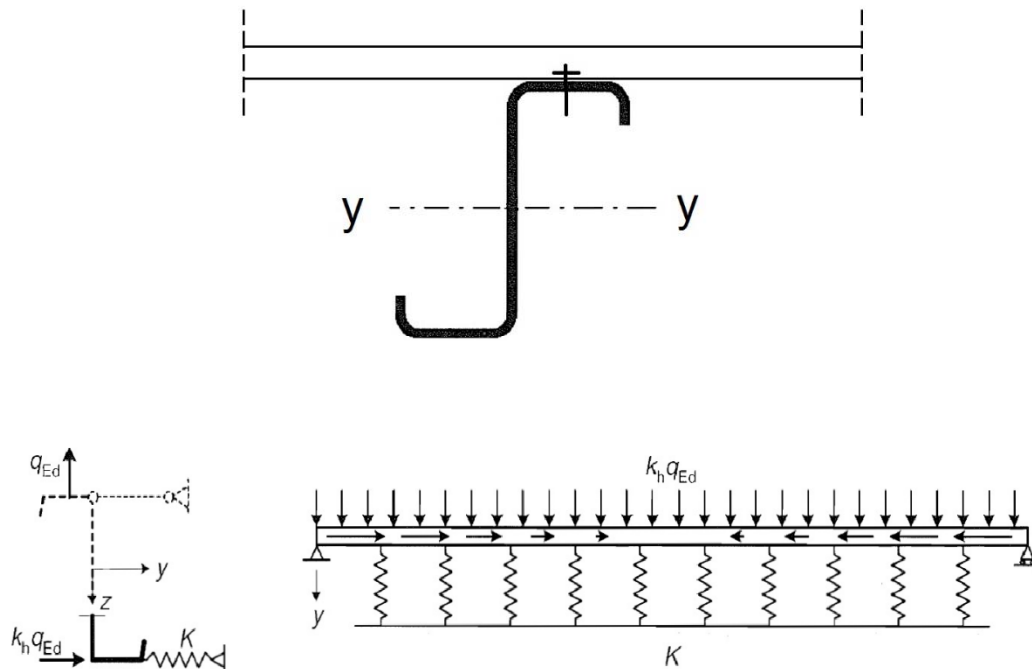
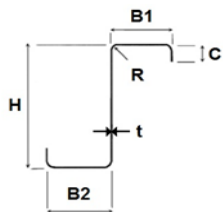


Static designing tables for Swedsteel Z- and C-sections according to Eurocode standards

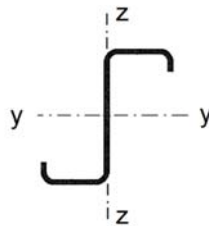


Cross-section properties
Cross-section resistances
Load tables

Profile properties for static calculation



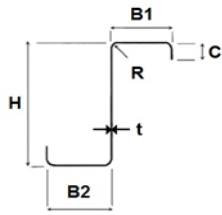
Standard: Eurocode
 EN1993-1-3:2007
 EN1993-1-5:2012
 Profile type: "Z"
 R(mm)= 4



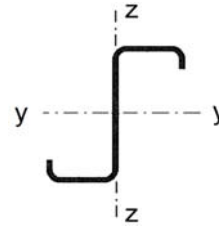
Initial Data		Z100					Z120				
Profile Height	H	mm	100	100	100	100	120	120	120	120	120
Flange width (1)	B1	mm	42	42	42	42	42	42	42	42	42
Flange width (2)	B2	mm	48	48	48	48	48	48	48	48	48
Flange stiffener (lip) size	C	mm	14,4	16,4	17,0	18,4	14,4	16,4	17,0	18,4	19,8
Nominal thickness	tnom	mm	1,0	1,2	1,5	2,0	1,0	1,2	1,5	2,0	2,5
Design thickness	td	mm	0,96	1,16	1,46	1,96	0,96	1,16	1,46	1,96	2,46
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	359,1	360,8	363,6	368,2	358,3	359,9	362,4	366,6	370,8
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties		Z100					Z120				
Gross section area	Ag	cm2	1,99	2,45	3,08	4,15	2,19	2,68	3,37	4,54	5,72
Gross moment of inertia (y)	Iyg	cm4	31,09	37,82	47,20	62,64	47,69	58,11	72,65	96,70	120,28
Gross moment of inertia (z)	Izg	cm4	9,90	12,63	15,86	21,47	9,97	12,71	15,96	21,61	27,31
Gross section modulus (y)	Wyg	cm3	6,28	7,66	9,58	12,78	8,01	9,78	12,26	16,39	20,47
Gross section modulus (z)	Wzg	cm3	2,25	2,88	3,65	4,99	2,27	2,90	3,67	5,03	6,43
Effective section area (ULS)	Aeff	cm2	1,14	1,65	2,37	3,63	1,14	1,64	2,38	3,68	5,06
Effective moment of inertia (y,ULS)	Iy,eff	cm4	27,61	36,34	47,11	62,64	40,90	54,88	71,96	96,70	120,28
Effective section modulus (y,ULS)	Wy,eff,min	cm3	5,15	7,16	9,55	12,78	6,17	8,88	12,07	16,39	20,47
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	30,92	37,82	47,20	62,64	47,44	58,11	72,65	96,70	120,28
Cross-section Resistances		Z100					Z120				
Tension resistance	Nt,Rd	kN	60,26	73,93	93,05	125,38	66,07	80,96	101,89	137,25	172,84
Compression resistance	Nc,Rd	kN	40,01	57,58	82,92	127,12	39,84	57,42	83,18	128,63	177,09
Moment resistance (y)	My,Rd	kNm	1,80	2,51	3,34	4,71	2,16	3,11	4,22	6,01	7,59
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	10,50	16,00	25,35	38,99	8,74	15,44	25,35	45,69	58,68
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	10,96	16,00	25,35	38,99	10,96	16,00	25,35	45,69	58,68

Initial Data		Szelvény					Z150					Z180ECO				
Profile Height	H	mm	150	150	150	150	150	150	150	150	150	180	180	180	180	
Flange width (1)	B1	mm	42	42	42	42	42	42	42	42	42	52	52	52	52	
Flange width (2)	B2	mm	48	48	48	48	48	48	48	48	48	58	58	58	58	
Flange stiffener (lip) size	C	mm	14,4	16,4	17,0	18,4	19,8	14,4	16,4	17,0	18,4	19,8	16,4	17,0	18,4	
Nominal thickness	tnom	mm	1,0	1,2	1,5	2,0	2,5	1,2	1,5	2,0	2,5	1,2	1,5	2,0	2,5	
Design thickness	td	mm	0,96	1,16	1,46	1,96	2,46	1,16	1,46	1,96	2,46	1,16	1,46	1,96	2,46	
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350	350	350	350	350	350	
Yield strength (average)	fya	MPa	357,3	358,7	361,0	364,7	368,4	357,3	359,2	362,3	365,4	357,3	359,2	362,3	365,4	
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420	420	420	420	420	420	
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	
Geometry properties		Szelvény					Z150					Z180ECO				
Gross section area	Ag	cm2	2,47	3,03	3,81	5,13	6,46	2,47	3,03	3,81	5,13	6,46	3,61	4,54	6,11	7,69
Gross moment of inertia (y)	Iyg	cm4	80,94	98,80	123,72	165,17	206,07	80,94	98,80	123,72	165,17	206,07	171,40	214,88	287,36	359,17
Gross moment of inertia (z)	Izg	cm4	10,04	12,81	16,08	21,77	27,52	10,04	12,81	16,08	21,77	27,52	21,64	27,21	36,88	46,70
Gross section modulus (y)	Wyg	cm3	10,87	13,28	16,66	22,32	27,94	10,87	13,28	16,66	22,32	27,94	19,17	24,08	32,29	40,47
Gross section modulus (z)	Wzg	cm3	2,28	2,92	3,70	5,06	6,48	2,28	2,92	3,70	5,06	6,48	4,02	5,09	6,96	8,90
Effective section area (ULS)	Aeff	cm2	1,12	1,63	2,38	3,71	5,20	1,12	1,63	2,38	3,71	5,20	1,61	2,43	3,95	5,59
Effective moment of inertia (y,ULS)	Iy,eff	cm4	66,15	88,96	120,79	165,17	206,07	66,15	88,96	120,79	165,17	206,07	138,69	192,77	281,80	359,17
Effective section modulus (y,ULS)	Wy,eff,min	cm3	7,69	11,03	15,99	22,32	27,94	7,69	11,03	15,99	22,32	27,94	13,37	19,94	31,28	40,47
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	78,05	98,79	123,72	165,17	206,07	78,05	98,79	123,72	165,17	206,07	163,50	214,88	287,36	359,17
Cross-section Resistances		Szelvény					Z150					Z180ECO				
Tension resistance	Nt,Rd	kN	74,79	91,50	115,15	155,06	195,19	74,79	91,50	115,15	155,06	195,19	109,05	137,25	184,72	232,43
Compression resistance	Nc,Rd	kN	39,30	57,04	83,22	129,91	181,92	39,30	57,04	83,22	129,91	181,92	56,32	85,20	138,26	195,75
Moment resistance (y)	My,Rd	kNm	2,69	3,86	5,60	8,14	10,29	2,69	3,86	5,60	8,14	10,29	4,68	6,98	10,95	14,79
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	6,98	12,33	24,63	45,69	71,98	6,98	12,33	24,63	45,69	71,98	10,26	20,49	45,69	71,98
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	10,96	16,00	25,35	45,69	71,98	10,96	16,00	25,35	45,69	71,98	16,00	25,35	45,69	71,98

Profile properties for static calculation



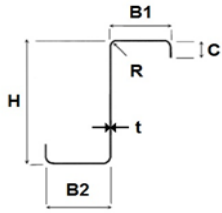
Standard: Eurocode
 EN1993-1-3:2007
 EN1993-1-5:2012
 Profile type: "Z"
 R(mm)= 4



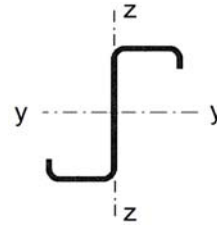
Initial Data		Profile	Z180				Z200ECO			
Profile Height	H	mm	180	180	180	180	200	200	200	200
Flange width (1)	B1	mm	66	66	66	66	42	42	42	42
Flange width (2)	B2	mm	74	74	74	74	48	48	48	48
Flange stiffener (lip) size	C	mm	16,4	17,0	18,4	19,8	16,4	17,0	18,4	19,8
Nominal thickness	tnom	mm	1,2	1,5	2,0	2,5	1,2	1,5	2,0	2,5
Design thickness	td	mm	1,16	1,46	1,96	2,46	1,16	1,46	1,96	2,46
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,7	358,4	361,2	364,1	357,3	359,2	362,3	365,4
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties		Profile	Z180				Z200ECO			
Gross section area	Ag	cm2	3,95	4,98	6,67	8,43	3,61	4,54	6,11	7,69
Gross moment of inertia (y)	Iyg	cm4	198,79	249,24	333,23	416,42	197,84	248,14	332,20	415,67
Gross moment of inertia (z)	Izg	cm4	40,80	51,36	69,66	88,27	12,92	16,23	21,97	27,77
Gross section modulus (y)	Wyg	cm3	22,24	27,93	37,44	46,92	19,90	25,00	33,56	42,09
Gross section modulus (z)	Wzg	cm3	5,93	7,50	10,24	13,08	2,95	3,73	5,11	6,54
Effective section area (ULS)	Aeff	cm2	1,58	2,41	4,15	6,01	1,61	2,37	3,74	5,30
Effective moment of inertia (y,ULS)	Iy,eff	cm4	143,45	205,57	313,39	405,50	165,79	226,41	330,02	415,67
Effective section modulus (y,ULS)	Wy,eff,min	cm3	13,04	20,23	33,88	44,91	14,60	21,16	33,16	42,09
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	170,28	240,75	333,23	416,42	187,47	245,09	332,20	415,67
Cross-section Resistances		Profile	Z180				Z200ECO			
Tension resistance	Nt,Rd	kN	119,58	150,51	202,52	254,76	109,05	137,25	184,72	232,43
Compression resistance	Nc,Rd	kN	55,37	84,36	145,14	210,20	56,29	82,85	130,75	185,44
Moment resistance (y)	My,Rd	kNm	4,56	7,08	11,86	15,72	5,11	7,41	11,61	15,38
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	10,26	20,49	45,69	71,98	9,23	18,43	44,69	71,98
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	16,00	25,35	45,69	71,98	16,00	25,35	45,69	71,98

Initial Data		Profile	Z200				Z220			
Profile Height	H	mm	200	200	200	200	220	220	220	220
Flange width (1)	B1	mm	66	66	66	66	66	66	66	66
Flange width (2)	B2	mm	74	74	74	74	74	74	74	74
Flange stiffener (lip) size	C	mm	20,9	21,5	22,9	24,3	22,5	23,9	25,3	26,5
Nominal thickness	tnom	mm	1,2	1,5	2,0	2,5	1,5	2,0	2,5	3,0
Design thickness	td	mm	1,16	1,46	1,96	2,46	1,46	1,96	2,46	2,96
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,2	357,7	360,4	363,0	357,3	359,8	362,3	364,7
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties		Profile	Z200				Z220			
Gross section area	Ag	cm2	4,29	5,40	7,27	9,14	5,72	7,70	9,68	11,66
Gross moment of inertia (y)	Iyg	cm4	261,14	327,47	437,84	547,20	412,21	551,46	689,62	825,80
Gross moment of inertia (z)	Izg	cm4	45,69	57,47	77,75	98,27	58,92	79,67	100,65	121,33
Gross section modulus (y)	Wyg	cm3	26,27	32,99	44,23	55,41	37,73	50,59	63,41	76,11
Gross section modulus (z)	Wzg	cm3	6,64	8,39	11,43	14,56	8,60	11,72	14,91	18,11
Effective section area (ULS)	Aeff	cm2	1,69	2,62	4,43	6,36	2,65	4,48	6,44	8,51
Effective moment of inertia (y,ULS)	Iy,eff	cm4	191,63	272,58	415,45	539,97	337,79	514,98	680,43	825,80
Effective section modulus (y,ULS)	Wy,eff,min	cm3	15,75	24,14	40,49	54,21	26,86	44,90	62,04	76,11
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	230,94	321,79	437,84	547,20	399,01	551,46	689,62	825,80
Cross-section Resistances		Profile	Z200				Z220			
Tension resistance	Nt,Rd	kN	129,76	163,32	219,72	276,35	173,04	232,76	292,73	352,57
Compression resistance	Nc,Rd	kN	58,99	91,87	155,05	222,76	92,88	156,78	225,46	297,69
Moment resistance (y)	My,Rd	kNm	5,51	8,45	14,17	18,97	9,40	15,72	21,71	27,76
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	9,23	18,43	44,69	71,98	16,74	40,59	71,98	104,21
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	16,00	25,35	45,69	71,98	25,35	45,69	71,98	104,21

Profile properties for static calculation



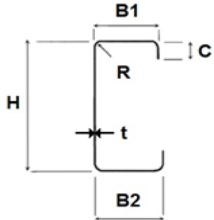
Standard: Eurocode
 EN1993-1-3:2007
 EN1993-1-5:2012
 Profile type: "Z"
 R(mm)= 4



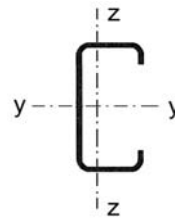
Initial Data	Profile		Z250				Z300			
	Property	Unit	250	250	250	250	300	300	300	300
Profile Height	H	mm	250	250	250	250	300	300	300	300
Flange width (1)	B1	mm	66	66	66	66	86	86	86	86
Flange width (2)	B2	mm	74	74	74	74	94	94	94	94
Flange stiffener (lip) size	C	mm	24,0	25,4	26,8	28,0	25,9	27,3	28,5	32,5
Nominal thickness	tnom	mm	1,5	2,0	2,5	3,0	2,0	2,5	3,0	4,0
Design thickness	td	mm	1,46	1,96	2,46	2,96	1,96	2,46	2,96	3,96
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,7	359,0	361,3	363,6	357,4	359,3	361,2	364,9
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties										
Gross section area	Ag	cm ²	6,20	8,34	10,49	12,64	10,13	12,73	15,33	20,67
Gross moment of inertia (y)	Iy _g	cm ⁴	562,89	753,57	943,04	1 130,1	1 343,5	1 682,7	2 018,5	2 701,2
Gross moment of inertia (z)	Iz _g	cm ⁴	61,08	82,53	104,19	125,53	160,21	202,41	244,19	337,32
Gross section modulus (y)	Wyg	cm ³	45,30	60,77	76,21	91,51	90,17	113,12	135,93	182,51
Gross section modulus (z)	Wzg	cm ³	8,92	12,14	15,44	18,74	18,21	23,13	28,07	39,22
Effective section area (ULS)	A _{eff}	cm ²	2,70	4,55	6,55	8,66	4,54	6,86	9,34	14,78
Effective moment of inertia (y,ULS)	I _{y,eff}	cm ⁴	451,02	688,20	926,72	1 130,1	1 093,0	1 517,2	1 947,3	2 697,9
Effective section modulus (y,ULS)	W _{y,eff,min}	cm ³	31,02	51,69	73,98	91,51	63,45	94,49	128,01	182,15
Effective moment of inertia (y,SLS)	I _{y,eff,SLS}	cm ⁴	533,60	753,57	943,04	1 130,1	1 285,8	1 682,7	2 018,5	2 701,2
Cross-section Resistances										
Tension resistance	N _{t,Rd}	kN	187,61	252,33	317,29	382,13	306,29	385,01	463,62	625,02
Compression resistance	N _{c,Rd}	kN	94,34	159,23	229,19	303,08	158,79	240,25	327,06	517,41
Moment resistance (y)	M _{y,Rd}	kNm	10,86	18,09	25,89	33,27	22,21	33,07	44,80	63,75
Shearing resistance (z), unstiff. web	V _{z,Rd,unstif}	kN	14,72	35,68	70,69	104,21	29,70	58,81	102,63	186,51
Shearing resistance (z), stiff. web	V _{z,Rd,stif}	kN	25,35	45,69	71,98	104,21	45,69	71,98	104,21	186,51

