



# Trapezoidal metal sheet

## T-18



### Product data sheet



scan the QR code  
and see a 3D model

619



T: +48 18 26 85 200  
F: +48 18 26 85 215



34-700 Rabka-Zdrój  
ul. Kilińskiego 49a



biuro@blachotrapez.eu  
www.blachotrapez.eu



## General information

Trapezoidal metal sheet is unique thanks to its simplicity and expressive form. It allows making effective structures which often differ from the traditional division on a roof and a façade.



## Advantages and properties

A wide range of sheet thickness, possibility to cut to size and rich colours create unlimited possibilities of its application. An important advantage of trapezoidal sheet is its rigidity and durability determined by profile height. For small and medium-sized buildings we recommend trapezoidal sheets with the following profiles: T8, T14 plus, T18, T18 plus, T20 plus, T35 plus, T50, T55. T50 and T55 sheets are used for large service facilities, e.g. production halls.



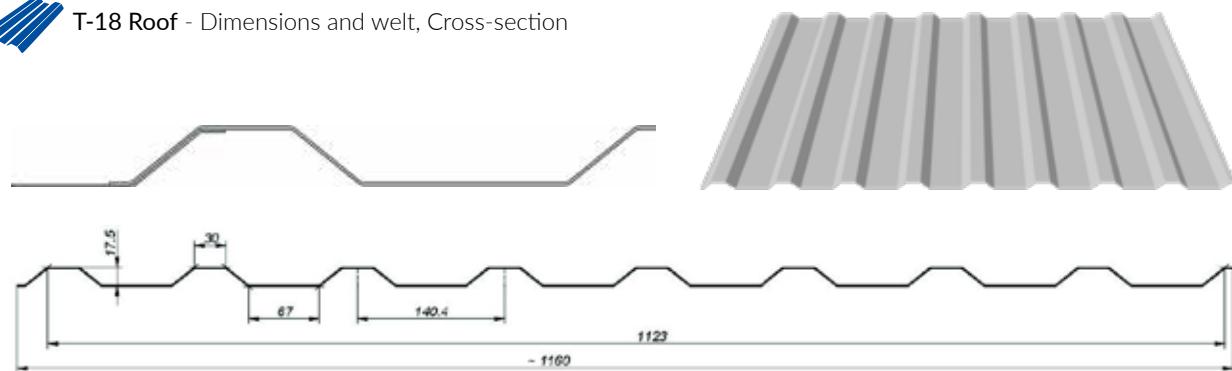
## Technical details

Total width:	<b>~1160 mm</b>	Pitch:	<b>140,4 mm</b>
Cover width:	<b>1123 mm</b>	Width of crown:	<b>30 mm</b>
Thickness of the finished product (steel):	<b>0,5-0,75 mm</b>	Width of valley:	<b>67 mm</b>
Thickness of the finished product (aluminium):	<b>0,6 mm</b>	Recommended length:	<b>max 10 mb *</b>
Depth of profile:	<b>17,5 mm</b>		

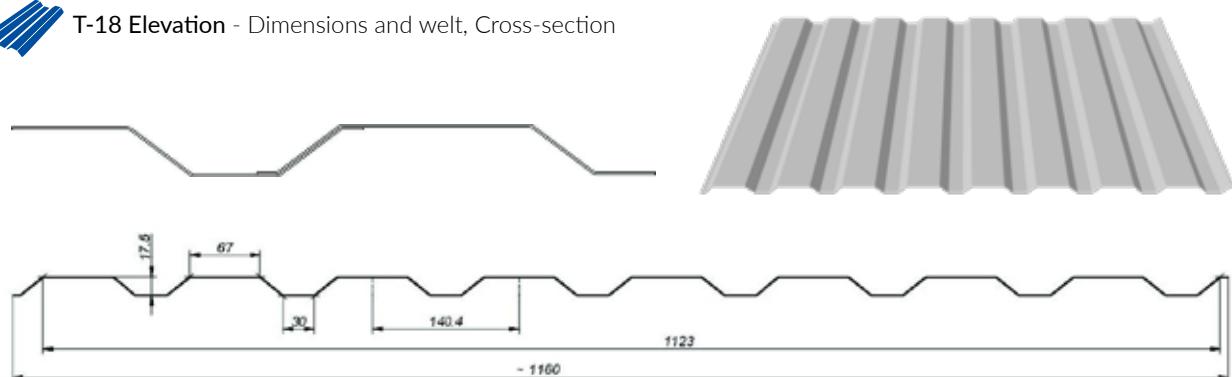
\* Blachotrapez is not responsible for mechanical damage caused during transport in sheets longer than the ones recommended in the Technical Specifications of the Profile. Ordering sheets longer than recommended increases the risk of damage during transport, processing and assembly. Sheets longer than recommended may be deformed. This is due to the production technology and the expansion of the material under the influence of temperature amplitude.



