

Project:

Model: 01-SS2_Sv.Tomaz_ostresje - zahodni del

Date: 3. 04. 2024

2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.000	CO3	0.00 ≤ 1	400)	Buckling about y-axis
	0.887	CO4	0.48 ≤ 1	401)	Serviceability - Negligible deformations
	0.887	CO6	0.52 ≤ 1	402)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
153	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.887	CO1	0.24 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.36 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.887	CO1	0.27 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.06 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.40 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.40 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.43 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
154	Cross-section No. 1 - T-Rectangle 100/120				
	1.183	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.071	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.183	CO2	0.35 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	2.071	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.34 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.183	CO2	0.39 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	2.071	CO2	0.05 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.38 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.40 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.43 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
155	Cross-section No. 1 - T-Rectangle 100/120				
	2.795	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.01 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.795	CO2	0.37 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.118	CO2	0.42 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	2.795	CO2	0.78 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	0.839	CO2	0.41 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	0.839	CO2	0.41 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
156	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.00 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	2.071	CO2	0.00 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2

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Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.000	CO2	0.01 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.32 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.479	CO2	0.12 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	2.071	CO2	0.01 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	0.000	CO2	0.77 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.78 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.296	CO4	0.10 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.296	CO6	0.11 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
157	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.00 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.22 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.887	CO2	0.40 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	1.479	CO2	0.33 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	0.296	CO2	0.20 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	0.296	CO2	0.21 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.48 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.51 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
158	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.00 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.887	CO2	0.37 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	1.183	CO2	0.36 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	0.000	CO2	0.00 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.46 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
159	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.00 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.887	CO2	0.35 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	1.183	CO2	0.37 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	0.296	CO2	0.12 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.296	CO2	0.13 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.45 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
160	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.04 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.795	CO2	0.36 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.795	CO2	0.75 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.08 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	2.795	CO2	0.80 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.118	CO4	0.53 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.118	CO6	0.57 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.677	CO4	0.00 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.677	CO6	0.00 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction

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Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
161	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.31 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.592	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.02 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.78 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.82 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.296	CO4	0.09 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.296	CO6	0.10 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
162	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.22 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.592	CO2	0.34 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.41 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.592	CO2	0.38 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.05 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.45 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.48 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.52 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
163	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.887	CO1	0.24 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.36 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.887	CO1	0.27 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.06 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.40 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.40 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.43 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
164	Cross-section No. 1 - T-Rectangle 100/120				
	1.183	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.071	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.183	CO2	0.35 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	2.071	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.34 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4

Project:

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	1.183	CO2	0.39 ≤ 1	321)	to 6.2.4 Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	2.071	CO2	0.05 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.38 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.40 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.43 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
165	Cross-section No. 1 - T-Rectangle 100/120				
	2.236	CO1	0.00 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.01 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.795	CO2	0.36 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.118	CO2	0.44 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	1.957	CO1	0.09 ≤ 1	161)	Cross-section resistance - Uniaxial bending about y-axis and tension acc. to 6.2.3
	2.795	CO2	0.74 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.839	CO2	0.42 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	0.839	CO2	0.43 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.118	CO4	0.54 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.118	CO6	0.58 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.957	CO4	0.00 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.957	CO6	0.00 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
166	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.30 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.887	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.77 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.87 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.296	CO4	0.08 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.296	CO6	0.09 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.02 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
167	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.07 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.592	CO2	0.35 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.41 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.592	CO2	0.44 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.11 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.50 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.47 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.51 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.183	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.183	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction

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■ 2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
168	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.07 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.25 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.04 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.33 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.12 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.42 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.35 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.38 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
0.592	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction	
169	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.06 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.25 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.479	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.06 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	2.071	CO2	0.08 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	1.183	CO2	0.33 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	2.071	CO2	0.14 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	1.183	CO2	0.42 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.35 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.37 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.571	CO4	0.02 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
1.571	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction	
170	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.06 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.795	CO2	0.36 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.795	CO2	0.65 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.12 ≤ 1	301)	Compression member with axial compression acc. to 6.3.2 - Buckling about y-axis
	2.795	CO2	0.74 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.118	CO4	0.63 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.118	CO6	0.68 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.118	CO4	0.00 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
1.118	CO6	0.00 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction	
171	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.29 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.887	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.70 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.77 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.479	CO4	0.08 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.479	CO6	0.08 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
0.592	CO4	0.02 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction	
0.592	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction	