Initial Data	Szelvény		Z350			Z400	
	Property	Unit	350	350	350	400	400
Profile Height	H	mm	350	350	350	400	400
Flange width (1)	B1	mm	96	96	96	110	110
Flange width (2)	B2	mm	104	104	104	118	118
Flange stiffener (lip) size	C	mm	26,3	27,5	31,5	26,0	30,0
Nominal thickness	tnom	mm	2,5	3,0	4,0	3,0	4,0
Design thickness	td	mm	2,46	2,96	3,96	2,96	3,96
Yield point (base material)	fyb	MPa	350	350	350	350	350
Yield strength (average)	fya	MPa	358,23	359,9	363,16	358,78	361,67
Ultimate strength	fu	MPa	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3
Geometry properties							
Gross section area	Ag	cm ²	14,41	17,35	23,36	19,57	26,33
Gross moment of inertia (y)	Iy _g	cm ⁴	2567,1	3081,7	4129,4	4539,1	6086,9
Gross moment of inertia (z)	Iz _g	cm ⁴	262,8	317,2	438,3	439,2	606,8
Gross section modulus (y)	Wyg	cm ³	147,7	177,6	238,7	228,7	307,4
Gross section modulus (z)	Wzg	cm ³	26,95	32,70	45,66	39,56	55,16
Effective section area (ULS)	A _{eff}	cm ²	6,72	9,40	15,15	9,17	15,48
Effective moment of inertia (y,ULS)	I _{y,eff}	cm ⁴	2150,2	2803,6	4052,9	3814,0	5796,5
Effective section modulus (y,ULS)	W _{y,eff,min}	cm ³	109,15	150,82	231,63	170,27	283,71
Effective moment of inertia (y,SLS)	I _{y,eff,SLS}	cm ⁴	2 494,5	3 081,7	4 129,4	4 386,4	6 086,9
Cross-section Resistances							
Tension resistance	N _{t,Rd}	kN	435,61	524,50	706,47	591,65	796,31
Compression resistance	N _{c,Rd}	kN	235,34	328,85	530,39	320,96	541,81
Moment resistance (y)	M _{y,Rd}	kNm	38,20	52,79	81,07	59,59	99,30
Shearing resistance (z), unstiff. web	V _{z,Rd,unstif}	kN	50,35	87,84	186,51	76,78	184,30
Shearing resistance (z), stiff. web	V _{z,Rd,stif}	kN	71,98	104,21	186,51	104,21	186,51

Profile properties for static calculation



Standard: Eurocode
 EN1993-1-3:2007
 EN1993-1-5:2012
 Profile type: "C"
 R(mm)= 4



Initial Data		Profile	C100				C120				
Profile Height	H	mm	100	100	100	100	120	120	120	120	120
Flange width (1)	B1	mm	42	42	42	42	42	42	42	42	42
Flange width (2)	B2	mm	48	48	48	48	48	48	48	48	48
Flange stiffener (lip) size	C	mm	14,4	16,4	17,0	18,4	14,4	16,4	17,0	18,4	19,8
Nominal thickness	tnom	mm	1,0	1,2	1,5	2,0	1,0	1,2	1,5	2,0	2,5
Design thickness	td	mm	0,96	1,16	1,46	1,96	0,96	1,16	1,46	1,96	2,46
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	359,1	360,8	363,6	368,2	358,3	359,9	362,4	366,6	370,8
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3

Geometry properties			C100				C120				
Gross section area	Ag	cm2	1,99	2,45	3,08	4,15	2,19	2,68	3,37	4,54	5,72
Gross moment of inertia (y)	Iyg	cm4	31,09	37,82	47,20	62,64	47,69	58,11	72,65	96,70	120,28
Gross moment of inertia (z)	Izg	cm4	5,74	7,21	9,03	12,11	6,14	7,72	9,66	12,98	16,28
Gross section modulus (y)	Wyg	cm3	6,28	7,66	9,58	12,78	8,01	9,78	12,26	16,39	20,47
Gross section modulus (z)	Wzg,min	cm3	1,96	2,52	3,19	4,37	2,01	2,58	3,26	4,48	5,74
Effective section area (ULS)	Aeff	cm2	1,14	1,65	2,37	3,63	1,14	1,64	2,38	3,68	5,06
Effective moment of inertia (y,ULS)	Iy,eff	cm4	27,61	36,34	47,11	62,64	40,90	54,88	71,96	96,70	120,28
Effective section modulus (y,ULS)	Wy,eff,min	cm3	5,15	7,17	9,55	12,78	6,17	8,88	12,07	16,39	20,47
Effective moment of inertia (z,ULS)	Iz,eff	cm4	4,45	5,96	8,20	12,11	4,56	6,12	8,45	12,62	16,28
Effective section modulus (z,ULS)	Wz,eff,min	cm3	1,80	2,37	3,10	4,37	1,82	2,40	3,14	4,44	5,74
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	30,92	37,82	47,20	62,64	47,44	58,11	72,65	96,70	120,28

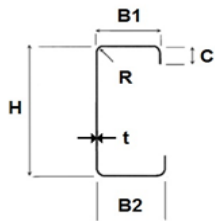
Cross-section Resistances			C100				C120				
Tension resistance	Nt,Rd	kN	60,26	73,93	93,05	125,38	66,07	80,96	101,89	137,25	172,84
Compression resistance	Nc,Rd	kN	40,01	57,58	82,92	127,12	39,84	57,42	83,18	128,63	177,09
Moment resistance (y)	My,Rd	kNm	1,80	2,51	3,34	4,71	2,16	3,11	4,22	6,01	7,59
Moment resistance (z)	Mz,Rd	kNm	0,63	0,83	1,08	1,53	0,64	0,84	1,10	1,55	2,01
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	10,50	16,00	25,35	38,99	8,74	15,44	25,35	45,69	58,68
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	10,96	16,00	25,35	38,99	10,96	16,00	25,35	45,69	58,68

Initial Data		Szelvény	C150					C180ECO			
Profile Height	H	mm	150	150	150	150	150	180	180	180	180
Flange width (1)	B1	mm	42	42	42	42	42	52	52	52	52
Flange width (2)	B2	mm	48	48	48	48	48	58	58	58	58
Flange stiffener (lip) size	C	mm	14,4	16,4	17,0	18,4	19,8	16,4	17,0	18,4	19,8
Nominal thickness	tnom	mm	1,0	1,2	1,5	2,0	2,5	1,2	1,5	2,0	2,5
Design thickness	td	mm	0,96	1,16	1,46	1,96	2,46	1,16	1,46	1,96	2,46
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	357,3	358,7	361,0	364,7	368,4	357,3	359,2	362,3	365,4
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3

Geometry properties			C150					C180ECO			
Gross section area	Ag	cm2	2,47	3,03	3,81	5,13	6,46	3,61	4,54	6,11	7,69
Gross moment of inertia (y)	Iyg	cm4	80,94	98,80	123,7	165,2	206,1	171,40	214,9	287,4	359,2
Gross moment of inertia (z)	Izg	cm4	6,62	8,34	10,45	14,05	17,64	14,28	17,93	24,17	30,43
Gross section modulus (y)	Wyg	cm3	10,87	13,28	16,66	22,32	27,94	19,17	24,08	32,29	40,47
Gross section modulus (z)	Wzg,min	cm3	2,07	2,65	3,34	4,60	5,89	3,63	4,59	6,29	8,05
Effective section area (ULS)	Aeff	cm2	1,12	1,63	2,38	3,71	5,20	1,61	2,43	3,95	5,59
Effective moment of inertia (y,ULS)	Iy,eff	cm4	66,15	88,96	120,8	165,2	206,1	138,69	192,8	281,8	359,2
Effective section modulus (y,ULS)	Wy,eff,min	cm3	7,69	11,03	15,99	22,32	27,94	13,37	19,94	31,28	40,47
Effective moment of inertia (z,ULS)	Iz,eff	cm4	4,69	6,31	8,74	13,12	17,64	10,23	14,21	21,48	29,17
Effective section modulus (z,ULS)	Wz,eff,min	cm3	1,85	2,44	3,19	4,51	5,89	3,26	4,28	6,08	7,96
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm4	78,05	98,79	123,72	165,17	206,07	163,50	214,88	287,36	359,17

Cross-section Resistances			C150					C180ECO			
Tension resistance	Nt,Rd	kN	74,79	91,50	115,15	155,06	195,19	109,05	137,25	184,72	232,43
Compression resistance	Nc,Rd	kN	39,30	57,04	83,22	129,91	181,92	56,32	85,20	138,26	195,75
Moment resistance (y)	My,Rd	kNm	2,69	3,86	5,60	8,14	10,29	4,68	6,98	10,95	14,79
Moment resistance (z)	Mz,Rd	kNm	0,65	0,85	1,12	1,58	2,06	1,14	1,50	2,13	2,79
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	6,98	12,33	24,63	45,69	71,98	10,26	20,49	45,69	71,98
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	10,96	16,00	25,35	45,69	71,98	16,00	25,35	45,69	71,98

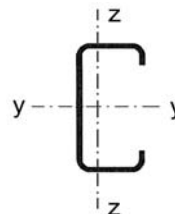
Profile properties for static calculation



Standard: Eurocode
EN1993-1-3:2007
EN1993-1-5:2012

Profile type: "C"

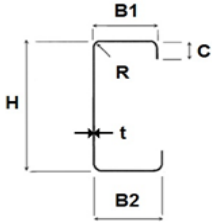
R(mm)= 4



Initial Data			C180				C200ECO			
	Profile									
Profile Height	H	mm	180	180	180	180	200	200	200	200
Flange width (1)	B1	mm	66	66	66	66	42	42	42	42
Flange width (2)	B2	mm	74	74	74	74	48	48	48	48
Flange stiffener (lip) size	C	mm	16,4	17,0	18,4	19,8	16,4	17,0	18,4	19,8
Nominal thickness	tnom	mm	1,2	1,5	2,0	2,5	1,2	1,5	2,0	2,5
Design thickness	td	mm	1,16	1,46	1,96	2,46	1,16	1,46	1,96	2,46
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,7	358,4	361,2	364,1	357,3	359,2	362,3	365,4
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties			C180				C200ECO			
Gross section area	Ag	cm ²	3,95	4,98	6,67	8,43	3,61	4,54	6,11	7,69
Gross moment of inertia (y)	Iy,g	cm ⁴	198,79	249,2	333,2	416,4	197,84	248,1	332,2	415,7
Gross moment of inertia (z)	Iz,g	cm ⁴	25,54	32,10	43,32	54,62	9,12	11,44	15,40	19,36
Gross section modulus (y)	Wyg	cm ³	22,24	27,93	37,44	46,92	19,90	25,00	33,56	42,09
Gross section modulus (z)	Wzg,min	cm ³	5,22	6,60	9,03	11,55	2,73	3,45	4,74	6,07
Effective section area (ULS)	Aeff	cm ²	1,58	2,41	4,15	6,01	1,61	2,37	3,74	5,30
Effective moment of inertia (y,ULS)	Iy,eff	cm ⁴	143,45	205,6	313,4	405,5	165,79	226,4	330,0	415,7
Effective section modulus (y,ULS)	Wy,eff,min	cm ³	13,04	20,23	33,88	44,91	14,60	21,16	33,16	42,09
Effective moment of inertia (z,ULS)	Iz,eff	cm ⁴	17,91	24,81	37,59	51,34	6,57	9,13	13,74	18,54
Effective section modulus (z,ULS)	Wz,eff,min	cm ³	3,95	5,64	8,62	11,33	2,49	3,25	4,60	6,00
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm ⁴	170,28	240,75	333,23	416,42	187,47	245,09	332,20	415,67
Cross-section Resistances			C180				C200ECO			
Tension resistance	Nt,Rd	kN	119,58	150,51	202,52	254,76	109,05	137,25	184,72	232,43
Compression resistance	Nc,Rd	kN	55,37	84,36	145,14	210,20	56,29	82,85	130,75	185,44
Moment resistance (y)	My,Rd	kNm	4,56	7,08	11,86	15,72	5,11	7,41	11,61	15,38
Moment resistance (z)	Mz,Rd	kNm	1,38	1,97	3,02	3,96	0,87	1,14	1,61	2,10
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	10,26	20,49	45,69	71,98	9,23	18,43	44,69	71,98
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	16,00	25,35	45,69	71,98	16,00	25,35	45,69	71,98

Initial Data			C200				C220			
	Profile									
Profile Height	H	mm	200	200	200	200	220	220	220	220
Flange width (1)	B1	mm	66	66	66	66	66	66	66	66
Flange width (2)	B2	mm	74	74	74	74	74	74	74	74
Flange stiffener (lip) size	C	mm	20,9	21,5	22,9	24,3	22,5	23,9	25,3	26,5
Nominal thickness	tnom	mm	1,2	1,5	2,0	2,5	1,5	2,0	2,5	3,0
Design thickness	td	mm	1,16	1,46	1,96	2,46	1,46	1,96	2,46	2,96
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,2	357,7	360,4	363,0	357,3	359,8	362,3	364,7
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties			C200				C220			
Gross section area	Ag	cm ²	4,29	5,40	7,27	9,14	5,72	7,70	9,68	11,66
Gross moment of inertia (y)	Iy,g	cm ⁴	261,1	327,5	437,8	547,2	412,2	551,5	689,6	825,8
Gross moment of inertia (z)	Iz,g	cm ⁴	28,92	36,31	48,89	61,50	38,14	51,35	64,59	77,58
Gross section modulus (y)	Wyg	cm ³	26,27	32,99	44,23	55,41	37,73	50,59	63,41	76,11
Gross section modulus (z)	Wzg,min	cm ³	5,92	7,48	10,21	13,02	7,74	10,56	13,45	16,35
Effective section area (ULS)	Aeff	cm ²	1,69	2,62	4,43	6,36	2,65	4,48	6,44	8,51
Effective moment of inertia (y,ULS)	Iy,eff	cm ⁴	191,6	272,6	415,5	540,0	337,8	515,0	680,4	825,8
Effective section modulus (y,ULS)	Wy,eff,min	cm ³	15,75	24,14	40,49	54,21	26,86	44,90	62,04	76,11
Effective moment of inertia (z,ULS)	Iz,eff	cm ⁴	18,97	26,45	40,38	55,46	27,00	41,35	56,93	73,05
Effective section modulus (z,ULS)	Wz,eff,min	cm ³	4,69	6,75	9,63	12,63	6,93	9,89	12,97	16,08
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm ⁴	230,94	321,79	437,84	547,20	399,01	551,46	689,62	825,80
Cross-section Resistances			C200				C220			
Tension resistance	Nt,Rd	kN	129,8	163,3	219,7	276,4	173,0	232,8	292,7	352,6
Compression resistance	Nc,Rd	kN	59,0	91,9	155,1	222,8	92,9	156,8	225,5	297,7
Moment resistance (y)	My,Rd	kNm	5,51	8,45	14,17	18,97	9,40	15,72	21,71	27,76
Moment resistance (z)	Mz,Rd	kNm	1,64	2,36	3,37	4,42	2,43	3,46	4,54	5,63
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	9,23	18,43	44,69	71,98	16,74	40,59	71,98	104,21
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	16,00	25,35	45,69	71,98	25,35	45,69	71,98	104,21

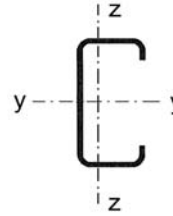
Profile properties for static calculation



Standard: Eurocode
EN1993-1-3:2007
EN1993-1-5:2012

Profile type: "C"

