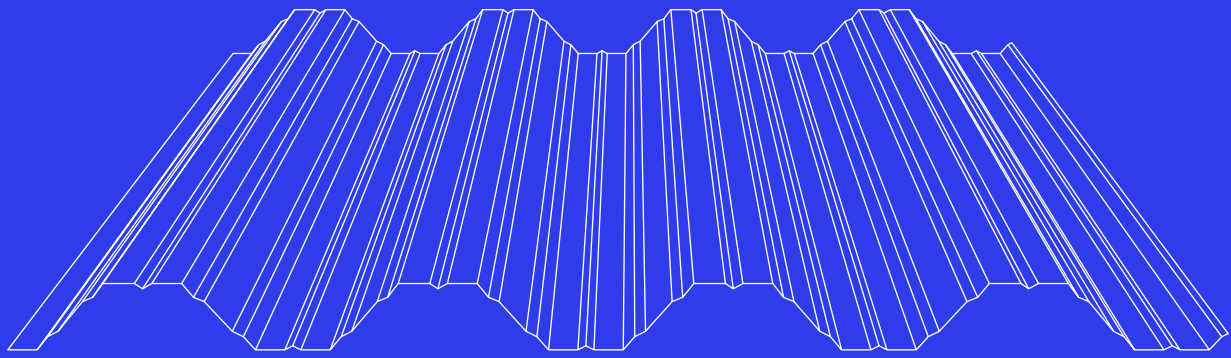
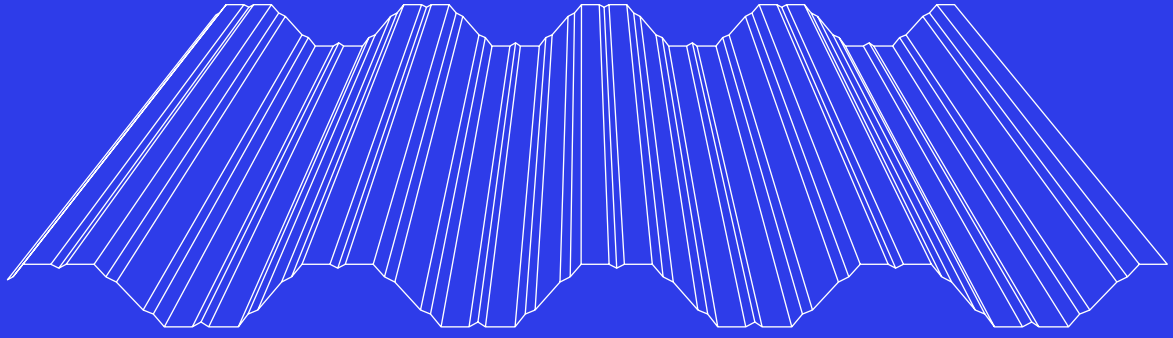


S panel



Product

card

Trapezoidal
metal sheet

T60

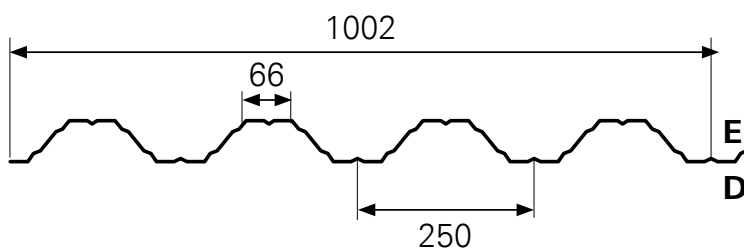
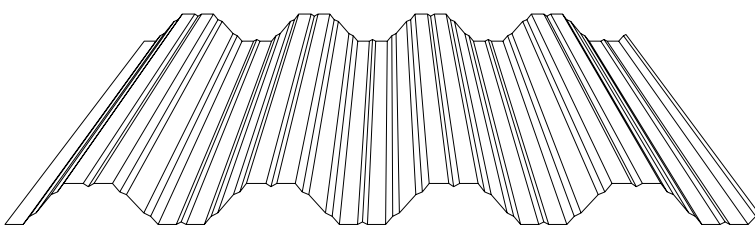
Trapezoidal sheets are widely used in the construction industry due to their high versatility. They are an excellent facade cladding and roof covering material for buildings: from the smallest (garages and sheds) to large production buildings and commercial facilities. Our offer includes a wide range of products, from economical solutions to tall construction profiles with parameters enabling their use in the most demanding industrial applications.



