

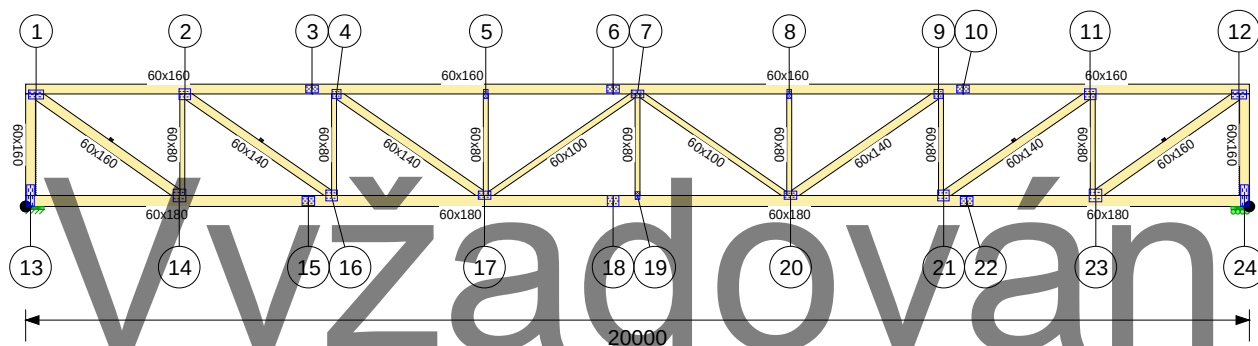
Výstup: Statický výpočet dle EC5

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**Navrženo dle:**

EN 1990 Eurokód 0 - Zásady navrhování konstrukcí  
EN 1991-1-1 Eurokód 1 - Zatížení konstrukcí - Obecná zatížení - Objemové tíhy, vlastní tíha a užitná zatížení pozemních staveb  
EN 1991-1-3 Eurokód 1 - Zatížení konstrukcí - Obecná zatížení - Zatížení sněhem  
EN 1991-1-4 Eurokód 1 - Zatížení konstrukcí - Obecná zatížení - Zatížení větrem  
EN 1991-1-6 Eurokód 1 - Zatížení konstrukcí - Obecná zatížení - Zatížení během provádění  
EN 1991-1-7 Eurokód 1 - Zatížení konstrukcí - Obecná zatížení - Mimořádná zatížení  
EN 1995-1-1 Eurokód 5 - Navrhování dřevěných konstrukcí - Obecná pravidla - Společná pravidla a pravidla pro pozemní stavby  
A všechny příslušné národní přílohy



### Vložené param. vazníku

|                     |          |                      |          |
|---------------------|----------|----------------------|----------|
| Rozpětí             | 20000 mm | Rozteč               | 1000 mm  |
| Transportní výška   | 2000 mm  | Transportní délka    | 20000 mm |
| Sklon HP vlevo      | 0,0°     | Sklon HP vpravo      | 0,0°     |
| Konzola vlevo       | 0 mm     | Konzola vpravo       | 0 mm     |
| Zkrácení vaz. vlevo | 0 mm     | Zkrácení vaz. vpravo | 0 mm     |
| Přesah vlevo        | 0 mm     | Přesah vpravo        | 0 mm     |
| Výška okapu vlevo   | 2000 mm  | Výška okapu vpravo   | 2000 mm  |

### Maximální CSI

| Umístění          | Prvek   | Zat. stav | CSI   |
|-------------------|---------|-----------|-------|
| Diagonála         | 14 - 2  | 73.1      | 0.888 |
| Horní pás         | 2 - 3   | 73.1      | 0.811 |
| Dolní pás         | 18 - 19 | 9.1       | 0.644 |
| Koncová vertikála | 13 - 1  | 73.1      | 0.632 |

### Zatížení

|                     |                         |                       |                         |
|---------------------|-------------------------|-----------------------|-------------------------|
| Stálé zatížení HP:  | 0,200 kN/m <sup>2</sup> | Stálé zatížení DP:    | 0,000 kN/m <sup>2</sup> |
| Užitné zatížení DP: | 0,000 kN/m <sup>2</sup> |                       |                         |
| Montážní zat. HP:   | 1,000 kN                | Montážní zatížení DP: | 1,000 kN                |

### Zatížení sněhem

|                                        |                         |                                            |                         |
|----------------------------------------|-------------------------|--------------------------------------------|-------------------------|
| Klimatický region:                     | Česká republika         | Sněhová zóna:                              | III                     |
| Charakter. snáh na zemi: Sk            | 1,500 kN/m <sup>2</sup> | Koef. mimořádného sněhového zatížení: Cesi | 2.0                     |
| Nadmořská výška:                       | 0 m                     | Mimořádný snáh na zemi: SAd                | 3,000 kN/m <sup>2</sup> |
| Extra zat. pro malý sklon: (Sklon <3%) | 0,000 kN/m <sup>2</sup> | Topografie: Ce                             | 1                       |
|                                        |                         | Trvání stavby: Sn/S                        | 50.0                    |

### Zatížení větrem

|                                    |          |                                    |       |
|------------------------------------|----------|------------------------------------|-------|
| Základní rychlost větru: Vb        | 27,0 m/s | Kategorie terénu:                  | III   |
| Součinitel vnitřního tlaku: Cpimin | 0.6      | Součinitel vnitřního tlaku: Cpimax | -0.6  |
| Nadmořská výška:                   | 0 m      | Součinitel nadmořské výšky: Calt   | 1.00  |
| Součinitel ročního období: Csean   | 1.0      | Souč. pravděpodobnosti: Cprob      | 1.0   |
| Součinitel směru: Cdir             | 1.0      | Součinitel drsnosti: Cr(Z)         | 0.8   |
| Součinitel orografie: Co(Z)        | 1.0      | Základní dynamický tlak: Qb        | 0.456 |



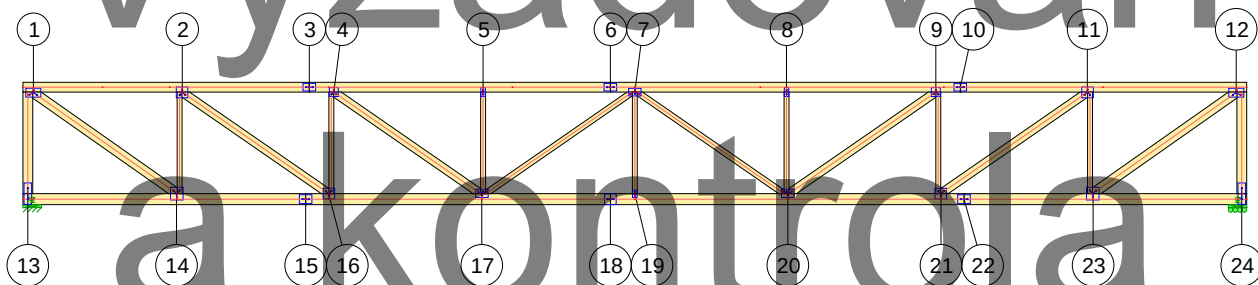
Tlak: Ce(Ze) 0.8 Max. dynamický tlak: qp 0.833  
Koeficient expozice: Ce(Z) 1.8 Doba návratu: 50 Let  
Typ stavby: Otevřená

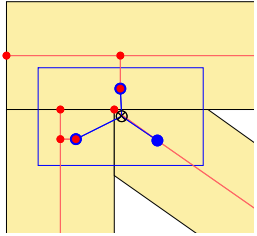
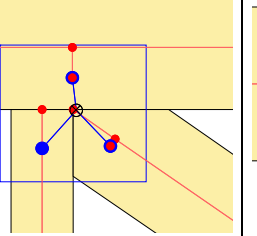
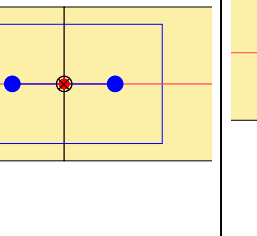
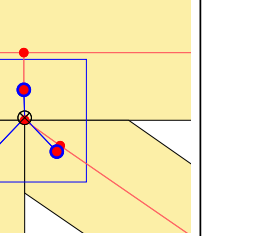
Vlastní váha vazníku

Celková hmotnost = 373.5 kg

| Pás     | Počátek | Konec | kN/m |
|---------|---------|-------|------|
| 1 - 12  | 0       | 20000 | 0,07 |
| 13 - 24 | 0       | 20000 | 0,07 |

Statické schéma



| 1                                                                                   | Souřadnice (mm)<br>X=171 Y=1831 | 2                                                                                   | Souřadnice (mm)<br>X=2604 Y=1840 | 3                                                                                    | Souřadnice (mm)<br>X=4680 Y=1920 | 4                                                                                     | Souřadnice (mm)<br>X=5081 Y=1843 |
|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
|  |                                 |  |                                  |  |                                  |  |                                  |
| Fixace                                                                              |                                 | Fixace                                                                              |                                  | Fixace                                                                               |                                  | Fixace                                                                                |                                  |
| X=Volný Y=Volný R=Volný                                                             |                                 | X=Volný Y=Volný R=Volný                                                             |                                  | X=Volný Y=Volný R=Volný                                                              |                                  | X=Volný Y=Volný R=Volný                                                               |                                  |

|         |                 |         |
|---------|-----------------|---------|
| 5       | Souřadnice (mm) |         |
|         | X=7520          | Y=1843  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 6       | Souřadnice (mm) |         |
|         | X=9600          | Y=1920  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 7       | Souřadnice (mm) |         |
|         | X=10000         | Y=1843  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 8       | Souřadnice (mm) |         |
|         | X=12480         | Y=1843  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 9       | Souřadnice (mm) |         |
|         | X=14919         | Y=1843  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 10      | Souřadnice (mm) |         |
|         | X=15320         | Y=1920  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 11      | Souřadnice (mm) |         |
|         | X=17396         | Y=1840  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

