = 116.96 < \Lambda_{y,max} = 210.00 \quad \Lambda_{z,Ed} = 116.96 < \Lambda_{z,max} = 210.00 \quad \text{STABLE}$$

$$N_{Ed}/(X_y \cdot N_{Rk}/gM1) + k_{yy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{yz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.05 < 1.00 \quad (6.3.3.(4))$$

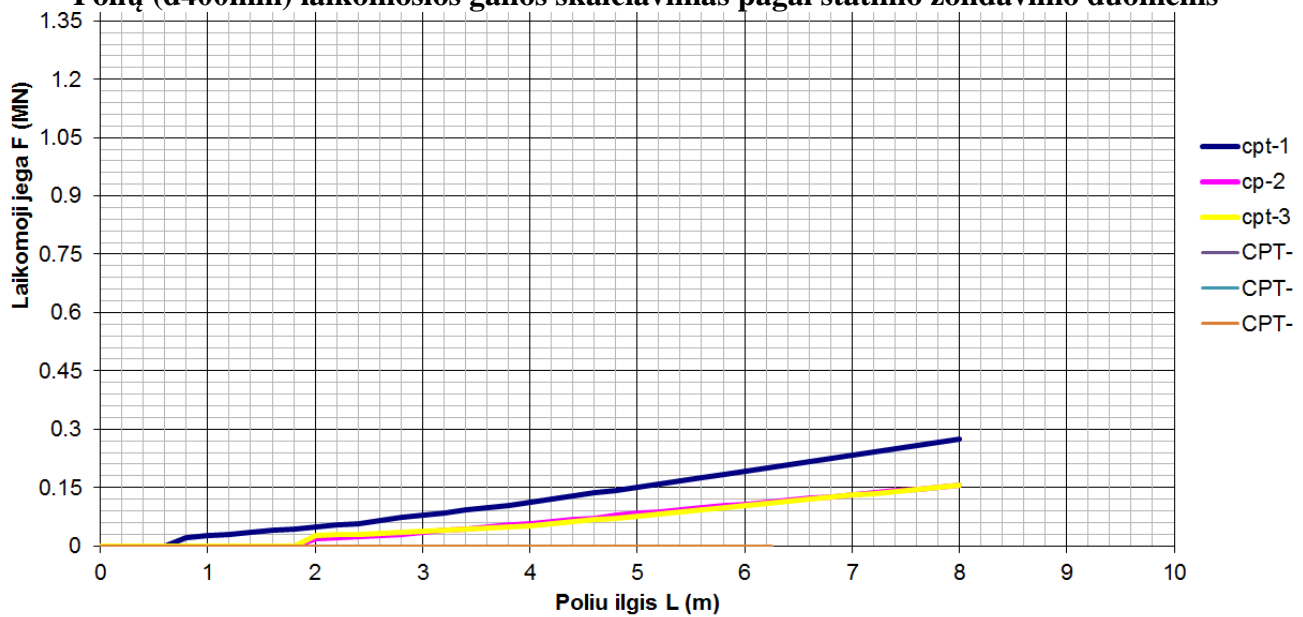
$$N_{Ed}/(X_z \cdot N_{Rk}/gM1) + k_{zy} \cdot M_{y,Ed,max}/(XLT \cdot M_{y,Rk}/gM1) + k_{zz} \cdot M_{z,Ed,max}/(M_{z,Rk}/gM1) = 0.04 < 1.00 \quad (6.3.3.(4))$$

Section OK !!!

Atraminių reakcijų planas



Polų (d400mm) laikomosios galios skaičiavimas pagal statinio zondavimo duomenis



| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------------|----------------------|--|----|--------|---------|------------|---------|---------|---------|---------|---------|---------|-------------|---------|---------|---|
| CPT-1 | | | | | | | | | | | | | | | | | |
| D= | 0.4 m | | | | | | | | | | | | | | | | |
| Ab= | 0.126 m² | | | | | | | | | | | | | | | | |
| As/1m= | 1.257 m²/m | | | | | | | | | | | | | | | | |
| Modeliavimo koeficientas | | | | | | | | | | | | | | | | | |
| gama RB= | 2 | | Rb=alfab*qc*Ab | | | | | | | | | | | | | | |
| gama RS= | 1.5 | | | | | | | | | | | | | | | | |
| Tyrimu tikslumo koeficientas | | | | | | | | | | | | | | | | | |
| ksi= | 1.3 | | | | | | | | | | | | | | | | |
| Projektines situacijos koeficientas | | | 0= | | | | | | | | | | | | | | |
| gama t= | 1.1 | | zond alt 0 PVA 0 | | | | | | | | | | | | | | |
| polio virsus gylyje | | | 0 | | | | | | | | | | | | | | |
| | | | 1 2 3 4 | | | | | | | | | | | | | | |
| | | | moren mo juost mol dulkis smelis skaic atv | | | | | | | | | | | | | | |
| Gylis, m | polio ilgis | q _c , MPa | Grunto tipa | fs | alfa b | Rb, MPa | Rb vid, MP | qs, MPa | qs, MPa | qs, MPa | qs, MPa | qs, MPa | Rs, MPa | Rc cal, MPa | Rc k | Rc d | |
| 0 | 0 | 0.0 | 2 | | 1 | 0 | 0.0301593 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.2 | 0.2 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.4 | 0.4 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.6 | 0.6 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.8 | 0.8 | 0.4 | 2 | | 1 | 0.05027 | 0.0578053 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.00352 | 0.0312484 | 0.02404 | 0.02185 | |
| 1 | 1 | 0.4 | 2 | | 1 | 0.05027 | 0.0653451 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.00704 | 0.037364 | 0.02874 | 0.02613 | |
| 1.2 | 1.2 | 0.4 | 2 | | 1 | 0.05027 | 0.0728849 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.01056 | 0.0434796 | 0.03345 | 0.03041 | |
| 1.4 | 1.4 | 0.4 | 2 | | 1 | 0.05027 | 0.0804248 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.01407 | 0.0495953 | 0.03815 | 0.03468 | |
| 1.6 | 1.6 | 0.4 | 2 | | 1 | 0.05027 | 0.0879646 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.01759 | 0.0557109 | 0.04285 | 0.03896 | |
| 1.8 | 1.8 | 0.4 | 2 | | 1 | 0.05027 | 0.0955044 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.02111 | 0.0618265 | 0.04756 | 0.04324 | |
| 2 | 2 | 0.4 | 2 | | 1 | 0.05027 | 0.1043009 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.02463 | 0.0685705 | 0.05275 | 0.04795 | |
| 2.2 | 2.2 | 0.4 | 2 | | 1 | 0.05027 | 0.1130973 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.02815 | 0.0753144 | 0.05793 | 0.05267 | |
| 2.4 | 2.4 | 0.4 | 2 | | 1 | 0.05027 | 0.1218938 | 0.02 | 0.014 | 0.01 | 0.004 | 0.014 | 0.03167 | 0.0820584 | 0.06312 | 0.05738 | |
| 2.6 | 2.6 | 1.0 | 1 | | 1 | 0.12566 | 0.1306903 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.04423 | 0.0948342 | 0.07295 | 0.06632 | |
| 2.8 | 2.8 | 1.0 | 1 | | 1 | 0.12566 | 0.1319469 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.0568 | 0.1038401 | 0.07988 | 0.07262 | |
| 3 | 3 | 1.0 | 1 | | 1 | 0.12566 | 0.1332035 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.06937 | 0.112846 | 0.0868 | 0.07891 | |
| 3.2 | 3.2 | 1.0 | 1 | | 1 | 0.12566 | 0.1344602 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.08193 | 0.1218519 | 0.09373 | 0.08521 | |
| 3.4 | 3.4 | 1.0 | 1 | | 1 | 0.12566 | 0.1357168 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.0945 | 0.1308578 | 0.10066 | 0.09151 | |
| 3.6 | 3.6 | 1.0 | 1 | | 1 | 0.12566 | 0.1369734 | 0.05 | 0.035 | 0.025 | 0.01 | 0.05 | 0.10707 | 0.1398637 | 0.10759 | 0.09781 | |
| 3.8 | 3.8 | 1.1 | 1 | | 1 | 0.13823 | 0.1382301 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.12089 | 0.1497074 | 0.11516 | 0.10469 | |
| 4 | 4 | 1.1 | 1 | | 1 | 0.13823 | 0.142 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.13471 | 0.1608077 | 0.1237 | 0.11245 | |
| 4.2 | 4.2 | 1.1 | 1 | | 1 | 0.13823 | 0.1457699 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.14853 | 0.171908 | 0.13224 | 0.12022 | |
| 4.4 | 4.4 | 1.1 | 1 | | 1 | 0.13823 | 0.1495398 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.16236 | 0.1830082 | 0.14078 | 0.12798 | |
| 4.6 | 4.6 | 1.1 | 1 | | 1 | 0.13823 | 0.1533097 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.17618 | 0.1941085 | 0.14931 | 0.13574 | |
| 4.8 | 4.8 | 1.1 | 1 | | 1 | 0.13823 | 0.1570796 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.19 | 0.2052088 | 0.15785 | 0.1435 | |
| 5 | 5 | 1.1 | 1 | | 1 | 0.13823 | 0.1608495 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.20383 | 0.2163091 | 0.16639 | 0.15127 | |
| 5.2 | 5.2 | 1.1 | 1 | | 1 | 0.13823 | 0.1646195 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.21765 | 0.2274094 | 0.17493 | 0.15903 | |
| 5.4 | 5.4 | 1.1 | 1 | | 1 | 0.13823 | 0.1683894 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.23147 | 0.2385097 | 0.18347 | 0.16679 | |
| 5.6 | 5.6 | 1.1 | 1 | | 1 | 0.13823 | 0.1721593 | 0.055 | 0.0385 | 0.0275 | 0.011 | 0.055 | 0.2453 | 0.24961 | 0.19201 | 0.17455 | |
| 5.8 | 5.8 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.26289 | 0.2632236 | 0.20248 | 0.18407 | |
| 6 | 6 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.28048 | 0.2749522 | 0.2115 | 0.19227 | |
| 6.2 | 6.2 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.29807 | 0.2866808 | 0.22052 | 0.20048 | |
| 6.4 | 6.4 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.31567 | 0.2984094 | 0.22955 | 0.20868 | |
| 6.6 | 6.6 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.33326 | 0.310138 | 0.23857 | 0.21688 | |
| 6.8 | 6.8 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.35085 | 0.3218666 | 0.24759 | 0.22508 | |
| 7 | 7 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.36845 | 0.3335953 | 0.25661 | 0.23328 | |
| 7.2 | 7.2 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.38604 | 0.3453239 | 0.26563 | 0.24149 | |
| 7.4 | 7.4 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.40363 | 0.3570525 | 0.27466 | 0.24969 | |
| 7.6 | 7.6 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.42122 | 0.3687811 | 0.28368 | 0.25789 | |
| 7.8 | 7.8 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.43882 | 0.3805097 | 0.2927 | 0.26609 | |
| 8 | 8 | 1.4 | 1 | | 1 | 0.17593 | 0.1759292 | 0.07 | 0.049 | 0.035 | 0.014 | 0.07 | 0.45641 | 0.3922383 | 0.30172 | 0.27429 | |