**T-18 Roof** - Dimensions and welt, Cross-section



**T-18 Elevation** - Dimensions and welt, Cross-section



## Application

Self-supporting T-18, trapezoidal sheets are delivered in the form of ready-made elements, and are used for wall and roof covering with a slope of not less than 9°. For Colorcoat HPS200Ultra® the minimum roof slope is 6°. These sheets are used as finishing and safety elements in buildings. Trapezoidal sheets must be used in accordance with technical projects of buildings, the manufacturer's installation instructions and recommendations, current standards, and technical and construction regulations.

The applied material has a wide range of applications due to the environmental classification, which is confirmed by a long warranty period depending on material (see the separate warranty form uploaded to our website [www.blachotrapez.eu](http://www.blachotrapez.eu))

## Research results / documentation

All of our products have a Declaration of Performance made on the basis of Standards and Regulations related to construction products in force. We also have Hygienic Certificate No. HK/B/0910/01/2014 issued in 2015 by the National Institute of Hygiene (PZH).

These documents are issued to implemented orders. In order to obtain them, please contact the Quality Control Department - the scheme of procedures is provided on our website.

In addition, all our trapezoidal profiles have load resistance tests performed in a Building Research Institute accredited laboratory.

We also have the results of load tables. The load tables and description are provided further in this product sheet.

## Additional information

For all types of profiles we have properly prepared instructions for transport, storage, cutting and maintenance of sheet metal. To familiarize yourself with the content, please visit [www.blachotrapez.eu](http://www.blachotrapez.eu) and contact our Technical and Trade Consultants or branches of our company - addresses can also be found on our website.

We also have numerous awards and certificates for both our raw materials and ready-made products, which you can read on our website [www.blachotrapez.eu](http://www.blachotrapez.eu)

## Load tables

Guidelines and comments on the load tables for profiled metal sheets. The load tables have been developed to be applied with the trapezoidal metal sheets produced by "BLACHOTRAPEZ" Company, which serve as single-span and continuous-span (two-span and three-span) beams. Alternative supports such as CLADDING (positive) or ROOFING (negative) have also been taken into account.

The results have been obtained on the basis of a static strength analysis of metal sheets, treated as thin-walled components, according to the algorithm developed by R.J. Garnarek, DSc, PhD, Eng, a professor of Bialystok University of Technology, in compliance with PN-EN 1993-1-3: August 2008 with further amendments, as well as PN-EN 1993-1-1and 1993-1-5.

Programmes by "KOTEX" Company [[www.kotex.waw.pl](http://www.kotex.waw.pl)] were used for calculations.

According to PN-EN 1993-1-3, the following assumptions were adopted for the calculations:

- resilient material with the yield point  $f_{yb}$  according to Table 3.1b.
- working coefficient for material  $\gamma_m = 1.0$ .

The tables contain the design loads for the ultimate limit state (ULS), expressing the permissible load bearing capacity, as well as characteristic loads for serviceability limit state (SLS), which correspond to the permissible deflections.

The permissible loads for the SLS were determined for the L/150, L/200 and L/300 deflections.

According to the standard, the value of 10 mm was adopted as the support width at the end support and at least 60 mm as the support width at the intermediate supports.

The following units were used in the tables:

- Sheet thickness	mm
- Cross section area (gross)	cm <sup>2</sup> /m
- Moments of inertia (effective, min/max)	cm <sup>4</sup> /m
- Span spreads	m
- Loads	kN/m <sup>2</sup>

Table 1 provides the ranges for the basic parameters for the metal sheets that have been analysed. The abbreviations R and F used in Table 1 stand for Roof and Façade respectively.

Table 1

Profile	Schemes	Thickness [mm]					L min	L max
		0,50	0,70	0,75	0,88	1,00	[m]	[m]
T-8	F	x					0,50	3,00
T-14+	R	x					0,50	3,00
T-18	R,F	x	x	x			0,50	3,00
T-18+	R,F	x	x	x			0,50	3,00
T-20+	R	x	x	x			0,50	4,00
T-35	R,F	x	x	x			1,00	5,00
T-35+	R,F	x	x	x			1,00	5,00
T-50	R,F	x	x	x	x	x	1,50	6,00
T-55	R,F	x	x	x	x	x	1,50	6,00

All the tables were developed for the S250, S280 and S320 steels. The span spreads values given in tables are changed every 0,25 m.

#### General recommendations

The design loads presented above shall be compared with the values contained in the tables – line 1, for a span length no shorter than the one adopted when designing the construction.

Linear interpolation can be used for the span spread L.

These tables can be used when the following conditions are met:

- the load on the adopted static schemes is a continuous uniformly distributed load
- the difference between the span lengths in multi-span schemes do not exceed 5%, in which case the longest span spread shall be adopted to determine ULS and SLS.
- the trapezoid profiles fastening method is compliant with the producer's manual.