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
172	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.04 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.23 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.592	CO2	0.33 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.887	CO2	0.39 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.592	CO2	0.39 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.07 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.887	CO2	0.45 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.02 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
173	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.04 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.071	CO2	0.26 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.183	CO1	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.04 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	2.071	CO2	0.34 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.183	CO1	0.19 ≤ 1	321)	Member with bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.08 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	2.071	CO2	0.38 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.28 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.30 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
174	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.26 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.571	CO2	0.03 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.06 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	2.071	CO2	0.14 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.000	CO2	0.41 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	2.071	CO2	0.17 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO2	0.47 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.28 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.30 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.571	CO4	0.03 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.571	CO6	0.04 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
175	Cross-section No. 1 - T-Rectangle 100/120				
	2.236	CO2	0.00 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.00 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	2.795	CO2	0.18 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.839	CO2	0.23 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	1.118	CO2	0.25 ≤ 1	153)	Cross-section resistance - Biaxial bending acc. to 6.1.6
	2.236	CO2	0.02 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
	2.795	CO2	0.33 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO2	0.01 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.559	CO2	0.19 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.01 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.559	CO2	0.19 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.118	CO4	0.33 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.118	CO6	0.35 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.957	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.957	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.15 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
176	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.479	CO2	0.10 ≤ 1	153)	Cross-section resistance - Biaxial bending acc. to 6.1.6
	0.000	CO2	0.34 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.34 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.479	CO4	0.05 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.479	CO6	0.05 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.01 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.01 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 1 - T-Rectangle 100/120				
	0.000	CO2	0.00 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.11 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.071	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
177	2.071	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.183	CO1	0.15 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	0.887	CO2	0.21 ≤ 1	153)	Cross-section resistance - Biaxial bending acc. to 6.1.6
	0.000	CO2	0.02 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.592	CO2	0.18 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.02 ≤ 1	326)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about y-axis
	0.592	CO2	0.18 ≤ 1	331)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about y-axis
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.25 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.27 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.592	CO4	0.00 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.592	CO6	0.00 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.14 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
178	0.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.296	CO2	0.07 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	0.887	CO2	0.12 ≤ 1	153)	Cross-section resistance - Biaxial bending acc. to 6.1.6
	2.071	CO2	0.23 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.887	CO4	0.12 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.887	CO6	0.12 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.183	CO4	0.02 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.183	CO6	0.02 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	Cross-section No. 1 - T-Rectangle 100/120				
	2.071	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
179	Cross-section No. 1 - T-Rectangle 100/120				

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2.4 DESIGN BY MEMBER

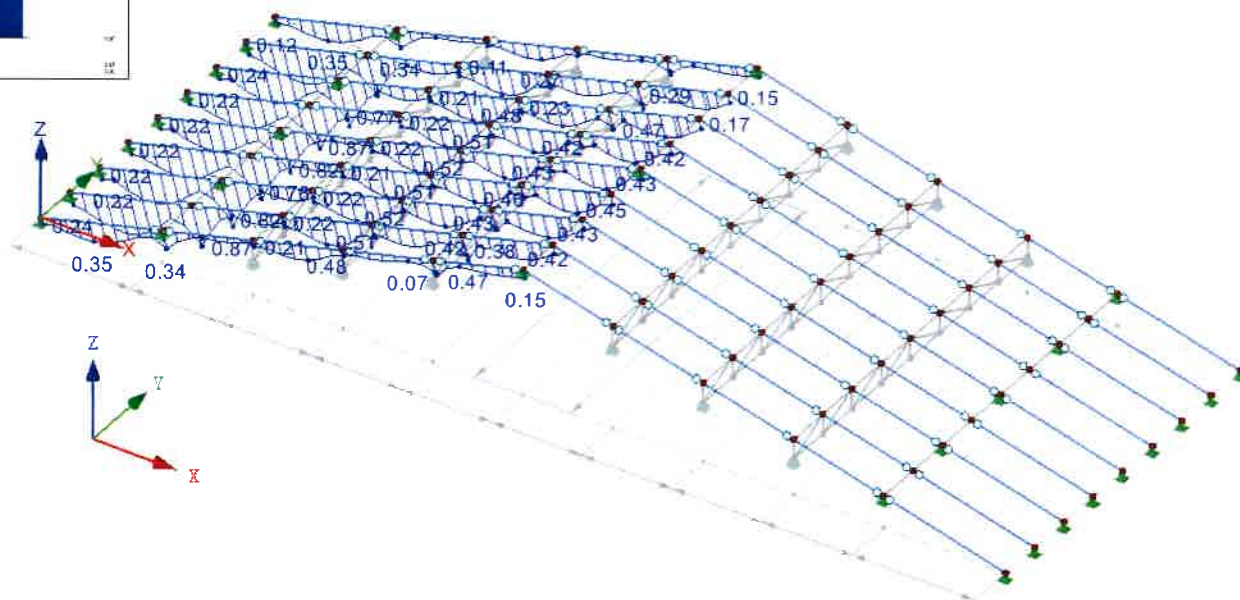
Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.000	CO2	0.14 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	2.071	CO2	0.03 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	2.071	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.887	CO1	0.06 ≤ 1	151)	Cross-section resistance - Uniaxial bending acc. to 6.1.6
	0.000	CO2	0.29 ≤ 1	153)	Cross-section resistance - Biaxial bending acc. to 6.1.6
	2.071	CO2	0.15 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
	1.479	CO2	0.17 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.183	CO4	0.11 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.183	CO6	0.12 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.479	CO4	0.05 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.479	CO6	0.05 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction

DESIGN: ULTIMATE LIMIT STATE - CROSS-SECTION DESIGN

RF-TIMBER Pro CA2

Ultimate Limit State - Cross-Section Design

Isometric



Max Design Ratio: 0.87

RF-TIMBER Pro

CA3

vzdolzne lege

1.1.1 GENERAL DATA

Members to design:	67,68,70,71,73,74,76,77,79,80,92-97
Design according to Standard:	SIST EN 1995-1-1/A101:2006-03
Ultimate Limit State Design	
Result combinations to design:	RC1 ULS (STR/GEO) - Permanent / transient - Eq. 6.10

1.2 MATERIALS

Matl. No.	Description	Factor Category	Comment
1	Poplar and Softwood Timber C24 SIST EN 338-16	Solid Timber	



NORMAPRO d.o.o.