T60

Technical parameters [in mm]

Effective width	1002
Total width	~1040
Height of profile	61
Thickness of steel sheet	0,60–1,25
Max. length of sheet	14 000



The assumption and a comment on the steel sheet resistance tables

Load-bearing capacity tables have been prepared for trapezoidal sheets manufactured by "BLACHPROFIL 2" used as single-span beams and continuous beams: two-span and three-span beams, as well as for overlapping sheets - as two- and three-span beams (tables for overlapping arrangements can be obtained by contacting the BLACHPROFIL 2 project sales department). Alternative supports (positive or negative) were taken into account.

The results were obtained on the basis of static-strength analysis of steel sheets treated as thin-walled elements according to the algorithm of Professor R. J. Garncarek from the Białystok University of Technology, according to PN-EN 1993-1-3: August 2008, as amended. The calculations were performed using the software developed by "KOTEX" (www.kotex.waw.pl).

In the calculations, the following assumptions were made in accordance with PN-EN 1993-1-3:

- elastic material with yield strength f_{yb} according to Table 3.1b;
- material safety factor $\gamma_m = 1.0$.

The tables summarize the design loads for limit state I (ULS), expressing the permissible load bearing capacity and the characteristic loads for limit state II (SLS), corresponding to the permissible deflections. The permissible loads in the SLS are specified for deflections $L/150$, $L/200$, and $L/300$. The loads are expressed in kN/m^2 .

The ranges of parameters for the analyzed metal sheets are stated below:

Type of metal sheet: T60

Steel: S250 GD, S280 GD, S320 GD,

Sheet thicknesses: 0.60 mm, 0.63 mm, 0.70 mm, 0.75 mm, 0.80 mm, 0.88 mm, 1.00 mm, 1.15 mm, 1.25 mm, 1.50 mm

The width of the intermediate support [b]: 60 mm, 80 mm, 120 mm, 160 mm, 300 mm

The span of the spans [m]: $L_{min} = 2.00$ m, $L_{max} = 8.00$ m

General recommendations

The tables indicate the extreme support widths (60 mm) recommended by the manufacturer while in the calculation, the extreme support width was assumed to be $a=10$ mm in accordance with a PN-EN standard. The tables for the regular, two- and three-span arrangements were prepared for intermediate support widths of $b=60$ mm, 100 mm, 140 mm, and 300 mm.

The design loads should be compared with the values in the tables - row 1, for a span not less than the value assumed in the design of the structure.

In the case of two- and three-span sheets, the table corresponding to the width of the intermediate support b not larger than the width assumed in the design of the structure should be chosen.

Linear interpolation can be used for both the intermediate support width b and the L span.

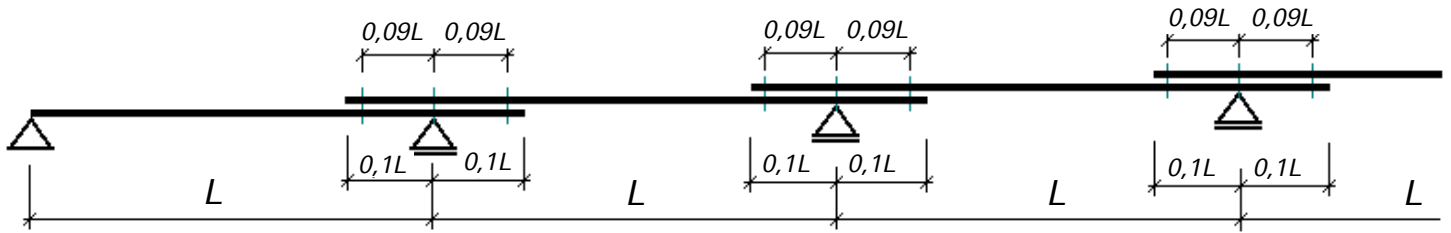
These tables may be used if the following conditions are met:

- the load acting on the assumed static systems is a uniformly distributed continuous load;
- the span lengths in multi-span arrangements do not differ by more than 5%, but to determine ULS and SLS, the largest length of the span is assumed;
- the trapezoidal sheet fixing method is in accordance with the manufacturer's instructions.