In individual cases and depending on the nature of the problem, it is recommended to consult the producer's representative or the tables' authors.

T-18 ROOF												
S 250 GD				single-span beam								
Thickness	A <sub>gross</sub>	Mass	J <sub>x</sub> min/max	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,56 2,90	SGN	15,42	6,86	3,86	2,47	1,72	1,26	0,97	0,76
				SGU L/150	15,42	6,38	2,78	1,45	0,86	0,55	0,37	0,26
				SGU L/200	15,42	4,93	2,14	1,12	0,66	0,42	0,28	0,20
				SGU L/300	11,04	3,41	1,47	0,76	0,45	0,28	0,19	0,13
0,70	7,60	5,97	3,96 4,06	SGN	25,96	11,56	6,50	4,16	2,89	2,13	1,63	1,29
				SGU L/150	25,96	9,89	4,25	2,18	1,26	0,79	0,53	0,37
				SGU L/200	24,63	7,53	3,18	1,63	0,94	0,60	0,40	0,28
				SGU L/300	16,85	5,02	2,12	1,09	0,63	0,40	0,27	0,19
0,75	8,14	6,39	4,32 4,34	SGN	28,82	12,83	7,22	4,62	3,21	2,36	1,81	1,43
				SGU L/150	28,82	10,76	4,55	2,33	1,35	0,85	0,57	0,40
				SGU L/200	26,87	8,07	3,41	1,75	1,01	0,64	0,43	0,30
				SGU L/300	18,06	5,38	2,27	1,17	0,67	0,43	0,29	0,20
												0,15
												0,11
												0,08

T-18 ROOF												
S 250 GD				double-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,56 2,90	SGN	9,65	5,09	3,18	2,12	1,51	1,13	0,89	0,71
				SGU L/150	9,65	5,09	3,18	2,12	1,51	1,13	0,88	0,63
				SGU L/200	9,65	5,09	3,18	2,12	1,51	1,00	0,68	0,48
				SGU L/300	9,65	5,09	3,18	1,83	1,08	0,68	0,46	0,32
0,70	7,60	5,97	3,96 4,06	SGN	16,73	8,88	5,54	3,69	2,65	1,99	1,56	1,24
				SGU L/150	16,73	8,88	5,54	3,69	2,65	1,91	1,28	0,90
				SGU L/200	16,73	8,88	5,54	3,69	2,27	1,43	0,96	0,67
				SGU L/300	16,73	8,88	5,09	2,61	1,51	0,95	0,64	0,45
0,75	8,14	6,39	4,32 4,34	SGN	18,74	9,96	6,20	4,14	2,98	2,21	1,70	1,35
				SGU L/150	18,74	9,96	6,20	4,14	2,98	2,04	1,37	0,96
				SGU L/200	18,74	9,96	6,20	4,14	2,43	1,53	1,03	0,72
				SGU L/300	18,74	9,96	5,46	2,80	1,62	1,02	0,68	0,48

T-18 ROOF												
S 250 GD				three-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,56 2,90	SGN	11,62	6,17	3,87	2,62	1,87	1,41	1,10	0,88
				SGU L/150	11,62	6,17	3,87	2,62	1,59	1,02	0,69	0,49
				SGU L/200	11,62	6,17	3,87	2,07	1,22	0,78	0,53	0,38
				SGU L/300	11,62	5,94	2,61	1,38	0,81	0,52	0,35	0,25
0,70	7,60	5,97	3,96 4,06	SGN	20,14	10,76	6,77	4,57	3,28	2,47	1,94	1,54
				SGU L/150	20,14	10,76	6,77	4,11	2,38	1,50	1,01	0,71
				SGU L/200	20,14	10,76	6,01	3,08	1,79	1,12	0,75	0,53
				SGU L/300	20,14	9,23	4,01	2,06	1,19	0,75	0,50	0,35
0,75	8,14	6,39	4,32 4,34	SGN	22,56	12,07	7,62	5,13	3,69	2,76	2,13	1,69
				SGU L/150	22,56	12,07	7,62	4,40	2,55	1,61	1,08	0,76
				SGU L/200	22,56	12,07	6,44	3,30	1,91	1,21	0,81	0,57
				SGU L/300	22,56	10,05	4,29	2,20	1,28	0,80	0,54	0,38