| | | | | | | | | | | | | | | | | |
|-------------------------------------|------------|----------------------|-------------|----------------|--------|----------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|------------|--------|--------|
| CPT-2 | | | | | | | | | | | | | | | | |
| D= | 0.4 m | | | | | | | | | | | | | | | |
| Ab= | 0.126 m² | | | | | | | | | | | | | | | |
| As/lm= | 1.257 m²/m | | | | | | | | | | | | | | | |
| Modeliavimo koeficientas | | | | | | | | | | | | | | | | |
| gama RB= | 2 | | | | | Rb=alfab*qc*Ab | | | | | | | | | | |
| gama RS= | 1.5 | | | | | | | | | | | | | | | |
| Tyrimu tikslumo koeficientas | | | | | | | | | | | | | | | | |
| ksi= | 1.3 | | | | | | | | | | | | | | | |
| Projektinės situacijos koeficientas | | | | 0= | 0 PVA | 0 | | | | | | | | | | |
| gama t= | 1 | | | zond alt | 0 | | | | | | | | | | | |
| polio virusų gylyje | 0 | | | | | | | 1 | 2 | 3 | 4 | | | | | |
| | | | | | | | | moren m | juost mol | dulkis | smelis | skaic atv | | | | |
| Gylis, m | polio ilgi | q _c , MPa | Grunto tipa | f _s | alfa b | Rb, MPa | Rb vid, MP | q _s , MPa | q _s , MPa | q _s , MPa | q _s , MPa | q _s , MPa | Rs, MPa | Rc cal, MP | Rc k | Rc d |
| 0 | 0 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.2 | 0.2 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.4 | 0.4 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.6 | 0.6 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.8 | 0.8 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.2 | 1.2 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.4 | 1.4 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.6 | 1.6 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.8 | 1.8 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0.2 | 2 | | 1 | 0.0251 | 0.046747 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.0018 | 0.024546 | 0.0189 | 0.0189 |
| 2.2 | 2.2 | 0.2 | 2 | | 1 | 0.0251 | 0.051019 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.0035 | 0.027855 | 0.0214 | 0.0214 |
| 2.4 | 2.4 | 0.2 | 2 | | 1 | 0.0251 | 0.055292 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.0053 | 0.031165 | 0.024 | 0.024 |
| 2.6 | 2.6 | 0.2 | 2 | | 1 | 0.0251 | 0.059565 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.007 | 0.034474 | 0.0265 | 0.0265 |
| 2.8 | 2.8 | 0.2 | 2 | | 1 | 0.0251 | 0.063837 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.0088 | 0.037783 | 0.0291 | 0.0291 |
| 3 | 3 | 0.2 | 2 | | 1 | 0.0251 | 0.072634 | 0.01 | 0.007 | 0.005 | 0.002 | 0.007 | 0.0106 | 0.043354 | 0.0333 | 0.0333 |
| 3.2 | 3.2 | 0.9 | 2 | | 1 | 0.1131 | 0.08143 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0315 | 0.0185 | 0.053303 | 0.0408 | 0.0408 |
| 3.4 | 3.4 | 0.9 | 3 | | 0.6 | 0.0679 | 0.08143 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0241 | 0.0568 | 0.0437 | 0.0437 |
| 3.6 | 3.6 | 0.9 | 3 | | 0.6 | 0.0679 | 0.085954 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0298 | 0.062832 | 0.0483 | 0.0483 |
| 3.8 | 3.8 | 0.9 | 3 | | 0.6 | 0.0679 | 0.090478 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0354 | 0.068864 | 0.053 | 0.053 |
| 4 | 4 | 0.9 | 3 | | 0.6 | 0.0679 | 0.095002 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0411 | 0.074896 | 0.0576 | 0.0576 |
| 4.2 | 4.2 | 0.9 | 3 | | 0.6 | 0.0679 | 0.099526 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0467 | 0.080927 | 0.0623 | 0.0623 |
| 4.4 | 4.4 | 0.9 | 3 | | 0.6 | 0.0679 | 0.10405 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0524 | 0.086959 | 0.0669 | 0.0669 |
| 4.6 | 4.6 | 0.9 | 3 | | 0.6 | 0.0679 | 0.108573 | 0.045 | 0.0315 | 0.0225 | 0.009 | 0.0225 | 0.0581 | 0.092991 | 0.0715 | 0.0715 |
| 4.8 | 4.8 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.0675 | 0.101536 | 0.0781 | 0.0781 |
| 5 | 5 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.0769 | 0.107819 | 0.0829 | 0.0829 |
| 5.2 | 5.2 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.0863 | 0.114103 | 0.0878 | 0.0878 |
| 5.4 | 5.4 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.0958 | 0.120386 | 0.0926 | 0.0926 |
| 5.6 | 5.6 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1052 | 0.126669 | 0.0974 | 0.0974 |
| 5.8 | 5.8 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1146 | 0.132952 | 0.1023 | 0.1023 |
| 6 | 6 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.124 | 0.139235 | 0.1071 | 0.1071 |
| 6.2 | 6.2 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1335 | 0.145519 | 0.1119 | 0.1119 |
| 6.4 | 6.4 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1429 | 0.151802 | 0.1168 | 0.1168 |
| 6.6 | 6.6 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1523 | 0.158085 | 0.1216 | 0.1216 |
| 6.8 | 6.8 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1617 | 0.164368 | 0.1264 | 0.1264 |
| 7 | 7 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1712 | 0.170651 | 0.1313 | 0.1313 |
| 7.2 | 7.2 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1806 | 0.176934 | 0.1361 | 0.1361 |
| 7.4 | 7.4 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.19 | 0.183218 | 0.1409 | 0.1409 |
| 7.6 | 7.6 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.1994 | 0.189501 | 0.1458 | 0.1458 |
| 7.8 | 7.8 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.2089 | 0.195784 | 0.1506 | 0.1506 |
| 8 | 8 | 1.5 | 3 | | 0.6 | 0.1131 | 0.113097 | 0.075 | 0.0525 | 0.0375 | 0.015 | 0.0375 | 0.2183 | 0.202067 | 0.1554 | 0.1554 |