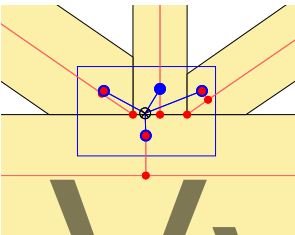
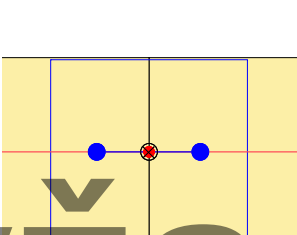
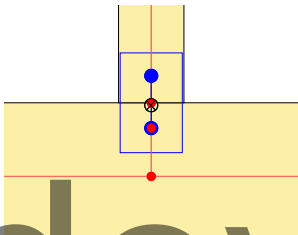
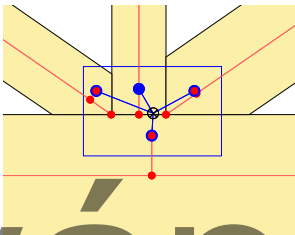
|         |                 |         |
|---------|-----------------|---------|
| 12      | Souřadnice (mm) |         |
|         | X=19829         | Y=1831  |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

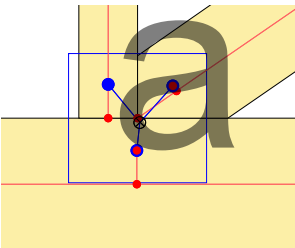
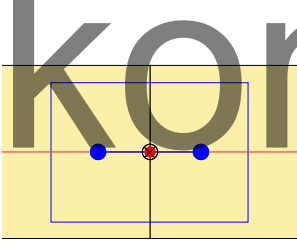
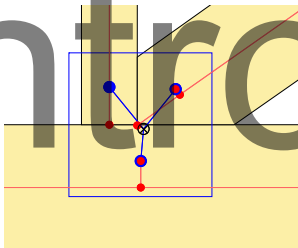
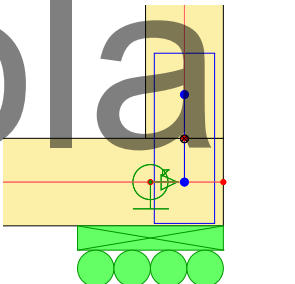
|         |                 |         |
|---------|-----------------|---------|
| 13      | Souřadnice (mm) |         |
|         | X=80            | Y=180   |
|         |                 |         |
| Fixace  |                 |         |
| X=Pevný | Y=Pevný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 14      | Souřadnice (mm) |         |
|         | X=2510          | Y=174   |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 15      | Souřadnice (mm) |         |
|         | X=4620          | Y=90    |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|         |                 |         |
|---------|-----------------|---------|
| 16      | Souřadnice (mm) |         |
|         | X=4996          | Y=175   |
|         |                 |         |
| Fixace  |                 |         |
| X=Volný | Y=Volný         | R=Volný |

|                                                                                   |                 |         |                                                                                   |                 |         |                                                                                    |                 |         |                                                                                     |                 |         |
|-----------------------------------------------------------------------------------|-----------------|---------|-----------------------------------------------------------------------------------|-----------------|---------|------------------------------------------------------------------------------------|-----------------|---------|-------------------------------------------------------------------------------------|-----------------|---------|
| 17                                                                                | Souřadnice (mm) |         | 18                                                                                | Souřadnice (mm) |         | 19                                                                                 | Souřadnice (mm) |         | 20                                                                                  | Souřadnice (mm) |         |
|                                                                                   | X=7498          | Y=182   |                                                                                   | X=9600          | Y=90    |                                                                                    | X=10000         | Y=177   |                                                                                     | X=12502         | Y=182   |
|  |                 |         |  |                 |         |  |                 |         |  |                 |         |
| Fixace                                                                            |                 |         | Fixace                                                                            |                 |         | Fixace                                                                             |                 |         | Fixace                                                                              |                 |         |
| X=Volný                                                                           | Y=Volný         | R=Volný | X=Volný                                                                           | Y=Volný         | R=Volný | X=Volný                                                                            | Y=Volný         | R=Volný | X=Volný                                                                             | Y=Volný         | R=Volný |

|                                                                                    |                 |         |                                                                                    |                 |         |                                                                                     |                 |         |                                                                                      |                 |         |
|------------------------------------------------------------------------------------|-----------------|---------|------------------------------------------------------------------------------------|-----------------|---------|-------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------|-----------------|---------|
| 21                                                                                 | Souřadnice (mm) |         | 22                                                                                 | Souřadnice (mm) |         | 23                                                                                  | Souřadnice (mm) |         | 24                                                                                   | Souřadnice (mm) |         |
|                                                                                    | X=15004         | Y=175   |                                                                                    | X=15380         | Y=90    |                                                                                     | X=17490         | Y=174   |                                                                                      | X=19920         | Y=180   |
|  |                 |         |  |                 |         |  |                 |         |  |                 |         |
| Fixace                                                                             |                 |         | Fixace                                                                             |                 |         | Fixace                                                                              |                 |         | Fixace                                                                               |                 |         |
| X=Volný                                                                            | Y=Volný         | R=Volný | X=Volný                                                                            | Y=Volný         | R=Volný | X=Volný                                                                             | Y=Volný         | R=Volný | X=Volný                                                                              | Y=Pevný         | R=Volný |

#### Kritické zatěžovací stavy

| Zatěžovací stav | Popis                                               | Typ  | Rovnice   | Dominantní zatížení | Zatěžovací kombinace          | Kmod | γ <sub>m</sub> Dřeva |
|-----------------|-----------------------------------------------------|------|-----------|---------------------|-------------------------------|------|----------------------|
| 11.1            | Stálé                                               | Tlak | EC5 6.10a | -                   | Σ 1.35G                       | 0.60 | 1.30                 |
| 53.1            | Běžný sníh nenavátý                                 | Tlak | EC5 6.10b | Krátkodobé          | Σ 1.15G + 1.50Q               | 0.90 | 1.30                 |
| 1.1             | Vítr zleva + Vnitřní tlak (1)                       | Tlak | EC5 6.10  | Krátkodobé          | Σ 0.90G + 1.50Q               | 0.90 | 1.30                 |
| 54.1            | Vítr zleva + Vnitřní tlak (1)                       | Tlak | EC5 6.10b | Krátkodobé          | Σ 1.15G + 1.50Q               | 0.90 | 1.30                 |
| 5.1             | Vítr zprava + Vnitřní tlak (1)                      | Tlak | EC5 6.10  | Krátkodobé          | Σ 0.90G + 1.50Q               | 0.90 | 1.30                 |
| 58.1            | Vítr zprava + Vnitřní tlak (1)                      | Tlak | EC5 6.10b | Krátkodobé          | Σ 1.15G + 1.50Q               | 0.90 | 1.30                 |
| 7.1             | Vítr zprava + Vnitřní tlak (2)                      | Tlak | EC5 6.10  | Krátkodobé          | Σ 0.90G + 1.50Q               | 0.90 | 1.30                 |
| 9.1             | Vítr podél + Vnitřní tlak (1)                       | Tlak | EC5 6.10  | Krátkodobé          | Σ 0.90G + 1.50Q               | 0.90 | 1.30                 |
| 62.1            | Vítr podél + Vnitřní tlak (1)                       | Tlak | EC5 6.10b | Krátkodobé          | Σ 1.15G + 1.50Q               | 0.90 | 1.30                 |
| 24.1            | Vítr zleva + Běžný sníh nenavátý + Vnitřní sání (1) | Tlak | EC5 6.10a | -                   | Σ 1.35G + 0.75snow + 0.90vítr | 0.90 | 1.30                 |

| Zatěžovací stav | Popis                                                     | Typ    | Rovnice    | Dominantní zatížení | Zatěžovací kombinace                  | Kmod | γ <sub>m</sub> Dřevo |
|-----------------|-----------------------------------------------------------|--------|------------|---------------------|---------------------------------------|------|----------------------|
| 65.1            | Vítr zleva + Běžný sníh nenavátý + Vnitřní sání (1)       | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q$                | 0.90 | 1.30                 |
| 28.1            | Vítr zleva + Běžný sníh navátý zleva + Vnitřní sání (1)   | Tlak   | EC5 6.10a  | -                   | $\Sigma 1.35G + 0.75snow + 0.90vítr$  | 0.90 | 1.30                 |
| 69.1            | Vítr zleva + Běžný sníh navátý zleva + Vnitřní sání (1)   | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q$                | 0.90 | 1.30                 |
| 73.1            | Vítr zprava + Běžný sníh nenavátý + Vnitřní sání (1)      | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q$                | 0.90 | 1.30                 |
| 77.1            | Vítr zprava + Běžný sníh navátý zprava + Vnitřní sání (1) | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q$                | 0.90 | 1.30                 |
| 81.1            | Běžný sníh nenavátý + Montážní horní Okamžitý 2           | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q + 1.50Okamžité$ | 1.10 | 1.30                 |
| 84.1            | Běžný sníh nenavátý + Montážní horní Okamžitý 5           | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q + 1.50Okamžité$ | 1.10 | 1.30                 |
| 88.1            | Běžný sníh nenavátý + Montážní horní Okamžitý 9           | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q + 1.50Okamžité$ | 1.10 | 1.30                 |
| 92.1            | Běžný sníh nenavátý + Montážní horní Okamžitý 13          | Tlak   | EC5 6.10b  | Krátkodobé          | $\Sigma 1.15G + 1.50Q + 1.50Okamžité$ | 1.10 | 1.30                 |
| 96              | Vítr zleva + Běžný sníh nenavátý + Vnitřní sání (1)       | Průhyb | EC5 Průhyb | Krátkodobé          | $\Sigma 1.00G + 1.00Q$                | 0.90 | 1.30                 |
| 104             | Vítr zprava + Běžný sníh nenavátý + Vnitřní sání (1)      | Průhyb | EC5 Průhyb | Krátkodobé          | $\Sigma 1.00G + 1.00Q$                | 0.90 | 1.30                 |