T-18 ROOF												
S 280 GD				single-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,54 2,90	SGN	16,87	7,51	4,23	2,71	1,88	1,38	1,06	0,84
				SGU L/150	16,87	6,38	2,78	1,45	0,86	0,55	0,37	0,26
				SGU L/200	15,73	4,93	2,14	1,12	0,66	0,42	0,28	0,20
				SGU L/300	11,04	3,41	1,47	0,76	0,45	0,28	0,19	0,13
0,70	7,60	5,97	3,95 4,06	SGN	28,47	12,67	7,13	4,56	3,17	2,33	1,78	1,41
				SGU L/150	28,47	9,89	4,25	2,18	1,26	0,79	0,53	0,37
				SGU L/200	24,63	7,53	3,18	1,63	0,94	0,60	0,40	0,28
				SGU L/300	16,85	5,02	2,12	1,09	0,63	0,40	0,27	0,19
0,75	8,14	6,39	4,30 4,34	SGN	31,62	14,08	7,92	5,07	3,52	2,59	1,98	1,57
				SGU L/150	31,62	10,76	4,55	2,33	1,35	0,85	0,57	0,40
				SGU L/200	26,87	8,07	3,41	1,75	1,01	0,64	0,43	0,30
				SGU L/300	18,06	5,38	2,27	1,17	0,67	0,43	0,29	0,20

T-18 ROOF												
S 280 GD				double-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,54 2,90	SGN	10,45	5,52	3,45	2,31	1,65	1,24	0,96	0,77
				SGU L/150	10,45	5,52	3,45	2,31	1,65	1,24	0,88	0,63
				SGU L/200	10,45	5,52	3,45	2,31	1,55	1,00	0,68	0,48
				SGU L/300	10,45	5,52	3,45	1,83	1,08	0,68	0,46	0,32
0,70	7,60	5,97	3,95 4,06	SGN	18,10	9,61	6,02	4,02	2,88	2,17	1,69	1,36
				SGU L/150	18,10	9,61	6,02	4,02	2,88	1,91	1,28	0,90
				SGU L/200	18,10	9,61	6,02	3,92	2,27	1,43	0,96	0,67
				SGU L/300	18,10	9,61	5,09	2,61	1,51	0,95	0,64	0,45
0,75	8,14	6,39	4,30 4,34	SGN	20,27	10,78	6,76	4,51	3,23	2,44	1,89	1,50
				SGU L/150	20,27	10,78	6,76	4,51	3,23	2,04	1,37	1,02
				SGU L/200	20,27	10,78	6,76	4,20	2,43	1,53	1,03	0,72
				SGU L/300	20,27	10,78	5,46	2,80	1,62	1,02	0,68	0,48

T-18 ROOF												
S 280 GD				three-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,54 2,90	SGN	12,58	6,68	4,19	2,86	2,04	1,53	1,20	0,96
				SGU L/150	12,58	6,68	4,19	2,66	1,59	1,02	0,69	0,49
				SGU L/200	12,58	6,68	3,89	2,07	1,22	0,78	0,53	0,38
				SGU L/300	12,58	5,94	2,61	1,38	0,81	0,52	0,35	0,25
0,70	7,60	5,97	3,95 4,06	SGN	21,78	11,64	7,33	4,98	3,57	2,69	2,10	1,69
				SGU L/150	21,78	11,64	7,33	4,11	2,38	1,50	1,01	0,71
				SGU L/200	21,78	11,64	6,01	3,08	1,79	1,12	0,75	0,53
				SGU L/300	21,78	9,23	4,01	2,06	1,19	0,75	0,50	0,35
0,75	8,14	6,39	4,30 4,34	SGN	24,40	13,05	8,23	5,58	4,00	3,02	2,36	1,88
				SGU L/150	24,40	13,05	8,23	4,40	2,55	1,61	1,08	0,76
				SGU L/200	24,40	13,05	6,44	3,30	1,91	1,21	0,81	0,57
				SGU L/300	24,40	10,05	4,29	2,20	1,28	0,80	0,54	0,38

T-18 ROOF												
S 320 GD				single-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,53 2,88	SGN	18,75	8,35	4,70	3,01	2,09	1,53	1,18	0,93
				SGU L/150	18,75	6,38	2,78	1,45	0,86	0,55	0,37	0,26
				SGU L/200	15,73	4,93	2,14	1,12	0,66	0,42	0,28	0,20
				SGU L/300	11,04	3,41	1,47	0,76	0,45	0,28	0,19	0,13
0,70	7,60	5,97	3,76 4,06	SGN	31,70	14,11	7,94	5,08	3,53	2,59	1,99	1,57
				SGU L/150	31,53	9,89	4,25	2,18	1,26	0,79	0,53	0,37
				SGU L/200	24,63	7,53	3,18	1,63	0,94	0,60	0,40	0,28
				SGU L/300	16,85	5,02	2,12	1,09	0,63	0,40	0,27	0,19
0,75	8,14	6,39	4,11 4,34	SGN	35,25	15,69	8,83	5,65	3,93	2,89	2,21	1,75
				SGU L/150	34,49	10,76	4,55	2,33	1,35	0,85	0,57	0,40
				SGU L/200	26,87	8,07	3,41	1,75	1,01	0,64	0,43	0,30
				SGU L/300	18,06	5,38	2,27	1,17	0,67	0,43	0,29	0,20