Ob Dravi 3b, 2250 Ptuj

info@normapro.eu

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RF-TIMBER Pro

Project:

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Date: 3. 04. 2024

T-Rectangle 100/100



1.3.1 CROSS-SECTIONS

Sect. No.	Matl. No.	Cross-section Description [mm]	Max Design Ratio	Comment
3	1	T-Rectangle 100/100	0.98	vzdolzni nosilec - pasovi

1.4 LOAD DURATION AND SERVICE CLASS

LC/CO/RC	LC, CO or RC Description	Load Case Type	Classification of Load Duration
LC1	Self-weight	Permanent	Permanent
LC2	FV paneli	Permanent	Permanent
LC3	Snow	Snow ($H \leq 1000$ m a.s.l.)	Short-term
CO1	1.35G1 + 1.35G2	-	Permanent
CO2	1.35G1 + 1.35G2 + 1.5Qs	-	Short-term

Service Class SECL

Service Class 2:

Identical for All Members/Sets of Members

1.5 EFFECTIVE LENGTHS - MEMBERS

Member No.	Buckling Possible	Buckling About Axis y		Buckling About Axis z		Possible	Lateral-Torsional Buckling	
		Possible	$k_{cr,y}$ $L_{cr,y}$ [m]	Possible	$k_{cr,z}$ $L_{cr,z}$ [m]		Define L_{cr} / M_{cr}	L_{cr} [m] / M_{cr} [kNm]
67	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
68	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
70	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
71	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
73	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
74	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
76	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
77	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
79	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
80	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
92	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
93	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
94	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
95	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
96	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000
97	☒	☒	1.000 1.000	☒	1.000 1.000	☒	As member length	1.000

1.9 SERVICEABILITY

No.	Reference to	Members/Sets No.	Reference Length		Direct.	Precamber		Beam Type
			Manually	L [m]		$w_{c,y}$ [mm]	$w_{c,z}$ [mm]	
1	Member	286	☐	6.300	y; z	0.0	0.0	Beam
2	Member	289	☐	6.300	y; z	0.0	0.0	Beam
3	Member	292	☐	6.300	y; z	0.0	0.0	Beam
4	Member	295	☐	6.300	y; z	0.0	0.0	Beam
5	Member	298	☐	6.300	y; z	0.0	0.0	Beam
6	Member	301	☐	6.300	y; z	0.0	0.0	Beam
7	Member	304	☐	6.300	y; z	0.0	0.0	Beam
8	Member	307	☐	6.300	y; z	0.0	0.0	Beam
9	Member	310	☐	6.300	y; z	0.0	0.0	Beam
10	Member	313	☐	6.300	y; z	0.0	0.0	Beam
11	Member	316	☐	6.300	y; z	0.0	0.0	Beam
12	Member	319	☐	6.300	y; z	0.0	0.0	Beam
13	Member	322	☐	6.300	y; z	0.0	0.0	Beam
14	Member	325	☐	6.300	y; z	0.0	0.0	Beam
15	Member	328	☐	6.300	y; z	0.0	0.0	Beam
16	Member	331	☐	6.300	y; z	0.0	0.0	Beam
17	Member	334	☐	6.300	y; z	0.0	0.0	Beam
18	Member	337	☐	6.300	y; z	0.0	0.0	Beam
19	Member	340	☐	6.300	y; z	0.0	0.0	Beam
20	Member	343	☐	6.300	y; z	0.0	0.0	Beam
21	Member	346	☐	6.300	y; z	0.0	0.0	Beam
22	Member	349	☐	6.300	y; z	0.0	0.0	Beam
23	Member	352	☐	6.300	y; z	0.0	0.0	Beam
24	Member	355	☐	6.300	y; z	0.0	0.0	Beam
25	Member	358	☐	6.300	y; z	0.0	0.0	Beam
26	Member	361	☐	6.300	y; z	0.0	0.0	Beam
27	Member	364	☐	6.300	y; z	0.0	0.0	Beam
28	Member	367	☐	6.300	y; z	0.0	0.0	Beam
29	Member	370	☐	6.300	y; z	0.0	0.0	Beam
30	Member	373	☐	6.300	y; z	0.0	0.0	Beam
31	Member	376	☐	6.300	y; z	0.0	0.0	Beam
32	Member	411	☐	4.200	y; z	0.0	0.0	Beam
33	Member	412	☐	4.200	y; z	0.0	0.0	Beam
34	Member	413	☐	4.200	y; z	0.0	0.0	Beam
35	Member	414	☐	4.200	y; z	0.0	0.0	Beam
36	Member	415	☐	4.200	y; z	0.0	0.0	Beam
37	Member	416	☐	4.200	y; z	0.0	0.0	Beam
38	Member	417	☐	4.200	y; z	0.0	0.0	Beam
39	Member	418	☐	4.200	y; z	0.0	0.0	Beam
40	Member	419	☐	4.200	y; z	0.0	0.0	Beam
41	Member	420	☐	4.200	y; z	0.0	0.0	Beam
42	Member	421	☐	4.200	y; z	0.0	0.0	Beam
43	Member	422	☐	4.200	y; z	0.0	0.0	Beam
44	Member	423	☐	4.200	y; z	0.0	0.0	Beam
45	Member	424	☐	4.200	y; z	0.0	0.0	Beam
46	Member	425	☐	4.200	y; z	0.0	0.0	Beam
47	Member	426	☐	4.200	y; z	0.0	0.0	Beam