| CPT-3 | | | | | | | | | | | | | | | | |
|-------------------------------------|------------|----------------------|-------------|----|--------|----------------|------------|---------|-----------|--------|--------|-----------|---------|------------|--------|--------|
| D= | 0.4 | m | | | | | | | | | | | | | | |
| Ab= | 0.126 | m ² | | | | | | | | | | | | | | |
| As/lm= | 1.257 | m ² /m | | | | | | | | | | | | | | |
| Modeliavimo koeficientas | | | | | | | | | | | | | | | | |
| gama RB= | 2 | | | | | Rb=alfab*qc*Ab | | | | | | | | | | |
| gama RS= | 1.5 | | | | | | | | | | | | | | | |
| Tyrimu tikslumo koeficientas | | | | | | | | | | | | | | | | |
| kai= | 1.3 | | | | | | | | | | | | | | | |
| Projektines situacijos koeficientas | | | | | | 0= | 0 PVA | 0 | | | | | | | | |
| gama t= | 1 | | | | | zond alt | 0 | | | | | | | | | |
| polio virusus gylyje | 0 | | | | | | | 1 | 2 | 3 | 4 | | | | | |
| Gylis, m | polio ilgi | q _c , MPa | Grunto tipa | fs | alfa b | Rb, MPa | Rb vid, MP | moren m | juost mol | dulkis | smelis | skaic atv | Rs, MPa | Rc cal, MP | Rc k | Rc d |
| 0 | 0 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.2 | 0.2 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.4 | 0.4 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.6 | 0.6 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.8 | 0.8 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.2 | 1.2 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.4 | 1.4 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.6 | 1.6 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.8 | 1.8 | 0.0 | 2 | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2 | 0.5 | 2 | | 1 | 0.0628 | 0.061575 | 0.025 | 0.0175 | 0.0125 | 0.005 | 0.0175 | 0.0044 | 0.03372 | 0.0259 | 0.0259 |
| 2.2 | 2.2 | 0.5 | 2 | | 1 | 0.0628 | 0.061324 | 0.025 | 0.0175 | 0.0125 | 0.005 | 0.0175 | 0.0088 | 0.036526 | 0.0281 | 0.0281 |
| 2.4 | 2.4 | 0.5 | 2 | | 1 | 0.0628 | 0.061073 | 0.025 | 0.0175 | 0.0125 | 0.005 | 0.0175 | 0.0132 | 0.039333 | 0.0303 | 0.0303 |
| 2.6 | 2.6 | 0.5 | 2 | | 1 | 0.0628 | 0.060821 | 0.025 | 0.0175 | 0.0125 | 0.005 | 0.0175 | 0.0176 | 0.042139 | 0.0324 | 0.0324 |
| 2.8 | 2.8 | 0.5 | 2 | | 1 | 0.0628 | 0.06057 | 0.025 | 0.0175 | 0.0125 | 0.005 | 0.0175 | 0.022 | 0.044946 | 0.0346 | 0.0346 |
| 3 | 3 | 0.8 | 3 | | 0.6 | 0.0603 | 0.060319 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.027 | 0.048171 | 0.0371 | 0.0371 |
| 3.2 | 3.2 | 0.8 | 3 | | 0.6 | 0.0603 | 0.060319 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.032 | 0.051522 | 0.0396 | 0.0396 |
| 3.4 | 3.4 | 0.8 | 3 | | 0.6 | 0.0603 | 0.060319 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0371 | 0.054873 | 0.0422 | 0.0422 |
| 3.6 | 3.6 | 0.8 | 3 | | 0.6 | 0.0603 | 0.060319 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0421 | 0.058224 | 0.0448 | 0.0448 |
| 3.8 | 3.8 | 0.8 | 3 | | 0.6 | 0.0603 | 0.060319 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0471 | 0.061575 | 0.0474 | 0.0474 |
| 4 | 4 | 0.8 | 3 | | 0.6 | 0.0603 | 0.06635 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0522 | 0.067942 | 0.0523 | 0.0523 |
| 4.2 | 4.2 | 0.8 | 3 | | 0.6 | 0.0603 | 0.072382 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0572 | 0.074309 | 0.0572 | 0.0572 |
| 4.4 | 4.4 | 0.8 | 3 | | 0.6 | 0.0603 | 0.078414 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0622 | 0.080676 | 0.0621 | 0.0621 |
| 4.6 | 4.6 | 0.8 | 3 | | 0.6 | 0.0603 | 0.084446 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0672 | 0.087043 | 0.067 | 0.067 |
| 4.8 | 4.8 | 0.8 | 3 | | 0.6 | 0.0603 | 0.090478 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0723 | 0.09341 | 0.0719 | 0.0719 |
| 5 | 5 | 0.8 | 3 | | 0.6 | 0.0603 | 0.09651 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0773 | 0.099777 | 0.0768 | 0.0768 |
| 5.2 | 5.2 | 0.8 | 3 | | 0.6 | 0.0603 | 0.102542 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0823 | 0.106144 | 0.0816 | 0.0816 |
| 5.4 | 5.4 | 0.8 | 3 | | 0.6 | 0.0603 | 0.108573 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0873 | 0.112511 | 0.0865 | 0.0865 |
| 5.6 | 5.6 | 0.8 | 3 | | 0.6 | 0.0603 | 0.114605 | 0.04 | 0.028 | 0.02 | 0.008 | 0.02 | 0.0924 | 0.118878 | 0.0914 | 0.0914 |
| 5.8 | 5.8 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1024 | 0.128596 | 0.0989 | 0.0989 |
| 6 | 6 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1125 | 0.135298 | 0.1041 | 0.1041 |
| 6.2 | 6.2 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1225 | 0.142 | 0.1092 | 0.1092 |
| 6.4 | 6.4 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1326 | 0.148702 | 0.1144 | 0.1144 |
| 6.6 | 6.6 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1426 | 0.155404 | 0.1195 | 0.1195 |
| 6.8 | 6.8 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1527 | 0.162106 | 0.1247 | 0.1247 |
| 7 | 7 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1627 | 0.168808 | 0.1299 | 0.1299 |
| 7.2 | 7.2 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1728 | 0.17551 | 0.135 | 0.135 |
| 7.4 | 7.4 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1828 | 0.182212 | 0.1402 | 0.1402 |
| 7.6 | 7.6 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.1929 | 0.188914 | 0.1453 | 0.1453 |
| 7.8 | 7.8 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.2029 | 0.195617 | 0.1505 | 0.1505 |
| 8 | 8 | 1.6 | 3 | | 0.6 | 0.1206 | 0.120637 | 0.08 | 0.056 | 0.04 | 0.016 | 0.04 | 0.213 | 0.202319 | 0.1556 | 0.1556 |

Varzu skaičiavimai

DETALĖ

Sieninė plokštė

| Poz. | Sluoksniai | d <i>m</i> | λ_{ds} <i>W/(m·K)</i> | λ_{dec} <i>W/(m·K)</i> | | | R <i>m²·K/W</i> | R_s <i>m²·K/W</i> | R_{si} <i>m²·K/W</i> | R_{se} <i>m²·K/W</i> | R_t <i>m²·K/W</i> | θ_i °C | θ_e °C | κ | U_{pr} <i>W/(m²·K)</i> |
|------|------------|-----------------|----------------------------------|-----------------------------------|--|--|---------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|------------------|------------------|----------|--|
| 1 | EPS | 0.20 | 0.037 | 0.037 | | | 5.405 | 5.405 | 0.13 | 0.04 | 5.575 | | | 1.000 | 0.179 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

$$U_N = 0.15 \times \kappa = 0.150 \text{ W/(m}^2 \cdot \text{K)} > U_{pr} = 0.179 \text{ W/(m}^2 \cdot \text{K)}$$

d atitvaros sluoksnio storis

$$R = d / \lambda_{ds}$$

λ_{ds} projektinis šilumos laidumo koeficientas (STR 2.01.02:2016 8. lentelė)

λ_{dec} deklaruojamasis šilumos laidumo koeficientas

$$R_s = R_1 + R_2 + R...$$

$$R_t = R_{si} + R_s + R_{se}$$

$$U = 1 / R_t$$

$$\kappa = 20 / (\theta_i - \theta_e)$$

R šiluminė varža

R_s suminė šiluminė varža

R_{si} vidaus paviršiaus šiluminė varža (STR 2.01.02:2016 2.3 lentelė)

R_{se} išorės paviršiaus šiluminė varža (STR 2.01.02:2016 2.3 lentelė)

R_t visuminė šiluminė varža

θ_i patalpų vidaus oro temperatūra

θ_e šildymo sezono vidutinė išorės oro temperatūra (RSN 156-94 2.6 lentelė)