In other individual cases, it is recommended to consult a representative of our company.

Recommendations for overlapping arrangements

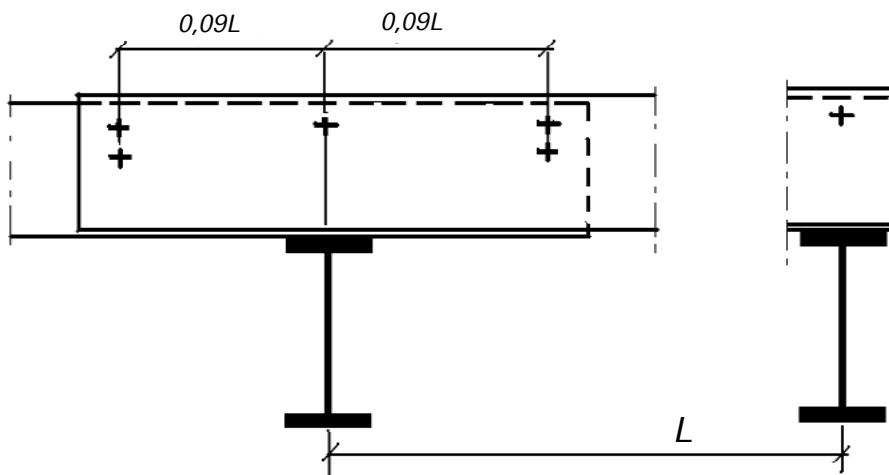
The tables have been prepared assuming overlaps equal to 0.1 of the span, as shown in Figure*:



For overlap arrangements, the intermediate support must meet the condition of ≥ 60 mm.

The connectors should be placed above the support axes and on both sides of the support at a distance equal to 0.09 of the span:

The minimum distance between the center of gravity of the connectors and the support

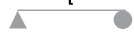


Sheet weight (kg/m²)

THICKNESS	WEIGHT
0,60	5,88
0,63	6,18
0,70	6,86
0,75	7,35
0,80	7,84
0,88	8,63
1,00	9,81
1,10	10,79
1,20	11,77
1,25	12,26

* Tables for overlapped layouts are available on request.

Table with columns for Thickness [Jt[cm]], Case, Positive, Negative, Number of spans: 1, support: 60-60, and various span lengths (0.60, 0.63, 0.70, 0.75, 0.80, 0.88, 1.00, 1.15, 1.25, 1.50) and support spacings (2, support: 60-60-60, 3).