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1.9 SERVICEABILITY

No.	Reference to	Members/Sets No.	Reference Length			Precamber		Beam Type
			Manually	L [m]	Direct.	w _{c,y} [mm]	w _{c,z} [mm]	
48	Member	427	☐	4.200	y; z	0.0	0.0	Beam
49	Member	428	☐	4.200	y; z	0.0	0.0	Beam
50	Member	429	☐	4.200	y; z	0.0	0.0	Beam
51	Member	430	☐	4.200	y; z	0.0	0.0	Beam
52	Member	431	☐	4.200	y; z	0.0	0.0	Beam
53	Member	432	☐	4.200	y; z	0.0	0.0	Beam
54	Member	433	☐	4.200	y; z	0.0	0.0	Beam
55	Member	434	☐	4.200	y; z	0.0	0.0	Beam
56	Member	435	☐	4.200	y; z	0.0	0.0	Beam
57	Member	436	☐	4.200	y; z	0.0	0.0	Beam
58	Member	437	☐	4.200	y; z	0.0	0.0	Beam
59	Member	438	☐	4.200	y; z	0.0	0.0	Beam
60	Member	439	☐	4.200	y; z	0.0	0.0	Beam
61	Member	441	☐	4.200	y; z	0.0	0.0	Beam
62	Member	442	☐	4.200	y; z	0.0	0.0	Beam

2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
67	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.250	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.11 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.12 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
68	0.000	CO2	0.02 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.29 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.500	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.05 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.35 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO2	0.38 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
70	0.000	CO2	0.58 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.33 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO1	0.53 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.05 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO1	0.30 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	1.000	CO2	0.74 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
71	0.000	CO1	0.59 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.98 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.85 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.46 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	1.000	CO2	0.16 ≤ 1	311)	Flexural member without compression force acc. to 6.3.3 - Bending about y-axis
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
73	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.500	CO2	0.48 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.500	CO2	0.77 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	0.500	CO2	0.67 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
74	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO1	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.31 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	1.000	CO2	0.09 ≤ 1	311)	Flexural member without compression force acc. to 6.3.3 - Bending about y-axis
76	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO1	0.53 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.05 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO1	0.30 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.000	CO2	0.74 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO1	0.59 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.98 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
77	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.46 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO2	0.16 ≤ 1	311)	Flexural member without compression force acc. to 6.3.3 - Bending about y-axis
79	Cross-section No. 3 - T-Rectangle 100/100				
	0.750	CO1	0.25 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.750	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.750	CO1	0.10 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	1.000	CO2	0.22 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.750	CO1	0.31 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.48 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
80	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.01 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	1.000	CO2	0.13 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.04 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.16 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
92	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.500	CO2	0.48 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.500	CO2	0.77 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
93	Cross-section No. 3 - T-Rectangle 100/100				
	0.250	CO1	0.25 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7

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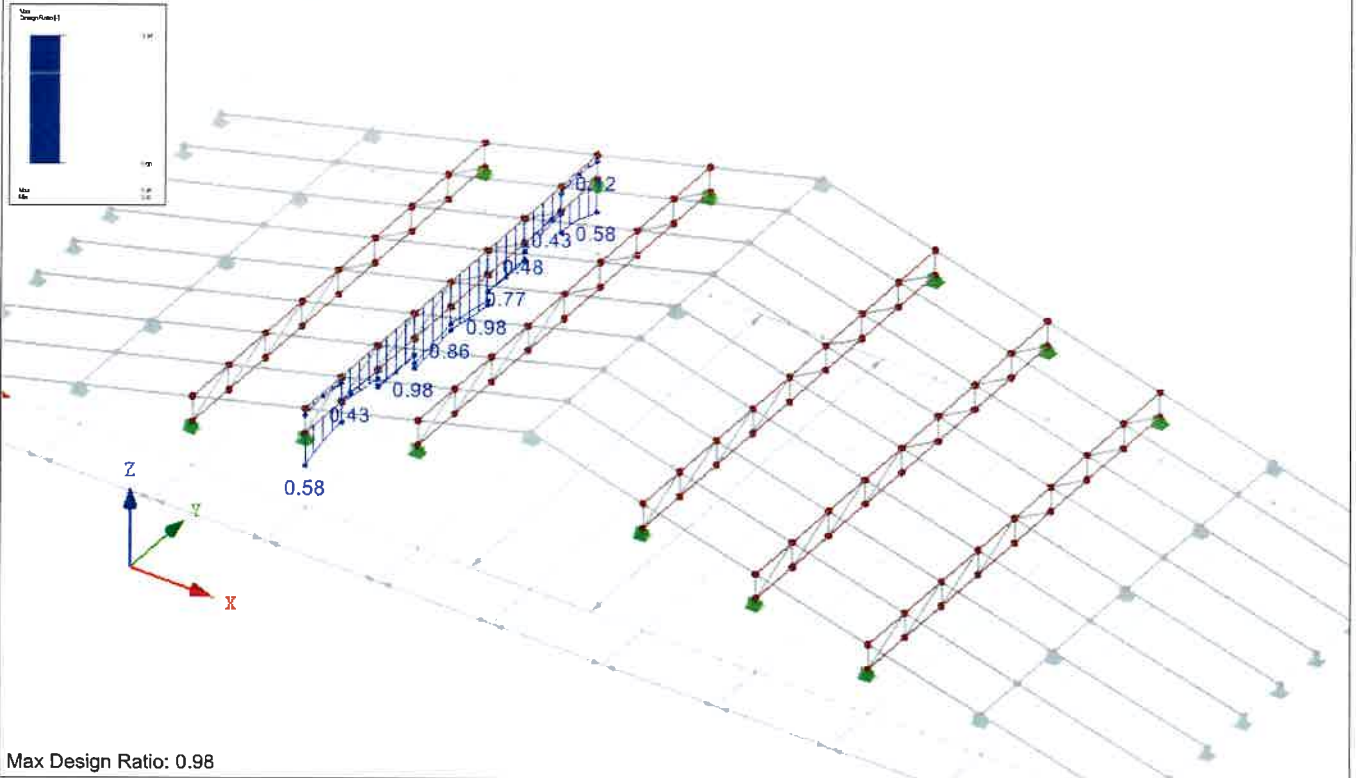
2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.250	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.250	CO1	0.10 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.22 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.250	CO1	0.31 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.48 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.39 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
94	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.750	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.11 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO2	0.12 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.02 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
95	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO1	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.31 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO2	0.09 ≤ 1	311)	Flexural member without compression force acc. to 6.3.3 - Bending about y-axis
96	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.01 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.13 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO2	0.04 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.16 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	0.000	CO2	0.04 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
97	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.29 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.500	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.05 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	1.000	CO2	0.35 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.38 ≤ 1	323)	Member with bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.58 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
	1.000	CO2	0.33 ≤ 1	341)	Flexural member with compression force acc. to 6.3.3 - Bending about y-axis