U_N nomininis atitvaros šilumos perdavimo koeficientas

U_{pr} atitvaros šilumos perdavimo koeficientas

DETALĖ

Stoginė plokštė

| Poz. | Sluoksniai | d <i>m</i> | λ_{ds} <i>W/(m·K)</i> | λ_{dec} <i>W/(m·K)</i> | | | R <i>m²·K/W</i> | R_s <i>m²·K/W</i> | R_{si} <i>m²·K/W</i> | R_{se} <i>m²·K/W</i> | R_t <i>m²·K/W</i> | θ_i °C | θ_e °C | κ | U_{pr} <i>W/(m²·K)</i> |
|------|------------|-----------------|----------------------------------|-----------------------------------|--|--|---------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|------------------|------------------|----------|--|
| 1 | PUR | 0.16 | 0.022 | 0.022 | | | 7.273 | 7.273 | 0.10 | 0.04 | 7.413 | | | 1.000 | 0.135 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

$$U_N = 0.15 \times \kappa = 0.150 \text{ W/(m}^2 \cdot \text{K)} > U_{pr} = 0.135 \text{ W/(m}^2 \cdot \text{K)}$$

d atitvaros sluoksnio storis

$$R = d / \lambda_{ds}$$

λ_{ds} projektinis šilumos laidumo koeficientas (STR 2.01.02:2016 8. lentelė)

λ_{dec} deklaruojamasis šilumos laidumo koeficientas

$$R_s = R_1 + R_2 + R...$$

$$R_t = R_{si} + R_s + R_{se}$$

$$U = 1 / R_t$$

$$\kappa = 20 / (\theta_i - \theta_e)$$

R šiluminė varža

R_s suminė šiluminė varža

R_{si} vidaus paviršiaus šiluminė varža (STR 2.01.02:2016 2.3 lentelė)

R_{se} išorės paviršiaus šiluminė varža (STR 2.01.02:2016 2.3 lentelė)

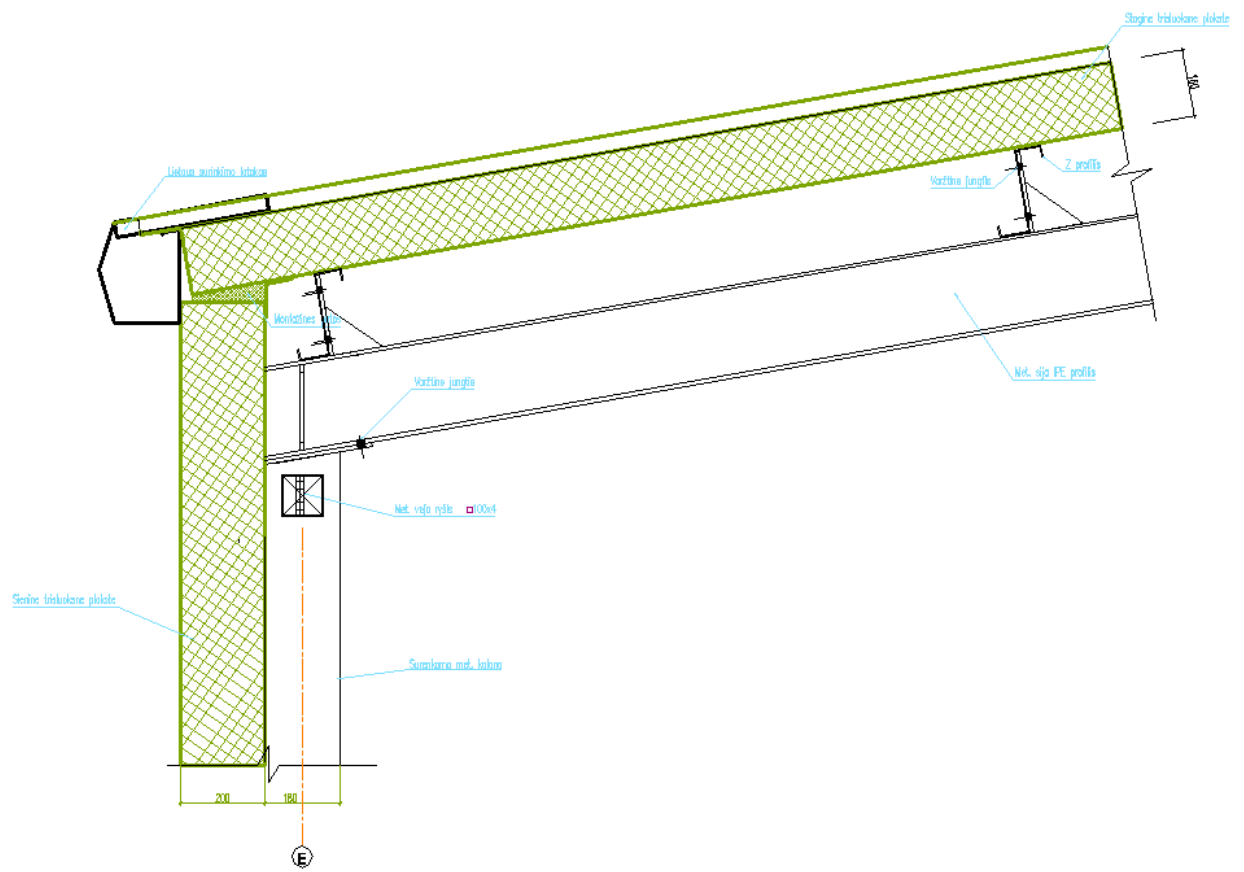
R_t visuminė šiluminė varža

θ_i patalpų vidaus oro temperatūra

θ_e šildymo sezono vidutinė išorės oro temperatūra (RSN 156-94 2.6 lentelė)

U_N nomininis atitvaros šilumos perdavimo koeficientas

U_{pr} atitvaros šilumos perdavimo koeficientas



| | | | | | |
|--|------|--|--------------------|---------|---|
| Mazgas "1" | | | | | |
| Grindys ant grunto | | | | | |
| Grindu plotas | A | 856 | m ² | | |
| Grindu perimetras | P | 122 | m | | |
| Silumos izoliacijos storis visu plotu | h | 0.15 | m | | |
| Papildomos vertikalios silumos izoliacijos storis | h | 0.7 | m | | |
| Papildomos vertikalios silumos izoliacijos aukštis | D | 0.15 | m | | |
| izoliacijos varža lemda | | | | | |
| | | 0.031 | | | |
| | Rf | 4.84 | m ² K/W | | |
| | B' | 14.03 | m | | |
| | dt | 10.30 | m | | |
| Be šonines izoliacijos | | | | | |
| | Uo | 0.12 | | | |
| | Ro | 8.36 | | | |
| | Rint | 12.15 | m ² K/W | | |
| | d' | 24.30 | m | | |
| | ΔΨ | -0.013 | W/m ² K | 0.02008 | $\Delta \Psi = -\frac{\lambda_{gr}}{\pi} \left[\ln \left(\frac{2D}{d_t} + 1 \right) - \ln \left(\frac{2D}{d_t + d'} + 1 \right) \right]$ |
| Ivertinus šoninę izoliaciją | | | | | |
| | U | 0.12 | | | |
| | R | 8.48 | | | |
| - jei grindys gerai apšiltintos ($d_{t1,x} \geq B'_{t1,x}$): | | | | | |
| | | $U_{fg1,x} = \frac{\lambda_{gr}}{0,457 \cdot B'_{t1,x} + d_{t1,x}}$ | | | (2.31) |
| čia: $B'_{t1,x}$ – atitinkamų „x“ grindų ant grunto, kai grindys neapšiltintos arba jose įrengtas iššildinis horizontalusis termoizoliacinis sluoksnis, būdingasis grindų matmuo (m); | | | | | |
| λ_{gr} – grunto šilumos laidumo koeficientas (W/(m·K)). $\lambda_{gr} = 2$ W/(m·K); | | | | | |
| $d_{t1,x}$ – atitinkamų „x“ grindų ant grunto, kai grindys neapšiltintos arba jose įrengtas iššildinis horizontalusis termoizoliacinis sluoksnis, atstojamasis grindų plokštės storis, išreikštas grunto sluoksnio storio (m): | | | | | |
| | | $d_{t1,x} = w_x + \lambda_{gr} \cdot (R_{se} + R_{fx} + R_{si})$ | | | (2.32) |
| čia: R_{fx} – atitinkamų „x“ grindų ant grunto, kai grindys neapšiltintos arba jose įrengtas iššildinis horizontalusis termoizoliacinis sluoksnis, grindų plokštės šiluminė varža (m ² ·K/W) (žr. 2.3. pav.); | | | | | |
| w_x – atitinkamas „x“ grindis ant grunto, kai grindys neapšiltintos arba jose įrengtas iššildinis horizontalusis termoizoliacinis sluoksnis, ribojančios sienos storis (m) (žr. 2.3. pav.). | | | | | |
| Galima nevertinti grindų betoninės plokštės ir plonos grindų dangos. Išlyginamojo grunto pasluoksnio λ toks pats kaip ir grunto, todėl jo šiluminė varža taip pat gali būti nevertinama. | | | | | |
| - kai termoizoliacinis sluoksnis įrengtas pagal pastato perimetrą vertikaliai, pamatų vidinėje arba išorinėje pusėje (2.5. pav.): | | | | | |
| | | $\Psi_{ge2,x} = -\frac{\lambda_{gr}}{\pi} \left[\ln \left(\frac{2 \cdot D_{v,x}}{d_{t2,x}} + 1 \right) - \ln \left(\frac{2 \cdot D_{v,x}}{d_{t2,x} + d'_{v,x}} + 1 \right) \right]$ | | | (2.47) |

STIPRUMO PRIE ĮDĖTINIŲ DELALIŲ TIKRINIMAS

Metalinės įdėtine plokštelės veikia tik ašinės jėgos max 180kN ir skersinės jėgos max 20kN.