T60_2020			Positive=Negative																																
Thickness Jx[cm ⁴]	Number of spans:	Case	support: 60 - 60																																
			2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00								
0.60	40.07	SGN	4.31	3.83	3.34	2.76	2.32	1.98	1.71	1.49	1.31	1.16	1.03	0.93	0.84	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33								
		SGU L150	4.31	3.78	2.76	2.07	1.60	1.25	1.00	0.82	0.67	0.56	0.47	0.40	0.34	0.30	0.26	0.23	0.20	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08								
		SGU L200	4.04	2.84	2.07	1.55	1.20	0.94	0.75	0.61	0.50	0.42	0.35	0.30	0.26	0.22	0.19	0.17	0.15	0.13	0.12	0.11	0.09	0.08	0.07	0.06	0.05	0.04							
		SGU L300	2.69	1.89	1.38	1.04	0.80	0.63	0.50	0.41	0.34	0.28	0.24	0.20	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01							
		SGN	4.63	4.29	3.59	2.96	2.49	2.12	1.83	1.59	1.40	1.24	1.11	0.99	0.90	0.81	0.74	0.68	0.62	0.57	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33							
		SGU L150	4.83	3.97	2.90	2.18	1.68	1.32	1.06	0.86	0.71	0.59	0.50	0.42	0.36	0.31	0.27	0.24	0.21	0.19	0.16	0.15	0.13	0.12	0.11	0.10	0.09	0.08							
		SGU L200	4.24	2.98	2.17	1.63	1.26	0.99	0.79	0.64	0.53	0.44	0.37	0.32	0.27	0.23	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04						
		SGU L300	2.83	1.99	1.45	1.09	0.84	0.66	0.53	0.43	0.35	0.29	0.25	0.21	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01							
		SGN	5.98	5.10	4.13	3.42	2.87	2.45	2.11	1.84	1.61	1.43	1.28	1.15	1.03	0.94	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.49	0.46	0.43	0.40	0.38							
Number of spans:			support: 60 - 120 - 60																																
Thickness Jx[cm ⁴]	Number of spans:	Case	support: 60 - 120 - 60																																
			2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00								
0.60	40.07	SGN	3.86	3.20	2.71	2.32	2.01	1.76	1.55	1.38	1.21	1.11	1.00	0.91	0.83	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33								
		SGU L150	3.86	3.20	2.71	2.32	2.01	1.76	1.55	1.38	1.21	1.11	1.00	0.91	0.83	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33								
		SGU L200	3.86	3.20	2.71	2.32	2.01	1.76	1.55	1.38	1.21	1.11	1.00	0.91	0.83	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33								
		SGU L300	3.86	3.20	2.71	2.32	1.92	1.51	1.21	0.98	0.81	0.67	0.57	0.48	0.41	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.14	0.12	0.11	0.10	0.09							
		SGN	4.20	3.49	2.94	2.52	2.18	1.91	1.68	1.49	1.33	1.20	1.08	0.98	0.90	0.81	0.74	0.68	0.62	0.57	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33							
		SGU L150	4.20	3.49	2.94	2.52	2.18	1.91	1.68	1.49	1.33	1.20	1.08	0.98	0.87	0.75	0.65	0.57	0.50	0.45	0.40	0.35	0.32	0.29	0.26	0.23	0.21	0.18							
		SGU L200	4.20	3.49	2.94	2.52	2.18	1.91	1.68	1.49	1.27	1.06	0.90	0.76	0.65	0.56	0.49	0.43	0.38	0.33	0.30	0.27	0.24	0.21	0.18	0.16	0.14	0.12							
		SGU L300	4.20	3.49	2.94	2.52	2.01	1.58	1.27	1.03	0.85	0.71	0.60	0.51	0.44	0.38	0.33	0.29	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.10							
		SGN	4.94	4.09	3.45	2.95	2.55	2.23	1.97	1.74	1.56	1.40	1.26	1.14	1.03	0.94	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.49	0.46	0.43	0.40	0.38							
Number of spans:			support: 60 - 120 - 120 - 60																																
Thickness Jx[cm ⁴]	Number of spans:	Case	support: 60 - 120 - 120 - 60																																
			2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00								
0.60	40.07	SGN	4.64	3.86	3.26	2.80	2.43	2.13	1.89	1.68	1.50	1.35	1.22	1.11	1.01	0.93	0.86	0.79	0.73	0.67	0.62	0.57	0.53	0.50	0.46	0.43	0.41								
		SGU L150	4.64	3.86	3.26	2.80	2.43	2.13	1.89	1.54	1.26	1.07	0.89	0.76	0.65	0.56	0.49	0.43	0.38	0.33	0.30	0.26	0.24	0.21	0.18	0.16	0.14								
		SGU L200	4.64	3.86	3.26	2.80	2.26	1.78	1.43	1.16	0.95	0.80	0.67	0.57	0.49	0.42	0.37	0.32	0.28	0.25	0.22	0.20	0.18	0.16	0.14	0.13	0.12								
		SGU L300	4.64	3.58	2.61	1.96	1.51	1.19	0.95	0.77	0.64	0.53	0.45	0.38	0.33	0.28	0.24	0.21	0.19	0.17	0.15	0.13	0.12	0.11	0.10	0.09	0.08								
		SGN	5.05	4.20	3.55	3.05	2.64	2.31	2.05	1.82	1.63	1.46	1.32	1.20	1.10	1.01	0.92	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.50	0.47	0.44								
		SGU L150	5.05	4.20	3.55	3.05	2.64	2.31	2.00	1.62	1.34	1.11	0.94	0.80	0.68	0.59	0.51	0.45	0.40	0.35	0.31	0.28	0.25	0.22	0.20	0.18	0.17	0.16							
		SGU L200	5.05	4.20	3.55	3.05	2.38	1.87	1.50	1.22	1.00	0.84	0.70	0.60	0.51	0.44	0.39	0.34	0.30	0.26	0.23	0.21	0.19	0.17	0.15	0.14	0.13	0.12							
		SGU L300	5.05	3.75	2.74	2.06	1.58	1.25	1.00	0.81	0.67	0.56	0.47	0.40	0.34	0.30	0.26	0.22	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.07							
		SGN	5.95	4.94	4.17	3.57	3.09	2.71	2.40	2.13	1.90	1.71	1.54	1.40	1.28	1.17	1.07	0.96	0.90	0.83	0.78	0.71	0.66	0.61	0.57	0.54	0.50	0.48							