Informace o podporách

| Styčník | Třída řez. pozednice | Velikost (mm) | Požadovaná velikost (mm) | Max. index napětí na vazníku | Kc90 | Max. index napětí v podpoře | Reakce vzhůru (kN) |
|---------|----------------------|---------------|--------------------------|------------------------------|------|-----------------------------|--------------------|
| 13      |                      | 300           | 0                        | 0.00                         | 1.50 | 0.45                        | 22,877             |
| 24      |                      | 300           | 0                        | 0.00                         | 1.50 | 0.45                        | 22,858             |

Maximální podporové reakce

| Styční | Max. reakce (kN) / Zatěžovací stav |              |               | Reakce stálého zat. (kN) / |        | Reakce mimoř. zat. (kN) / Zatěžovací stav |        |              |
|--------|------------------------------------|--------------|---------------|----------------------------|--------|-------------------------------------------|--------|--------------|
|        | Dolů                               | Vzhůru       | Horizontální  | Dolů                       | Vzhůru | Dolů                                      | Vzhůru | Horizontální |
| 13     | 28,228 (73.1)                      | 22,877 (9.1) | -2,366 (65.1) | 5,051 (11.1)               | -      | -                                         | -      | -            |
| 24     | 28,186 (65.1)                      | 22,858 (9.1) | -             | 5,051 (11.1)               | -      | -                                         | -      | -            |



## Výsledky - napětí a vzpěr

| Informace o prvku |               |          |                 |              |        |        |      |               |                 |                 | Vzpěr   |         |       |       |            |            |       | Kritická napětí |        |            |       |                      |      |       |
|-------------------|---------------|----------|-----------------|--------------|--------|--------|------|---------------|-----------------|-----------------|---------|---------|-------|-------|------------|------------|-------|-----------------|--------|------------|-------|----------------------|------|-------|
| Prvek             | Poč./Ko<br>n. | Profil   | Třída<br>řeziva | Poč.<br>vrst | Wxx    | Wyy    | LC   | Osová<br>(kN) | Moment<br>(kNm) | Posuvná<br>(kN) | λrel IP | λrel OP | Kc,y  | Kc,z  | IP<br>(mm) | OP<br>(mm) | Ztuž. | IP CSI          | OP CSI | Max<br>CSI | Pos % | Smyk<br>zat.<br>stav | Kc,r | SSI   |
| T1                | 1 - 2         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -32,012       | -1,03           | 3,961           | 0.955   | 0.979   | 0.723 | 0.705 | 2600       | 1000       | 0     | 0.509           | 0.450  | 0.509      | 0     | 73.1                 | 0.67 | 0.303 |
| T1                | 2 - 3         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -53,192       | -1,65           | 0,000           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.811           | 0.738  | 0.811      | 0     | -                    | 0.67 | 0.000 |
| T4                | 3 - 4         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -53,192       | -0,82           | 3,213           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.634           | 0.614  | 0.634      | 100   | 73.1                 | 0.67 | 0.246 |
| T4                | 4 - 5         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -63,407       | -1,18           | 4,006           | 0.896   | 0.979   | 0.764 | 0.705 | 2440       | 1000       | 0     | 0.793           | 0.763  | 0.793      | 0     | 73.1                 | 0.67 | 0.307 |
| T4                | 5 - 6         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -63,396       | -0,83           | 2,941           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.724           | 0.709  | 0.724      | 0     | 73.1                 | 0.67 | 0.225 |
| T3                | 6 - 7         | 60 x 160 | C24             | 1            | 256000 | 96000  | 73.1 | -63,396       | -0,70           | 3,986           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.696           | 0.690  | 0.696      | 100   | 81.1                 | 0.67 | 0.250 |
| T3                | 7 - 8         | 60 x 160 | C24             | 1            | 256000 | 96000  | 65.1 | -63,333       | -0,89           | 2,914           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.738           | 0.719  | 0.738      | 100   | 65.1                 | 0.67 | 0.223 |
| T3                | 8 - 9         | 60 x 160 | C24             | 1            | 256000 | 96000  | 65.1 | -63,338       | -1,17           | 3,975           | 0.896   | 0.979   | 0.764 | 0.705 | 2440       | 1000       | 0     | 0.790           | 0.760  | 0.790      | 100   | 65.1                 | 0.67 | 0.304 |
| T3                | 9 - 10        | 60 x 160 | C24             | 1            | 256000 | 96000  | 65.1 | -53,056       | -0,80           | 3,455           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.629           | 0.610  | 0.629      | 0     | 65.1                 | 0.67 | 0.265 |
| T2                | 10 - 11       | 60 x 160 | C24             | 1            | 256000 | 96000  | 65.1 | -53,056       | -1,64           | 0,000           | 0.910   | 0.979   | 0.754 | 0.705 | 2480       | 1000       | 0     | 0.810           | 0.736  | 0.810      | 100   | -                    | 0.67 | 0.000 |
| T2                | 11 - 12       | 60 x 160 | C24             | 1            | 256000 | 96000  | 65.1 | -31,956       | 1,03            | 3,959           | 0.955   | 0.979   | 0.723 | 0.705 | 2600       | 1000       | 0     | 0.508           | 0.450  | 0.508      | 48    | 65.1                 | 0.67 | 0.303 |
| B1                | 13 - 14       | 60 x 180 | C24             | 1            | 324000 | 108000 | 73.1 | -2,124        | -1,86           | 1,484           | 0.772   | 1.214   | 0.841 | 0.536 | 2365       | 1240       | 0     | 0.328           | 0.242  | 0.328      | 0     | 73.1                 | 0.67 | 0.101 |
| B1                | 14 - 15       | 60 x 180 | C24             | 1            | 324000 | 108000 | 73.1 | 29,213        | 0,72            | 0,000           | 0.811   | 1.214   | 0.819 | 0.536 | 2485       | 1240       | 0     | 0.375           | 0.332  | 0.375      | 100   | -                    | 0.67 | 0.000 |
| B4                | 15 - 16       | 60 x 180 | C24             | 1            | 324000 | 108000 | 73.1 | 29,213        | 0,92            | 0,628           | 0.811   | 1.214   | 0.819 | 0.536 | 2485       | 1240       | 0     | 0.409           | 0.357  | 0.409      | 100   | 62.1                 | 0.67 | 0.043 |
| B4                | 16 - 17       | 60 x 180 | C24             | 1            | 324000 | 108000 | 73.1 | 50,420        | 0,86            | 0,777           | 0.816   | 1.214   | 0.816 | 0.536 | 2500       | 1240       | 0     | 0.584           | 0.556  | 0.584      | 100   | 65.1                 | 0.67 | 0.053 |
| B4                | 17 - 18       | 60 x 180 | C24             | 1            | 324000 | 108000 | 9.1  | -54,782       | -0,35           | 0,346           | 0.816   | 1.214   | 0.816 | 0.536 | 2500       | 1240       | 0     | 0.617           | 0.634  | 0.634      | 100   | 65.1                 | 0.67 | 0.024 |
| B3                | 18 - 19       | 60 x 180 | C24             | 1            | 324000 | 108000 | 9.1  | -54,782       | -0,44           | 0,297           | 0.816   | 1.214   | 0.816 | 0.536 | 2500       | 1240       | 0     | 0.628           | 0.644  | 0.644      | 100   | 58.1                 | 0.67 | 0.020 |
| B3                | 19 - 20       | 60 x 180 | C24             | 1            | 324000 | 108000 | 9.1  | -54,784       | -0,44           | 0,375           | 0.816   | 1.214   | 0.816 | 0.536 | 2500       | 1240       | 0     | 0.627           | 0.644  | 0.644      | 0     | 73.1                 | 0.67 | 0.025 |
| B3                | 20 - 21       | 60 x 180 | C24             | 1            | 324000 | 108000 | 65.1 | 52,647        | 0,77            | 0,738           | 0.816   | 1.214   | 0.816 | 0.536 | 2500       | 1240       | 0     | 0.587           | 0.546  | 0.587      | 0     | 73.1                 | 0.67 | 0.050 |
| B3                | 21 - 22       | 60 x 180 | C24             | 1            | 324000 | 108000 | 65.1 | 31,523        | 0,94            | 0,635           | 0.811   | 1.214   | 0.819 | 0.536 | 2485       | 1240       | 0     | 0.432           | 0.358  | 0.432      | 0     | 62.1                 | 0.67 | 0.043 |
| B2                | 22 - 23       | 60 x 180 | C24             | 1            | 324000 | 108000 | 65.1 | 31,523        | 0,74            | 0,000           | 0.811   | 1.214   | 0.819 | 0.536 | 2485       | 1240       | 0     | 0.398           | 0.333  | 0.398      | 0     | -                    | 0.67 | 0.000 |
| B2                | 23 - 24       | 60 x 180 | C24             | 1            | 324000 | 108000 | 65.1 | 0,238         | -1,85           | 1,481           | -       | -       | -     | -     | -          | -          | 0     | 0.314           | 0.136  | 0.314      | 100   | 65.1                 | 0.67 | 0.101 |
| W22               | 1 - 14        | 60 x 160 | C24             | 1            | 256000 | 96000  | 9.1  | -31,840       | -0,13           | 0,000           | 1.219   | 1.625   | 0.532 | 0.329 | 1660       | 1660       | 1     | 0.423           | 0.513  | 0.513      | 0     | -                    | 0.67 | 0.000 |
| W23               | 2 - 16        | 60 x 140 | C24             | 1            | 196000 | 84000  | 9.1  | -20,989       | -0,17           | 0,000           | 1.219   | 1.625   | 0.532 | 0.329 | 1660       | 1660       | 1     | 0.343           | 0.412  | 0.412      | 0     | -                    | 0.67 | 0.000 |