R(mm)= 4



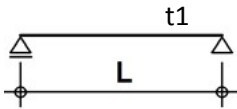
Initial Data			C250				C300			
	Profile		250	250	250	250	300	300	300	300
Profile Height	H	mm	250	250	250	250	300	300	300	300
Flange width (1)	B1	mm	66	66	66	66	86	86	86	86
Flange width (2)	B2	mm	74	74	74	74	94	94	94	94
Flange stiffener (lip) size	C	mm	24,0	25,4	26,8	28,0	25,9	27,3	28,5	32,5
Nominal thickness	tnom	mm	1,5	2,0	2,5	3,0	2,0	2,5	3,0	4,0
Design thickness	td	mm	1,46	1,96	2,46	2,96	1,96	2,46	2,96	3,96
Yield point (base material)	fyb	MPa	350	350	350	350	350	350	350	350
Yield strength (average)	fya	MPa	356,7	359,0	361,3	363,6	357,4	359,3	361,2	364,9
Ultimate strength	fu	MPa	420	420	420	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Geometry properties			C250				C300			
Gross section area	Ag	cm ²	6,20	8,34	10,49	12,64	10,13	12,73	15,33	20,67
Gross moment of inertia (y)	Iy,g	cm ⁴	562,9	753,6	943,0	1 130,1	1 343,5	1 682,7	2 018,5	2 701,2
Gross moment of inertia (z)	Iz,g	cm ⁴	40,79	54,89	69,02	82,89	106,66	134,32	161,62	220,87
Gross section modulus (y)	Wyg	cm ³	45,30	60,77	76,21	91,51	90,17	113,12	135,93	182,51
Gross section modulus (z)	Wzg,min	cm ³	8,12	11,06	14,08	17,10	16,45	20,92	25,40	35,57
Effective section area (ULS)	Aeff	cm ²	2,70	4,55	6,55	8,66	4,54	6,86	9,34	14,78
Effective moment of inertia (y,ULS)	Iy,eff	cm ⁴	451,0	688,2	926,7	1 130,1	1 093,0	1 517,2	1 947,3	2 697,9
Effective section modulus (y,ULS)	Wy,eff,min	cm ³	31,02	51,69	73,98	91,51	63,45	94,49	128,01	182,15
Effective moment of inertia (z,ULS)	Iz,eff	cm ⁴	27,77	42,70	58,97	75,87	77,77	107,81	139,59	209,86
Effective section modulus (z,ULS)	Wz,eff,min	cm ³	7,20	10,28	13,48	16,70	14,85	19,55	24,32	35,07
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm ⁴	533,60	753,57	943,04	1 130,1	1 285,8	1 682,7	2 018,5	2 701,2
Cross-section Resistances			C250				C300			
Tension resistance	Nt,Rd	kN	187,6	252,3	317,3	382,1	306,3	385,0	463,6	625,0
Compression resistance	Nc,Rd	kN	94,3	159,2	229,2	303,1	158,8	240,2	327,1	517,4
Moment resistance (y)	My,Rd	kNm	10,86	18,09	25,89	33,27	22,21	33,07	44,80	63,75
Moment resistance (z)	Mz,Rd	kNm	2,52	3,60	4,72	5,85	5,20	6,84	8,51	12,27
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	14,72	35,68	70,69	104,21	29,70	58,81	102,63	186,51
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	25,35	45,69	71,98	104,21	45,69	71,98	104,21	186,51

Initial Data			C350			C400	
	Profile		350	350	350	400	400
Profile Height	H	mm	350	350	350	400	400
Flange width (1)	B1	mm	96	96	96	110	110
Flange width (2)	B2	mm	104	104	104	118	118
Flange stiffener (lip) size	C	mm	26,3	27,5	31,5	26,0	30,0
Nominal thickness	tnom	mm	2,5	3,0	4,0	3,0	4,0
Design thickness	td	mm	2,46	2,96	3,96	2,96	3,96
Yield point (base material)	fyb	MPa	350	350	350	350	350
Yield strength (average)	fya	MPa	358,23	359,9	363,16	358,78	361,67
Ultimate strength	fu	MPa	420	420	420	420	420
Modulus of elasticity	E	MPa	210 000	210 000	210 000	210 000	210 000
Poisson's ratio	v	MPa	0,3	0,3	0,3	0,3	0,3
Geometry properties			C350			C400	
Gross section area	Ag	cm ²	14,41	17,35	23,36	19,57	26,33
Gross moment of inertia (y)	Iy,g	cm ⁴	2 567	3 082	4 129	4 539	6 087
Gross moment of inertia (z)	Iz,g	cm ⁴	178,9	215,4	294,9	302,3	414,4
Gross section modulus (y)	Wyg	cm ³	147,7	177,6	238,7	228,7	307,4
Gross section modulus (z)	Wzg,min	cm ³	24,43	29,66	41,49	35,82	50,03
Effective section area (ULS)	Aeff	cm ²	6,72	9,40	15,15	9,17	15,48
Effective moment of inertia (y,ULS)	Iy,eff	cm ⁴	2 150	2 804	4 053	3 814	5 797
Effective section modulus (y,ULS)	Wy,eff,min	cm ³	109,1	150,8	231,6	170,3	283,7
Effective moment of inertia (z,ULS)	Iz,eff	cm ⁴	138,7	179,8	271,5	244,3	370,1
Effective section modulus (z,ULS)	Wz,eff,min	cm ³	22,51	28,05	40,52	32,50	48,33
Effective moment of inertia (y,SLS)	Iy,eff,SLS	cm ⁴	2 494,5	3 081,7	4 129,4	4 386,4	6 086,9
Cross-section Resistances			C350			C400	
Tension resistance	Nt,Rd	kN	435,6	524,5	706,5	591,7	796,3
Compression resistance	Nc,Rd	kN	235,3	328,8	530,4	321,0	541,8
Moment resistance (y)	My,Rd	kNm	38,20	52,79	81,07	59,59	99,30
Moment resistance (z)	Mz,Rd	kNm	7,88	9,82	14,18	11,38	16,92
Shearing resistance (z), unstiff. web	Vz,Rd,unstif	kN	50,35	87,84	186,51	76,78	184,30
Shearing resistance (z), stiff. web	Vz,Rd,stif	kN	71,98	104,21	186,51	104,21	186,51

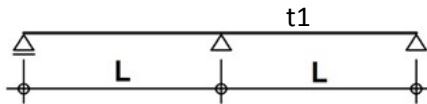
Load tables

Static systems applied in the load tables:

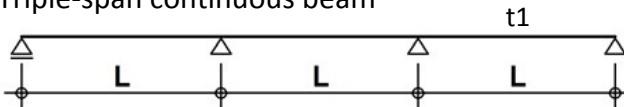
- Single-span beam



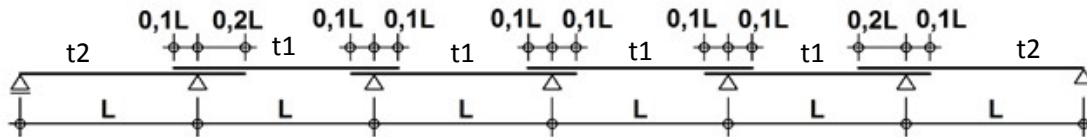
- Double-span continuous beam



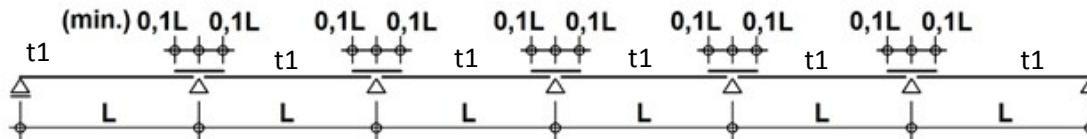
- Triple-span continuous beam



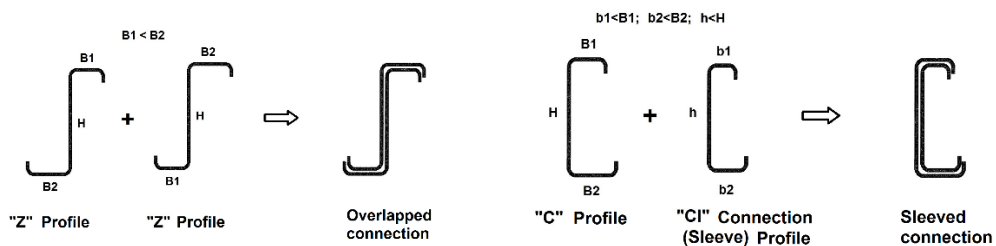
- Continuous multi-span beam with overlapped connections over the supports, also called "overlapped system" (in case of Z-profiles)



- Continuous multi-span beam with internal connection elements at the supports, also called "sleeved system" (in case of C-profiles)



Connection of Z- and C-profiles:



Use of load tables:

- Load values (kN/m) in the tables are concerning to perpendicular to the longitudinal axis of the beams, and valid in the direction of the web. It means that for all load cases the component in this direction should be determined.
- The load combinations should be determined by superposition of the relevant load cases, using partial safety factors for characteristic values in case of ultimate limit state (ULS) and without partial factors, only with their characteristic values in case of serviceability limit state (SLS).
- In case of ULS combination, there are downward and upward limit values, too (ULS,down and ULS,up).
- In SLS the limit value is valid for deflection equal to $L/200$ ("L" is span), considering completely flexible material. It means that for other deflection limit the load value can easily be calculated by linear relation (e.g. limit load for $L/300$ is equal to the value in the table multiplied by $2/3$).

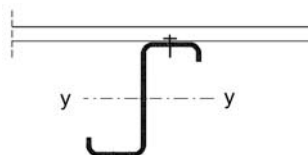
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						2,00	3,00	4,00	5,00	6,00	7,00
Z100	42/48	Single-span	1,0	---	ULS,down	2,786	1,458	0,901	0,577	0,400	
			1,0	---	ULS,up	2,786	1,221	0,666	0,416	0,282	
			1,0	---	SLS (200)	3,115	0,923	0,390	0,199	0,115	
			1,2	---	ULS,down	3,636	1,898	1,199	0,803	0,557	
			1,2	---	ULS,up	3,636	1,701	0,933	0,583	0,396	
			1,2	---	SLS (200)	3,817	1,130	0,477	0,244	0,141	
			1,5	---	ULS,down	4,566	2,392	1,508	1,056	0,743	
			1,5	---	ULS,up	4,566	2,247	1,233	0,770	0,523	
			1,5	---	SLS (200)	4,762	1,410	0,595	0,305	0,176	
			2,0	---	ULS,down	5,780	3,021	1,905	1,333	0,995	
			2,0	---	ULS,up	5,780	2,915	1,600	0,999	0,677	
			2,0	---	SLS (200)	6,329	1,869	0,789	0,404	0,234	
Z100	42/48	Double-span	1,0	---	ULS,down	1,789	0,946	0,613	0,419	0,299	
			1,0	---	ULS,up	2,809	1,468	0,901	0,577	0,400	
			1,0	---	SLS (200)	7,519	2,227	0,939	0,481	0,278	
			1,2	---	ULS,down	2,331	1,271	0,838	0,579	0,415	
			1,2	---	ULS,up	3,663	1,916	1,208	0,803	0,557	
			1,2	---	SLS (200)	9,174	2,725	1,149	0,588	0,340	
			1,5	---	ULS,down	3,012	1,664	1,106	0,767	0,551	
			1,5	---	ULS,up	4,608	2,410	1,520	1,064	0,743	
			1,5	---	SLS (200)	11,494	3,401	1,435	0,734	0,425	
			2,0	---	ULS,down	3,953	2,165	1,445	1,005	0,725	
			2,0	---	ULS,up	5,814	3,040	1,919	1,344	1,003	
			2,0	---	SLS (200)	15,152	4,505	1,901	0,975	0,564	
Z100	42/48	Triple-span	1,0	---	ULS,down	1,969	1,003	0,651			
			1,0	---	ULS,up	3,356	1,757	1,099			
			1,0	---	SLS (200)	5,952	1,767	0,746			
			1,2	---	ULS,down	2,584	1,351	0,895			
			1,2	---	ULS,up	4,386	2,288	1,445			
			1,2	---	SLS (200)	7,299	2,165	0,912			
			1,5	---	ULS,down	3,344	1,770	1,182			
			1,5	---	ULS,up	5,525	2,882	1,818			
			1,5	---	SLS (200)	9,091	2,695	1,139			
			2,0	---	ULS,down	4,386	2,294	1,531			
			2,0	---	ULS,up	6,944	3,636	2,294			
			2,0	---	SLS (200)	12,048	3,584	1,511			
Z100	42/48	Overlapped 6-span system (10+20%)	1,0	1,2	ULS,down	3,717	1,894	1,230	8,630	0,631	0,478
			1,0	1,2	ULS,up	5,495	2,874	1,650	1,027	0,697	0,501
			1,0	1,2	SLS (200)	8,547	2,532	1,068	0,547	0,317	0,199
			1,2	1,5	ULS,down	4,902	2,532	1,675	1,189	0,875	0,665
			1,2	1,5	ULS,up	7,092	3,690	2,237	1,395	0,947	0,681
			1,2	1,5	SLS (200)	10,753	3,185	1,346	0,689	0,399	0,251
			1,5	2,0	ULS,down	6,410	3,333	2,217	1,582	1,168	0,889
			1,5	2,0	ULS,up	8,929	4,651	2,915	1,815	1,229	0,882
			1,5	2,0	SLS (200)	14,085	4,202	1,770	0,907	0,525	0,330
			2,0	2,0	ULS,down	7,143	3,704	2,457	1,748	1,290	0,982
			2,0	2,0	ULS,up	9,091	4,739	2,976	1,852	1,256	0,902
			2,0	2,0	SLS (200)	14,493	4,310	1,818	0,932	0,539	0,340

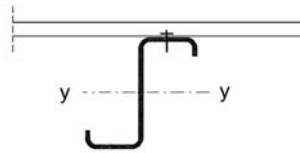
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						2,00	3,00	4,00	5,00	6,00	7,00
Z120	42/48	Single-span	1,0	---	ULS,down	3,226	1,684	1,063	0,691	0,480	
			1,0	---	ULS,up	3,226	1,357	0,734	0,455	0,307	
			1,0	---	SLS (200)	4,785	1,416	0,598	0,306	0,177	
			1,2	---	ULS,down	4,310	2,252	1,422	0,994	0,691	
			1,2	---	ULS,up	4,310	1,984	1,071	0,664	0,449	
			1,2	---	SLS (200)	5,848	1,736	0,732	0,375	0,217	
			1,5	---	ULS,down	5,525	2,882	1,818	1,272	0,939	
			1,5	---	ULS,up	5,525	2,681	1,447	0,898	0,607	
			1,5	---	SLS (200)	7,299	2,169	0,916	0,469	0,271	
			2,0	---	ULS,down	7,042	3,676	2,326	1,626	1,215	0,949
			2,0	---	ULS,up	7,042	3,533	1,905	1,178	0,796	0,570
			2,0	---	SLS (200)	9,709	2,890	1,218	0,624	0,361	0,227
			2,5	---	ULS,down	8,403	4,405	2,778	1,942	1,451	1,134
			2,5	---	ULS,up	8,403	4,237	2,283	1,410	0,951	0,680
			2,5	---	SLS (200)	12,195	3,597	1,515	0,776	0,449	0,283
Z120	42/48	Double-span	1,0	---	ULS,down	2,232	1,100	0,696	0,475	0,339	
			1,0	---	ULS,up	3,247	1,698	1,072	0,691	0,480	
			1,0	---	SLS (200)	11,494	3,413	1,441	0,738	0,427	
			1,2	---	ULS,down	2,967	1,508	0,978	0,678	0,487	
			1,2	---	ULS,up	4,348	2,273	1,435	0,994	0,691	
			1,2	---	SLS (200)	14,085	4,184	1,767	0,904	0,523	
			1,5	---	ULS,down	3,876	2,000	1,312	0,915	0,660	
			1,5	---	ULS,up	5,556	2,907	1,835	1,284	0,939	
			1,5	---	SLS (200)	17,544	5,236	2,208	1,130	0,654	
			2,0	---	ULS,down	5,155	2,639	1,736	1,215	0,878	
			2,0	---	ULS,up	7,092	3,717	2,342	1,639	1,224	
			2,0	---	SLS (200)	23,256	6,944	2,941	1,504	0,870	
			2,5	---	ULS,down	6,329	3,195	2,092	1,471	1,065	
			2,5	---	ULS,up	8,475	4,425	2,801	1,957	1,462	
			2,5	---	SLS (200)	29,412	8,696	3,650	1,869	1,082	
Z120	42/48	Triple-span	1,0	---	ULS,down	2,415	1,133	0,713			
			1,0	---	ULS,up	3,891	2,028	1,236			
			1,0	---	SLS (200)	9,174	2,710	1,144			
			1,2	---	ULS,down	3,247	1,570	1,011			
			1,2	---	ULS,up	5,208	2,717	1,715			
			1,2	---	SLS (200)	11,236	3,322	1,403			
			1,5	---	ULS,down	4,255	2,092	1,361			
			1,5	---	ULS,up	6,623	3,472	2,193			
			1,5	---	SLS (200)	14,085	4,149	1,751			
			2,0	---	ULS,down	5,650	2,747	1,786			
			2,0	---	ULS,up	8,475	4,444	2,801			
			2,0	---	SLS (200)	18,519	5,525	2,331			
			2,5	---	ULS,down	6,897	3,289	2,128			
			2,5	---	ULS,up	10,101	5,291	3,344			
			2,5	---	SLS (200)	23,256	6,897	2,899			
Z120	42/48	Overlapped 6-span system (10+20%)	1,0	1,2	ULS,down	4,630	2,179	1,370	0,954	0,697	0,527
			1,0	1,2	ULS,up	6,536	3,401	1,919	1,183	0,798	0,571
			1,0	1,2	SLS (200)	13,158	3,891	1,639	0,840	0,486	0,306
			1,2	1,5	ULS,down	6,211	2,994	1,916	1,353	0,997	0,758
			1,2	1,5	ULS,up	8,547	4,464	2,688	1,653	1,112	0,797
			1,2	1,5	SLS (200)	16,667	4,902	2,070	1,060	0,613	0,386
			1,5	2,0	ULS,down	8,197	4,000	2,577	1,832	1,355	1,033
			1,5	2,0	ULS,up	10,870	5,682	3,546	2,174	1,460	1,044
			1,5	2,0	SLS (200)	21,739	6,494	2,732	1,399	0,809	0,510
			2,0	2,5	ULS,down	10,417	5,000	3,215	2,288	1,698	1,295
			2,0	2,5	ULS,up	12,987	6,803	4,292	2,632	1,764	1,258
			2,0	2,5	SLS (200)	27,027	8,065	3,413	1,748	1,011	0,637
			2,5	2,5	ULS,down	11,364	5,348	3,425	2,427	1,799	1,374
			2,5	2,5	ULS,up	13,158	6,897	4,367	2,681	1,799	1,284
			2,5	2,5	SLS (200)	27,778	8,264	3,497	1,789	1,035	0,652