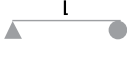
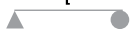
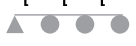
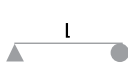


Table with 4 main sections for 200, 400, 600, and 800 mm depths. Each section contains sub-tables for 1, 2, and 3 spans. Columns include span number, support type (Case or support), and various dimensions and values.

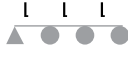


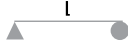
T60_2020		Positive=Negative																													
Number of spans: 1		support: 60 - 60																													
Thickness [Jxcm4]	Case																														
0.60	40.07	SGN	4.31	3.83	3.34	2.76	2.32	1.98	1.71	1.49	1.31	1.16	1.03	0.93	0.84	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33				
		SGU L150	4.31	3.78	2.76	2.07	1.60	1.25	1.00	0.82	0.67	0.56	0.47	0.40	0.34	0.30	0.26	0.23	0.20	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08	0.07	0.06		
		SGU L200	4.04	2.84	2.07	1.55	1.20	0.94	0.75	0.61	0.50	0.42	0.35	0.30	0.26	0.22	0.19	0.17	0.15	0.13	0.12	0.11	0.09	0.08	0.07	0.06	0.05	0.04			
		SGU L300	2.69	1.89	1.38	1.04	0.80	0.63	0.50	0.41	0.34	0.28	0.24	0.20	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.05	0.04	0.04			
0.63		SGN	4.83	4.29	3.59	2.96	2.49	2.12	1.83	1.59	1.40	1.24	1.11	0.99	0.90	0.81	0.74	0.68	0.62	0.57	0.53	0.49	0.46	0.43	0.40	0.37	0.35				
	42.07	SGU L150	4.83	3.97	2.90	2.18	1.68	1.32	1.06	0.86	0.71	0.59	0.50	0.42	0.36	0.31	0.27	0.24	0.21	0.19	0.16	0.15	0.13	0.12	0.11	0.10	0.09	0.09			
		SGU L200	4.24	2.98	2.17	1.63	1.26	0.99	0.79	0.64	0.53	0.44	0.37	0.32	0.27	0.23	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.07			
		SGU L300	2.83	1.99	1.45	1.09	0.84	0.66	0.53	0.43	0.35	0.29	0.25	0.21	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04			
0.70		SGN	5.98	5.10	4.13	3.42	2.87	2.45	2.11	1.84	1.61	1.43	1.28	1.15	1.03	0.94	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.49	0.46	0.43	0.40				
	46.75	SGU L150	5.98	4.41	3.22	2.42	1.86	1.46	1.17	0.95	0.79	0.65	0.55	0.47	0.40	0.35	0.30	0.26	0.23	0.21	0.18	0.16	0.15	0.13	0.12	0.11	0.10	0.10			
		SGU L200	4.71	3.31	2.41	1.81	1.40	1.10	0.88	0.71	0.58	0.49	0.41	0.35	0.30	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.07			
		SGU L300	3.14	2.21	1.61	1.21	0.93	0.73	0.59	0.48	0.39	0.33	0.28	0.23	0.20	0.17	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.05			
0.60	40.07	SGN	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.49	1.31	1.16	1.03	0.93	0.84	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33				
		SGU L150	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.49	1.31	1.16	1.03	0.93	0.83	0.72	0.62	0.55	0.48	0.42	0.38	0.34	0.30	0.27	0.25	0.22	0.20				
		SGU L200	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.47	1.21	1.01	0.85	0.73	0.62	0.54	0.47	0.41	0.36	0.32	0.28	0.25	0.23	0.20	0.18	0.17	0.15				
		SGU L300	4.40	3.62	3.03	2.49	1.92	1.51	1.21	0.98	0.81	0.67	0.57	0.48	0.41	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.14	0.12	0.11	0.10	0.10			
0.60	40.07	SGN	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.49	1.31	1.16	1.03	0.93	0.84	0.76	0.69	0.63	0.58	0.53	0.49	0.46	0.43	0.40	0.37	0.35	0.33				
		SGU L150	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.49	1.31	1.16	1.03	0.93	0.83	0.72	0.62	0.55	0.48	0.42	0.38	0.34	0.30	0.27	0.25	0.22	0.20				
		SGU L200	4.40	3.62	3.03	2.58	2.22	1.94	1.70	1.47	1.21	1.01	0.85	0.73	0.62	0.54	0.47	0.41	0.36	0.32	0.28	0.25	0.23	0.20	0.18	0.17	0.15				
		SGU L300	4.40	3.62	3.03	2.49	1.92	1.51	1.21	0.98	0.81	0.67	0.57	0.48	0.41	0.36	0.31	0.27	0.24	0.21	0.19	0.17	0.15	0.14	0.12	0.11	0.10	0.10			