| Informace o prvku |           |          |              |           |        |       |      |            |              |              | Vzpěr   |         |       |       |         |         |       | Kritická napětí |        |         |       |                |      |       |
|-------------------|-----------|----------|--------------|-----------|--------|-------|------|------------|--------------|--------------|---------|---------|-------|-------|---------|---------|-------|-----------------|--------|---------|-------|----------------|------|-------|
| Prvek             | Poč./Kón. | Profil   | Třída řeziva | Poč. vrst | Wxx    | Wyy   | LC   | Osová (kN) | Moment (kNm) | Posuvná (kN) | λrel IP | λrel OP | Kc,y  | Kc,z  | IP (mm) | OP (mm) | Ztuž. | IP CSI          | OP CSI | Max CSI | Pos % | Smyk zat. stav | Kc,r | SSI   |
| W24               | 4 - 17    | 60 x 140 | C24          | 1         | 196000 | 84000 | 9.1  | -11,448    | -0,10        | 0,000        | 1.224   | 2.857   | 0.529 | 0.114 | 2918    | 2918    | 0     | 0.199           | 0.763  | 0.763   | 0     | -              | 0.67 | 0.000 |
| W26               | 7 - 20    | 60 x 100 | C24          | 1         | 100000 | 60000 | 73.1 | -7,199     | 0,10         | 0,000        | 1.714   | 2.857   | 0.299 | 0.114 | 2918    | 2918    | 0     | 0.301           | 0.691  | 0.691   | 100   | -              | 0.67 | 0.000 |
| W21               | 14 - 2    | 60 x 80  | C24          | 1         | 64000  | 48000 | 73.1 | -22,376    | -0,01        | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.551           | 0.888  | 0.888   | 0     | -              | 0.67 | 0.000 |
| W19               | 16 - 4    | 60 x 80  | C24          | 1         | 64000  | 48000 | 73.1 | -14,455    | -0,03        | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.377           | 0.588  | 0.588   | 100   | -              | 0.67 | 0.000 |
| W20               | 17 - 5    | 60 x 80  | C24          | 1         | 64000  | 48000 | 73.1 | -6,517     | 0,01         | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.167           | 0.263  | 0.263   | 100   | -              | 0.67 | 0.000 |
| W25               | 17 - 7    | 60 x 100 | C24          | 1         | 100000 | 60000 | 65.1 | -7,277     | 0,10         | 0,000        | 1.714   | 2.857   | 0.299 | 0.114 | 2918    | 2918    | 0     | 0.306           | 0.700  | 0.700   | 0     | -              | 0.67 | 0.000 |
| W15               | 19 - 7    | 60 x 80  | C24          | 1         | 64000  | 48000 | 81.1 | -0,345     | 0,01         | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.013           | 0.015  | 0.015   | 100   | -              | 0.67 | 0.000 |
| W17               | 20 - 8    | 60 x 80  | C24          | 1         | 64000  | 48000 | 65.1 | -6,521     | -0,01        | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.164           | 0.261  | 0.261   | 100   | -              | 0.67 | 0.000 |
| W27               | 20 - 9    | 60 x 140 | C24          | 1         | 196000 | 84000 | 9.1  | -11,608    | -0,10        | 0,000        | 1.224   | 2.857   | 0.529 | 0.114 | 2918    | 2918    | 0     | 0.201           | 0.774  | 0.774   | 100   | -              | 0.67 | 0.000 |
| W16               | 21 - 9    | 60 x 80  | C24          | 1         | 64000  | 48000 | 65.1 | -14,463    | 0,03         | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.376           | 0.587  | 0.587   | 100   | -              | 0.67 | 0.000 |
| W28               | 21 - 11   | 60 x 140 | C24          | 1         | 196000 | 84000 | 9.1  | -20,929    | -0,17        | 0,000        | 1.224   | 2.857   | 0.529 | 0.114 | 2918    | 2918    | 1     | 0.342           | 0.411  | 0.411   | 100   | -              | 0.67 | 0.000 |
| W18               | 23 - 11   | 60 x 80  | C24          | 1         | 64000  | 48000 | 65.1 | -22,329    | 0,01         | 0,000        | 1.219   | 1.625   | 0.532 | 0.329 | 1660    | 1660    | 0     | 0.551           | 0.886  | 0.886   | 0     | -              | 0.67 | 0.000 |
| W29               | 23 - 12   | 60 x 160 | C24          | 1         | 256000 | 96000 | 9.1  | -31,816    | -0,13        | 0,000        | 1.224   | 2.857   | 0.529 | 0.114 | 2918    | 2918    | 1     | 0.423           | 0.513  | 0.513   | 100   | -              | 0.67 | 0.000 |
| EV1               | 13 - 1    | 60 x 160 | C24          | 1         | 256000 | 96000 | 73.1 | -26,369    | -0,74        | 0,000        | 0.609   | 1.625   | 0.914 | 0.329 | 1660    | 1660    | 0     | 0.352           | 0.632  | 0.632   | 100   | -              | 0.67 | 0.000 |
| EV2               | 24 - 12   | 60 x 160 | C24          | 1         | 256000 | 96000 | 65.1 | -26,330    | 0,74         | 0,000        | 0.609   | 1.625   | 0.914 | 0.329 | 1660    | 1660    | 0     | 0.352           | 0.631  | 0.631   | 100   | -              | 0.67 | 0.000 |

Kontrola návrhu



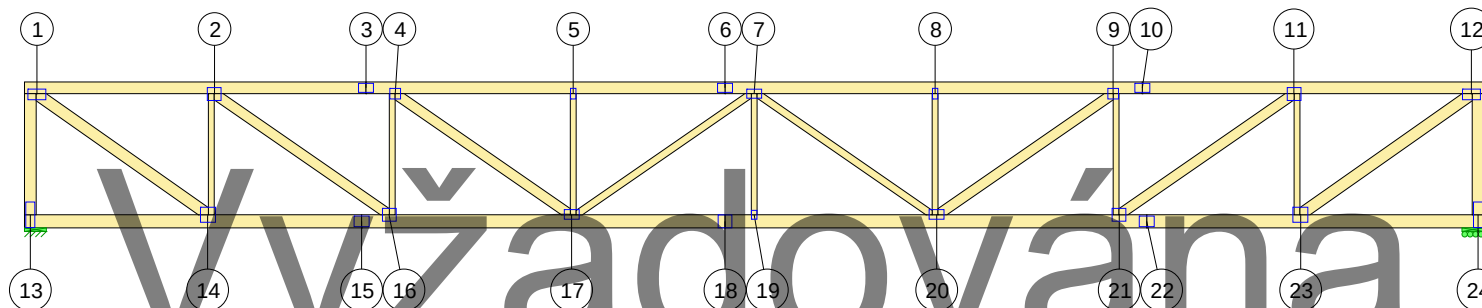
## Posouzení průhybu - Sumář

|                   | Složky průhybu | Umístění | Zatěžovací stav | Dovolený průhyb | Aktuální průhyb (mm) |
|-------------------|----------------|----------|-----------------|-----------------|----------------------|
| Dolní pás Rozpětí | W(inst)        | 13 - 24  | 96              | 65.67           | 27.53                |
| Dolní pás Rozpětí | W(fin)         | 13 - 24  | 96              | 98.5            | 31.96                |

# Vyžadován a kontrola návrhu



# Posouzení styčníkových desek:

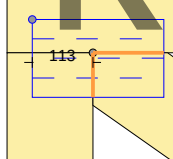


| Trny      |              |            |              |          |              |        |       |                             |                        |                       |        |       |          |           | Ocel       |           |       |       |           |        |       |       |       |      |
|-----------|--------------|------------|--------------|----------|--------------|--------|-------|-----------------------------|------------------------|-----------------------|--------|-------|----------|-----------|------------|-----------|-------|-------|-----------|--------|-------|-------|-------|------|
| Zat. stav | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | α (°)  | β (°) | Fa,α,β (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip   |       | CSI      | Zat. stav | Délka (mm) | Síla (kN) |       | γ (°) | Síla (kN) |        | CSI   |       |       |      |
|           |              |            |              |          |              |        |       |                             |                        |                       | Kx     | Krot  |          |           |            | Fx,ed     | Fy,ed |       | Fx,rk     | Fy,rk  |       |       |       |      |
| 1         | T150 145x245 | 1525       | 73.1         | T1       | -32,012      | -4,489 | 0     | 0,11                        | 8                      | 8                     | 3.57   | 12863 | 824851   | 71001     | 371460960  | 0.47      | 77.1  | 245   | 32,01     | -3,158 | 0     | 40,37 | 41,55 | 0.80 |
|           | 9.1          | W5         | -22,256      | 2,234    | 0            | -0,18  | 6     | 84                          | 2.54                   | 6919                  | 227898 | 38192 | 47938288 | 0.88      | 9.1        | 113       | 2,234 | 27,49 | 0         | 18,54  | 26,28 | 0.67  |       |      |
|           | 73.1         | W4         | 38,211       | 0,151    | 0            | 0,23   | 0     | 35                          | 3.31                   | 8561                  | 318795 | 47256 | 76338416 | 0.98      | 77.1       | 83        | 37,33 | 21,86 | 90        | 39,33  | 12,14 | 0.92  |       |      |

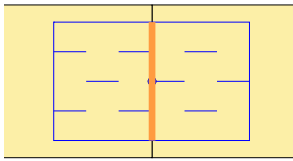
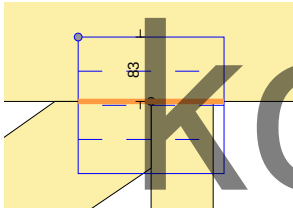
Technical drawing of a T150 145x245 angle section. The drawing shows the L-shaped profile with a rectangular box highlighting a specific area. A dimension line indicates a length of 113 mm. The drawing is labeled with 'T 63' and '113'.