Kolona virinama perimetru 180mm x 4= 720mm

Virinimo siule 6mm, rankinio suvirinimo elektrodas E42.

Siūlės stiprumo skaičiavimas

| | | | | | | | | |
|---------------------------|---------|--|--|----------|--|-----------------------|--|--|
| ASINE\skersine | | | | | | | | |
| siules storis | 6 mm | | | 656.0 kN | | pagal siules metala | | |
| Siules ilgis | 720 mm | | | 629.2 kN | | pagal elemento metala | | |
| Siules met skaicstiprumas | 220 Mpa | | | | | | | |
| metalo skaic stiprumas | 211 Mpa | | | | | | | |
| virinimo budas | 0.7 | | | | | | | |

Įdėtinės detalės inkarinių strypų skaičiavimas kirpimui:

Bendras 4x d20 strypų skerspjūvis 0.0012m²

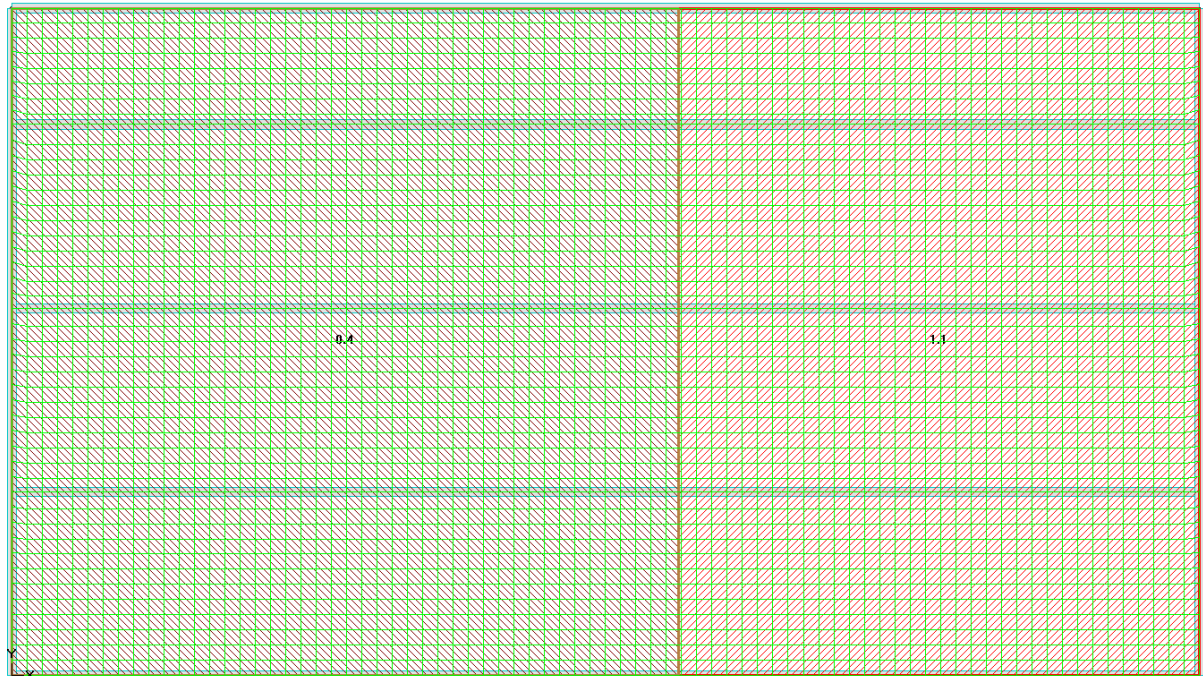
$$150000 \cdot 0.0012 = 180 \text{ kN} > 20 \text{ kN}$$

Kirpimo stiprumas pakankamas

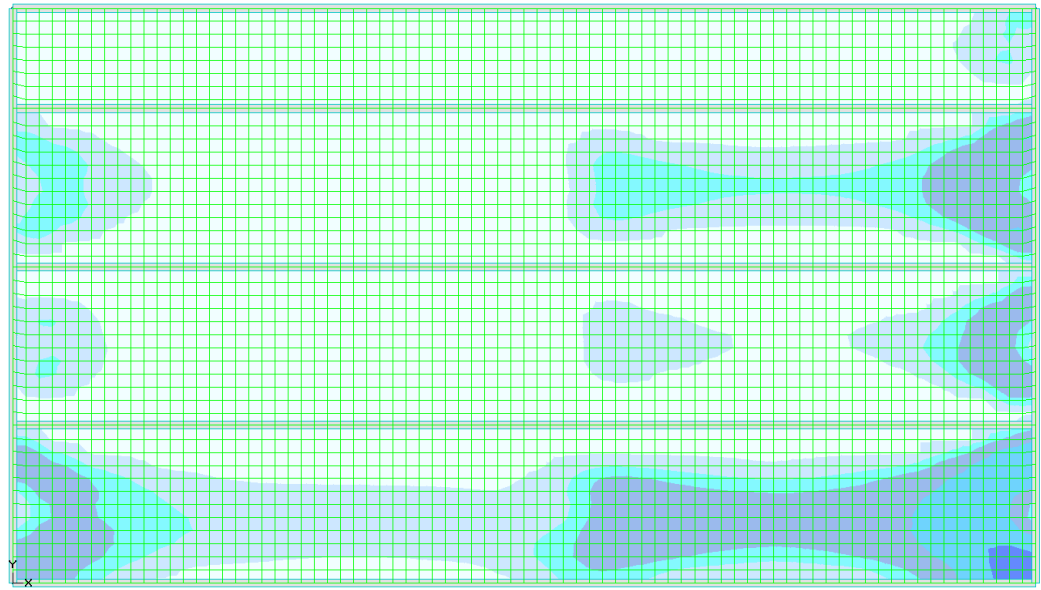
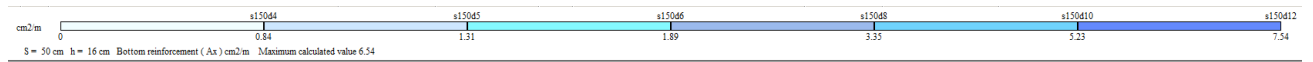
Grindų plokštės skaičiavimas

Grindų plokštės storis -160mm , betonas -C25/30, betono apsauginis sluoksnis -25mm, charakteristinės laikinos apkrovos 4kPa, 11 kPa.

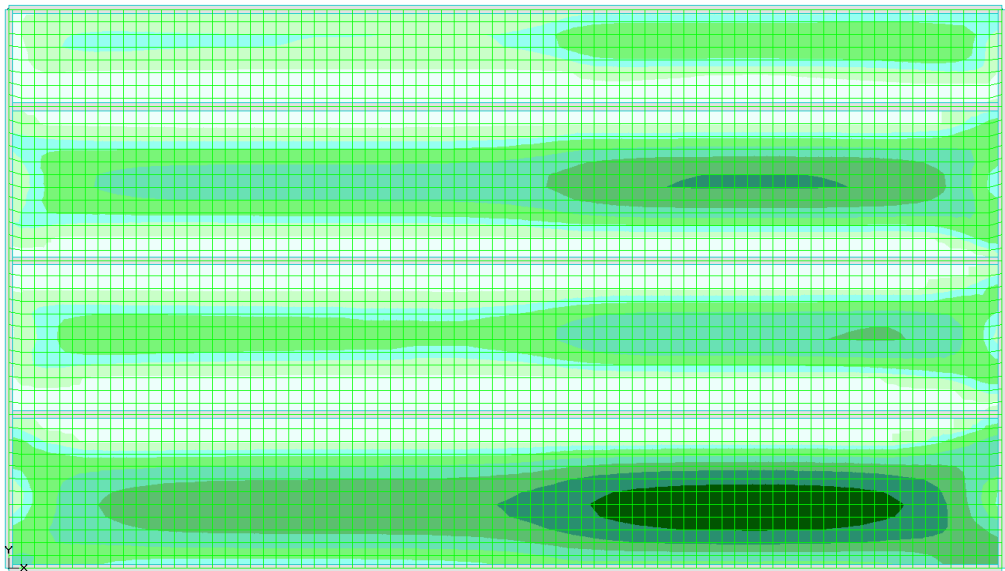
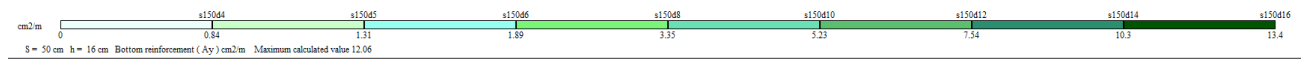
Plokštė atremta ant rostverkų 300x600h, 300x500h