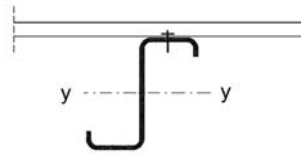
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						2,00	3,00	4,00	5,00	6,00	7,00
Z150	42/48	Single-span	1,0	---	ULS,down	3,846	2,008	1,269	0,861	0,598	
			1,0	---	ULS,up	3,717	1,477	0,794	0,490	0,330	
			1,0	---	SLS (200)	7,874	2,331	0,983	0,504	0,291	
			1,2	---	ULS,down	5,128	2,681	1,692	1,185	0,858	
			1,2	---	ULS,up	5,128	2,174	1,168	0,722	0,486	
			1,2	---	SLS (200)	10,000	2,950	1,245	0,637	0,369	
			1,5	---	ULS,down	6,897	3,610	2,278	1,595	1,190	0,913
			1,5	---	ULS,up	6,897	3,155	1,695	1,046	0,704	0,503
			1,5	---	SLS (200)	12,500	3,690	1,560	0,798	0,462	0,291
			2,0	---	ULS,down	9,009	4,717	2,976	2,083	1,555	1,215
			2,0	---	ULS,up	9,009	4,310	2,294	1,412	0,950	0,678
			2,0	---	SLS (200)	16,667	4,926	2,079	1,066	0,617	0,388
			2,5	---	ULS,down	10,753	5,650	3,559	2,494	1,862	1,453
			2,5	---	ULS,up	10,753	5,236	2,762	1,692	1,134	0,808
			2,5	---	SLS (200)	20,833	6,173	2,597	1,330	0,769	0,484
Z150	42/48	Double-span	1,0	---	ULS,down	2,985	1,353	0,812	0,547	0,387	
			1,0	---	ULS,up	3,876	2,024	1,279	0,861	0,598	
			1,0	---	SLS (200)	18,868	5,618	2,370	1,214	0,703	
			1,2	---	ULS,down	3,984	1,852	1,143	0,782	0,560	
			1,2	---	ULS,up	5,181	2,703	1,706	1,193	0,858	
			1,2	---	SLS (200)	23,810	7,092	3,003	1,536	0,889	
			1,5	---	ULS,down	5,405	2,564	1,613	1,117	0,806	
			1,5	---	ULS,up	6,944	3,636	2,294	1,608	1,200	
			1,5	---	SLS (200)	30,303	8,929	3,759	1,923	1,114	
			2,0	---	ULS,down	7,299	3,460	2,183	1,520	1,099	
			2,0	---	ULS,up	9,091	4,762	2,994	2,096	1,567	
			2,0	---	SLS (200)	40,000	11,905	5,025	2,571	1,486	
			2,5	---	ULS,down	9,009	4,237	2,646	1,838	1,333	
			2,5	---	ULS,up	10,870	5,682	3,584	2,513	1,876	
			2,5	---	SLS (200)	50,000	14,925	6,250	3,205	1,855	
Z150	42/48	Triple-span	1,0	---	ULS,down	3,165	1,312	0,782			
			1,0	---	ULS,up	4,630	2,421	1,379			
			1,0	---	SLS (200)	15,152	4,464	1,883			
			1,2	---	ULS,down	4,274	1,842	1,121			
			1,2	---	ULS,up	6,173	3,236	2,024			
			1,2	---	SLS (200)	19,231	5,650	2,381			
			1,5	---	ULS,down	5,848	2,577	1,595			
			1,5	---	ULS,up	8,333	4,348	2,747			
			1,5	---	SLS (200)	23,810	7,092	2,985			
			2,0	---	ULS,down	7,937	3,460	2,146			
			2,0	---	ULS,up	10,870	5,682	3,584			
			2,0	---	SLS (200)	32,258	9,434	3,984			
			2,5	---	ULS,down	9,804	4,184	2,564			
			2,5	---	ULS,up	12,987	6,803	4,292			
			2,5	---	SLS (200)	40,000	11,765	4,975			
Z150	42/48	Overlapped 6-span system (10+20%)	1,0	1,2	ULS,down	6,098	2,545	1,515	1,031	0,747	0,562
			1,0	1,2	ULS,up	7,752	4,049	2,132	1,307	0,876	0,624
			1,0	1,2	SLS (200)	22,222	6,579	2,778	1,425	0,824	0,519
			1,2	1,5	ULS,down	8,403	3,623	2,203	1,524	1,116	0,846
			1,2	1,5	ULS,up	10,638	5,587	3,215	1,965	1,314	0,935
			1,2	1,5	SLS (200)	28,571	8,333	3,521	1,805	1,044	0,657
			1,5	2,0	ULS,down	11,494	5,025	3,086	2,151	1,587	1,209
			1,5	2,0	ULS,up	13,889	7,246	4,386	2,660	1,773	1,259
			1,5	2,0	SLS (200)	37,037	11,111	4,651	2,387	1,381	0,870
			2,0	2,5	ULS,down	14,706	6,369	3,906	2,725	2,012	1,536
			2,0	2,5	ULS,up	16,667	8,696	5,376	3,226	2,137	1,515
			2,0	2,5	SLS (200)	47,619	13,889	5,848	2,994	1,730	1,089
			2,5	2,5	ULS,down	16,129	6,849	4,149	2,890	2,128	1,623
			2,5	2,5	ULS,up	16,949	8,850	5,525	3,300	2,188	1,550
			2,5	2,5	SLS (200)	47,619	14,286	5,988	3,067	1,773	1,117

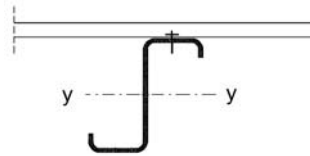
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						3,00	4,00	5,00	6,00	7,00	8,00
Z180ECO	52/58	Single-span	1,2	---	ULS,down	3,125	1,972	1,381	1,032	0,764	0,585
			1,2	---	ULS,up	2,597	1,368	0,845	0,569	0,407	0,304
			1,2	---	SLS (200)	4,878	2,062	1,055	0,611	0,384	0,258
			1,5	---	ULS,down	4,310	2,717	1,901	1,420	1,110	0,873
			1,5	---	ULS,up	3,861	2,049	1,269	0,856	0,613	0,458
			1,5	---	SLS (200)	6,410	2,710	1,387	0,802	0,505	0,338
			2,0	---	ULS,down	6,173	3,891	2,725	2,037	1,592	1,285
			2,0	---	ULS,up	5,988	3,145	1,942	1,307	0,935	0,698
			2,0	---	SLS (200)	8,547	3,623	1,855	1,073	0,676	0,452
			2,5	---	ULS,down	7,576	4,785	3,356	2,500	1,957	1,580
			2,5	---	ULS,up	7,576	3,937	2,415	1,623	1,157	0,864
			2,5	---	SLS (200)	10,753	4,525	2,315	1,340	0,845	0,566
Z180ECO	52/58	Double-span	1,2	---	ULS,down	2,315	1,333	0,894	0,645		
			1,2	---	ULS,up	3,155	1,988	1,393	1,040		
			1,2	---	SLS (200)	11,765	4,975	2,545	1,471		
			1,5	---	ULS,down	3,247	1,912	1,305	0,952		
			1,5	---	ULS,up	4,348	2,740	1,916	1,433		
			1,5	---	SLS (200)	15,385	6,536	3,344	1,934		
			2,0	---	ULS,down	4,717	2,809	1,946	1,435		
			2,0	---	ULS,up	6,211	3,922	2,747	2,053		
			2,0	---	SLS (200)	20,833	8,696	4,464	2,584		
			2,5	---	ULS,down	5,952	3,509	2,421	1,789		
			2,5	---	ULS,up	7,634	4,831	3,378	2,525		
			2,5	---	SLS (200)	25,641	10,870	5,587	3,236		
Z180ECO	52/58	Triple-span	1,2	---	ULS,down	2,283	1,269				
			1,2	---	ULS,up	3,774	2,381				
			1,2	---	SLS (200)	9,346	3,937				
			1,5	---	ULS,down	3,257	1,852				
			1,5	---	ULS,up	5,181	3,279				
			1,5	---	SLS (200)	12,346	5,181				
			2,0	---	ULS,down	4,785	2,732				
			2,0	---	ULS,up	7,463	4,695				
			2,0	---	SLS (200)	16,393	6,944				
			2,5	---	ULS,down	5,988	3,378				
			2,5	---	ULS,up	9,174	5,780				
			2,5	---	SLS (200)	20,408	8,696				
Z180ECO	52/58	Overlapped 6-span system (10+20%)	1,2	1,5	ULS,down	4,566	2,551	1,695	1,232	0,943	0,745
			1,2	1,5	ULS,up	6,623	3,984	2,415	1,613	1,148	0,855
			1,2	1,5	SLS (200)	14,493	6,098	3,125	1,808	1,140	0,763
			1,5	2,0	ULS,down	6,623	3,731	2,500	1,838	1,420	1,125
			1,5	2,0	ULS,up	9,174	5,780	3,676	2,451	1,739	1,294
			1,5	2,0	SLS (200)	19,231	8,130	4,149	2,404	1,515	1,014
			2,0	2,5	ULS,down	8,929	5,076	3,448	2,550	1,972	1,565
			2,0	2,5	ULS,up	11,628	7,353	4,651	3,077	2,179	1,618
			2,0	2,5	SLS (200)	24,390	10,204	5,208	3,021	1,901	1,274
			2,5	2,5	ULS,down	9,804	5,525	3,731	2,762	2,128	1,686
			2,5	2,5	ULS,up	11,905	7,519	4,808	3,185	2,247	1,667
			2,5	2,5	SLS (200)	25,000	10,417	5,348	3,096	1,946	1,304

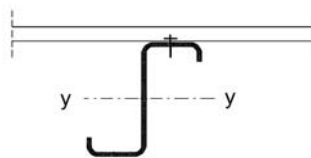
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						3,00	4,00	5,00	6,00	7,00	8,00
Z180	66/74	Single-span	1,2	---	ULS,down	3,067	1,934	1,353	1,011	0,745	0,570
			1,2	---	ULS,up	2,865	1,490	0,917	0,620	0,445	0,334
			1,2	---	SLS (200)	5,076	2,146	1,099	0,636	0,400	0,268
			1,5	---	ULS,down	4,348	2,747	1,923	1,437	1,124	0,885
			1,5	---	ULS,up	4,348	2,315	1,433	0,971	0,697	0,523
			1,5	---	SLS (200)	7,194	3,030	1,553	0,898	0,566	0,379
			2,0	---	ULS,down	6,579	4,149	2,907	2,169	1,698	1,370
			2,0	---	ULS,up	6,579	3,817	2,353	1,590	1,143	0,856
			2,0	---	SLS (200)	10,000	4,202	2,151	1,244	0,784	0,525
			2,5	---	ULS,down	8,264	5,208	3,636	2,717	2,128	1,715
			2,5	---	ULS,up	8,264	4,950	3,021	2,037	1,460	1,093
			2,5	---	SLS (200)	12,500	5,236	2,688	1,555	0,979	0,656
Z180	66/74	Double-span	1,2	---	ULS,down	2,347	1,330	0,881	0,639		
			1,2	---	ULS,up	3,086	1,949	1,364	1,014		
			1,2	---	SLS (200)	12,195	5,181	2,646	1,534		
			1,5	---	ULS,down	3,356	1,934	1,309	0,965		
			1,5	---	ULS,up	4,386	2,770	1,938	1,449		
			1,5	---	SLS (200)	17,241	7,299	3,745	2,169		
			2,0	---	ULS,down	5,051	2,950	2,024	1,517		
			2,0	---	ULS,up	6,623	4,184	2,933	2,188		
			2,0	---	SLS (200)	23,810	10,101	5,181	3,003		
			2,5	---	ULS,down	6,452	3,745	2,564	1,927		
			2,5	---	ULS,up	8,333	5,236	3,676	2,740		
			2,5	---	SLS (200)	30,303	12,658	6,494	3,745		
Z180	66/74	Triple-span	1,2	---	ULS,down	2,494	1,316				
			1,2	---	ULS,up	3,690	2,331				
			1,2	---	SLS (200)	9,709	4,115				
			1,5	---	ULS,down	3,610	1,953				
			1,5	---	ULS,up	5,263	3,311				
			1,5	---	SLS (200)	13,699	5,814				
			2,0	---	ULS,down	5,495	3,003				
			2,0	---	ULS,up	7,937	5,000				
			2,0	---	SLS (200)	19,231	8,065				
			2,5	---	ULS,down	7,042	3,802				
			2,5	---	ULS,up	9,901	6,289				
			2,5	---	SLS (200)	23,810	10,000				
Z180	66/74	Overlapped 6-span system (10+20%)	1,2	1,5	ULS,down	5,051	2,674	1,727	1,242	0,950	0,755
			1,2	1,5	ULS,up	6,536	4,115	2,717	1,818	1,297	0,968
			1,2	1,5	SLS (200)	16,129	6,803	3,472	2,012	1,266	0,848
			1,5	2,0	ULS,down	7,353	3,968	2,604	1,898	1,468	1,178
			1,5	2,0	ULS,up	9,259	5,848	4,098	2,959	2,110	1,575
			1,5	2,0	SLS (200)	22,222	9,434	4,808	2,786	1,754	1,176
			2,0	2,5	ULS,down	10,309	5,650	3,774	2,793	2,179	1,754
			2,0	2,5	ULS,up	12,658	8,000	5,587	3,861	2,740	2,037
			2,0	2,5	SLS (200)	27,778	11,765	6,061	3,509	2,208	1,477
			2,5	2,5	ULS,down	11,494	6,250	4,149	3,067	2,392	1,923
			2,5	2,5	ULS,up	12,987	8,197	5,714	4,000	2,825	2,101
			2,5	2,5	SLS (200)	28,571	12,048	6,211	3,584	2,257	1,513

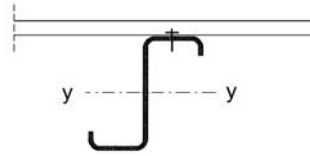
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						3,00	4,00	5,00	6,00	7,00	8,00
Z200ECO	42/48	Single-span	1,2	---	ULS,down	3,356	2,119	1,481	1,107	0,834	0,639
			1,2	---	ULS,up	2,347	1,232	0,756	0,508	0,362	0,269
			1,2	---	SLS (200)	5,587	2,364	1,209	0,700	0,441	0,295
			1,5	---	ULS,down	4,525	2,849	1,996	1,490	1,164	0,926
			1,5	---	ULS,up	3,413	1,802	1,110	0,746	0,531	0,396
			1,5	---	SLS (200)	7,299	3,086	1,582	0,915	0,576	0,386
			2,0	---	ULS,down	6,455	4,082	2,857	2,132	1,667	1,348
			2,0	---	ULS,up	5,236	2,747	1,692	1,135	0,808	0,602
			2,0	---	SLS (200)	9,901	4,184	2,141	1,241	0,781	0,523
			2,5	---	ULS,down	7,813	4,950	3,460	2,584	2,016	1,629
			2,5	---	ULS,up	6,494	3,356	2,049	1,374	0,977	0,726
			2,5	---	SLS (200)	12,346	5,236	2,681	1,553	0,978	0,655
Z200ECO	42/48	Double-span	1,2	---	ULS,down	2,513	1,412	0,923	0,648		
			1,2	---	ULS,up	3,378	2,137	1,495	1,013		
			1,2	---	SLS (200)	13,514	5,682	2,915	1,686		
			1,5	---	ULS,down	3,497	2,008	1,330	0,943		
			1,5	---	ULS,up	4,545	2,874	2,012	1,484		
			1,5	---	SLS (200)	17,544	7,463	3,817	2,208		
			2,0	---	ULS,down	5,128	2,976	1,996	1,429		
			2,0	---	ULS,up	6,536	4,115	2,882	2,151		
			2,0	---	SLS (200)	23,810	10,101	5,155	2,994		
			2,5	---	ULS,down	6,369	3,663	2,445	1,748		
			2,5	---	ULS,up	7,874	4,975	3,484	2,604		
			2,5	---	SLS (200)	30,303	12,658	6,452	3,745		
Z200ECO	42/48	Triple-span	1,2	---	ULS,down	2,252	1,248				
			1,2	---	ULS,up	4,049	2,257				
			1,2	---	SLS (200)	10,753	4,525				
			1,5	---	ULS,down	3,195	1,808				
			1,5	---	ULS,up	5,435	3,279				
			1,5	---	SLS (200)	14,085	5,917				
			2,0	---	ULS,down	4,739	2,688				
			2,0	---	ULS,up	7,813	4,926				
			2,0	---	SLS (200)	18,868	8,000				
			2,5	---	ULS,down	5,814	3,257				
			2,5	---	ULS,up	9,434	5,952				
			2,5	---	SLS (200)	23,810	10,000				
Z200ECO	42/48	Overlapped 6-span system (10+20%)	1,2	1,5	ULS,down	4,484	2,488	1,647	1,181	0,887	0,688
			1,2	1,5	ULS,up	6,993	3,571	2,146	1,425	1,008	0,747
			1,2	1,5	SLS (200)	16,393	6,944	3,571	2,062	1,300	0,870
			1,5	2,0	ULS,down	6,494	3,636	2,415	1,751	1,328	1,038
			1,5	2,0	ULS,up	9,615	5,405	3,236	2,146	1,517	1,124
			1,5	2,0	SLS (200)	22,222	9,346	4,808	2,778	1,748	1,171
			2,0	2,5	ULS,down	8,772	4,975	3,344	2,427	1,838	1,437
			2,0	2,5	ULS,up	12,048	6,803	4,016	2,646	1,866	1,379
			2,0	2,5	SLS (200)	27,778	11,765	6,024	3,484	2,198	1,473
			2,5	2,5	ULS,down	9,524	5,319	3,559	2,577	1,953	1,522
			2,5	2,5	ULS,up	12,346	6,993	4,132	2,717	1,916	1,414
			2,5	2,5	SLS (200)	28,571	12,048	6,173	3,584	2,252	1,511