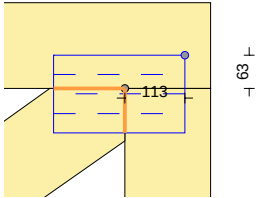
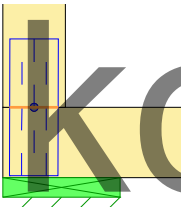
Typ styčníku TMVW-t

63

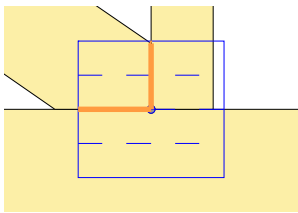
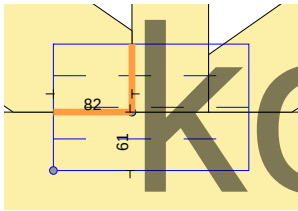


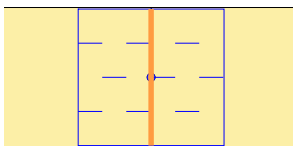
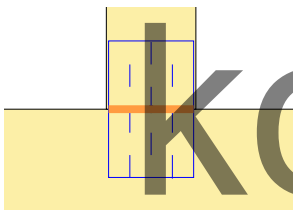
Typ styčníku TMVW-t

|                                                                                    |              |            | Trny                       |          |              |              |             |                                           |                        |                       |      |       |        |           |            | Ocel      |       |              |           |        |     |       |       |      |  |
|------------------------------------------------------------------------------------|--------------|------------|----------------------------|----------|--------------|--------------|-------------|-------------------------------------------|------------------------|-----------------------|------|-------|--------|-----------|------------|-----------|-------|--------------|-----------|--------|-----|-------|-------|------|--|
| Zat. stav                                                                          | Prvek        | Osová (kN) | Posuvná (kN)               | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_a, \alpha, \beta$ (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip |       | CSI    | Zat. stav | Délka (mm) | Síla (kN) |       | $\gamma$ (°) | Síla (kN) |        | CSI |       |       |      |  |
|                                                                                    |              |            |                            |          |              |              |             |                                           |                        |                       | Kx   | Krot  |        |           |            | Fx,ed     | Fy,ed |              | Fx,rk     | Fy,rk  |     |       |       |      |  |
| 10                                                                                 | T150 124x205 | 1320       | 9.1                        | T3       | -45,644      | -1,903       | 0           | 0,12                                      | 2                      | 2                     | 3.76 | 10850 | 442956 | 59892     | 671303552  | 0.78      | 9.1   | 124          | 53,18     | 1,896  | 90  | 59,12 | 18,25 | 0.91 |  |
|                                                                                    |              |            | 9.1                        | T1       | 45,644       | 1,903        | 0           | -0,33                                     | 2                      | 2                     | 3.76 | 10850 | 442956 | 59892     | 671272128  | 0.79      | 9.1   | 124          | 53,18     | 1,896  | 90  | 59,12 | 18,25 | 0.91 |  |
|   |              |            | Vyžadována kontrola návrhu |          |              |              |             |                                           |                        |                       |      |       |        |           |            |           |       |              |           |        |     |       |       |      |  |
| Typ styčníku CS-t                                                                  |              |            |                            |          |              |              |             |                                           |                        |                       |      |       |        |           |            |           |       |              |           |        |     |       |       |      |  |
| 11                                                                                 | T150 176x188 | 1718       | 65.1                       | T1       | 21,100       | -7,844       | 0           | 0,17                                      | 20                     | 20                    | 3.19 | 13724 | 725537 | 75756     | 256770288  | 0.31      | 65.1  | 188          | 21,10     | -5,760 | 0   | 30,98 | 31,88 | 0.70 |  |
|                                                                                    |              |            | 9.1                        | W1       | -18,840      | -0,003       | 0           | 0,01                                      | 0                      | 90                    | 2.48 | 5460  | 154722 | 30139     | 27587416   | 0.96      | 9.1   | 80           | 0,003     | 19,13  | 0   | 13,18 | 18,68 | 0.59 |  |
|                                                                                    |              |            | 65.1                       | W3       | -25,596      | 0,092        | 0           | 0,09                                      | 0                      | 35                    | 3.31 | 6641  | 207002 | 36658     | 40542868   | 0.84      | 65.1  | 94           | 21,10     | 17,37  | 0   | 15,49 | 21,95 | 0.69 |  |
|  |              |            | kontrola návrhu            |          |              |              |             |                                           |                        |                       |      |       |        |           |            |           |       |              |           |        |     |       |       |      |  |
| Typ styčníku CMWW-t                                                                |              |            |                            |          |              |              |             |                                           |                        |                       |      |       |        |           |            |           |       |              |           |        |     |       |       |      |  |

|                                                                                    |              |            | Trny         |          |              |         |       |                             |                        |                       |         |        |           | Ocel      |            |           |       |       |           |        |       |       |       |      |
|------------------------------------------------------------------------------------|--------------|------------|--------------|----------|--------------|---------|-------|-----------------------------|------------------------|-----------------------|---------|--------|-----------|-----------|------------|-----------|-------|-------|-----------|--------|-------|-------|-------|------|
| Zat. stav                                                                          | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | α (°)   | β (°) | Fa,α,β (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip    |        | CSI       | Zat. stav | Délka (mm) | Síla (kN) |       | γ (°) | Síla (kN) |        | CSI   |       |       |      |
|                                                                                    |              |            |              |          |              |         |       |                             |                        |                       | Kx      | Krot   |           |           |            | Fx,ed     | Fy,ed |       | Fx,rk     | Fy,rk  |       |       |       |      |
| 12                                                                                 | T150 145x245 | 1525       | 73.1         | T1       | 32,012       | -4,489  | 0     | -0,11                       | 8                      | 8                     | 3.57    | 12863  | 824852    | 71001     | 371460960  | 0.47      | 77.1  | 245   | 25,76     | -2,554 | 0     | 40,37 | 41,55 | 0.80 |
|   | 9.1          | W5         | 22,256       | 2,234    | 0            | 0,18    | 6     | 84                          | 2.54                   | 6919                  | 227898  | 38192  | 47938292  | 0.88      | 9.1        | 113       | 2,233 | 27,46 | 0         | 18,54  | 26,28 | 0.67  |       |      |
|                                                                                    | 73.1         | W4         | 38,211       | 0,151    | 0            | -0,23   | 0     | 35                          | 3.31                   | 8561                  | 318793  | 47256  | 76337776  | 0.98      | 77.1       | 133       | 24,15 | 18,76 | 0         | 21,83  | 30,95 | 0.92  |       |      |
| Vyžadována                                                                         |              |            |              |          |              |         |       |                             |                        |                       |         |        |           |           |            |           |       |       |           |        |       |       |       |      |
| Typ styčnicku TMVW-t                                                               |              |            |              |          |              |         |       |                             |                        |                       |         |        |           |           |            |           |       |       |           |        |       |       |       |      |
| 13                                                                                 | T150 124x350 | 1335       | 9.1          | B1       | 1,502        | -21,957 | -90   | -0,34                       | 86                     | 4                     | 2.56    | 20460  | 1138050   | 112939    | 400943712  | 0.33      | 9.1   | 124   | 32,81     | 1,502  | 90    | 53,74 | 16,59 | 0.62 |
|  | 9.1          | W5         | 21,957       | 1,502    | -90          | 0,07    | 4     | 4                           | 3.71                   | 19840                 | 1083143 | 109517 | 373963520 | 0.23      | 9.1        | 124       | 24,09 | 1,502 | 90        | 53,74  | 16,59 | 0.46  |       |      |
|                                                                                    |              |            |              |          |              |         |       |                             |                        |                       |         |        |           |           |            |           |       |       |           |        |       |       |       |      |
| Typ styčnicku BMV+p                                                                |              |            |              |          |              |         |       |                             |                        |                       |         |        |           |           |            |           |       |       |           |        |       |       |       |      |