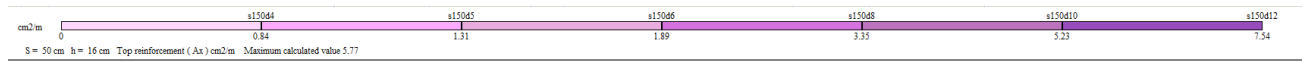
Apkrovų planas



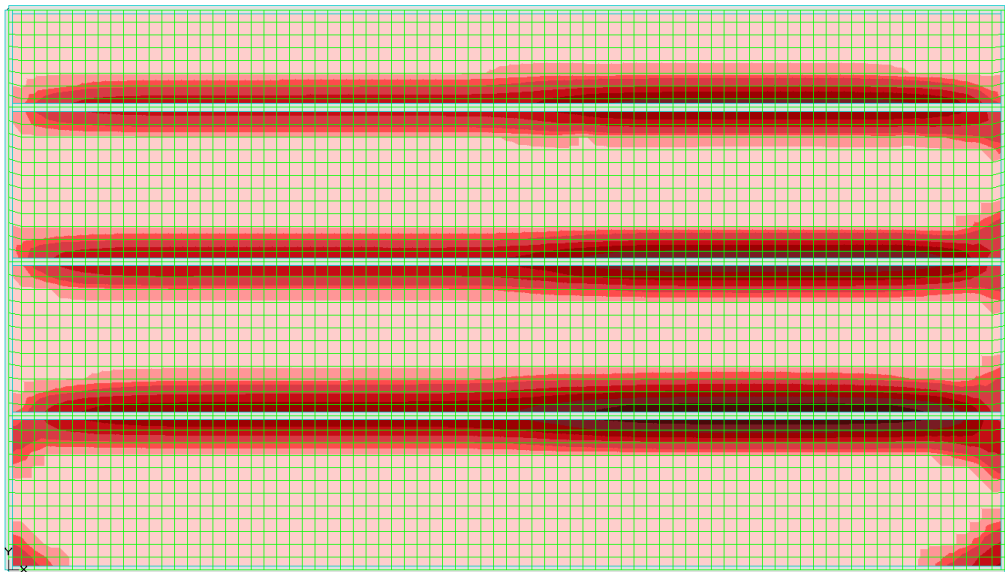
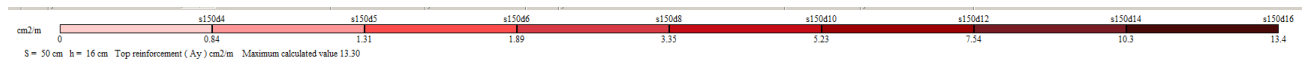
Apatinio armavimo X ašies kryptimi žemėlapis



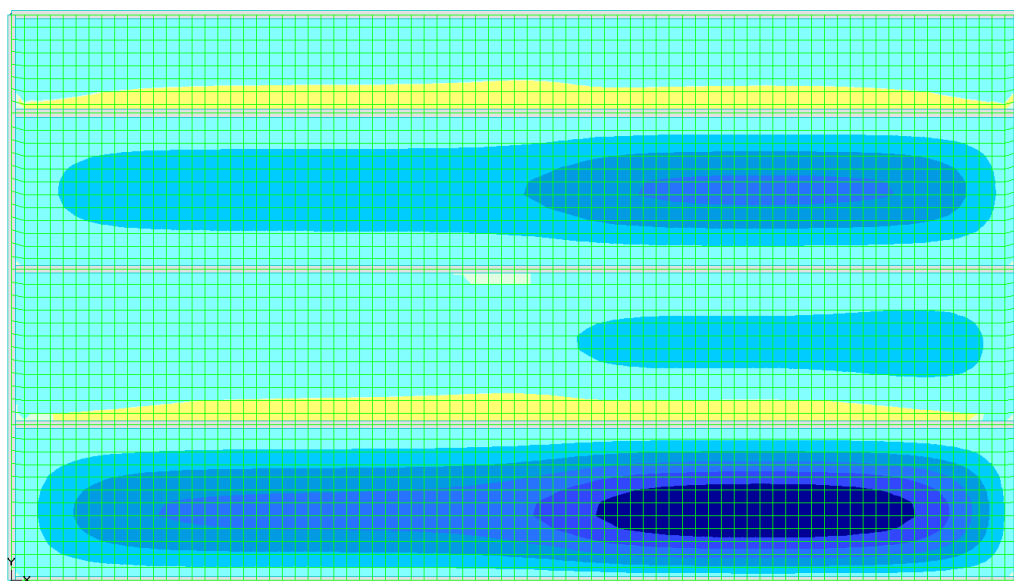
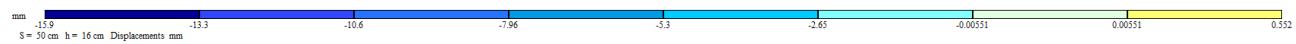
Apatinio armavimo Y ašies kryptimi žemėlapis



Viršutinio armavimo X ašies kryptimi žemėlapis



Viršutinio armavimo Y ašies kryptimi žemėlapis



Plokštės įlinkių planas

Project: lab

Updated: 2022-04-09 13:50 (GMT)

Created: 2021-07-09 16:15 (GMT)

Customer:

National annex: Lithuanian NA

Contact person: renas disk

Engineer's contact info: gostauto 8-220

Email: info@projekta.lt

Telephone number: 860026922

| ID | Structural part | Updated | Created |
|----|-----------------|------------------------|------------------------|
| 1 | Part | 2022-04-09 13:50 (GMT) | 2021-07-09 16:15 (GMT) |

Structural part: Part

Updated: 2022-04-09 13:50 (GMT) **Version:** 1.1.17 (2022-04-08)

Created: 2021-07-09 16:15 (GMT)

Reliability class: RC2

Structure type: Roof purlin

Roof slope: 10 °

Deflection limit: L/100 (according to NA)

Profile type: Z-profile

Purlin direction: Longitudinal

Bottom flange deflection restricted: No

Design according to testing: No

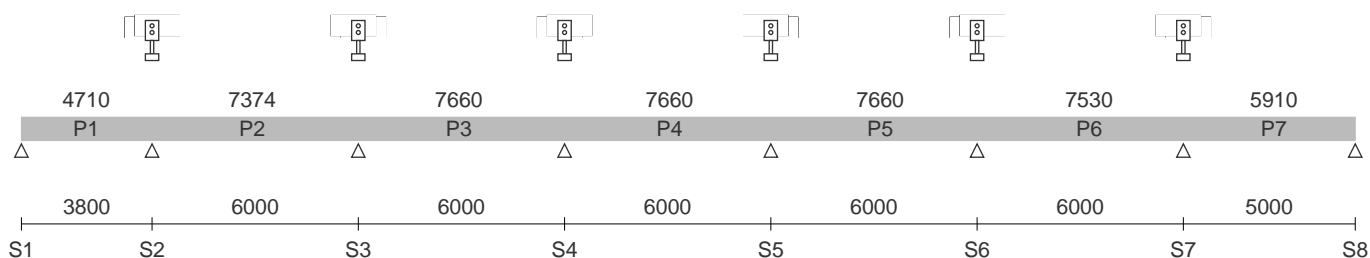
Chosen purlins fulfill design criteria. Maximum utilization rate: 96.9 %

Chosen fasteners fulfill design criteria. Maximum utilization rate: 54.3 %

Structural model

Left end: Distance to end of purlin: 80 mm

Right end: Distance to end of purlin: 80 mm



Selected purlin: LP-Z200

Purlin interval: 1800 mm

| Span | Thickness | Length |
|------|-----------|--------|
| | [mm] | [mm] |
| P1 | 2.0 | 4710 |
| P2 | 2.0 | 7374 |
| P3 | 2.0 | 7660 |
| P4 | 2.0 | 7660 |
| P5 | 2.0 | 7660 |
| P6 | 2.0 | 7530 |
| P7 | 2.0 | 5910 |