		Positive=Negative																																						
Number of spans: 1		support: 60 - 60																																						
Thickness [Jxcm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00														
0.60	40.07	SGN	4.56	4.06	3.65	3.02	2.54	2.16	1.87	1.63	1.43	1.27	1.13	1.01	0.91	0.83	0.76	0.69	0.64	0.59	0.54	0.50	0.47	0.44	0.41	0.38	0.36													
		SGU L150	4.56	3.78	2.76	2.07	1.60	1.25	1.00	0.82	0.67	0.56	0.47	0.40	0.34	0.30	0.26	0.23	0.20	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08													
		SGU L200	4.04	2.84	2.07	1.55	1.20	0.94	0.75	0.61	0.50	0.42	0.35	0.30	0.26	0.22	0.19	0.17	0.15	0.13	0.12	0.11	0.09	0.08	0.07	0.06														
	0.63	42.07	SGU L300	2.69	1.89	1.38	1.04	0.80	0.63	0.50	0.41	0.34	0.28	0.24	0.20	0.17	0.15	0.13	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.05	0.04												
			SGN	5.11	4.54	3.94	3.25	2.73	2.33	2.01	1.75	1.54	1.36	1.21	1.09	0.98	0.89	0.81	0.74	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38												
			SGU L150	5.11	3.97	2.90	2.18	1.68	1.32	1.06	0.86	0.71	0.59	0.50	0.42	0.36	0.31	0.27	0.24	0.21	0.19	0.16	0.15	0.13	0.12	0.11	0.10	0.09												
	Number of spans: 2		support: 60 - 60 - 60																																					
	Thickness [Jxcm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00													
	0.60	40.07	SGN	3.73	3.12	2.65	2.28	1.99	1.75	1.55	1.38	1.24	1.12	1.01	0.92	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.50	0.47	0.44	0.41	0.38	0.36												
			SGU L150	3.73	3.12	2.65	2.28	1.99	1.75	1.55	1.38	1.24	1.12	1.01	0.92	0.85	0.78	0.72	0.66	0.61	0.57	0.53	0.50	0.47	0.44	0.41	0.38	0.36												
SGU L200			3.73	3.12	2.65	2.28	1.99	1.75	1.55	1.38	1.24	1.12	1.01	0.85	0.73	0.62	0.54	0.47	0.41	0.36	0.32	0.28	0.25	0.23	0.20	0.18	0.17													