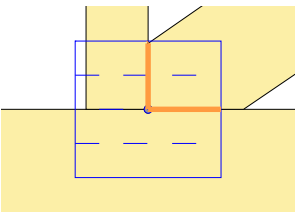
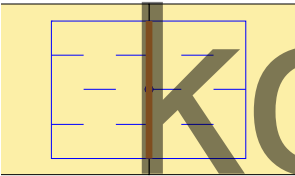
|                     |              |            | Trny            |          |              |              |             |                                           |                             |                          |      |       |         | Ocel      |            |            |            |              |            |            |     |       |       |      |
|---------------------|--------------|------------|-----------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|------|-------|---------|-----------|------------|------------|------------|--------------|------------|------------|-----|-------|-------|------|
| Zat. stav           | Prvek        | Osová (kN) | Posuvná (kN)    | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_a, \alpha, \beta$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip |       | CSI     | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI |       |       |      |
|                     |              |            |                 |          |              |              |             |                                           |                             |                          | Kx   | Krot  |         |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |     |       |       |      |
| 14                  | T150 206x205 | 2020       | 73.1            | B1       | 31,337       | 0,516        | 0           | -0,90                                     | 1                           | 1                        | 3.82 | 19065 | 1133380 | 105239    | 444405920  | 0.33       | 77.1       | 205          | 31,33      | 17,05      | 0   | 33,78 | 47,88 | 0.99 |
|                     |              |            | 9.1             | W1       | 18,864       | -0,002       | 0           | 0,01                                      | 0                           | 90                       | 2.48 | 6160  | 186921  | 34003     | 35828036   | 0.85       | 9.1        | 80           | 0,002      | 19,03      | 0   | 13,18 | 18,68 | 0.56 |
|                     |              |            | 73.1            | W4       | 38,211       | -0,151       | 0           | -0,23                                     | 0                           | 35                       | 3.31 | 8701  | 310530  | 48027     | 69659520   | 0.97       | 73.1       | 3            | 34,93      | 26,96      | 35  | 0,816 | 0,571 | 0.93 |
|                     |              |            | Vyžadována      |          |              |              |             |                                           |                             |                          |      |       |         |           |            |            |            |              |            |            |     |       |       |      |
| Typ styčníku CMWW-t |              |            |                 |          |              |              |             |                                           |                             |                          |      |       |         |           |            |            |            |              |            |            |     |       |       |      |
| 15                  | T150 145x205 | 1520       | 73.1            | B1       | -29,213      | 0,595        | 0           | -0,72                                     | 1                           | 1                        | 3.81 | 12688 | 574774  | 70035     | 937009920  | 0.48       | 73.1       | 145          | 49,91      | 0,595      | 90  | 69,13 | 21,34 | 0.72 |
|                     |              |            | 73.1            | B2       | 29,213       | -0,595       | 0           | 0,78                                      | 1                           | 1                        | 3.81 | 12688 | 574774  | 70035     | 937013568  | 0.49       | 77.1       | 145          | 49,91      | 0,595      | 90  | 69,13 | 21,34 | 0.72 |
|                     |              |            | kontrola návrhu |          |              |              |             |                                           |                             |                          |      |       |         |           |            |            |            |              |            |            |     |       |       |      |
| Typ styčníku CS-t   |              |            |                 |          |              |              |             |                                           |                             |                          |      |       |         |           |            |            |            |              |            |            |     |       |       |      |

|                                                                                    |               |            | Trny         |          |              |              |             |                                           |                        |                       |        |       |          | Ocel      |            |           |       |              |           |       |       |       |       |      |
|------------------------------------------------------------------------------------|---------------|------------|--------------|----------|--------------|--------------|-------------|-------------------------------------------|------------------------|-----------------------|--------|-------|----------|-----------|------------|-----------|-------|--------------|-----------|-------|-------|-------|-------|------|
| Zat. stav                                                                          | Prvek         | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_a, \alpha, \beta$ (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip   |       | CSI      | Zat. stav | Délka (mm) | Síla (kN) |       | $\gamma$ (°) | Síla (kN) |       | CSI   |       |       |      |
|                                                                                    |               |            |              |          |              |              |             |                                           |                        |                       | Kx     | Krot  |          |           |            | Fx,ed     | Fy,ed |              | Fx,rk     | Fy,rk |       |       |       |      |
| 16                                                                                 | T150 176x188  | 1718       | 73.1         | B2       | 21,207       | -0,084       | 0           | -0,44                                     | 0                      | 0                     | 3.84   | 14664 | 784859   | 80945     | 279450080  | 0.28      | 77.1  | 188          | 21,20     | 9,485 | 0     | 30,98 | 43,91 | 0.72 |
|   | 9.1           | W1         | -12,086      | 0,006    | 0            | 0,00         | 0           | 90                                        | 2.48                   | 5110                  | 139807 | 28207 | 24044286 | 0.66      | 9.1        | 80        | 0,008 | 12,18        | 0         | 13,18 | 18,68 | 0.38  |       |      |
|                                                                                    | 73.1          | W3         | -25,693      | -0,093   | 0            | -0,15        | 0           | 35                                        | 3.31                   | 6245                  | 188884 | 34472 | 35912924 | 0.91      | 77.1       | 85        | 25,96 | 14,53        | 90        | 40,58 | 12,52 | 0.72  |       |      |
| Typ styčníku CMWW-t                                                                |               |            |              |          |              |              |             |                                           |                        |                       |        |       |          |           |            |           |       |              |           |       |       |       |       |      |
| 17                                                                                 | GNA20 132x204 | 1320       | 73.1         | B2       | 18,618       | 0,154        | 0           | -0,16                                     | 0                      | 0                     | 3.10   | 10404 | 562853   | 90862     | 334802304  | 0.41      | 73.1  | 204          | 11,22     | 1,007 | 0     | 19,91 | 27,09 | 0.94 |
|  | -             | W1         | 0,000        | 3,008    | 0            | 0,00         | 90          | 0                                         | 2.71                   | 3920                  | 94840  | 34235 | 22925816 | 0.33      | 73.1       | 71        | 0,319 | 6,517        | 90        | 17,26 | 4,771 | 0.24  |       |      |
|                                                                                    | 65.1          | W2         | -7,277       | 0,048    | 0            | -0,01        | 0           | 35                                        | 2.70                   | 1713                  | 30002  | 14959 | 5451403  | 0.96      | 69.1       | 42        | 6,013 | -2,423       | 0         | 4,099 | 4,704 | 0.59  |       |      |
|                                                                                    | 73.1          | W3         | -15,367      | -0,044   | 0            | -0,07        | 0           | 35                                        | 2.71                   | 4148                  | 102563 | 36225 | 25259354 | 0.96      | 77.1       | 71        | 12,17 | 6,987        | 90        | 17,26 | 4,771 | 0.98  |       |      |
| Typ styčníku CMWWW-t                                                               |               |            |              |          |              |              |             |                                           |                        |                       |        |       |          |           |            |           |       |              |           |       |       |       |       |      |

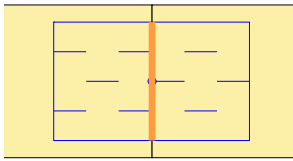
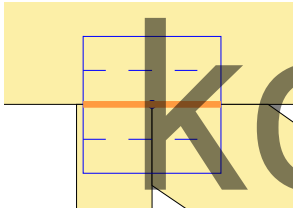
| Trny                                                                               |              |            |              |          |              |              |             |                                           |                             |                          |      |       | Ocel                       |           |            |            |            |              |            |            |     |       |       |      |
|------------------------------------------------------------------------------------|--------------|------------|--------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|------|-------|----------------------------|-----------|------------|------------|------------|--------------|------------|------------|-----|-------|-------|------|
| Zat. stav                                                                          | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_{a,\alpha,\beta}$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip |       | CSI                        | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI |       |       |      |
|                                                                                    |              |            |              |          |              |              |             |                                           |                             |                          | Kx   | Krot  |                            |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |     |       |       |      |
| 18                                                                                 | T150 176x188 | 1718       | 65.1         | B2       | -63,847      | -0,171       | 0           | -0,38                                     | 0                           | 0                        | 3.84 | 13114 | 638129                     | 72389     | 967603392  | 0.89       | 88.1       | 176          | 72,80      | 0,189      | 90  | 83,91 | 25,90 | 0.87 |
|                                                                                    |              |            | 65.1         | B3       | 63,847       | -0,171       | 0           | 0,38                                      | 0                           | 0                        | 3.84 | 13114 | 638129                     | 72389     | 967603392  | 0.89       | 88.1       | 176          | 72,80      | 0,189      | 90  | 83,91 | 25,90 | 0.87 |
|   |              |            |              |          |              |              |             |                                           |                             |                          |      |       | Vyžadována kontrola návrhu |           |            |            |            |              |            |            |     |       |       |      |
| Typ styčníku CS-t                                                                  |              |            |              |          |              |              |             |                                           |                             |                          |      |       |                            |           |            |            |            |              |            |            |     |       |       |      |
| 19                                                                                 | GNA20 76x122 | 813        | -            | B3       | 0,000        | 3,008        | -90         | 0,00                                      | 90                          | 0                        | 2.71 | 3876  | 95275                      | 33850     | 23630400   | 0.33       | 24.1       | 76           | -1,022     | 2,393      | 90  | 10,82 | 5,107 | 0.48 |
|                                                                                    |              |            | -            | W1       | 0,000        | 3,008        | -90         | 0,00                                      | 90                          | 90                       | 1.79 | 3036  | 65677                      | 26514     | 14300100   | 0.42       | 28.1       | 76           | -1,020     | 2,393      | 90  | 10,82 | 5,107 | 0.48 |
|  |              |            |              |          |              |              |             |                                           |                             |                          |      |       | kontrola návrhu            |           |            |            |            |              |            |            |     |       |       |      |
| Typ styčníku CMW+w                                                                 |              |            |              |          |              |              |             |                                           |                             |                          |      |       |                            |           |            |            |            |              |            |            |     |       |       |      |