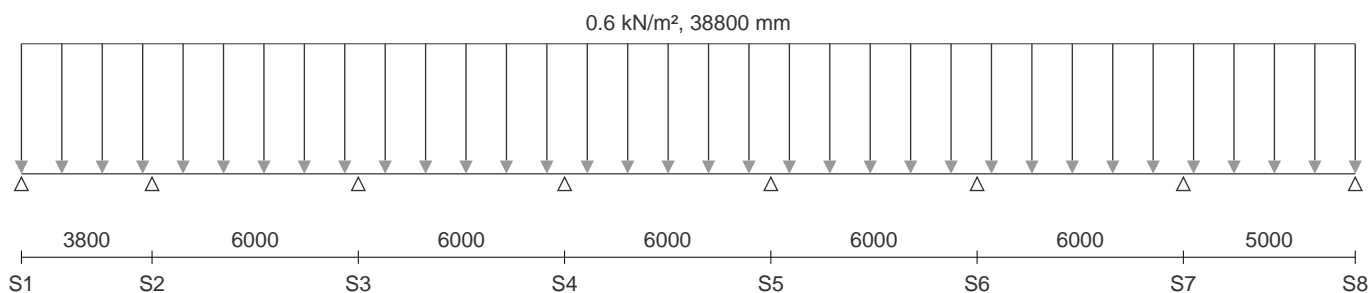
Supports and joints

| Support | Axial support | Joint type |
|---------|---------------|-------------|
| S1 | Yes | End support |
| S2 | Yes | Overlap |
| S3 | Yes | Overlap |
| S4 | Yes | Overlap |
| S5 | Yes | Overlap |
| S6 | Yes | Overlap |
| S7 | Yes | Overlap |
| S8 | Yes | End support |

Dead load

Structure weight without purlins and sheeting: 0.45 kN/m^2

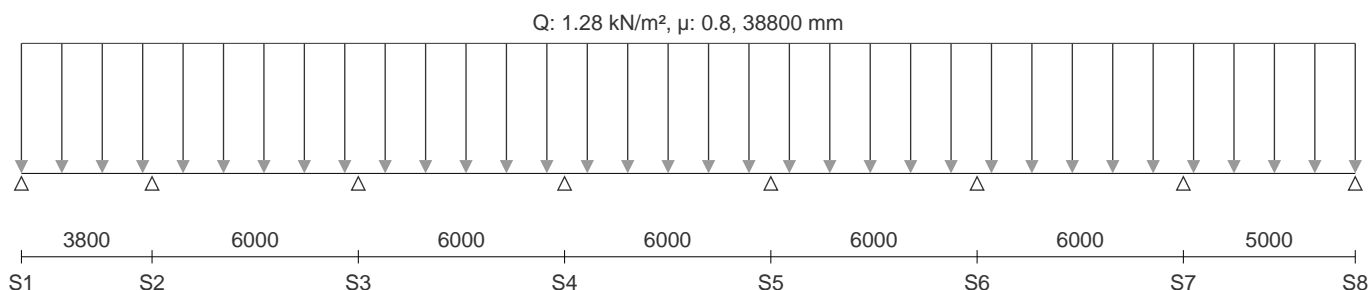
Total weight of the sheeting: 0.15 kN/m^2