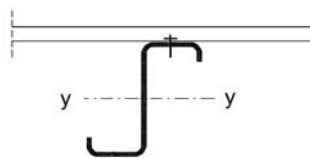
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						3,00	4,00	5,00	6,00	7,00	8,00
Z200	66/74	Single-span	1,2	---	ULS,down	3,571	2,252	1,575	1,176	0,900	0,689
			1,2	---	ULS,up	3,460	1,739	1,052	0,705	0,504	0,377
			1,2	---	SLS (200)	6,897	2,907	1,490	0,862	0,543	0,364
			1,5	---	ULS,down	5,025	3,165	2,217	1,656	1,294	1,045
			1,5	---	ULS,up	5,025	2,681	1,629	1,094	0,784	0,586
			1,5	---	SLS (200)	9,615	4,049	2,075	1,202	0,756	0,507
			2,0	---	ULS,down	7,576	4,785	3,356	2,506	1,957	1,580
			2,0	---	ULS,up	7,576	4,425	2,681	1,799	1,287	0,962
			2,0	---	SLS (200)	13,158	5,525	2,825	1,634	1,030	0,690
			2,5	---	ULS,down	9,615	6,061	4,237	3,165	2,469	1,996
			2,5	---	ULS,up	9,615	5,814	3,484	2,326	1,658	1,239
			2,5	---	SLS (200)	16,393	6,897	3,534	2,041	1,287	0,862
Z200	66/74	Double-span	1,2	---	ULS,down	2,825	1,572	1,021	0,732		
			1,2	---	ULS,up	3,597	2,268	1,587	1,186		
			1,2	---	SLS (200)	16,667	6,993	3,597	2,079		
			1,5	---	ULS,down	4,000	2,262	1,497	1,092		
			1,5	---	ULS,up	5,051	3,195	2,232	1,669		
			1,5	---	SLS (200)	23,256	9,804	5,000	2,899		
			2,0	---	ULS,down	6,024	3,436	2,309	1,712		
			2,0	---	ULS,up	7,634	4,831	3,378	2,525		
			2,0	---	SLS (200)	31,250	13,333	6,803	3,937		
			2,5	---	ULS,down	7,752	4,405	2,959	2,188		
			2,5	---	ULS,up	9,709	6,098	4,274	3,185		
			2,5	---	SLS (200)	40,000	16,667	8,547	4,926		
Z200	66/74	Triple-span	1,2	---	ULS,down	3,021	1,527				
			1,2	---	ULS,up	4,292	2,710				
			1,2	---	SLS (200)	13,158	5,555				
			1,5	---	ULS,down	4,329	2,242				
			1,5	---	ULS,up	6,061	3,817				
			1,5	---	SLS (200)	18,519	7,752				
			2,0	---	ULS,down	6,579	3,460				
			2,0	---	ULS,up	9,174	5,780				
			2,0	---	SLS (200)	25,000	10,526				
			2,5	---	ULS,down	8,475	4,425				
			2,5	---	ULS,up	11,494	7,299				
			2,5	---	SLS (200)	31,250	13,158				
Z200	66/74	Overlapped 6-span system (10+20%)	1,2	1,5	ULS,down	6,098	3,106	1,953	1,385	1,049	0,830
			1,2	1,5	ULS,up	7,576	4,785	3,205	2,110	1,490	1,106
			1,2	1,5	SLS (200)	21,739	9,091	4,673	2,695	1,701	1,139
			1,5	2,0	ULS,down	8,850	4,566	2,924	2,096	1,608	1,285
			1,5	2,0	ULS,up	10,638	6,757	4,717	3,448	2,433	1,802
			1,5	2,0	SLS (200)	29,412	12,346	6,329	3,676	2,309	1,548
			2,0	2,5	ULS,down	12,500	6,536	4,255	3,106	2,410	1,938
			2,0	2,5	ULS,up	14,706	9,346	6,536	4,545	3,185	2,353
			2,0	2,5	SLS (200)	37,037	15,625	7,937	4,608	2,899	1,946
			2,5	2,5	ULS,down	13,889	7,246	4,695	3,413	2,646	2,128
			2,5	2,5	ULS,up	15,152	9,524	6,667	4,673	3,279	2,421
			2,5	2,5	SLS (200)	37,037	15,873	8,130	4,717	2,967	1,988

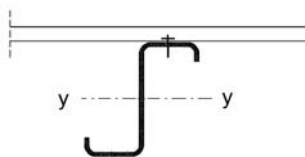
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						3,00	4,00	5,00	6,00	7,00	8,00
Z220	66/74	Single-span	1,5	---	ULS,down	5,464	3,448	2,415	1,802	1,408	1,138
			1,5	---	ULS,up	5,464	2,849	1,709	1,143	0,816	0,609
			1,5	---	SLS (200)	11,905	5,025	2,577	1,490	0,938	0,629
			2,0	---	ULS,down	8,264	5,208	3,636	2,717	2,123	1,715
			2,0	---	ULS,up	8,264	4,695	2,809	1,876	1,339	1,000
			2,0	---	SLS (200)	16,393	6,944	3,559	2,058	1,297	0,869
			2,5	---	ULS,down	10,638	6,757	4,717	3,521	2,755	2,222
			2,5	---	ULS,up	10,638	6,369	3,759	2,500	1,779	1,328
			2,5	---	SLS (200)	20,408	8,696	4,444	2,577	1,621	1,086
			3,0	---	ULS,down	12,500	7,937	5,556	4,149	3,236	2,618
			3,0	---	ULS,up	12,500	7,634	4,484	2,950	2,096	1,560
			3,0	---	SLS (200)	24,390	10,417	5,319	3,086	1,942	1,300
Z220	66/74	Double-span	1,5	---	ULS,down	4,587	2,545	1,650	1,183		
			1,5	---	ULS,up	5,495	3,472	2,433	1,818		
			1,5	---	SLS (200)	28,571	12,195	6,211	3,597		
			2,0	---	ULS,down	6,897	3,876	2,551	1,855		
			2,0	---	ULS,up	8,333	5,236	3,676	2,740		
			2,0	---	SLS (200)	40,000	16,667	8,547	4,975		
			2,5	---	ULS,down	9,091	5,076	3,333	2,427		
			2,5	---	ULS,up	10,753	6,803	4,762	3,546		
			2,5	---	SLS (200)	50,000	20,833	10,753	6,211		
			3,0	---	ULS,down	10,870	6,098	3,984	2,882		
			3,0	---	ULS,up	12,658	8,000	5,587	4,184		
			3,0	---	SLS (200)	58,824	25,000	12,821	7,407		
Z220	66/74	Triple-span	1,5	---	ULS,down	4,926	2,475				
			1,5	---	ULS,up	6,579	4,149				
			1,5	---	SLS (200)	22,727	9,615				
			2,0	---	ULS,down	7,519	3,831				
			2,0	---	ULS,up	9,901	6,289				
			2,0	---	SLS (200)	31,250	13,333				
			2,5	---	ULS,down	9,901	5,025				
			2,5	---	ULS,up	12,821	8,130				
			2,5	---	SLS (200)	40,000	16,667				
			3,0	---	ULS,down	12,048	6,024				
			3,0	---	ULS,up	15,152	9,524				
			3,0	---	SLS (200)	47,619	20,000				
Z220	66/74	Overlapped 6-span system (10+20%)	1,5	2,0	ULS,down	10,101	5,051	3,135	2,217	1,681	1,332
			1,5	2,0	ULS,up	11,628	7,353	5,128	3,650	2,564	1,894
			1,5	2,0	SLS (200)	37,037	15,625	8,000	4,630	2,907	1,949
			2,0	2,5	ULS,down	14,493	7,353	4,651	3,344	2,564	2,049
			2,0	2,5	ULS,up	16,393	10,417	7,246	4,975	3,472	2,558
			2,0	2,5	SLS (200)	45,455	19,608	10,000	5,814	3,663	2,451
			2,5	3,0	ULS,down	18,182	9,174	5,747	4,115	3,155	2,519
			2,5	3,0	ULS,up	19,608	12,346	8,621	6,024	4,167	3,058
			2,5	3,0	SLS (200)	55,556	23,810	12,048	6,993	4,405	2,941
			3,0	3,0	ULS,down	19,608	9,804	6,098	4,348	3,322	2,653
			3,0	3,0	ULS,up	19,608	12,500	8,696	6,135	4,255	3,115
			3,0	3,0	SLS (200)	55,556	23,810	12,346	7,092	4,484	3,003

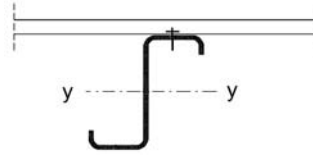
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						4,00	5,00	6,00	7,00	8,00	9,00
Z250	66/74	Single-span	1,5	---	ULS,down	3,876	2,710	2,024	1,580	1,277	1,057
			1,5	---	ULS,up	3,106	1,818	1,203	0,855	0,638	0,492
			1,5	---	SLS (200)	6,711	3,448	1,992	1,255	0,840	0,590
			2,0	---	ULS,down	5,814	4,082	3,040	2,381	1,919	1,590
			2,0	---	ULS,up	5,102	2,985	1,972	1,404	1,047	0,808
			2,0	---	SLS (200)	9,524	4,854	2,817	1,773	1,186	0,833
			2,5	---	ULS,down	7,752	5,435	4,049	3,165	2,558	2,119
			2,5	---	ULS,up	7,143	4,149	2,725	1,934	1,441	1,111
			2,5	---	SLS (200)	11,905	6,098	3,521	2,217	1,486	1,043
			3,0	---	ULS,down	9,174	6,452	4,808	3,759	3,030	2,513
			3,0	---	ULS,up	8,696	4,975	3,247	2,294	1,704	1,312
			3,0	---	SLS (200)	14,286	7,299	4,219	2,660	1,779	1,250
Z250	66/74	Double-span	1,5	---	ULS,down	3,003	1,898	1,326			
			1,5	---	ULS,up	3,906	2,732	2,041			
			1,5	---	SLS (200)	16,129	8,333	4,808			
			2,0	---	ULS,down	4,587	2,941	2,079			
			2,0	---	ULS,up	5,882	4,115	3,067			
			2,0	---	SLS (200)	22,727	11,765	6,803			
			2,5	---	ULS,down	6,173	3,937	2,801			
			2,5	---	ULS,up	7,813	5,464	4,082			
			2,5	---	SLS (200)	28,571	14,706	8,475			
			3,0	---	ULS,down	7,463	4,739	3,344			
			3,0	---	ULS,up	9,259	6,494	4,854			
			3,0	---	SLS (200)	34,483	17,544	10,204			
Z250	66/74	Triple-span	1,5	---	ULS,down	2,857					
			1,5	---	ULS,up	4,673					
			1,5	---	SLS (200)	12,821					
			2,0	---	ULS,down	4,444					
			2,0	---	ULS,up	7,042					
			2,0	---	SLS (200)	18,182					
			2,5	---	ULS,down	6,024					
			2,5	---	ULS,up	9,346					
			2,5	---	SLS (200)	22,727					
			3,0	---	ULS,down	7,246					
			3,0	---	ULS,up	11,111					
			3,0	---	SLS (200)	27,027					
Z250	66/74	Overlapped 6-span system (10+20%)	1,5	2,0	ULS,down	5,814	3,460	2,387	1,783	1,395	1,129
			1,5	2,0	ULS,up	8,264	5,747	3,953	2,755	2,020	1,541
			1,5	2,0	SLS (200)	21,277	10,870	6,289	3,968	2,660	1,869
			2,0	2,5	ULS,down	8,696	5,236	3,663	2,770	2,193	1,786
			2,0	2,5	ULS,up	11,905	8,333	5,587	3,861	2,817	2,146
			2,0	2,5	SLS (200)	27,027	13,699	7,937	5,000	3,356	2,353
			2,5	3,0	ULS,down	10,989	6,579	4,587	3,472	2,747	2,242
			2,5	3,0	ULS,up	14,286	10,000	6,803	4,673	3,401	2,577
			2,5	3,0	SLS (200)	32,258	16,393	9,524	6,024	4,032	2,833
			3,0	3,0	ULS,down	11,905	7,042	4,878	3,663	2,899	2,358
			3,0	3,0	ULS,up	14,493	10,101	6,944	4,762	3,472	2,632
			3,0	3,0	SLS (200)	33,333	16,949	9,709	6,135	4,098	2,882

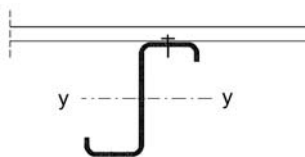
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						5,00	6,00	7,00	8,00	9,00	10,00
Z300	86/94	Single-span	2,0	---	ULS,down	4,808	3,584	2,801	2,262	1,876	1,585
			2,0	---	ULS,up	3,922	2,500	1,745	1,292	0,996	0,790
			2,0	---	SLS (200)	8,264	4,808	3,021	2,024	1,422	1,037
			2,5	---	ULS,down	6,623	4,926	3,861	3,115	2,577	2,179
			2,5	---	ULS,up	5,714	3,623	2,519	1,862	1,433	1,136
			2,5	---	SLS (200)	10,870	6,289	3,953	2,653	1,862	1,357
			3,0	---	ULS,down	8,403	6,289	4,902	3,968	3,289	2,778
			3,0	---	ULS,up	7,576	4,762	3,289	2,427	1,862	1,475
			3,0	---	SLS (200)	12,987	7,519	4,739	3,175	2,232	1,629
			4,0	---	ULS,down	11,111	8,333	6,536	5,263	4,367	3,676
			4,0	---	ULS,up	10,753	6,579	4,444	3,236	2,469	1,946
			4,0	---	SLS (200)	17,544	10,101	6,369	4,255	2,985	2,179
Z300	86/94	Double-span	2,0	---	ULS,down	3,876	2,646				
			2,0	---	ULS,up	4,831	3,610				
			2,0	---	SLS (200)	20,000	11,628				
			2,5	---	ULS,down	5,376	3,676				
			2,5	---	ULS,up	6,667	4,975				
			2,5	---	SLS (200)	26,316	15,152				
			3,0	---	ULS,down	6,849	4,695				
			3,0	---	ULS,up	8,475	6,329				
			3,0	---	SLS (200)	31,250	18,182				
			4,0	---	ULS,down	9,346	6,369				
			4,0	---	ULS,up	11,236	8,403				
			4,0	---	SLS (200)	41,667	24,390				
Z300	86/94	Overlapped 6-span system (10+20%)	2,0	2,5	ULS,down	7,353	4,717	3,378	2,604	2,092	1,727
			2,0	2,5	ULS,up	10,101	7,576	5,263	3,788	2,857	2,232
			2,0	2,5	SLS (200)	24,390	14,085	8,929	5,952	4,184	3,058
			2,5	3,0	ULS,down	9,804	6,289	4,505	3,460	2,786	2,304
			2,5	3,0	ULS,up	12,987	9,709	7,042	5,051	3,788	2,950
			2,5	3,0	SLS (200)	29,412	16,949	10,753	7,194	5,051	3,690
			3,0	4,0	ULS,down	13,158	8,264	5,882	4,525	3,636	3,003
			3,0	4,0	ULS,up	16,949	12,658	9,434	6,711	5,000	3,846
			3,0	4,0	SLS (200)	38,462	22,222	14,085	9,343	6,667	4,854
			4,0	4,0	ULS,down	14,925	9,346	6,536	4,950	3,953	3,257
			4,0	4,0	ULS,up	17,544	13,158	10,101	7,143	5,291	4,082
			4,0	4,0	SLS (200)	40,000	23,256	14,706	9,804	6,897	5,025

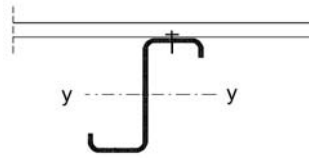
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)						
						6,00	7,00	8,00	9,00	10,00	11,00	12,00
Z350	96/104	Single-span	2,5	---	ULS,down	5,525	4,329	3,497	2,890	2,445	2,096	1,825
			2,5	---	ULS,up	4,132	2,801	2,041	1,558	1,232	0,997	0,823
			2,5	---	SLS (200)	9,346	5,848	3,922	2,762	2,012	1,511	1,164
			3,0	---	ULS,down	7,194	5,587	4,525	3,745	3,165	2,717	2,364
			3,0	---	ULS,up	5,587	3,745	2,717	2,070	1,634	1,323	1,092
			3,0	---	SLS (200)	11,494	7,246	4,854	3,413	2,488	1,866	1,439
			4,0	---	ULS,down	10,101	7,874	6,369	5,291	4,464	3,831	3,333
			4,0	---	ULS,up	8,403	5,525	3,953	2,976	2,336	1,869	1,529
			4,0	---	SLS (200)	15,385	9,709	6,494	4,566	3,333	2,500	1,927
Z350	96/104	Overlapped 6-span system (10+20%)	2,5	3,0	ULS,down	7,813	5,291	3,922	3,086	2,519	2,101	1,789
			2,5	3,0	ULS,up	11,111	8,264	5,882	4,367	3,367	2,674	2,174
			2,5	3,0	SLS (200)	26,316	16,393	10,989	7,692	5,618	4,219	3,257
			3,0	4,0	ULS,down	10,870	7,299	5,405	4,219	3,436	2,865	2,439
			3,0	4,0	ULS,up	15,152	11,905	8,475	6,250	4,785	3,774	3,049
			3,0	4,0	SLS (200)	34,483	21,739	14,493	10,204	7,407	5,587	4,292
			4,0	4,0	ULS,down	12,821	8,475	6,135	4,762	3,831	3,195	2,710
			4,0	4,0	ULS,up	15,873	12,346	9,009	6,667	5,076	4,000	3,236
			4,0	4,0	SLS (200)	35,714	22,222	14,925	10,526	7,692	5,780	4,444