DESIGN: ULTIMATE LIMIT STATE - CROSS-SECTION DESIGN

RF-TIMBER Pro CA3
Ultimate Limit State - Cross-Section Design

Isometric



RF-TIMBER Pro
CA4
vzdolzne lege 2

1.1.1 GENERAL DATA

Members to design:	67,68,70,71,73,74,76,77,79,80,92-97
Sets of members to design:	1,2
Design according to Standard:	SIST EN 1995-1-1/A101:2006-03
Ultimate Limit State Design Result combinations to design:	RC1 ULS (STR/GEO) - Permanent / transient - Eq. 6.10
Serviceability Limit State Design Result combinations to design:	RC2 SLS - Characteristic / Rare RC3 SLS - Quasi-permanent

1.2 MATERIALS

Matl. No.	Description	Factor Category	Comment
1	Poplar and Softwood Timber C24 SIST EN 338-16	Solid Timber	

1.3.1 CROSS-SECTIONS

Sect. No.	Matl. No.	Cross-section Description [mm]	Max Design Ratio	Comment
3	1	T-Rectangle 100/100	0.74	vzdolzni nosilec - pasovi

1.4 LOAD DURATION AND SERVICE CLASS

LC/CO/RC	LC, CO or RC Description	Load Case Type	Classification of Load Duration
LC1	Self-weight	Permanent	Permanent
LC2	FV paneli	Permanent	Permanent
LC3	Snow	Snow (H ≤ 1000 m a.s.l.)	Short-term
CO1	1.35G1 + 1.35G2	-	Permanent
CO2	1.35G1 + 1.35G2 + 1.5Qs	-	Short-term
CO3	G1 + G2	-	Permanent
CO4	G1 + G2 + Qs	-	Short-term
CO5	1.6G1 + 1.6G2	-	Permanent
CO6	1.6G1 + 1.6G2 + Qs	-	Short-term

Service Class SECL

Project: Model: 01-SS2_Sv.Tomaz_ostresje - zahodni del

Date: 3. 04. 2024

1.4 LOAD DURATION AND SERVICE CLASS

LC/CO/ RC	LC, CO or RC Description	Load Case Type	Classification of Load Duration
Service Class 2: Identical for All Members/Sets of Members			

1.6 EFFECTIVE LENGTHS - SETS OF MEMBERS

Set No.	Buckling Possible	Buckling About Axis y Possible	$k_{cr,y}$	$L_{cr,y}$ [m]	Buckling About Axis z Possible	$k_{cr,z}$	$L_{cr,z}$ [m]	Lateral-Torsional Buckling Possible	Define L_{cr} / M_{cr}	L_{cr} [m] / M_{cr} [kNm]
1	☒	☐	1.000	8.000	☐	1.000	8.000	☐	As member length	8.000
2	☒	☐	1.000	8.000	☐	1.000	8.000	☐	As member length	8.000

1.9 SERVICEABILITY

No.	Reference to	Members/Sets No.	Reference Length Manually	L [m]	Direct.	Precamber $w_{c,y}$ [mm]	$w_{c,z}$ [mm]	Beam Type
1	Set of Members	1	☐	8.000	y; z	0.0	0.0	Beam
2	Set of Members	2	☐	8.000	y; z	0.0	0.0	Beam

