

Sloup pod průvlakem

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|----------------------|-------------------|---|--|----------|----------------|
| Norm. síla | N d | = | 251,0 | kN | |
| Profil | D 102x8 | = | S 235 | | |
| Plocha | A | = | | 2,36E-03 | m ² |
| Moment setrvačnos | I _y | = | | 2,37E-06 | m ⁴ |
| | I _z | = | | 2,37E-06 | m ⁴ |
| Poloměr setrvačnos | i _y | = | | 3,34E-02 | m |
| | i _z | = | | 3,34E-02 | m |
| Materiál | f _y | = | 235,0 | MPa | |
| Součinitelé | γ M1 | = | 1,00 | | |
| | β A | = | 1,00 | | |
| Vzpěrná délka | L _{cr,y} | = | 0,75 | m | |
| | L _{cr,z} | = | 0,75 | m | |
| Štíhlost | λ _{1,y} | = | 93,9*SQRT(235/f _y) | = | 93,9 |
| | λ _y | = | L _{cr,y} /i _y | = | 22,5 |
| | λ _{PR,y} | = | lambda _y /lambda _{1,y} *sqrt(beta A) | = | 0,239 |
| | α _y | = | 0,21 | křivka a | |
| | Φ _y | = | 0,5*(1+alfa _y *(lambda _{PR,y} -0,2))+lambda _{PR,y} *lambda _{PR,y} | = | 0,533 |
| | X _y | = | 1/(fi _y +SQRT(fi _y *fi _y -lambda _{PR,y} *lambda _{PR,y})) | = | 0,991 |
| Únosnost | N b,Rd,y | = | chi _y *beta A*A*f _y /gamma M1 | = | 549,8 kN |
| | | | | = | mi y |
| Posouzení | | | | N b,Rd,y | > N d |

Sloup pod markýzou

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|----------------------|-------------------|---|--|----------------|--------------------|
| Norm. síla | N d | = | 71,0 | kN | |
| Profil | D 102x8 | | S 235 | | |
| Plocha | A | = | 2,36E-03 | m ² | |
| Moment setrvačnos | I _y | = | 2,37E-06 | m ⁴ | |
| | I _z | = | 2,37E-06 | m ⁴ | |
| Poloměr setrvačnos | i _y | = | 3,34E-02 | m | |
| | i _z | = | 3,34E-02 | m | |
| Materiál | f _y | = | 235,0 | MPa | |
| Součinitelé | γ M1 | = | 1,00 | | |
| | β A | = | 1,00 | | |
| Vzpěrná délka | L _{cr,y} | = | 3,55 | m | (bez vlivu příčlí) |
| | L _{cr,z} | = | 3,55 | m | |
| Štíhlost | λ _{1,z} | = | 93,9*SQRT(235/f _y) | = | 93,9 |
| | λ _z | = | L _{cr,z} /i _z | = | 106,3 |
| | λ _{PR,z} | = | lambda _z /lambda _{1,z} *sqrt(beta A) | = | 1,132 |
| | α _z | = | 0,21 | | křivka a |
| | Φ _z | = | 0,5*(1+alfa _z *(lambda _{PR,z} -0,2))+lambda _{PR,z} *lambda _{PR,z} | = | 1,238 |
| | X _z | = | 1/(fi _z +SQRT(fi _z *fi _z -lambda _{PR,z} *lambda _{PR,z})) | = | 0,574 |
| Únosnost | N b,Rd,y | = | chi _y *beta A*A*f _y /gamma M1 | = | 318,5 kN |
| | | | | = | mi y |
| | | | | = | 0,22 |
| Posouzení | | | | | N b,Rd,y |
| | | | | | N d |
| | | | | | VYHOVÍ |