Option: Bottom flange is supported laterally in the middle span by anti-sag bar

Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)						
						6,00	7,00	8,00	9,00	10,00	11,00	12,00
Z350	96/104	Single-span	2,5	---	ULS,down	5,525	4,329	3,497	2,890	2,445	2,096	1,825
			2,5	---	ULS,up	5,525	4,329	3,003	2,114	1,536	1,153	0,897
			2,5	---	SLS (200)	9,346	5,848	3,922	2,762	2,012	1,511	1,164
			3,0	---	ULS,down	7,194	5,587	4,525	3,745	3,165	2,717	2,364
			3,0	---	ULS,up	7,194	5,587	4,132	2,899	2,096	1,570	1,214
			3,0	---	SLS (200)	11,494	7,246	4,854	3,413	2,488	1,866	1,439
			4,0	---	ULS,down	10,101	7,874	6,369	5,291	4,464	3,831	3,333
			4,0	---	ULS,up	10,101	7,874	6,329	4,444	3,195	2,364	1,812
			4,0	---	SLS (200)	15,385	9,709	6,494	4,566	3,333	2,500	1,927
Z350	96/104	Overlapped 6-span system (10+20%)	2,5	3,0	ULS,down	11,111	8,621	6,993	5,780	4,831	3,731	2,950
			2,5	3,0	ULS,up	11,111	8,621	6,993	5,000	3,610	2,703	2,092
			2,5	3,0	SLS (200)	26,316	16,393	10,989	7,692	5,618	4,219	3,257
			3,0	4,0	ULS,down	15,152	11,905	9,615	7,937	6,711	5,291	4,167
			3,0	4,0	ULS,up	15,152	11,905	9,615	7,407	5,319	3,937	3,021
			3,0	4,0	SLS (200)	34,483	21,739	14,493	10,204	7,407	5,587	4,292
			4,0	4,0	ULS,down	15,873	12,346	10,000	8,264	6,993	6,024	5,025
			4,0	4,0	ULS,up	15,873	12,346	10,000	7,874	5,650	4,184	3,205
			4,0	4,0	SLS (200)	35,714	22,222	14,925	10,526	7,692	5,780	4,444

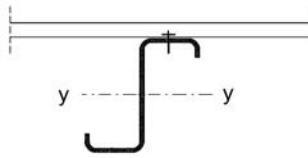
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						7,00	8,00	9,00	10,00	11,00	12,00
Z400	110/118	Single-span	3,0	---	ULS,down	6,173	4,975	4,132	3,484	2,994	2,604
			3,0	---	ULS,up	4,367	3,077	2,304	1,802	1,449	1,193
			3,0	---	SLS (200)	10,309	6,897	4,854	3,534	2,660	2,045
			4,0	---	ULS,down	9,259	7,519	6,211	5,236	4,505	3,922
			4,0	---	ULS,up	7,042	4,902	3,623	2,809	2,232	1,815
			4,0	---	SLS (200)	14,286	9,615	6,711	4,902	3,690	2,841
Z400	110/118	Overlapped 6-span system (10+20%)	3,0	4,0	ULS,down	9,174	6,410	4,808	3,802	3,135	2,632
			3,0	4,0	ULS,up	13,158	10,638	7,813	5,917	4,630	3,731
			3,0	4,0	SLS (200)	32,258	21,277	14,925	10,870	8,197	6,329
			4,0	4,0	ULS,down	11,364	7,937	5,848	4,566	3,731	3,125
			4,0	4,0	ULS,up	14,493	11,494	8,403	6,369	4,975	3,984
			4,0	4,0	SLS (200)	33,333	22,222	15,625	11,364	8,475	6,536

Option: Bottom flange is supported laterally in the middle span by anti-sag bar

Profile	Flange sizes	Static system	t1 (mm)	t2 (mm)	Row	Span (m)					
						7,00	8,00	9,00	10,00	11,00	12,00
Z400	110/118	Single-span	3,0	---	ULS,down	6,173	4,975	4,132	3,484	2,994	2,604
			3,0	---	ULS,up	6,173	4,975	3,676	2,667	1,984	1,513
			3,0	---	SLS (200)	10,309	6,897	4,854	3,534	2,660	2,045
			4,0	---	ULS,down	9,259	7,519	6,211	5,236	4,505	3,922
			4,0	---	ULS,up	9,259	7,519	6,098	4,444	3,289	2,494
			4,0	---	SLS (200)	14,286	9,615	6,711	4,902	3,690	2,841
Z400	110/118	Overlapped 6-span system (10+20%)	3,0	4,0	ULS,down	13,158	10,638	8,772	7,407	6,369	5,181
			3,0	4,0	ULS,up	13,158	10,638	8,772	7,353	5,435	4,115
			3,0	4,0	SLS (200)	32,258	21,277	14,925	10,870	8,197	6,329
			4,0	4,0	ULS,down	14,493	11,765	9,709	8,264	7,092	6,135
			4,0	4,0	ULS,up	14,493	11,765	9,709	7,874	5,814	4,405
			4,0	4,0	SLS (200)	33,333	22,222	15,625	11,364	8,475	6,536

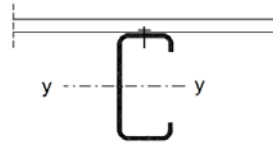
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					2,00	3,00	4,00	5,00	6,00	7,00
C100	42/48	Single-span	1,0	ULS,down	2,786	1,458	0,901	0,577	0,400	
			1,0	ULS,up	1,364	0,874	0,586	0,393	0,267	
			1,0	SLS (200)	3,115	0,923	0,390	0,199	0,115	
			1,2	ULS,down	3,636	1,898	1,199	0,803	0,557	
			1,2	ULS,up	1,799	1,205	0,827	0,558	0,379	
			1,2	SLS (200)	3,817	1,130	0,477	0,244	0,141	
			1,5	ULS,down	4,566	2,392	1,508	1,056	0,743	
			1,5	ULS,up	2,331	1,595	1,104	0,747	0,506	
			1,5	SLS (200)	4,762	1,410	0,595	0,305	0,176	
			2,0	ULS,down	5,780	3,021	1,905	1,333	0,995	
			2,0	ULS,up	3,012	2,049	1,429	0,973	0,663	
			2,0	SLS (200)	6,329	1,869	0,789	0,404	0,234	
C100	42/48	Double-span	1,0	ULS,down	1,855	0,998	0,642	0,435	0,309	
			1,0	ULS,up	2,188	1,325	0,901	0,577	0,400	
			1,0	SLS (200)	7,519	2,227	0,939	0,481	0,278	
			1,2	ULS,down	2,392	1,323	0,868	0,595	0,426	
			1,2	ULS,up	2,817	1,779	1,208	0,803	0,557	
			1,2	SLS (200)	9,174	2,725	1,149	0,588	0,340	
			1,5	ULS,down	3,067	1,709	1,131	0,781	0,561	
			1,5	ULS,up	3,623	2,331	1,517	1,063	0,743	
			1,5	SLS (200)	11,494	3,401	1,435	0,734	0,425	
			2,0	ULS,down	3,984	2,193	1,462	1,015	0,730	
			2,0	ULS,up	4,739	2,994	1,919	1,342	1,002	
			2,0	SLS (200)	15,152	4,505	1,901	0,975	0,564	
C100	42/48	Triple-span	1,0	ULS,down	2,049	1,070	0,694			
			1,0	ULS,up	2,016	1,225	0,875			
			1,0	SLS (200)	5,952	1,767	0,746			
			1,2	ULS,down	2,660	1,418	0,938			
			1,2	ULS,up	2,611	1,653	1,218			
			1,2	SLS (200)	7,299	2,165	0,912			
			1,5	ULS,down	3,413	1,828	1,218			
			1,5	ULS,up	3,367	2,169	1,618			
			1,5	SLS (200)	9,091	2,695	1,139			
			2,0	ULS,down	4,425	2,331	1,555			
			2,0	ULS,up	4,386	2,793	2,088			
			2,0	SLS (200)	12,048	3,584	1,511			
C100	42/48	Continuous 6-span beam sleeve: 10-10%	1,0	ULS,down	1,965	1,029	0,664	0,457	0,329	0,247
			1,0	ULS,up	2,049	1,247	0,896	0,640	0,457	0,324
			1,0	SLS (200)	6,250	1,855	0,783	0,401	0,232	0,146
			1,2	ULS,down	2,551	1,366	0,898	0,626	0,454	0,342
			1,2	ULS,up	2,653	1,681	1,247	0,904	0,650	0,458
			1,2	SLS (200)	7,634	2,273	0,958	0,490	0,284	0,179
			1,5	ULS,down	3,279	1,764	1,168	0,818	0,595	0,449
			1,5	ULS,up	3,413	2,208	1,658	1,209	0,868	0,611
			1,5	SLS (200)	9,524	2,833	1,195	0,612	0,354	0,223
			2,0	ULS,down	4,237	2,247	1,490	1,050	0,767	0,579
			2,0	ULS,up	4,444	2,833	2,137	1,534	1,136	0,803
			2,0	SLS (200)	12,658	3,759	1,587	0,812	0,470	0,296

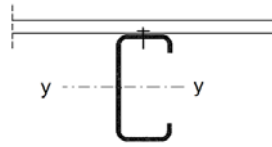
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					2,00	3,00	4,00	5,00	6,00	7,00
C120	42/48	Single-span	1,0	ULS,down	3,226	1,684	1,063	0,691	0,480	
			1,0	ULS,up	1,580	0,921	0,617	0,418	0,291	
			1,0	SLS (200)	4,785	1,416	0,598	0,306	0,177	
			1,2	ULS,down	4,310	2,252	1,422	0,994	0,691	
			1,2	ULS,up	2,110	1,300	0,899	0,617	0,433	
			1,2	SLS (200)	5,848	1,736	0,732	0,375	0,217	
			1,5	ULS,down	5,525	2,882	1,818	1,272	0,939	
			1,5	ULS,up	2,762	1,748	1,225	0,845	0,593	
			1,5	SLS (200)	7,299	2,169	0,916	0,469	0,271	
			2,0	ULS,down	7,042	3,676	2,326	1,626	1,215	0,949
			2,0	ULS,up	3,636	2,278	1,605	1,115	0,784	0,556
			2,0	SLS (200)	9,709	2,890	1,218	0,624	0,361	0,227
			2,5	ULS,down	8,403	4,405	2,778	1,942	1,451	1,134
			2,5	ULS,up	4,386	2,681	1,901	1,328	0,938	0,669
			2,5	SLS (200)	12,195	3,597	1,515	0,776	0,449	0,283
C120	42/48	Double-span	1,0	ULS,down	2,288	1,151	0,729	0,495	0,351	
			1,0	ULS,up	2,703	1,458	1,027	0,691	0,480	
			1,0	SLS (200)	11,494	3,413	1,441	0,738	0,427	
			1,2	ULS,down	3,021	1,563	1,014	0,699	0,501	
			1,2	ULS,up	3,521	1,988	1,435	0,994	0,691	
			1,2	SLS (200)	14,085	4,184	1,767	0,904	0,523	
			1,5	ULS,down	3,937	2,053	1,346	0,935	0,672	
			1,5	ULS,up	4,566	2,632	1,832	1,280	0,939	
			1,5	SLS (200)	17,544	5,236	2,208	1,130	0,654	
			2,0	ULS,down	5,181	2,674	1,757	1,229	0,887	
			2,0	ULS,up	6,024	3,436	2,336	1,637	1,222	
			2,0	SLS (200)	23,256	6,944	2,941	1,504	0,870	
			2,5	ULS,down	6,329	3,215	2,105	1,479	1,071	
			2,5	ULS,up	7,407	4,098	2,793	1,957	1,460	
			2,5	SLS (200)	29,412	8,696	3,650	1,869	1,082	
C120	42/48	Triple-span	1,0	ULS,down	2,488	1,202	0,761			
			1,0	ULS,up	2,451	1,350	0,929			
			1,0	SLS (200)	9,174	2,710	1,144			
			1,2	ULS,down	3,322	1,642	1,063			
			1,2	ULS,up	3,215	1,848	1,325			
			1,2	SLS (200)	11,236	3,322	1,403			
			1,5	ULS,down	4,329	2,155	1,406			
			1,5	ULS,up	4,167	2,457	1,789			
			1,5	SLS (200)	14,085	4,149	1,751			
			2,0	ULS,down	5,682	2,786	1,815			
			2,0	ULS,up	5,525	3,205	2,342			
			2,0	SLS (200)	18,519	5,525	2,331			
			2,5	ULS,down	6,944	3,311	2,146			
			2,5	ULS,up	6,711	3,831	2,770			
			2,5	SLS (200)	23,256	6,897	2,899			
C120	42/48	Continuous 6-span beam sleeve: 10-10%	1,0	ULS,down	2,375	1,155	0,728	0,500	0,360	0,270
			1,0	ULS,up	2,500	1,372	0,950	0,680	0,491	0,360
			1,0	SLS (200)	9,615	2,849	1,202	0,615	0,356	0,224
			1,2	ULS,down	3,175	1,580	1,018	0,709	0,515	0,388
			1,2	ULS,up	3,268	1,880	1,353	0,993	0,724	0,530
			1,2	SLS (200)	11,765	3,484	1,473	0,754	0,436	0,275
			1,5	ULS,down	4,132	2,075	1,348	0,946	0,690	0,521
			1,5	ULS,up	4,255	2,494	1,828	1,355	0,992	0,723
			1,5	SLS (200)	14,706	4,367	1,842	0,942	0,545	0,343
			2,0	ULS,down	5,435	2,681	1,742	1,227	0,898	0,680
			2,0	ULS,up	5,618	3,257	2,392	1,783	1,311	0,964
			2,0	SLS (200)	19,608	5,814	2,451	1,253	0,726	0,457
			2,5	ULS,down	6,623	3,195	2,058	1,453	1,068	0,809
			2,5	ULS,up	6,849	3,891	2,825	2,119	1,567	1,166
			2,5	SLS (200)	24,390	7,246	3,049	1,560	0,903	0,569

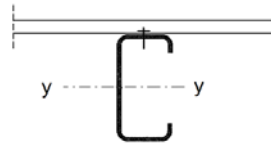
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					2,00	3,00	4,00	5,00	6,00	7,00
C150	42/48	Single-span	1,0	ULS,down	3,846	2,008	1,269	0,861	0,598	
			1,0	ULS,up	1,976	0,996	0,644	0,437	0,306	
			1,0	SLS (200)	7,874	2,331	0,983	0,504	0,291	
			1,2	ULS,down	5,128	2,681	1,692	1,185	0,858	
			1,2	ULS,up	2,639	1,403	0,939	0,648	0,457	
			1,2	SLS (200)	10,000	2,950	1,245	0,637	0,369	
			1,5	ULS,down	6,897	3,610	2,278	1,595	1,190	0,913
			1,5	ULS,up	3,559	1,972	1,357	0,948	0,672	0,489
			1,5	SLS (200)	12,500	3,690	1,560	0,798	0,462	0,291
			2,0	ULS,down	9,009	4,717	2,976	2,083	1,555	1,215
			2,0	ULS,up	4,785	2,632	1,825	1,284	0,914	0,668
			2,0	SLS (200)	16,667	4,926	2,079	1,066	0,617	0,388
			2,5	ULS,down	10,753	5,650	3,559	2,494	1,862	1,453
			2,5	ULS,up	5,848	3,135	2,160	1,527	1,092	0,799
			2,5	SLS (200)	20,833	6,173	2,597	1,330	0,769	0,484
C150	42/48	Double-span	1,0	ULS,down	3,030	1,399	0,848	0,570	0,403	
			1,0	ULS,up	3,597	1,715	1,106	0,786	0,573	
			1,0	SLS (200)	18,868	5,618	2,370	1,214	0,703	
			1,2	ULS,down	4,032	1,905	1,183	0,808	0,577	
			1,2	ULS,up	4,717	2,331	1,565	1,145	0,847	
			1,2	SLS (200)	23,810	7,092	3,003	1,536	0,889	
			1,5	ULS,down	5,464	2,618	1,653	1,144	0,823	
			1,5	ULS,up	6,250	3,185	2,212	1,603	1,198	
			1,5	SLS (200)	30,303	8,929	3,759	1,923	1,114	
			2,0	ULS,down	7,353	3,509	2,212	1,538	1,112	
			2,0	ULS,up	8,403	4,274	2,959	2,092	1,563	
			2,0	SLS (200)	40,000	11,905	5,025	2,571	1,486	
			2,5	ULS,down	9,091	4,255	2,660	1,852	1,340	
			2,5	ULS,up	10,417	5,155	3,521	2,506	1,873	
			2,5	SLS (200)	50,000	14,925	6,250	3,205	1,855	
C150	42/48	Triple-span	1,0	ULS,down	3,226	1,383	0,835			
			1,0	ULS,up	3,226	1,575	1,005			
			1,0	SLS (200)	15,152	4,464	1,883			
			1,2	ULS,down	4,348	1,916	1,178			
			1,2	ULS,up	4,219	2,151	1,429			
			1,2	SLS (200)	19,231	5,650	2,381			
			1,5	ULS,down	5,917	2,646	1,650			
			1,5	ULS,up	5,650	2,959	2,024			
			1,5	SLS (200)	23,810	7,092	2,985			
			2,0	ULS,down	8,000	3,521	2,183			
			2,0	ULS,up	7,576	3,953	2,717			
			2,0	SLS (200)	32,258	9,434	3,984			
			2,5	ULS,down	9,804	4,219	2,584			
			2,5	ULS,up	9,346	4,785	3,236			
			2,5	SLS (200)	40,000	11,765	4,975			
C150	42/48	Continuous 6-span beam sleeve: 10-10%	1,0	ULS,down	3,058	1,323	0,797	0,541	0,389	0,291
			1,0	ULS,up	3,300	1,603	1,027	0,719	0,519	0,383
			1,0	SLS (200)	15,873	4,695	1,976	1,012	0,586	0,369
			1,2	ULS,down	4,132	1,835	1,127	0,775	0,561	0,422
			1,2	ULS,up	4,329	2,188	1,458	1,049	0,769	0,571
			1,2	SLS (200)	20,000	5,917	2,500	1,280	0,741	0,467
			1,5	ULS,down	5,618	2,538	1,582	1,099	0,801	0,605
			1,5	ULS,up	5,747	3,003	2,066	1,517	1,124	0,839
			1,5	SLS (200)	25,000	7,407	3,135	1,605	0,929	0,585
			2,0	ULS,down	7,576	3,367	2,096	1,460	1,068	0,808
			2,0	ULS,up	7,752	4,016	2,770	2,049	1,524	1,143
			2,0	SLS (200)	33,333	9,901	4,184	2,141	1,239	0,781
			2,5	ULS,down	9,346	4,032	2,481	1,727	1,266	0,960
			2,5	ULS,up	9,524	4,854	3,300	2,433	1,818	1,368
			2,5	SLS (200)	41,667	12,346	5,208	2,674	1,546	0,974