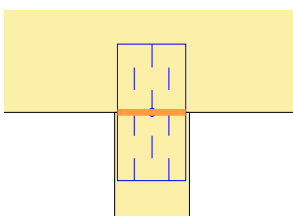
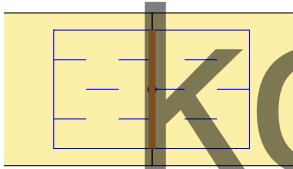
|                      |               |            | Trny         |          |              |        |       |                             |                        |                       |      |       |        |           | Ocel       |           |       |       |           |        |     |       |       |      |
|----------------------|---------------|------------|--------------|----------|--------------|--------|-------|-----------------------------|------------------------|-----------------------|------|-------|--------|-----------|------------|-----------|-------|-------|-----------|--------|-----|-------|-------|------|
| Zat. stav            | Prvek         | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | α (°)  | β (°) | Fa,α,β (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip |       | CSI    | Zat. stav | Délka (mm) | Síla (kN) |       | γ (°) | Síla (kN) |        | CSI |       |       |      |
|                      |               |            |              |          |              |        |       |                             |                        |                       | Kx   | Krot  |        |           |            | Fx,ed     | Fy,ed |       | Fx,rk     | Fy,rk  |     |       |       |      |
| 2                    | T150 176x188  | 1718       | 73.1         | T1       | -21,181      | -7,837 | 0     | -0,17                       | 20                     | 20                    | 3.20 | 13724 | 725537 | 75756     | 256770288  | 0.32      | 77.1  | 188   | 21,18     | -5,765 | 0   | 30,98 | 31,88 | 0.71 |
|                      |               |            | 9.1          | W1       | -18,864      | 0,002  | 0     | -0,01                       | 0                      | 90                    | 2.48 | 5460  | 154722 | 30139     | 27587414   | 0.96      | 9.1   | 80    | 0,002     | 19,13  | 0   | 13,18 | 18,68 | 0.59 |
|                      |               |            | 73.1         | W3       | 25,693       | 0,093  | 0     | -0,09                       | 0                      | 35                    | 3.31 | 6641  | 207003 | 36658     | 40543152   | 0.85      | 77.1  | 4     | 22,86     | 16,97  | 35  | 1,211 | 0,862 | 0.70 |
| Typ styčníku CMWW-t  |               |            |              |          |              |        |       |                             |                        |                       |      |       |        |           |            |           |       |       |           |        |     |       |       |      |
| 20                   | GNA20 132x204 | 1320       | 73.1         | B3       | -18,618      | 0,154  | 0     | 0,16                        | 0                      | 0                     | 3.10 | 10404 | 562853 | 90862     | 334802304  | 0.41      | 73.1  | 204   | 18,61     | 3,070  | 0   | 19,91 | 27,09 | 0.94 |
|                      |               |            | -            | W1       | 0,000        | 3,008  | 0     | 0,00                        | 90                     | 0                     | 2.71 | 3920  | 94840  | 34235     | 22925816   | 0.33      | 65.1  | 71    | 0,072     | 6,521  | 90  | 17,26 | 4,771 | 0.24 |
|                      |               |            | 73.1         | W3       | 15,367       | -0,044 | 0     | 0,07                        | 0                      | 35                    | 2.71 | 4148  | 102564 | 36225     | 25259736   | 0.96      | 77.1  | 82    | 12,66     | 11,34  | 0   | 8,003 | 10,89 | 0.98 |
|                      |               |            | 73.1         | W2       | 7,199        | 0,047  | 0     | 0,02                        | 0                      | 35                    | 2.70 | 1713  | 30000  | 14958     | 5451069    | 0.95      | 73.1  | 6     | 3,229     | 2,397  | 35  | 0,474 | 0,535 | 0.59 |
| Typ styčníku CMWWW-t |               |            |              |          |              |        |       |                             |                        |                       |      |       |        |           |            |           |       |       |           |        |     |       |       |      |



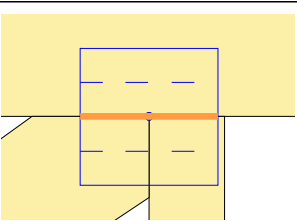
|                                                                                    |                   |            | Trny         |          |              |        |       |                             |                        |                       |        |       |           |           | Ocel       |           |       |       |           |       |       |       |       |      |
|------------------------------------------------------------------------------------|-------------------|------------|--------------|----------|--------------|--------|-------|-----------------------------|------------------------|-----------------------|--------|-------|-----------|-----------|------------|-----------|-------|-------|-----------|-------|-------|-------|-------|------|
| Zat. stav                                                                          | Prvek             | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | α (°)  | β (°) | Fa,α,β (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip   |       | CSI       | Zat. stav | Délka (mm) | Síla (kN) |       | γ (°) | Síla (kN) |       | CSI   |       |       |      |
|                                                                                    |                   |            |              |          |              |        |       |                             |                        |                       | Kx     | Krot  |           |           |            | Fx,ed     | Fy,ed |       | Fx,rk     | Fy,rk |       |       |       |      |
| 21                                                                                 | T150 176x188      | 1718       | 65.1         | B3       | -21,123      | -0,022 | 0     | 0,43                        | 0                      | 0                     | 3.85   | 14664 | 784859    | 80945     | 279450080  | 0.28      | 69.1  | 188   | 21,12     | 9,219 | 0     | 30,98 | 43,91 | 0.71 |
|   | 9.1               | W1         | 12,086       | 0,006    | 0            | 0,00   | 0     | 90                          | 2.48                   | 5110                  | 139807 | 28207 | 24044286  | 0.66      | 9.1        | 88        | 0,070 | 12,08 | 90        | 41,95 | 12,95 | 0.38  |       |      |
|                                                                                    | 65.1              | W3         | 25,596       | -0,092   | 0            | 0,15   | 0     | 35                          | 3.31                   | 6245                  | 188887 | 34472 | 35913796  | 0.91      | 69.1       | 94        | 21,10 | 19,33 | 0         | 15,49 | 21,95 | 0.72  |       |      |
| Typ styčníku CMWW-t                                                                |                   |            |              |          |              |        |       |                             |                        |                       |        |       |           |           |            |           |       |       |           |       |       |       |       |      |
| 22                                                                                 | T150 145x205      | 1520       | 65.1         | B3       | -31,523      | -0,602 | 0     | -0,80                       | 1                      | 1                     | 3.81   | 12688 | 574774    | 70035     | 937009920  | 0.52      | 65.1  | 145   | 52,72     | 0,602 | 90    | 69,13 | 21,34 | 0.76 |
|  | 65.1              | B1         | 31,523       | 0,602    | 0            | 0,74   | 1     | 1                           | 3.81                   | 12688                 | 574774 | 70035 | 937009920 | 0.51      | 65.1       | 145       | 52,72 | 0,602 | 90        | 69,13 | 21,34 | 0.76  |       |      |
|                                                                                    | Typ styčníku CS-t |            |              |          |              |        |       |                             |                        |                       |        |       |           |           |            |           |       |       |           |       |       |       |       |      |

|           |              |            | Trny         |          |              |              |             |                                           |                             |                          |      |       |         | Ocel      |            |            |            |              |            |            |     |       |       |      |
|-----------|--------------|------------|--------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|------|-------|---------|-----------|------------|------------|------------|--------------|------------|------------|-----|-------|-------|------|
| Zat. stav | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_a, \alpha, \beta$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip |       | CSI     | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI |       |       |      |
|           |              |            |              |          |              |              |             |                                           |                             |                          | Kx   | Krot  |         |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |     |       |       |      |
| 23        | T150 206x205 | 2020       | 65.1         | B1       | -31,285      | 0,505        | 0           | 0,90                                      | 1                           | 1                        | 3.82 | 19065 | 1133380 | 105239    | 444405920  | 0.33       | 69.1       | 205          | 31,28      | 17,02      | 0   | 33,78 | 47,88 | 0.99 |
|           |              |            |              |          |              |              |             |                                           |                             |                          |      |       |         |           |            |            |            |              |            |            |     |       |       |      |

|           |              |            | Trny                                                                               |          |              |              |             |                                           |                             |                          |      |       |        | Ocel      |            |            |            |              |            |            |     |       |       |      |
|-----------|--------------|------------|------------------------------------------------------------------------------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|------|-------|--------|-----------|------------|------------|------------|--------------|------------|------------|-----|-------|-------|------|
| Zat. stav | Prvek        | Osová (kN) | Posuvná (kN)                                                                       | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_{a,\alpha,\beta}$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip |       | CSI    | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI |       |       |      |
|           |              |            |                                                                                    |          |              |              |             |                                           |                             |                          | Kx   | Krot  |        |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |     |       |       |      |
| 3         | T150 124x205 | 1320       | 9.1                                                                                | T1       | -45,644      | 1,903        | 0           | 0,33                                      | 2                           | 2                        | 3.76 | 10850 | 442956 | 59892     | 671265728  | 0.79       | 9.1        | 124          | 52,86      | 1,903      | 90  | 59,12 | 18,25 | 0.90 |
|           |              |            | 9.1                                                                                | T2       | 45,644       | -1,903       | 0           | -0,12                                     | 2                           | 2                        | 3.76 | 10850 | 442956 | 59892     | 671300416  | 0.78       | 9.1        | 124          | 52,86      | 1,903      | 90  | 59,12 | 18,25 | 0.90 |
|           |              |            |   |          |              |              |             |                                           |                             |                          |      |       |        |           |            |            |            |              |            |            |     |       |       |      |
|           |              |            | Typ styčníku CS-t                                                                  |          |              |              |             |                                           |                             |                          |      |       |        |           |            |            |            |              |            |            |     |       |       |      |
| 4         | T150 145x146 | 1515       | 9.1                                                                                | T2       | 9,574        | 5,512        | 0           | -0,03                                     | 30                          | 30                       | 2.95 | 9125  | 381651 | 50370     | 105870400  | 0.29       | 77.1       | 146          | 10,21      | -4,291     | 0   | 24,06 | 24,76 | 0.54 |
|           |              |            | 9.1                                                                                | W1       | 12,086       | -0,006       | 0           | -0,01                                     | 0                           | 90                       | 2.48 | 3623  | 83557  | 19996     | 12123113   | 0.93       | 9.1        | 73           | 0,008      | 12,42      | 0   | 12,03 | 17,05 | 0.44 |
|           |              |            | 73.1                                                                               | W3       | 15,367       | 0,044        | 0           | -0,01                                     | 0                           | 35                       | 3.32 | 3695  | 85946  | 20395     | 12566473   | 0.91       | 77.1       | 73           | 11,31      | 6,987      | 90  | 34,56 | 10,67 | 0.51 |
|           |              |            |  |          |              |              |             |                                           |                             |                          |      |       |        |           |            |            |            |              |            |            |     |       |       |      |
|           |              |            | Typ styčníku CMWW-t                                                                |          |              |              |             |                                           |                             |                          |      |       |        |           |            |            |            |              |            |            |     |       |       |      |