Snow load

Basic snow load: 1.6 kN/m^2

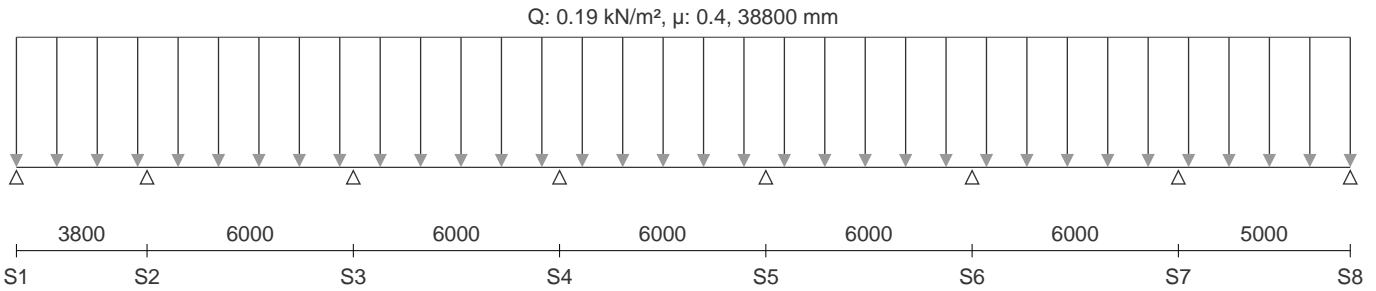
Movement: 0 %



Wind load

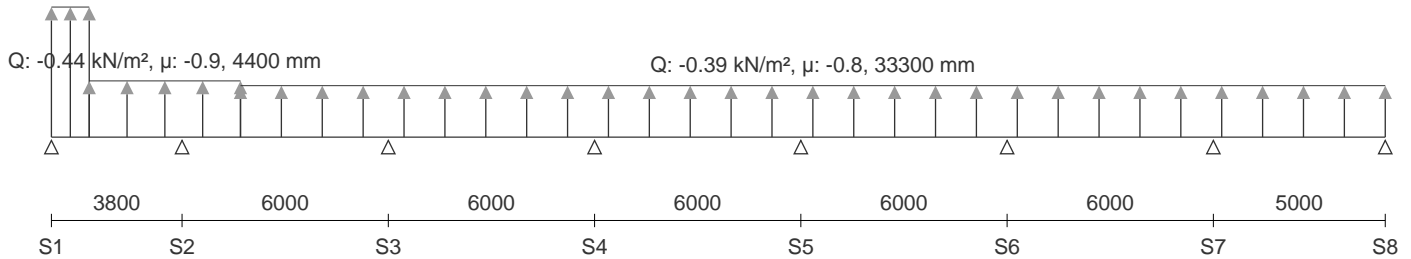
Basic wind load: 0.485 kN/m^2

Case 1

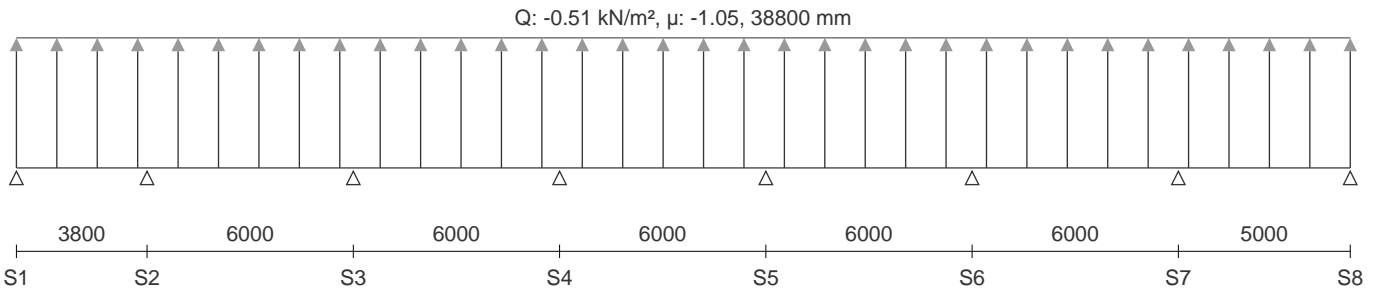


Case 2

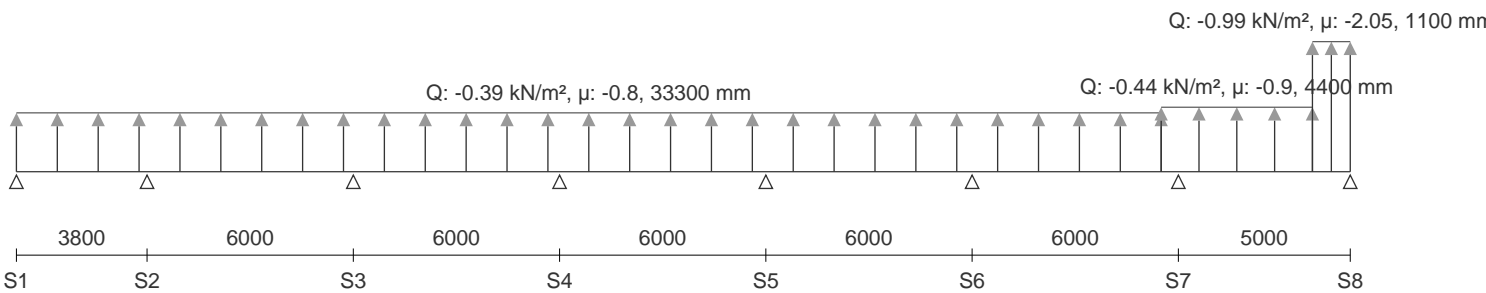
-1.19 kN/m^2 , μ : -2.45, 1100 mm



Case 3



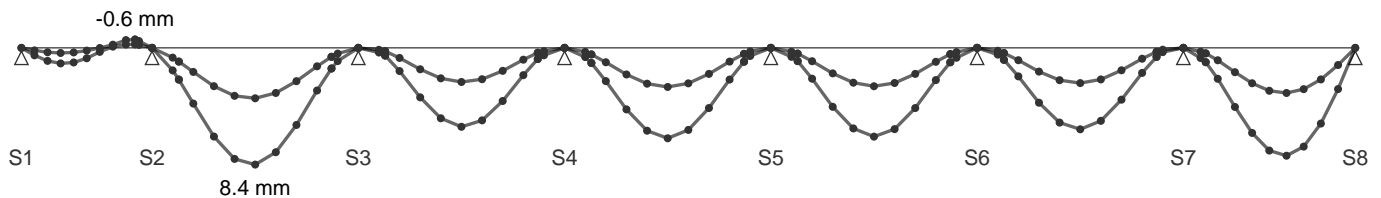
Case 4



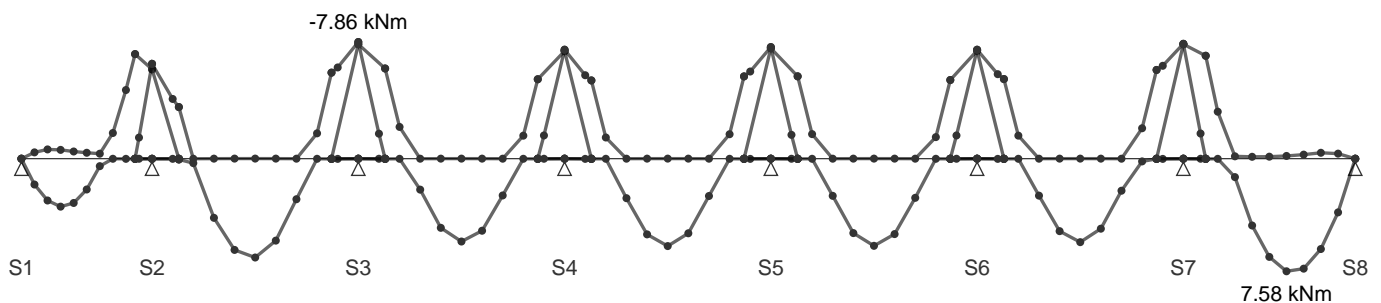
Utilization rates

| Purlin | M [kNm] | N [kN] | V [kN] | N/V/M | σ [MPa] | D [mm] |
|--------|----------------------|----------------------|------------------------|--------|--------------------------|----------------------|
| P1 | 7.0 / 15.1 46.5 % | 0.0 / 156.8 0.0 % | -9.7 / 15.1 21.2 % | 46.5 % | -330.3 / 350.0 94.4 % | 2.3 / 19.0 12.0 % |
| P2 | 7.9 / 14.9 52.9 % | 0.0 / 133.9 0.0 % | -13.5 / 14.9 29.6 % | 52.9 % | -339.2 / 350.0 96.9 % | 8.4 / 30.0 28.0 % |
| P3 | 7.7 / 15.1 50.9 % | 0.0 / 133.9 0.0 % | -10.8 / 15.1 23.6 % | 50.9 % | -307.0 / 350.0 87.7 % | 5.7 / 30.0 18.9 % |
| P4 | 7.5 / 14.9 50.6 % | 0.0 / 257.9 0.0 % | 10.6 / 14.9 23.1 % | 50.6 % | -325.2 / 350.0 92.9 % | 6.5 / 30.0 21.7 % |
| P5 | 7.4 / 15.1 49.1 % | 0.0 / 133.9 0.0 % | -10.5 / 15.1 22.9 % | 49.1 % | -296.0 / 350.0 84.6 % | 6.4 / 30.0 21.3 % |
| P6 | 7.7 / 14.9 52.0 % | 0.0 / 257.9 0.0 % | 12.7 / 14.9 27.7 % | 52.1 % | -333.0 / 350.0 95.2 % | 5.9 / 30.0 19.5 % |
| P7 | 7.6 / 14.9 51.0 % | 0.0 / 133.9 0.0 % | 11.6 / 14.9 25.3 % | 51.0 % | -313.5 / 350.0 89.6 % | 7.8 / 25.0 31.0 % |

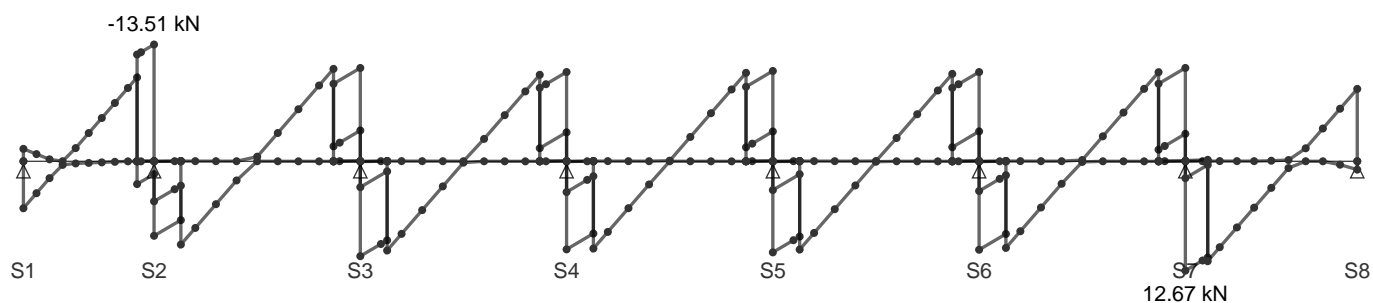
Deflection



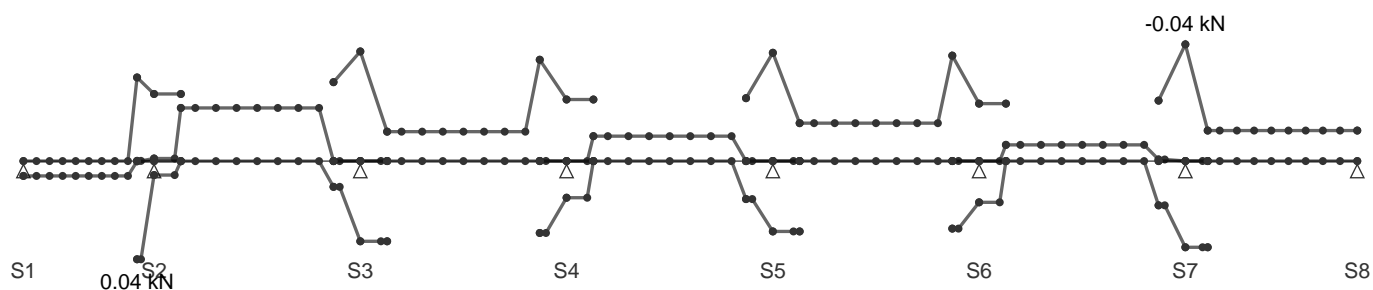
Bending moment



Shear force



Normal force



Support reactions

| Support | Transverse direction | | Axial direction | |
|---------|----------------------|-------------|-----------------|-------------|
| | Min [kN] | Max [kN] | Min [kN] | Max [kN] |
| S1 | -1.43 | 5.44 | -0.01 | 0.0 |
| S2 | 0.06 | 25.3 | -0.0 | 0.03 |
| S3 | 0.12 | 28.36 | -0.01 | 0.0 |
| S4 | 0.12 | 27.45 | -0.0 | 0.0 |
| S5 | 0.12 | 27.79 | -0.0 | 0.0 |
| S6 | 0.12 | 27.48 | -0.01 | 0.0 |
| S7 | 0.12 | 28.6 | -0.0 | 0.01 |
| S8 | -0.97 | 8.37 | -0.01 | 0.0 |

Fasteners

Cleat wall thickness: 4 mm

Cleat steel grade: S355J2 (355/490)

Web fastener: M16 8.8

Fastener spacing in 4-hole cleat: 70 mm

Edge distance of the fasteners at overlap joints: 50 mm

Upper flange support from sandwich panel

Core material: PUR/PIR and XPS/EPS

Weight: 15 kg/m²

Depth of profiling \geq 30 mm (on the fastener head side surface): Yes

| Support | Support fasteners | | | Overlap / sleeve fasteners | | |
|---------|-------------------|-------------------------|------------------|----------------------------|-------------------------|------------------|
| | pcs / support | Utilization rate [%] | Design criterion | pcs / support | Utilization rate [%] | Design criterion |
| S1 | 2 | 10.3 | Bearing | | | |
| S2 | 2 | 48.0 | Bearing | 2 + 2 | 23.4 | Bearing |
| S3 | 2 | 53.8 | Bearing | 2 + 2 | 17.4 | Bearing |
| S4 | 2 | 52.1 | Bearing | 2 + 2 | 16.1 | Bearing |
| S5 | 2 | 52.7 | Bearing | 2 + 2 | 16.6 | Bearing |
| S6 | 2 | 52.2 | Bearing | 2 + 2 | 16.1 | Bearing |
| S7 | 2 | 54.3 | Bearing | 2 + 2 | 21.1 | Bearing |
| S8 | 2 | 15.9 | Bearing | | | |

Amount of fasteners

Total amount: 40 pcs / purlin row