T-18 ROOF												
S 320 GD				double-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,53 2,88	SGN	11,49	6,07	3,79	2,55	1,82	1,37	1,06	0,85
				SGU L/150	11,49	6,07	3,79	2,55	1,82	1,28	0,88	0,63
				SGU L/200	11,49	6,07	3,79	2,55	1,55	1,00	0,68	0,48
				SGU L/300	11,49	6,07	3,45	1,83	1,08	0,68	0,46	0,32
0,70	7,60	5,97	3,76 4,06	SGN	19,86	10,55	6,62	4,43	3,18	2,39	1,87	1,50
				SGU L/150	19,86	10,55	6,62	4,43	3,03	1,91	1,28	0,90
				SGU L/200	19,86	10,55	6,62	3,92	2,27	1,43	0,96	0,67
				SGU L/300	19,86	10,55	5,09	2,61	1,51	0,95	0,64	0,45
0,75	8,14	6,39	4,11 4,34	SGN	22,24	11,83	7,42	4,98	3,56	2,68	2,10	1,69
				SGU L/150	22,24	11,83	7,42	4,98	3,24	2,04	1,37	0,96
				SGU L/200	22,24	11,83	7,42	4,20	2,43	1,53	1,03	0,72
				SGU L/300	22,24	11,83	5,46	2,80	1,62	1,02	0,68	0,48

T-18 ROOF												
S 320 GD				three-span beam								
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]							
					0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25
0,50	5,43	4,26	2,53 2,88	SGN	13,82	7,35	4,61	3,17	2,26	1,70	1,32	1,06
				SGU L/150	13,82	7,35	4,61	2,66	1,59	1,02	0,69	0,49
				SGU L/200	13,82	7,35	3,89	2,07	1,22	0,78	0,53	0,38
				SGU L/300	13,82	5,94	2,61	1,38	0,81	0,52	0,35	0,25
0,70	7,60	5,97	3,76 4,06	SGN	23,89	12,77	8,04	5,50	3,94	2,97	2,32	1,86
				SGU L/150	23,89	12,77	7,77	4,11	2,38	1,50	1,01	0,71
				SGU L/200	23,89	12,77	6,01	3,08	1,79	1,12	0,75	0,53
				SGU L/300	23,89	9,23	4,01	2,06	1,19	0,75	0,50	0,35
0,75	8,14	6,39	4,11 4,34	SGN	26,75	14,32	9,03	6,17	4,42	3,33	2,60	2,09
				SGU L/150	26,75	14,32	8,49	4,40	2,55	1,61	1,08	0,76
				SGU L/200	26,75	14,32	6,44	3,30	1,91	1,21	0,81	0,57
				SGU L/300	26,75	10,05	4,29	2,20	1,28	0,80	0,54	0,38

T-18 ELEVATION															
S 250 GD				single-span beam											
Thickness	A <sub>gross</sub>	Mass	J <sub>x</sub> min/max	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
[mm]	[cm <sup>2</sup> /m]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]		0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	5,43	4,26	2,06 2,50	SGN	14,98	6,73	3,80	2,43	1,69	1,25	0,95	0,75	0,61	0,50	0,42
				SGU L/150	14,98	5,15	2,25	1,19	0,70	0,45	0,31	0,22	0,16	0,12	0,09
				SGU L/200	12,76	3,99	1,75	0,92	0,54	0,35	0,24	0,17	0,12	0,09	0,07
				SGU L/300	8,91	2,80	1,22	0,64	0,38	0,24	0,16	0,11	0,08	0,06	0,05
0,70	7,60	5,97	3,33 3,93	SGN	25,34	11,29	6,36	4,07	2,83	2,08	1,59	1,26	1,02	0,84	0,71
				SGU L/150	25,34	8,30	3,65	1,92	1,13	0,72	0,49	0,35	0,26	0,19	0,15
				SGU L/200	20,51	6,47	2,83	1,48	0,87	0,56	0,38	0,27	0,19	0,15	0,11
				SGU L/300	14,45	4,51	1,96	1,02	0,60	0,38	0,26	0,18	0,13	0,10	0,08
0,75	8,14	6,39	3,66 4,29	SGN	27,68	12,33	6,94	4,45	3,09	2,27	1,74	1,37	1,11	0,92	0,77
				SGU L/150	27,68	9,14	4,01	2,11	1,24	0,79	0,54	0,38	0,28	0,21	0,16
				SGU L/200	22,58	7,11	3,11	1,63	0,95	0,61	0,41	0,29	0,21	0,16	0,12
				SGU L/300	15,88	4,95	2,14	1,12	0,65	0,41	0,28	0,20	0,14	0,11	0,08