| Trny                                                                               |              |            |              |          |              |              |             |                                           |                             |                          |       |       | Ocel                       |           |            |            |            |              |            |            |       |       |       |      |
|------------------------------------------------------------------------------------|--------------|------------|--------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|-------|-------|----------------------------|-----------|------------|------------|------------|--------------|------------|------------|-------|-------|-------|------|
| Zat. stav                                                                          | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_{a,\alpha,\beta}$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip  |       | CSI                        | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI   |       |       |      |
|                                                                                    |              |            |              |          |              |              |             |                                           |                             |                          | Kx    | Krot  |                            |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |       |       |       |      |
| 5                                                                                  | T150 73x146  | 715        | 9.1          | T2       | -0,006       | -4,720       | -90         | 0,01                                      | 90                          | 0                        | 2.50  | 4599  | 119847                     | 25386     | 19670292   | 0.29       | -          | 0            | 0,000      | 3,008      | 2     | 0,000 | 0,000 | 0.22 |
|                                                                                    | -            | W1         | 0,000        | 3,008    | -90          | 0,00         | 90          | 90                                        | 2.29                        | 3654                     | 84624 | 20170 | 12325601                   | 0.27      | -          | 0          | 0,000      | 3,008        | 2          | 0,000      | 0,000 | 0.22  |       |      |
|   |              |            |              |          |              |              |             |                                           |                             |                          |       |       | Vyžadována kontrola návrhu |           |            |            |            |              |            |            |       |       |       |      |
| Typ styčnicku TMW+w                                                                |              |            |              |          |              |              |             |                                           |                             |                          |       |       |                            |           |            |            |            |              |            |            |       |       |       |      |
| 6                                                                                  | T150 124x205 | 1320       | 9.1          | T2       | -55,087      | -1,775       | 0           | -0,12                                     | 2                           | 2                        | 3.78  | 10850 | 442956                     | 59892     | 671272128  | 0.93       | 9.1        | 124          | 58,16      | 1,775      | 90    | 59,12 | 18,25 | 0.99 |
|                                                                                    |              |            | 9.1          | T3       | 55,087       | -1,775       | 0           | 0,12                                      | 2                           | 2                        | 3.78  | 10850 | 442956                     | 59892     | 671290944  | 0.93       | 9.1        | 124          | 58,16      | 1,775      | 90    | 59,12 | 18,25 | 0.99 |
|  |              |            |              |          |              |              |             |                                           |                             |                          |       |       | kontrola návrhu            |           |            |            |            |              |            |            |       |       |       |      |
| Typ styčnicku CS-t                                                                 |              |            |              |          |              |              |             |                                           |                             |                          |       |       |                            |           |            |            |            |              |            |            |       |       |       |      |

|                 |              |            | Trny         |          |              |              |             |                                           |                             |                          |       |       |          | Ocel      |            |            |            |              |            |            |       |       |       |      |
|-----------------|--------------|------------|--------------|----------|--------------|--------------|-------------|-------------------------------------------|-----------------------------|--------------------------|-------|-------|----------|-----------|------------|------------|------------|--------------|------------|------------|-------|-------|-------|------|
| Zat. stav       | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | $\alpha$ (°) | $\beta$ (°) | $F_{a,\alpha,\beta}$ (N/mm <sup>2</sup> ) | $A_{ef}$ (mm <sup>2</sup> ) | $W_p$ (mm <sup>3</sup> ) | Slip  |       | CSI      | Zat. stav | Délka (mm) | Síla (kN)  |            | $\gamma$ (°) | Síla (kN)  |            | CSI   |       |       |      |
|                 |              |            |              |          |              |              |             |                                           |                             |                          | Kx    | Krot  |          |           |            | $F_{x,ed}$ | $F_{y,ed}$ |              | $F_{x,rk}$ | $F_{y,rk}$ |       |       |       |      |
| 7               | T150 124x205 | 1320       | 9.1          | T3       | 0,067        | 5,133        | 0           | 0,00                                      | 89                          | 89                       | 2.29  | 10660 | 580340   | 58843     | 219333120  | 0.15       | 5.1        | 205          | 5,040      | 4,461      | 0     | 33,78 | 47,88 | 0.18 |
|                 | -            | W1         | 0,000        | 3,008    | 0            | 0,00         | 90          | 0                                         | 2.50                        | 3290                     | 74500 | 18161 | 10758761 | 0.31      | 1.1        | 80         | 0,007      | 3,295        | 0          | 13,18      | 18,68 | 0.09  |       |      |
|                 | 65.1         | W2         | 7,277        | -0,048   | 0            | -0,02        | 0           | 35                                        | 3.31                        | 2528                     | 48659 | 13957 | 5886386  | 0.54      | 65.1       | 63         | 6,013      | -2,504       | 0          | 10,30      | 10,60 | 0.27  |       |      |
|                 | 65.1         | W2         | -7,277       | -0,048   | 0            | 0,02         | 0           | 35                                        | 3.31                        | 2528                     | 48657 | 13956 | 5885982  | 0.54      | 65.1       | 61         | -1,341     | 1,690        | 90         | 20,62      | 8,949 | 0.27  |       |      |
| vyžadována      |              |            |              |          |              |              |             |                                           |                             |                          |       |       |          |           |            |            |            |              |            |            |       |       |       |      |
| kontrola návrhu |              |            |              |          |              |              |             |                                           |                             |                          |       |       |          |           |            |            |            |              |            |            |       |       |       |      |
|                 |              |            |              |          |              |              |             |                                           |                             |                          |       |       |          |           |            |            |            |              |            |            |       |       |       |      |
| 8               | T150 73x146  | 715        | 9.1          | T3       | -0,006       | 4,720        | -90         | -0,01                                     | 90                          | 0                        | 2.50  | 4599  | 119847   | 25386     | 19670294   | 0.29       | -          | 0            | 0,000      | 3,008      | 2     | 0,000 | 0,000 | 0.22 |
|                 | -            | W1         | 0,000        | 3,008    | -90          | 0,00         | 90          | 90                                        | 2.29                        | 3654                     | 84624 | 20170 | 12325603 | 0.27      | -          | 0          | 0,000      | 3,008        | 2          | 0,000      | 0,000 | 0.22  |       |      |
|                 |              |            |              |          |              |              |             |                                           |                             |                          |       |       |          |           |            |            |            |              |            |            |       |       |       |      |
|                 |              |            |              |          |              |              |             |                                           |                             |                          |       |       |          |           |            |            |            |              |            |            |       |       |       |      |

|                                                                                   |              |            | Trny         |          |              |        |       |                             |                        |                       |      |      |        |           | Ocel       |           |       |       |           |        |     |       |       |      |
|-----------------------------------------------------------------------------------|--------------|------------|--------------|----------|--------------|--------|-------|-----------------------------|------------------------|-----------------------|------|------|--------|-----------|------------|-----------|-------|-------|-----------|--------|-----|-------|-------|------|
| Zat. stav                                                                         | Prvek        | Osová (kN) | Posuvná (kN) | Úhel (°) | Moment (kNm) | α (°)  | β (°) | Fa,α,β (N/mm <sup>2</sup> ) | Aef (mm <sup>2</sup> ) | Wp (mm <sup>3</sup> ) | Slip |      | CSI    | Zat. stav | Délka (mm) | Síla (kN) |       | γ (°) | Síla (kN) |        | CSI |       |       |      |
|                                                                                   |              |            |              |          |              |        |       |                             |                        |                       | Kx   | Krot |        |           |            | Fx,ed     | Fy,ed |       | Fx,rk     | Fy,rk  |     |       |       |      |
| 9                                                                                 | T150 145x146 | 1515       | 9.1          | T3       | -9,574       | 5,512  | 0     | 0,03                        | 30                     | 30                    | 2.95 | 9125 | 381651 | 50370     | 105870400  | 0.29      | 77.1  | 146   | 12,66     | -2,953 | 0   | 24,06 | 24,76 | 0.54 |
|  |              |            | 9.1          | W1       | -12,086      | -0,006 | 0     | 0,01                        | 0                      | 90                    | 2.48 | 3623 | 83557  | 19996     | 12123116   | 0.93      | 9.1   | 73    | 0,006     | 12,37  | 0   | 12,03 | 17,05 | 0.44 |
|                                                                                   |              |            | 73.1         | W3       | -15,367      | 0,044  | 0     | 0,01                        | 0                      | 35                    | 3.32 | 3695 | 85949  | 20396     | 12566928   | 0.91      | 77.1  | 73    | 12,66     | 9,251  | 0   | 12,03 | 17,05 | 0.51 |
| Typ styčnicku CMWW-t                                                              |              |            |              |          |              |        |       |                             |                        |                       |      |      |        |           |            |           |       |       |           |        |     |       |       |      |

Vyžadována

kontrola návrhu

#### Poznámky k návrhu

1. Návrh odpovídá vloženým hodnotám. Rozměry, sklon a další vstupní parametry jsou zkontrolovány.
2. Bylo použito řešení modelu v rovině.
3. System factor  $K_{sys} = 1.1$  has been used.
4. Váha vazníku = 374 kg
5. Connector Plate location tolerance of 5 mm has been used.
6. Tlačené pásy musí být stabilizovány latěmi nebo ztužením v rozteči menší než je vzpěrná délka z roviny, což je uvedeno ve výsledcích posouzení prvků.
7. Na podkrovních vaznících musí být dolní pás stabilizován bloky řeziva na koncích místnosti. Pokud je tato místnost širší než 2,5m musí být tyto bloky i uprostřed místnosti.
8. Podlaha o šířce větší než 4,5 m by měla mít 2 řady ztužení.
9. Znaménková konvence: Tlak je záporný, tah je kladný, reakce vzhůru je záporná, reakce dolů a průhyb jsou kladné.
10. Equivalent thickness : ply factor = 1

# Vyžadován a kontrola návrhu