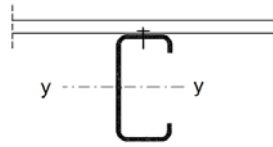
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					3,00	4,00	5,00	6,00	7,00	8,00
C180ECO	52/58	Single-span	1,2	ULS,down	3,125	1,972	1,381	1,032	0,764	0,585
			1,2	ULS,up	1,563	0,983	0,694	0,505	0,376	0,286
			1,2	SLS (200)	4,878	2,062	1,055	0,611	0,384	0,258
			1,5	ULS,down	4,310	2,717	1,901	1,420	1,110	0,873
			1,5	ULS,up	2,208	1,441	1,042	0,767	0,575	0,439
			1,5	SLS (200)	6,410	2,710	1,387	0,802	0,505	0,338
			2,0	ULS,down	6,173	3,891	2,725	2,037	1,592	1,285
			2,0	ULS,up	3,175	2,119	1,563	1,170	0,883	0,678
			2,0	SLS (200)	8,547	3,623	1,855	1,073	0,676	0,452
			2,5	ULS,down	7,576	4,785	3,356	2,500	1,957	1,580
			2,5	ULS,up	3,922	2,584	1,912	1,441	1,093	0,840
			2,5	SLS (200)	10,753	4,525	2,315	1,340	0,845	0,566
C180ECO	52/58	Double-span	1,2	ULS,down	2,353	1,376	0,928	0,669		
			1,2	ULS,up	2,825	1,704	1,206	0,909		
			1,2	SLS (200)	11,765	4,975	2,545	1,471		
			1,5	ULS,down	3,289	1,957	1,340	0,978		
			1,5	ULS,up	3,876	2,415	1,761	1,357		
			1,5	SLS (200)	15,385	6,536	3,344	1,934		
			2,0	ULS,down	4,762	2,849	1,976	1,458		
			2,0	ULS,up	5,525	3,484	2,584	2,033		
			2,0	SLS (200)	20,833	8,696	4,464	2,584		
			2,5	ULS,down	5,988	3,534	2,445	1,805		
			2,5	ULS,up	6,897	4,292	3,165	2,488		
			2,5	SLS (200)	25,641	10,870	5,587	3,236		
C180ECO	52/58	Triple-span	1,2	ULS,down	2,347	1,332				
			1,2	ULS,up	2,558	1,563				
			1,2	SLS (200)	9,346	3,937				
			1,5	ULS,down	3,322	1,916				
			1,5	ULS,up	3,534	2,227				
			1,5	SLS (200)	12,346	5,181				
			2,0	ULS,down	4,831	2,786				
			2,0	ULS,up	5,025	3,226				
			2,0	SLS (200)	16,393	6,944				
			2,5	ULS,down	6,024	3,413				
			2,5	ULS,up	6,250	3,968				
			2,5	SLS (200)	20,408	8,696				
C180ECO	52/58	Continuous 6-span beam sleeve: 10-10%	1,2	ULS,down	2,237	1,272	0,858	0,623	0,472	0,368
			1,2	ULS,up	2,611	1,592	1,119	0,833	0,635	0,492
			1,2	SLS (200)	9,804	4,132	2,119	1,227	0,773	0,518
			1,5	ULS,down	3,175	1,832	1,250	0,917	0,698	0,547
			1,5	ULS,up	3,597	2,268	1,639	1,245	0,962	0,750
			1,5	SLS (200)	12,821	5,435	2,786	1,613	1,015	0,680
			2,0	ULS,down	4,608	2,667	1,832	1,355	1,040	0,818
			2,0	ULS,up	5,128	3,279	2,415	1,869	1,464	1,152
			2,0	SLS (200)	17,241	7,299	3,731	2,155	1,359	0,910
			2,5	ULS,down	5,747	3,268	2,232	1,653	1,271	1,003
			2,5	ULS,up	6,369	4,032	2,959	2,299	1,805	1,427
			2,5	SLS (200)	21,739	9,091	4,651	2,695	1,698	1,136

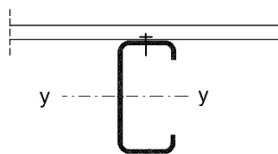
Terhelési táblázatok (kN/m²)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					3,00	4,00	5,00	6,00	7,00	8,00
C180	66/74	Single-span	1,2	ULS,down	3,067	1,934	1,353	1,011	0,745	0,570
			1,2	ULS,up	1,582	0,959	0,681	0,511	0,391	0,304
			1,2	SLS (200)	5,076	2,146	1,099	0,636	0,400	0,268
			1,5	ULS,down	4,348	2,747	1,923	1,437	1,124	0,885
			1,5	ULS,up	2,242	1,416	1,041	0,799	0,619	0,485
			1,5	SLS (200)	7,194	3,030	1,553	0,898	0,566	0,379
			2,0	ULS,down	6,579	4,149	2,907	2,169	1,698	1,370
			2,0	ULS,up	3,311	2,141	1,621	1,276	1,008	0,798
			2,0	SLS (200)	10,000	4,202	2,151	1,244	0,784	0,525
			2,5	ULS,down	8,264	5,208	3,636	2,717	2,128	1,715
			2,5	ULS,up	4,167	2,667	2,020	1,600	1,274	1,014
			2,5	SLS (200)	12,500	5,236	2,688	1,555	0,979	0,656
C180	66/74	Double-span	1,2	ULS,down	2,381	1,364	0,914	0,665		
			1,2	ULS,up	2,882	1,681	1,164	0,883		
			1,2	SLS (200)	12,195	5,181	2,646	1,534		
			1,5	ULS,down	3,401	1,976	1,348	0,996		
			1,5	ULS,up	4,000	2,392	1,712	1,339		
			1,5	SLS (200)	17,241	7,299	3,745	2,169		
			2,0	ULS,down	5,102	2,985	2,062	1,546		
			2,0	ULS,up	5,814	3,534	2,577	2,070		
			2,0	SLS (200)	23,810	10,101	5,181	3,003		
			2,5	ULS,down	6,494	3,788	2,597	1,949		
			2,5	ULS,up	7,353	4,444	3,215	2,577		
			2,5	SLS (200)	30,303	12,658	6,494	3,745		
C180	66/74	Triple-span	1,2	ULS,down	2,538	1,376				
			1,2	ULS,up	2,577	1,534				
			1,2	SLS (200)	9,709	4,115				
			1,5	ULS,down	3,663	2,016				
			1,5	ULS,up	3,584	2,198				
			1,5	SLS (200)	13,699	5,814				
			2,0	ULS,down	5,556	3,058				
			2,0	ULS,up	5,236	3,257				
			2,0	SLS (200)	19,231	8,065				
			2,5	ULS,down	7,092	3,846				
			2,5	ULS,up	6,623	4,082				
			2,5	SLS (200)	23,810	10,000				
C180	66/74	Continuous 6-span beam sleeve: 10-10%	1,2	ULS,down	2,410	1,312	0,870	0,634	0,484	0,381
			1,2	ULS,up	2,639	1,563	1,086	0,818	0,639	0,508
			1,2	SLS (200)	10,204	4,310	2,208	1,277	0,805	0,539
			1,5	ULS,down	3,484	1,927	1,297	0,956	0,737	0,584
			1,5	ULS,up	3,676	2,237	1,605	1,244	0,992	0,799
			1,5	SLS (200)	14,493	6,098	3,125	1,805	1,138	0,762
			2,0	ULS,down	5,263	2,933	1,984	1,447	1,152	0,923
			2,0	ULS,up	5,348	3,311	2,433	1,934	1,577	1,294
			2,0	SLS (200)	20,000	8,475	4,329	2,500	1,575	1,055
			2,5	ULS,down	6,711	3,676	2,475	1,842	1,439	1,155
			2,5	ULS,up	6,757	4,149	3,040	2,415	1,984	1,637
			2,5	SLS (200)	25,000	10,526	5,405	3,125	1,969	1,318

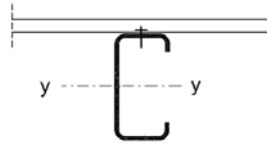
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					3,00	4,00	5,00	6,00	7,00	8,00
C200ECO	42/48	Single-span	1,2	ULS,down	3,356	2,119	1,481	1,107	0,834	0,639
			1,2	ULS,up	1,618	0,981	0,663	0,468	0,341	0,256
			1,2	SLS (200)	5,587	2,364	1,209	0,700	0,441	0,295
			1,5	ULS,down	4,525	2,849	1,996	1,490	1,164	0,926
			1,5	ULS,up	2,283	1,427	0,979	0,695	0,508	0,383
			1,5	SLS (200)	7,299	3,086	1,582	0,915	0,576	0,386
			2,0	ULS,down	6,455	4,082	2,857	2,132	1,667	1,348
			2,0	ULS,up	3,322	2,123	1,481	1,063	0,782	0,590
			2,0	SLS (200)	9,901	4,184	2,141	1,241	0,781	0,523
			2,5	ULS,down	7,813	4,926	3,448	2,571	2,008	1,623
			2,5	ULS,up	4,049	2,558	1,786	1,285	0,946	0,716
			2,5	SLS (200)	12,346	5,236	2,681	1,553	0,978	0,655
C200ECO	42/48	Double-span	1,2	ULS,down	2,551	1,451	0,953	0,669		
			1,2	ULS,up	3,067	1,792	1,220	0,881		
			1,2	SLS (200)	13,514	5,682	2,915	1,686		
			1,5	ULS,down	3,546	2,049	1,362	0,964		
			1,5	ULS,up	4,202	2,532	1,767	1,297		
			1,5	SLS (200)	17,544	7,463	3,817	2,208		
			2,0	ULS,down	5,181	3,012	2,024	1,447		
			2,0	ULS,up	6,024	3,690	2,625	1,961		
			2,0	SLS (200)	23,810	10,101	5,155	2,994		
			2,5	ULS,down	6,410	3,690	2,463	1,761		
			2,5	ULS,up	7,463	4,505	3,175	2,364		
			2,5	SLS (200)	30,303	12,658	6,452	3,745		
C200ECO	42/48	Triple-span	1,2	ULS,down	2,320	1,305				
			1,2	ULS,up	2,778	1,629				
			1,2	SLS (200)	10,753	4,525				
			1,5	ULS,down	3,268	1,866				
			1,5	ULS,up	3,817	2,315				
			1,5	SLS (200)	14,085	5,917				
			2,0	ULS,down	4,785	2,732				
			2,0	ULS,up	5,495	3,390				
			2,0	SLS (200)	18,868	8,000				
			2,5	ULS,down	5,848	3,289				
			2,5	ULS,up	6,803	4,132				
			2,5	SLS (200)	23,810	10,000				
C200ECO	42/48	Continuous 6-span beam sleeve: 10-10%	1,2	ULS,down	2,208	1,245	0,827	0,591	0,442	0,341
			1,2	ULS,up	2,833	1,664	1,122	0,803	0,594	0,450
			1,2	SLS (200)	11,236	4,739	2,433	1,406	0,886	0,593
			1,5	ULS,down	3,115	1,783	1,193	0,858	0,644	0,499
			1,5	ULS,up	3,891	2,364	1,629	1,182	0,881	0,670
			1,5	SLS (200)	14,706	6,211	3,175	1,838	1,159	0,776
			2,0	ULS,down	4,566	2,618	1,764	1,277	0,963	0,749
			2,0	ULS,up	5,618	3,460	2,427	1,789	1,346	1,030
			2,0	SLS (200)	20,000	8,403	4,310	2,494	1,570	1,052
			2,5	ULS,down	5,587	3,145	2,114	1,529	1,155	0,898
			2,5	ULS,up	6,897	4,202	2,941	2,165	1,631	1,250
			2,5	SLS (200)	25,000	10,526	5,376	3,115	1,965	1,316

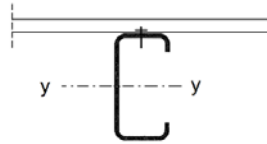
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					3,00	4,00	5,00	6,00	7,00	8,00
C200	66/74	Single-span	1,2	ULS,down	3,571	2,252	1,575	1,176	0,900	0,689
			1,2	ULS,up	1,862	1,078	0,746	0,558	0,430	0,336
			1,2	SLS (200)	6,897	2,907	1,490	0,862	0,543	0,364
			1,5	ULS,down	5,025	3,165	2,217	1,656	1,294	1,045
			1,5	ULS,up	2,611	1,570	1,125	0,862	0,673	0,531
			1,5	SLS (200)	9,615	4,049	2,075	1,202	0,756	0,507
			2,0	ULS,down	7,576	4,785	3,356	2,506	1,957	1,580
			2,0	ULS,up	3,846	2,370	1,745	1,372	1,092	0,873
			2,0	SLS (200)	13,158	5,525	2,825	1,634	1,030	0,690
			2,5	ULS,down	9,615	6,061	4,237	3,165	2,469	1,996
			2,5	ULS,up	4,878	2,985	2,193	1,730	1,389	1,117
			2,5	SLS (200)	16,393	6,897	3,534	2,041	1,287	0,862
C200	66/74	Double-span	1,2	ULS,down	2,849	1,600	1,052	0,759		
			1,2	ULS,up	3,448	1,961	1,314	0,977		
			1,2	SLS (200)	16,667	6,993	3,597	2,079		
			1,5	ULS,down	4,032	2,294	1,531	1,122		
			1,5	ULS,up	4,739	2,755	1,901	1,456		
			1,5	SLS (200)	23,256	9,804	5,000	2,899		
			2,0	ULS,down	6,061	3,472	2,342	1,739		
			2,0	ULS,up	6,897	4,065	2,865	2,242		
			2,0	SLS (200)	31,250	13,333	6,803	3,937		
			2,5	ULS,down	7,752	4,425	2,976	2,208		
			2,5	ULS,up	8,772	5,155	3,597	2,817		
			2,5	SLS (200)	40,000	16,667	8,547	4,926		
C200	66/74	Continuous 6-span beam sleeve: 10-10%	1,2	ULS,down	2,890	1,504	0,973	0,701	0,535	0,421
			1,2	ULS,up	3,145	1,812	1,224	0,908	0,706	0,562
			1,2	SLS (200)	13,889	5,848	2,994	1,733	1,092	0,731
			1,5	ULS,down	4,132	2,193	1,439	1,049	0,808	0,641
			1,5	ULS,up	4,329	2,564	1,783	1,359	1,080	0,873
			1,5	SLS (200)	19,231	8,130	4,167	2,415	1,520	1,018
			2,0	ULS,down	6,289	3,344	2,208	1,626	1,263	1,012
			2,0	ULS,up	6,329	3,788	2,695	2,101	1,709	1,406
			2,0	SLS (200)	26,316	11,111	5,682	3,289	2,070	1,387
			2,5	ULS,down	8,065	4,255	2,777	2,041	1,587	1,276
			2,5	ULS,up	8,000	4,785	3,390	2,646	2,160	1,789
			2,5	SLS (200)	33,333	13,889	7,092	4,098	2,584	1,733

