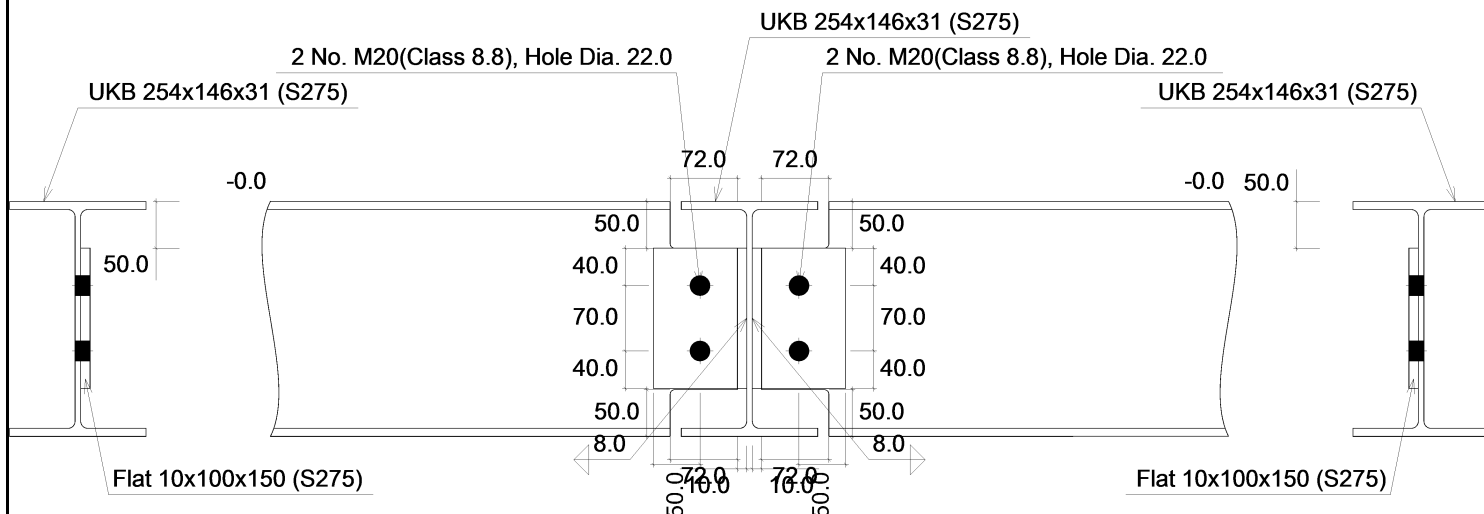


Beam-Beam Simple Connection 1



Design Code: EC3

Design Summary

Item	Status	Combin.	Value
Supported beam B	Warning	1	0.792
Supported beam D	Warning	1	0.792
Capacity of supporting beam	Pass	1	0.175

Basic Details

No.	Combination Name	Shear Force Beam B	Shear Force Beam D	Tie Force Beam B	Tie Force Beam D
1	1	25.0	25.0	25.0	25.0

Item	Size	Grade
Supporting Beam	UKB 254x146x31	S275
Supported Beam B	UKB 254x146x31	S275
Fin Plate B	Flat 10x100	S275
Beam Layout B		
Supported Beam D	UKB 254x146x31	S275
Fin Plate D	Flat 10x100	S275
Beam Layout D		

Design Combination: 1

Supporting Beam

Item	Value	Status
CHECK 10 - Supporting beam - Local resistance	0.175	Pass

Supported Beam B

Item	Value	Status
CHECK 1 - Recommended detailing practice		Warning
CHECK 2 - Supported beam B - Bolt group - Bolts in shear	0.232	Pass
CHECK 2 continued - Supported beam B - Bolt group - Fin plate in bearing	0.191	Pass
CHECK 2 continued - Supported beam B - Bolt group - Beam web in bearing	0.366	Pass
CHECK 3 - Supported beam B - Connecting elements	0.134	Pass
CHECK 4 - Supported beam B - Resistance at connection - Shear	0.245	Pass
CHECK 5 - Supported beam B - Resistance at notch	0.193	Pass
CHECK 6 - Supported beam B - Local stability		Pass
CHECK 8 - Supporting beam - beam B - Welds		Pass
CHECK 11 - Structural integrity - beam B - Connecting elements	0.117	Pass
CHECK 12 - Structural integrity - Supported beam B	0.184	Pass
CHECK 13 - Structural integrity - Welds B		Pass

Supported Beam D

Item	Value	Status
CHECK 1 - Recommended detailing practice		Warning
CHECK 2 - Supported beam D - Bolt group - Bolts in shear	0.232	Pass

Item	Value	Status
CHECK 2 continued - Supported beam D - Bolt group - Fin plate in bearing	0.191	Pass
CHECK 2 continued - Supported beam D - Bolt group - Beam web in bearing	0.366	Pass
CHECK 3 - Supported beam D - Connecting elements	0.134	Pass
CHECK 4 - Supported beam D - Resistance at connection - Shear	0.245	Pass
CHECK 5 - Supported beam D - Resistance at notch	0.193	Pass
CHECK 6 - Supported beam D - Local stability		Pass
CHECK 8 - Supporting beam - beam D - Welds		Pass
CHECK 11 - Structural integrity - beam D - Connecting elements	0.117	Pass
CHECK 12 - Structural integrity - Supported beam D	0.184	Pass
CHECK 13 - Structural integrity - Welds D		Pass

Library: SimpleConnections.dll, version: 15.0.2.1