2.3 DESIGN BY SET OF MEMBERS

Set No.	Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
1	Continuous Members 1 (Member No. 68,71,74,77,80,95-97)					
	68	1.000	CO2	0.29 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	68	0.500	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	68	1.000	CO2	0.05 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	97	0.000	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	71	1.000	CO2	0.46 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	68	1.000	CO2	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	68	0.000	CO2	0.35 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	68	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	71	0.000	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	71	0.000	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	71	0.000	CO4	0.18 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	71	0.000	CO6	0.19 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
2	Continuous Members 2 (Member No. 67,70,73,76,79,92-94)					
	70	0.000	CO1	0.53 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	70	0.000	CO2	0.05 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	67	0.250	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	67	0.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	79	0.750	CO1	0.10 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	70	0.000	CO1	0.30 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	70	1.000	CO2	0.74 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	67	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	70	0.250	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	70	0.250	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	70	0.000	CO4	0.12 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	70	0.000	CO6	0.13 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction

2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
67	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.250	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.11 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.000	CO4	0.16 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner s

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
68	1.000	CO6	0.18 ≤ 1	402)	span, z-direction Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.03 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.04 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.29 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.500	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.05 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.35 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
70	0.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	1.000	CO4	0.17 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.18 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.05 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.06 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO1	0.53 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.05 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
71	0.000	CO1	0.30 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	1.000	CO2	0.74 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.250	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.250	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.12 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.13 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.46 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
73	0.000	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.18 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.19 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.500	CO2	0.48 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.45 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
74	1.000	CO4	0.10 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.11 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO1	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.31 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	1.000	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.45 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
76	1.000	CO4	0.17 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.18 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO1	0.53 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.05 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO1	0.30 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.000	CO2	0.74 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.750	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.750	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.12 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.13 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.46 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
77	1.000	CO4	0.44 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.48 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.18 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.19 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.750	CO1	0.25 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.750	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.750	CO1	0.10 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
79	1.000	CO2	0.22 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO4	0.32 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.35 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.08 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.08 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
80	0.000	CO2	0.01 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	1.000	CO2	0.13 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO4	0.32 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	1.000	CO6	0.35 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	1.000	CO4	0.12 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	1.000	CO6	0.14 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
92	0.500	CO2	0.48 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.45 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
	0.000	CO4	0.10 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.11 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
93	Cross-section No. 3 - T-Rectangle 100/100				
	0.250	CO1	0.25 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.250	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.250	CO1	0.10 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.22 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO4	0.32 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.35 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.08 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.08 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
94	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.750	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.11 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.000	CO4	0.16 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.18 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.03 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.04 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
95	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO1	0.01 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.00 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.31 ≤ 1	163)	Cross-section resistance - Biaxial bending and tension acc. to 6.2.3
	0.000	CO4	0.42 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.45 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.17 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.18 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
96	Cross-section No. 3 - T-Rectangle 100/100				
	1.000	CO2	0.03 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.000	CO2	0.02 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.000	CO2	0.01 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	0.000	CO2	0.13 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO4	0.32 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.35 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.12 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.14 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction
97	Cross-section No. 3 - T-Rectangle 100/100				
	0.000	CO2	0.29 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.500	CO2	0.04 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.05 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.05 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.15 ≤ 1	171)	Cross-section resistance - Uniaxial bending about y-axis and compression acc. to 6.2.4
	1.000	CO2	0.35 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
	1.000	CO3	0.00 ≤ 1	400)	Serviceability - Negligible deformations
	0.000	CO4	0.17 ≤ 1	401)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, z-direction
	0.000	CO6	0.18 ≤ 1	402)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, z-direction
	0.000	CO4	0.05 ≤ 1	406)	Serviceability - Design situation Characteristic acc. to 7.2 - Inner span, y-direction
	0.000	CO6	0.06 ≤ 1	407)	Serviceability - Design situation Quasi-permanent acc. to 7.2 - Inner span, y-direction

RF-TIMBER Pro

CA5

vzdolzne lege - diagonale

1.1.1 GENERAL DATA

Members to design:	69,72,75,78,81-91,98,99
Design according to Standard:	SIST EN 1995-1-1/A101:2006-03
Ultimate Limit State Design	RC1
Result combinations to design:	ULS (STR/GEO) - Permanent / transient - Eq. 6.10

1.2 MATERIALS

Matl. No.	Description	Factor Category	Comment
1	Poplar and Softwood Timber C24 SIST EN 338-16	Solid Timber	

1.3.1 CROSS-SECTIONS

Sect. No.	Matl. No.	Cross-section Description [mm]	Max Design Ratio	Comment
4	1	T-Rectangle 100/100	0.63	vzdolzni nosilec - diagonale

1.4 LOAD DURATION AND SERVICE CLASS

LC/CO/ RC	LC, CO or RC Description	Load Case Type	Classification of Load Duration
LC1	Self-weight	Permanent	Permanent
LC2	FV paneli	Permanent	Permanent
LC3	Snow	Snow (H ≤ 1000 m a.s.l.)	Short-term
CO1	1.35G1 + 1.35G2	-	Permanent
CO2	1.35G1 + 1.35G2 + 1.5Qs	-	Short-term

Service Class SECL

Service Class 1:

Identical for All Members/Sets of Members

1.5 EFFECTIVE LENGTHS - MEMBERS

Member No.	Buckling Possible	Buckling About Axis y Possible	$k_{\alpha,y}$	$L_{cr,y}$ [m]	Buckling About Axis z Possible	$k_{\alpha,z}$	$L_{cr,z}$ [m]	Lateral-Torsional Buckling Possible	Define L_{cr} / M_{cr}	L_{cr} [m] / M_{cr} [kNm]
69	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
72	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
75	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
78	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
81	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
82	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
83	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
84	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
85	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
86	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
87	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
88	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
89	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
90	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
91	☑	☑	1.000	1.097	☑	1.000	1.097	☑	As member length	1.097
98	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450
99	☑	☑	1.000	0.450	☑	1.000	0.450	☑	As member length	0.450

2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/ RC	Design	Design No.	Description
69	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.01 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
72	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.10 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.450	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force V_y acc. to 6.1.7
	0.450	CO2	0.02 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.450	CO2	0.12 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
75	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.04 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.06 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.10 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
78	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.16 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.450	CO2	0.08 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.450	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.450	CO2	0.24 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
81	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.37 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.548	CO2	0.09 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.097	CO2	0.09 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.097	CO2	0.36 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.822	CO2	0.26 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.097	CO2	0.63 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.822	CO2	0.53 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
82	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.28 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.03 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.097	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.097	CO2	0.21 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.822	CO2	0.18 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.097	CO2	0.44 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.822	CO2	0.42 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
83	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.17 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO1	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.097	CO2	0.09 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.822	CO2	0.08 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.097	CO2	0.25 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.822	CO2	0.24 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
84	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.07 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.000	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	1.097	CO2	0.04 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.822	CO2	0.04 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	1.097	CO2	0.11 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.822	CO2	0.11 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
85	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.10 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2

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2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.450	CO2	0.02 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.450	CO2	0.02 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.450	CO2	0.12 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
86	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.04 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.000	CO2	0.06 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.10 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
87	Cross-section No. 4 - T-Rectangle 100/100				
	0.450	CO2	0.16 ≤ 1	101)	Cross-section resistance - Tension along the grain acc. to 6.1.2
	0.450	CO2	0.08 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.450	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.450	CO2	0.24 ≤ 1	162)	Cross-section resistance - Uniaxial bending about z-axis and tension acc. to 6.2.3
88	Cross-section No. 4 - T-Rectangle 100/100				
	1.097	CO2	0.37 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.097	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	0.548	CO2	0.09 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.09 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.36 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.274	CO2	0.26 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.63 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.274	CO2	0.53 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
89	Cross-section No. 4 - T-Rectangle 100/100				
	1.097	CO2	0.28 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.097	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.097	CO2	0.03 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.03 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.21 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.274	CO2	0.18 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.44 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.274	CO2	0.42 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
90	Cross-section No. 4 - T-Rectangle 100/100				
	1.097	CO2	0.17 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.097	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.097	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.097	CO1	0.00 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.09 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.274	CO2	0.08 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.25 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.274	CO2	0.24 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - Buckling about both axes
91	Cross-section No. 4 - T-Rectangle 100/100				
	1.097	CO2	0.07 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	1.097	CO1	0.00 ≤ 1	111)	Cross-section resistance - Shear due to shear force Vz acc. to 6.1.7
	1.097	CO2	0.01 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	1.097	CO2	0.01 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.04 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.274	CO2	0.04 ≤ 1	173)	Cross-section resistance - Biaxial bending and compression acc. to 6.2.4
	0.000	CO2	0.11 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
	0.274	CO2	0.11 ≤ 1	333)	Member with biaxial bending and compression acc. to 6.3.2 - B

Project:

Model: 01-SS2_Sv.Tomaz_ostresje - zahodni del

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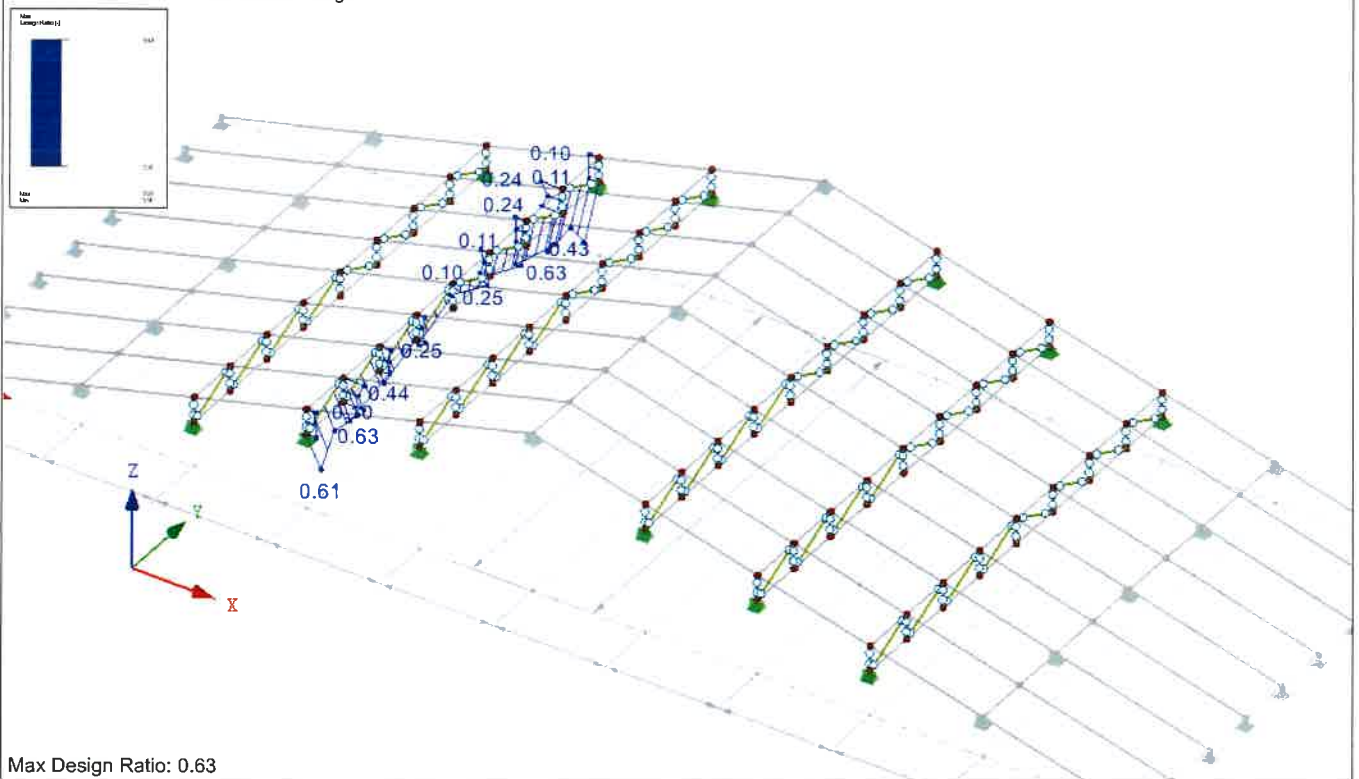
2.4 DESIGN BY MEMBER