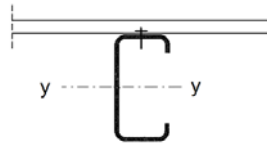
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					3,00	4,00	5,00	6,00	7,00	8,00
C220	66/74	Single-span	1,5	ULS,down	5,464	3,448	2,415	1,802	1,408	1,138
			1,5	ULS,up	2,941	1,698	1,175	0,887	0,691	0,545
			1,5	SLS (200)	11,905	5,025	2,577	1,490	0,938	0,629
			2,0	ULS,down	8,264	5,208	3,636	2,717	2,123	1,715
			2,0	ULS,up	4,348	2,564	1,825	1,410	1,119	0,894
			2,0	SLS (200)	16,393	6,944	3,559	2,058	1,297	0,869
			2,5	ULS,down	10,638	6,757	4,717	3,521	2,755	2,222
			2,5	ULS,up	5,618	3,300	2,342	1,825	1,460	1,176
			2,5	SLS (200)	20,408	8,696	4,444	2,577	1,621	1,086
			3,0	ULS,down	12,500	7,937	5,556	4,149	3,236	2,618
			3,0	ULS,up	6,711	3,891	2,732	2,114	1,695	1,370
			3,0	SLS (200)	24,390	10,417	5,319	3,086	1,942	1,300
C220	66/74	Double-span	1,5	ULS,down	4,587	2,571	1,681	1,214		
			1,5	ULS,up	5,435	3,086	2,066	1,538		
			1,5	SLS (200)	28,571	12,195	6,211	3,597		
			2,0	ULS,down	6,944	3,906	2,577	1,880		
			2,0	ULS,up	7,937	4,566	3,106	2,364		
			2,0	SLS (200)	40,000	16,667	8,547	4,975		
			2,5	ULS,down	9,009	5,076	3,344	2,445		
			2,5	ULS,up	10,204	5,882	3,984	3,040		
			2,5	SLS (200)	50,000	20,833	10,753	6,211		
			3,0	ULS,down	10,870	6,098	3,984	2,882		
			3,0	ULS,up	12,346	6,993	4,717	3,559		
			3,0	SLS (200)	58,824	25,000	12,821	7,407		
C220	66/74	Triple-span	1,5	ULS,down	4,950	2,525				
			1,5	ULS,up	4,831	2,793				
			1,5	SLS (200)	22,727	9,615				
			2,0	ULS,down	7,576	3,876				
			2,0	ULS,up	7,092	4,149				
			2,0	SLS (200)	31,250	13,333				
			2,5	ULS,down	9,901	5,051				
			2,5	ULS,up	9,091	5,348				
			2,5	SLS (200)	40,000	16,667				
			3,0	ULS,down	11,905	6,024				
			3,0	ULS,up	10,870	6,329				
			3,0	SLS (200)	47,619	20,000				
C220	66/74	Continuous 6-span beam sleeve: 10-10%	1,5	ULS,down	4,695	2,404	1,534	1,101	0,841	0,665
			1,5	ULS,up	4,950	2,849	1,927	1,435	1,124	0,903
			1,5	SLS (200)	23,810	10,101	5,181	2,994	1,887	1,263
			2,0	ULS,down	7,143	3,690	2,364	1,712	1,318	1,052
			2,0	ULS,up	7,246	4,237	2,915	2,217	1,776	1,451
			2,0	SLS (200)	33,333	13,889	7,143	4,132	2,604	1,745
			2,5	ULS,down	9,434	4,808	3,049	2,208	1,701	1,361
			2,5	ULS,up	9,346	5,435	3,745	2,857	2,299	1,894
			2,5	SLS (200)	41,667	17,544	8,929	5,181	3,257	2,183
			3,0	ULS,down	11,364	5,714	3,584	2,564	1,972	1,577
			3,0	ULS,up	11,236	6,494	4,425	3,344	2,681	2,208
			3,0	SLS (200)	50,000	20,833	10,753	6,211	3,906	2,611

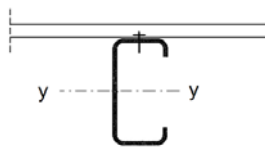
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					4,00	5,00	6,00	7,00	8,00	9,00
C250	66/74	Single-span	1,5	ULS,down	3,876	2,710	2,024	1,580	1,277	1,057
			1,5	ULS,up	1,908	1,261	0,926	0,713	0,562	0,449
			1,5	SLS (200)	6,711	3,448	1,992	1,255	0,840	0,590
			2,0	ULS,down	5,814	4,082	3,040	2,381	1,919	1,590
			2,0	ULS,up	2,899	1,957	1,471	1,153	0,921	0,742
			2,0	SLS (200)	9,524	4,854	2,817	1,773	1,186	0,833
			2,5	ULS,down	7,752	5,435	4,049	3,165	2,558	2,119
			2,5	ULS,up	3,817	2,591	1,957	1,550	1,250	1,015
			2,5	SLS (200)	11,905	6,098	3,521	2,217	1,486	1,043
			3,0	ULS,down	9,174	6,452	4,808	3,759	3,030	2,513
			3,0	ULS,up	4,545	3,049	2,294	1,815	1,466	1,193
			3,0	SLS (200)	14,286	7,299	4,219	2,660	1,779	1,250
C250	66/74	Double-span	1,5	ULS,down	3,021	1,923	1,355			
			1,5	ULS,up	3,636	2,342	1,678			
			1,5	SLS (200)	16,129	8,333	4,808			
			2,0	ULS,down	4,608	2,959	2,105			
			2,0	ULS,up	5,376	3,534	2,584			
			2,0	SLS (200)	22,727	11,765	6,803			
			2,5	ULS,down	6,173	3,953	2,817			
			2,5	ULS,up	7,092	4,630	3,401			
			2,5	SLS (200)	28,571	14,706	8,475			
			3,0	ULS,down	7,407	4,739	3,356			
			3,0	ULS,up	8,475	5,525	4,016			
			3,0	SLS (200)	34,483	17,544	10,204			
C250	66/74	Triple-span	1,5	ULS,down	2,890					
			1,5	ULS,up	3,257					
			1,5	SLS (200)	12,821					
			2,0	ULS,down	4,464					
			2,0	ULS,up	4,854					
			2,0	SLS (200)	18,182					
			2,5	ULS,down	6,024					
			2,5	ULS,up	6,369					
			2,5	SLS (200)	22,727					
			3,0	ULS,down	7,246					
			3,0	ULS,up	7,634					
			3,0	SLS (200)	27,027					
C250	66/74	Continuous 6-span beam sleeve: 10-10%	1,5	ULS,down	2,747	1,669	1,172	0,884	0,695	0,561
			1,5	ULS,up	3,333	2,169	1,563	1,195	0,947	0,766
			1,5	SLS (200)	13,514	6,897	4,000	2,519	1,689	1,186
			2,0	ULS,down	4,255	2,597	1,835	1,393	1,103	0,894
			2,0	ULS,up	4,950	3,289	2,415	1,887	1,520	1,245
			2,0	SLS (200)	19,231	9,804	5,650	3,559	2,387	1,675
			2,5	ULS,down	5,714	3,460	2,439	1,855	1,471	1,199
			2,5	ULS,up	6,494	4,329	3,195	2,513	2,041	1,686
			2,5	SLS (200)	23,810	12,195	7,092	4,464	2,985	2,096
			3,0	ULS,down	6,897	4,098	2,865	2,169	1,718	1,401
			3,0	ULS,up	7,813	5,155	3,774	2,950	2,398	1,984
			3,0	SLS (200)	28,571	14,706	8,475	5,348	3,571	2,513

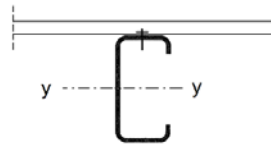
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)					
					5,00	6,00	7,00	8,00	9,00	10,00
C300	86/94	Single-span	2,0	ULS,down	4,808	3,584	2,801	2,262	1,876	1,585
			2,0	ULS,up	2,404	1,684	1,282	1,022	0,837	0,694
			2,0	SLS (200)	8,264	4,808	3,021	2,024	1,422	1,037
			2,5	ULS,down	6,623	4,926	3,861	3,115	2,577	2,179
			2,5	ULS,up	3,279	2,309	1,773	1,429	1,179	0,987
			2,5	SLS (200)	10,870	6,289	3,953	2,653	1,862	1,357
			3,0	ULS,down	8,403	6,289	4,902	3,968	3,289	2,778
			3,0	ULS,up	4,115	2,899	2,227	1,799	1,495	1,259
			3,0	SLS (200)	12,987	7,519	4,739	3,175	2,232	1,629
			4,0	ULS,down	11,111	8,333	6,536	5,263	4,367	3,676
			4,0	ULS,up	5,495	3,802	2,874	2,304	1,912	1,613
			4,0	SLS (200)	17,544	10,101	6,369	4,255	2,985	2,179
C300	86/94	Double-span	2,0	ULS,down	3,891	2,660				
			2,0	ULS,up	4,608	3,195				
			2,0	SLS (200)	20,000	11,628				
			2,5	ULS,down	5,376	3,690				
			2,5	ULS,up	6,211	4,329				
			2,5	SLS (200)	26,316	15,152				
			3,0	ULS,down	6,849	4,695				
			3,0	ULS,up	7,813	5,405				
			3,0	SLS (200)	31,250	18,182				
			4,0	ULS,down	9,259	6,329				
			4,0	ULS,up	10,526	7,246				
			4,0	SLS (200)	41,667	24,390				
C300	86/94	Continuous 6-span beam sleeve: 10-10%	2,0	ULS,down	3,534	2,278	1,650	1,277	1,028	0,849
			2,0	ULS,up	4,237	2,950	2,208	1,733	1,410	1,174
			2,0	SLS (200)	16,667	9,615	6,061	4,065	2,857	2,083
			2,5	ULS,down	4,926	3,175	2,294	1,773	1,431	1,185
			2,5	ULS,up	5,714	4,000	3,012	2,387	1,961	1,645
			2,5	SLS (200)	21,739	12,658	7,937	5,319	3,745	2,725
			3,0	ULS,down	6,369	4,049	2,907	2,242	1,808	1,497
			3,0	ULS,up	7,143	5,025	3,774	3,003	2,469	2,083
			3,0	SLS (200)	26,316	15,152	9,524	6,410	4,484	3,268
			4,0	ULS,down	8,696	5,405	3,788	2,890	2,315	1,916
			4,0	ULS,up	9,615	6,667	4,975	3,906	3,195	2,681
			4,0	SLS (200)	34,483	20,408	12,821	8,547	5,988	4,386

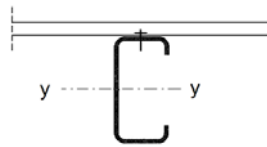
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)						
					6,00	7,00	8,00	9,00	10,00	11,00	12,00
C350	96/104	Single-span	2,5	ULS,down	5,525	4,329	3,497	2,890	2,445	2,096	1,825
			2,5	ULS,up	2,695	1,969	1,534	1,244	1,034	0,872	0,743
			2,5	SLS (200)	9,346	5,848	3,922	2,762	2,012	1,511	1,164
			3,0	ULS,down	7,194	5,587	4,525	3,745	3,165	2,717	2,364
			3,0	ULS,up	3,460	2,525	1,972	1,605	1,340	1,138	0,974
			3,0	SLS (200)	11,494	7,246	4,854	3,413	2,488	1,866	1,439
			4,0	ULS,down	10,101	7,874	6,369	5,291	4,464	3,831	3,333
			4,0	ULS,up	4,808	3,497	2,703	2,193	1,835	1,550	1,326
			4,0	SLS (200)	15,385	9,709	6,494	4,566	3,333	2,500	1,927
C350	96/104	Continuous 6-span beam sleeve: 10-10%	2,5	ULS,down	3,891	2,646	1,972	1,555	1,272	1,065	0,906
			2,5	ULS,up	4,878	3,546	2,725	2,174	1,786	1,502	1,279
			2,5	SLS (200)	18,868	11,765	7,874	5,556	4,049	3,040	2,342
			3,0	ULS,down	5,128	3,460	2,558	2,012	1,645	1,377	1,174
			3,0	ULS,up	6,211	4,525	3,484	2,793	2,304	1,942	1,664
			3,0	SLS (200)	23,256	14,493	9,709	6,849	5,000	3,759	2,890
			4,0	ULS,down	7,407	4,926	3,571	2,778	2,252	1,876	1,595
			4,0	ULS,up	8,621	6,289	4,831	3,846	3,165	2,674	2,294
			4,0	SLS (200)	31,250	19,608	13,158	9,174	6,711	5,025	3,876

Option: Bottom flange is supported laterally in the middle span by anti-sag bar

Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)						
					6,00	7,00	8,00	9,00	10,00	11,00	12,00
C350	96/104	Single-span	2,5	ULS,down	5,525	4,329	3,497	2,890	2,445	2,096	1,825
			2,5	ULS,up	4,505	3,096	2,188	1,587	1,186	0,912	0,722
			2,5	SLS (200)	9,346	5,848	3,922	2,762	2,012	1,511	1,164
			3,0	ULS,down	7,194	5,587	4,525	3,745	3,165	2,717	2,364
			3,0	ULS,up	5,952	4,098	2,899	2,110	1,577	1,211	0,957
			3,0	SLS (200)	11,494	7,246	4,854	3,413	2,488	1,866	1,439
			4,0	ULS,down	10,101	7,874	6,369	5,291	4,464	3,831	3,333
			4,0	ULS,up	8,772	6,061	4,310	3,135	2,336	1,789	1,403
			4,0	SLS (200)	15,385	9,709	6,494	4,566	3,333	2,500	1,927
C350	96/104	Continuous 6-span beam sleeve: 10-10%	2,5	ULS,down	6,369	4,975	4,032	3,106	2,358	1,825	1,441
			2,5	ULS,up	6,369	4,673	3,344	2,451	1,848	1,431	1,140
			2,5	SLS (200)	18,868	11,765	7,874	5,556	4,049	3,040	2,342
			3,0	ULS,down	8,264	6,452	5,208	4,219	3,205	2,475	1,949
			3,0	ULS,up	8,264	6,098	4,386	3,226	2,433	1,883	1,499
			3,0	SLS (200)	23,256	14,493	9,709	6,849	5,000	3,759	2,890
			4,0	ULS,down	11,628	9,091	7,353	6,098	4,831	3,717	2,915
			4,0	ULS,up	11,628	9,009	6,452	4,739	3,584	2,762	2,188
			4,0	SLS (200)	31,250	19,608	13,158	9,174	6,711	5,025	3,876

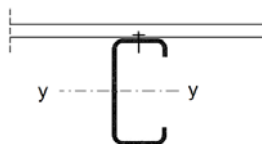
Load Tables (kN/m)

Lateral supports:

- Top flange: continuously supported (screws c/c 333mm)
- Bottom flange: free

Support: with sheared bolts, no lay down

Deflection limit: L/200



Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)						
					6,00	7,00	8,00	9,00	10,00	11,00	12,00
C400	110/118	Single-span	3,0	ULS,down	7,874	6,173	4,975	4,132	3,484	2,994	2,604
			3,0	ULS,up	4,202	2,950	2,217	1,751	1,435	1,205	1,026
			3,0	SLS (200)	16,393	10,309	6,897	4,854	3,534	2,660	2,045
			4,0	ULS,down	11,905	9,259	7,519	6,211	5,236	4,505	3,922
			4,0	ULS,up	6,173	4,348	3,257	2,571	2,105	1,761	1,502
			4,0	SLS (200)	22,727	14,286	9,615	6,711	4,902	3,690	2,841
C400	110/118	Continuous 6-span beam sleeve: 10-10%	3,0	ULS,down	6,579	4,274	3,003	2,268	1,808	1,493	1,261
			3,0	ULS,up	7,576	5,464	4,098	3,205	2,591	2,146	1,812
			3,0	SLS (200)	33,333	20,833	13,889	9,709	7,092	5,348	4,115
			4,0	ULS,down	10,101	6,623	4,587	3,413	2,674	2,183	1,838
			4,0	ULS,up	11,111	8,000	6,024	4,695	3,802	3,155	2,674
			4,0	SLS (200)	45,455	28,571	19,231	13,514	9,901	7,407	5,714

Option: Bottom flange is supported laterally in the middle span by anti-sag bar

Profile	Flange sizes	Static system	t1 (mm)	Row	Span (m)						
					6,00	7,00	8,00	9,00	10,00	11,00	12,00
C400	110/118	Single-span	3,0	ULS,down	7,874	6,173	4,975	4,132	3,484	2,994	2,604
			3,0	ULS,up	7,194	5,025	3,610	2,653	1,984	1,517	1,185
			3,0	SLS (200)	16,393	10,309	6,897	4,854	3,534	2,660	2,045
			4,0	ULS,down	11,905	9,259	7,519	6,211	5,236	4,505	3,922
			4,0	ULS,up	11,236	7,813	5,650	4,167	3,135	2,404	1,873
			4,0	SLS (200)	22,727	14,286	9,615	6,711	4,902	3,690	2,841
C400	110/118	Continuous 6-span beam sleeve: 10-10%	3,0	ULS,down	9,091	7,092	5,747	4,762	3,937	3,067	2,421
			3,0	ULS,up	9,091	7,092	5,435	4,032	3,049	2,353	1,852
			3,0	SLS (200)	33,333	20,833	13,889	9,709	7,092	5,348	4,115
			4,0	ULS,down	13,699	10,753	8,621	7,143	6,061	5,000	3,937
			4,0	ULS,up	13,699	10,753	8,403	6,250	4,739	3,663	2,890
			4,0	SLS (200)	45,455	28,571	19,231	13,514	9,901	7,407	5,714