T-18 ELEVATION															
S 250 GD				double-span beam											
Thickness	A <sub>gross</sub>	Mass	J <sub>x</sub> min/max	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
[mm]	[cm <sup>2</sup> /m]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]		0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	5,43	4,26	2,06 2,50	SGN	11,49	5,90	3,60	2,41	1,68	1,24	0,95	0,76	0,61	0,51	0,43
				SGU L/150	11,49	5,90	3,60	2,41	1,68	1,09	0,75	0,53	0,40	0,30	0,23
				SGU L/200	11,49	5,90	3,60	2,23	1,33	0,85	0,58	0,42	0,31	0,23	0,18
				SGU L/300	11,49	5,90	2,96	1,57	0,93	0,60	0,41	0,29	0,21	0,16	0,12
0,70	7,60	5,97	3,33 3,93	SGN	19,88	10,15	6,17	4,06	2,84	2,09	1,61	1,27	1,03	0,86	0,72
				SGU L/150	19,88	10,15	6,17	4,06	2,73	1,76	1,20	0,85	0,63	0,48	0,37
				SGU L/200	19,88	10,15	6,17	3,59	2,13	1,36	0,92	0,66	0,48	0,36	0,28
				SGU L/300	19,88	10,15	4,75	2,50	1,47	0,94	0,63	0,45	0,33	0,25	0,19
0,75	8,14	6,39	3,66 4,29	SGN	22,20	11,32	6,88	4,51	3,15	2,32	1,78	1,41	1,15	0,95	0,80
				SGU L/150	22,20	11,32	6,88	4,51	3,00	1,93	1,31	0,93	0,69	0,52	0,40
				SGU L/200	22,20	11,32	6,88	3,94	2,33	1,49	1,01	0,72	0,53	0,40	0,30
				SGU L/300	22,20	11,32	5,21	2,74	1,61	1,02	0,68	0,48	0,35	0,26	0,20

T-18 ELEVATION															
S 250 GD				three-span beam											
Thickness	A <sub>gross</sub>	Mass	J <sub>x</sub> min/max	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
[mm]	[cm <sup>2</sup> /m]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]		0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	5,43	4,26	2,06 2,50	SGN	13,83	7,17	4,40	2,98	2,10	1,55	1,19	0,94	0,77	0,64	0,53
				SGU L/150	13,83	7,17	4,16	2,22	1,32	0,85	0,58	0,41	0,31	0,23	0,18
				SGU L/200	13,83	7,17	3,25	1,73	1,03	0,66	0,45	0,32	0,24	0,18	0,14
				SGU L/300	13,83	4,85	2,17	1,16	0,69	0,44	0,30	0,21	0,16	0,12	0,09
0,70	7,60	5,97	3,33 3,93	SGN	23,97	12,34	7,54	5,07	3,54	2,61	2,01	1,59	1,29	1,07	0,90
				SGU L/150	23,97	12,34	6,77	3,60	2,14	1,37	0,93	0,66	0,49	0,37	0,29
				SGU L/200	23,97	11,80	5,28	2,80	1,65	1,06	0,72	0,51	0,37	0,28	0,22
				SGU L/300	23,97	7,89	3,52	1,87	1,10	0,70	0,48	0,34	0,25	0,19	0,15
0,75	8,14	6,39	3,66 4,29	SGN	26,78	13,76	8,40	5,63	3,93	2,90	2,23	1,77	1,43	1,19	1,00
				SGU L/150	26,78	13,76	7,46	3,97	2,35	1,50	1,02	0,72	0,53	0,40	0,31
				SGU L/200	26,78	13,06	5,82	3,07	1,81	1,16	0,78	0,55	0,41	0,31	0,24
				SGU L/300	26,78	8,71	3,88	2,05	1,21	0,77	0,52	0,37	0,27	0,20	0,16

T-18 ELEVATION															
S 280 GD				single-span beam											
Thickness	A <sub>gross</sub>	Mass	J <sub>x</sub> min/max	Limit state	Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
[mm]	[cm <sup>2</sup> /m]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]		0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00
0,50	5,43	4,26	1,94 2,45	SGN	16,27	7,30	4,12	2,64	1,83	1,35	1,03	0,82	0,66	0,55	0,46
				SGU L/150	16,26	5,15	2,25	1,19	0,70	0,45	0,31	0,22	0,16	0,12	0,09
				SGU L/200	12,76	3,99	1,75	0,92	0,54	0,35	0,24	0,17	0,12	0,09	0,07
				SGU L/300	8,91	2,80	1,22	0,64	0,38	0,24	0,16	0,11	0,08	0,06	0,05
0,70	7,60	5,97	3,10 3,88	SGN	28,16	12,55	7,06	4,52	3,14	2,31	1,77	1,40	1,13	0,94	0,79
				SGU L/150	26,00	8,30	3,65	1,92	1,13	0,72	0,49	0,35	0,26	0,19	0,15
				SGU L/200	20,51	6,47	2,83	1,48	0,87	0,56	0,38	0,27	0,19	0,15	0,11
				SGU L/300	14,45	4,51	1,96	1,02	0,60	0,38	0,26	0,18	0,13	0,10	0,08
0,75	8,14	6,39	3,41 4,24	SGN	30,77	13,71	7,72	4,94	3,43	2,52	1,93	1,53	1,24	1,02	0,86
				SGU L/150	28,65	9,14	4,01	2,11	1,24	0,79	0,54	0,38	0,28	0,21	0,16