Member No.	Location x [m]	LC/CO/RC	Design	Design No.	Description
	0.822	CO2	0.08 ≤ 1	341)	Buckling about both axes Flexural member with compression force acc. to 6.3.3 - Bending about y-axis
98	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.02 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.225	CO2	0.10 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.11 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.000	CO2	0.11 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes
99	Cross-section No. 4 - T-Rectangle 100/100				
	0.000	CO2	0.02 ≤ 1	102)	Cross-section resistance - Compression along the grain acc. to 6.1.4
	0.225	CO2	0.10 ≤ 1	112)	Cross-section resistance - Shear due to shear force Vy acc. to 6.1.7
	0.000	CO2	0.04 ≤ 1	121)	Cross-section resistance - Shear due to torsion acc. to 6.1.8
	0.000	CO2	0.11 ≤ 1	172)	Cross-section resistance - Uniaxial bending about z-axis and compression acc. to 6.2.4
	0.000	CO2	0.11 ≤ 1	328)	Member with bending about z-axis and compression acc. to 6.3.2 - Buckling about both axes

DESIGN: ULTIMATE LIMIT STATE - CROSS-SECTION DESIGN

RF-TIMBER Pro CA5
Ultimate Limit State - Cross-Section Design

Isometric



Project:

Model: 01-SS1_Sv.Tomaz_ostresje - osrednji del

Date: 3. 04. 2024

STRUCTURAL ANALYSIS

PROJECT

STATICNA PRESOJA ZA MONTAZO FV PANELOV

OOSNOVNA SOLA SV.TOMAZ

OSTRESJE - OSREDNJI DEL

CLIENT

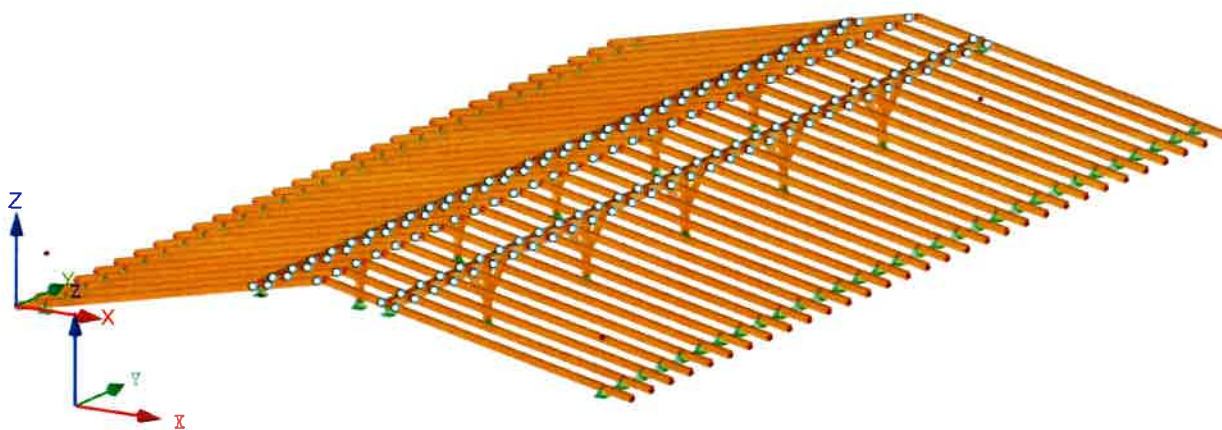
Obcina Sv.Tomaz

Sveti Tomaz 37, 2258 Sveti Tomaz

CREATED BY

NORMAPRO d.o.o.
www.normapro.eu

Isometric



Project:

Model: 01-SS1_Sv.Tomaz_ostresje - osrednji del

Date: 3. 04. 2024

- TLORIS 1