S 280 GD				T-18 ELEVATION											
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	double-span beam										
					Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
0,50	5,43	4,26	1,94 2,45	SGN	12,42	6,40	3,91	2,64	1,84	1,36	1,04	0,83	0,67	0,56	0,47
				SGU L/150	12,42	6,40	3,91	2,64	1,68	1,09	0,75	0,53	0,40	0,30	0,23
				SGU L/200	12,42	6,40	3,91	2,23	1,33	0,85	0,58	0,42	0,31	0,23	0,18
				SGU L/300	12,42	6,40	2,96	1,57	0,93	0,60	0,41	0,29	0,21	0,16	0,12
0,70	7,60	5,97	3,10 3,88	SGN	21,53	11,02	6,71	4,45	3,11	2,29	1,76	1,40	1,13	0,94	0,79
				SGU L/150	21,53	11,02	6,71	4,45	2,73	1,76	1,20	0,85	0,63	0,48	0,37
				SGU L/200	21,53	11,02	6,70	3,59	2,13	1,36	0,92	0,66	0,48	0,36	0,28
				SGU L/300	21,53	10,60	4,75	2,50	1,47	0,94	0,63	0,45	0,33	0,25	0,19
0,75	8,14	6,39	3,41 4,24	SGN	24,06	12,30	7,49	4,95	3,46	2,55	1,96	1,55	1,26	1,04	0,88
				SGU L/150	24,06	12,30	7,49	4,95	3,00	1,93	1,31	0,93	0,69	0,52	0,40
				SGU L/200	24,06	12,30	7,39	3,94	2,33	1,49	1,01	0,72	0,53	0,40	0,30
				SGU L/300	24,06	11,68	5,21	2,74	1,61	1,02	0,68	0,48	0,35	0,26	0,20

S 280 GD				T-18 ELEVATION											
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	three-span beam										
					Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
0,50	5,43	4,26	1,94 2,45	SGN	14,94	7,76	4,77	3,24	2,30	1,70	1,30	1,03	0,84	0,69	0,59
				SGU L/150	14,94	7,76	4,16	2,22	1,32	0,85	0,58	0,41	0,31	0,23	0,18
				SGU L/200	14,94	7,22	3,25	1,73	1,03	0,66	0,45	0,32	0,24	0,18	0,14
				SGU L/300	14,94	4,85	2,17	1,16	0,69	0,44	0,30	0,21	0,16	0,12	0,09
0,70	7,60	5,97	3,10 3,88	SGN	25,93	13,39	8,20	5,54	3,88	2,86	2,20	1,74	1,42	1,17	0,99
				SGU L/150	25,93	13,39	6,77	3,60	2,14	1,37	0,93	0,66	0,49	0,37	0,29
				SGU L/200	25,93	11,80	5,28	2,80	1,65	1,06	0,72	0,51	0,37	0,28	0,22
				SGU L/300	24,03	7,89	3,52	1,87	1,10	0,70	0,48	0,34	0,25	0,19	0,15
0,75	8,14	6,39	3,41 4,24	SGN	28,99	14,95	9,15	6,18	4,31	3,18	2,44	1,94	1,57	1,30	1,10
				SGU L/150	28,99	14,95	7,46	3,97	2,35	1,50	1,02	0,72	0,53	0,40	0,31
				SGU L/200	28,99	13,06	5,82	3,07	1,81	1,16	0,78	0,55	0,41	0,31	0,24
				SGU L/300	26,78	8,71	3,88	2,05	1,21	0,77	0,52	0,37	0,27	0,20	0,16

S 320 GD				T-18 ELEVATION											
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	single-span beam										
					Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
0,50	5,43	4,26	1,92 2,40	SGN	17,96	8,05	4,54	2,91	2,02	1,49	1,14	0,90	0,73	0,60	0,51
				SGU L/150	16,26	5,15	2,25	1,19	0,70	0,45	0,31	0,22	0,16	0,12	0,09
				SGU L/200	12,76	3,99	1,75	0,92	0,54	0,35	0,24	0,17	0,12	0,09	0,07
				SGU L/300	8,91	2,80	1,22	0,64	0,38	0,24	0,16	0,11	0,08	0,06	0,05
0,70	7,60	5,97	3,08 3,82	SGN	31,75	14,21	8,00	5,12	3,56	2,61	2,00	1,58	1,28	1,06	0,89
				SGU L/150	26,00	8,30	3,65	1,92	1,13	0,72	0,49	0,35	0,26	0,19	0,15
				SGU L/200	20,51	6,47	2,83	1,48	0,87	0,56	0,38	0,27	0,19	0,15	0,11
				SGU L/300	14,45	4,51	1,96	1,02	0,60	0,38	0,26	0,18	0,13	0,10	0,08
0,75	8,14	6,39	3,39 4,18	SGN	34,85	15,53	8,74	5,60	3,89	2,86	2,19	1,73	1,40	1,16	0,97
				SGU L/150	28,65	9,14	4,01	2,11	1,24	0,79	0,54	0,38	0,28	0,21	0,16
				SGU L/200	22,58	7,11	3,11	1,63	0,95	0,61	0,41	0,29	0,21	0,16	0,12
				SGU L/300	15,88	4,95	2,14	1,12	0,65	0,41	0,28	0,20	0,14	0,11	0,08

S 320 GD				T-18 ELEVATION											
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	Limit state	double-span beam										
					Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]										
0,50	5,43	4,26	1,92 2,40	SGN	13,60	7,03	4,31	2,91	2,05	1,51	1,16	0,92	0,75	0,62	0,52
				SGU L/150	13,60	7,03	4,31	2,78	1,68	1,09	0,75	0,53	0,40	0,30	0,23
				SGU L/200	13,60	7,03	4,07	2,23	1,33	0,85	0,58	0,42	0,31	0,23	0,18
				SGU L/300	13,60	6,44	2,96	1,57	0,93	0,60	0,41	0,29	0,21	0,16	0,12
0,70	7,60	5,97	3,08 3,82	SGN	23,62	12,13	7,41	4,96	3,46	2,55	1,96	1,56	1,26	1,05	0,88
				SGU L/150	23,62	12,13	7,41	4,53	2,73	1,76	1,20	0,85	0,63	0,48	0,37
				SGU L/200	23,62	12,13	6,70	3,59	2,13	1,36	0,92	0,66	0,48	0,36	0,28
				SGU L/300	23,62	10,60	4,75	2,50	1,47	0,94	0,63	0,45	0,33	0,25	0,19
0,75	8,14	6,39	3,39 4,18	SGN	26,41	13,55	8,27	5,52	3,85	2,84	2,18	1,73	1,40	1,16	0,98
				SGU L/150	2										

S 320 GD				T-18 ELEVATION											
Thickness [mm]	A <sub>gross</sub> [cm <sup>2</sup> /m]	Mass [kg/m <sup>2</sup> ]	J <sub>x</sub> min/max [cm <sup>4</sup> /m]	three-span beam											
				Acceptable continuous load q [kN/m <sup>2</sup> ] evenly distributed over span L [m]											
				0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	
0,50	5,43	4,26	1,92 2,40	SGN	16,34	8,52	5,25	3,57	2,56	1,89	1,45	1,15	0,93	0,77	0,65
				SGU L/150	16,34	8,52	4,16	2,22	1,32	0,85	0,58	0,41	0,31	0,23	0,18
				SGU L/200	16,34	7,22	3,25	1,73	1,03	0,66	0,45	0,32	0,24	0,18	0,14
				SGU L/300	14,95	4,85	2,17	1,16	0,69	0,44	0,30	0,21	0,16	0,12	0,09
0,70	7,60	5,97	3,08 3,82	SGN	28,43	14,73	9,04	6,12	4,32	3,19	2,45	1,94	1,58	1,31	1,10
				SGU L/150	28,43	14,73	6,77	3,60	2,14	1,37	0,93	0,66	0,49	0,37	0,29
				SGU L/200	28,43	11,80	5,28	2,80	1,65	1,06	0,72	0,51	0,37	0,28	0,22
				SGU L/300	24,03	7,89	3,52	1,87	1,10	0,70	0,48	0,34	0,25	0,19	0,15
0,75	8,14	6,39	3,39 4,18	SGN	31,80	16,45	10,09	6,83	4,81	3,55	2,72	2,16	1,75	1,45	1,22
				SGU L/150	31,80	16,36	7,46	3,97	2,35	1,50	1,02	0,72	0,53	0,40	0,31
				SGU L/200	31,80	13,06	5,82	3,07	1,81	1,16	0,78	0,55	0,41	0,31	0,24
				SGU L/300	26,78	8,71	3,88	2,05	1,21	0,77	0,52	0,37	0,27	0,20	0,16