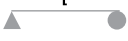
T60 2020		Positive=Negative																								
Number of spans: 1		support: 60 - 60																								
Thickness Jx[cm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00
0.60	SGN	4.56	4.06	3.65	3.02	2.54	2.16	1.87	1.63	1.43	1.27	1.13	1.01	0.91	0.83	0.76	0.69	0.64	0.59	0.54	0.50	0.47	0.44	0.41	0.38	0.36
	SGU L150	4.56	3.78	2.76	2.07	1.60	1.25	1.00	0.82	0.67	0.56	0.47	0.40	0.34	0.30	0.26	0.23	0.20	0.18	0.16	0.14	0.13	0.11	0.10	0.09	0.08
	SGU L200	4.04	2.84	2.07	1.55	1.20	0.94	0.75	0.61	0.50	0.42	0.35	0.30	0.26	0.22	0.19	0.17	0.15	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06
0.63	SGN	5.11	4.54	3.94	3.25	2.73	2.33	2.01	1.75	1.54	1.36	1.21	1.09	0.98	0.89	0.81	0.74	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38
	SGU L150	5.11	3.97	2.90	2.18	1.68	1.32	1.06	0.86	0.71	0.59	0.50	0.42	0.36	0.31	0.27	0.24	0.21	0.19	0.16	0.15	0.13	0.12	0.11	0.10	0.09
	SGU L200	4.24	2.98	2.17	1.63	1.26	0.99	0.79	0.64	0.53	0.44	0.37	0.32	0.27	0.23	0.20	0.18	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.07	0.07
0.70	SGN	6.32	5.62	4.58	3.78	3.18	2.71	2.34	2.03	1.79	1.58	1.41	1.27	1.14	1.04	0.95	0.87	0.79	0.73	0.68	0.63	0.58	0.54	0.51	0.48	0.45
	SGU L150	6.28	4.41	3.22	2.42	1.86	1.46	1.17	0.95	0.79	0.65	0.56	0.47	0.40	0.35	0.30	0.26	0.23	0.21	0.18	0.16	0.15	0.13	0.12	0.11	0.10
	SGU L200	4.71	3.31	2.41	1.81	1.40	1.10	0.88	0.71	0.59	0.49	0.41	0.35	0.30	0.26	0.23	0.20	0.17	0.15	0.14	0.12	0.11	0.10	0.09	0.08	0.07



Number of spans: 2		support: 60 - 80 - 60																								
Thickness Jx[cm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00
0.60	SGN	3.91	3.26	2.76	2.38	2.07	1.82	1.61	1.43	1.28	1.15	1.04	0.95	0.87	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38	0.36
	SGU L150	3.91	3.26	2.76	2.38	2.07	1.82	1.61	1.43	1.28	1.15	1.04	0.95	0.87	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38	0.36
	SGU L200	3.91	3.26	2.76	2.38	2.07	1.82	1.61	1.43	1.28	1.15	1.04	0.95	0.87	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38	0.36
0.63	SGN	4.27	3.56	3.01	2.59	2.25	1.98	1.75	1.55	1.39	1.25	1.13	1.03	0.94	0.86	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38
	SGU L150	4.27	3.56	3.01	2.59	2.25	1.98	1.75	1.55	1.39	1.25	1.13	1.03	0.94	0.86	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38
	SGU L200	4.27	3.56	3.01	2.59	2.25	1.98	1.75	1.55	1.39	1.25	1.13	1.03	0.94	0.86	0.80	0.73	0.68	0.63	0.58	0.54	0.50	0.47	0.44	0.41	0.38

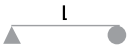


Number of spans: 3		support: 60 - 80 - 60																								
Thickness Jx[cm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00
0.60	SGN	4.68	3.91	3.32	2.86	2.49	2.19	1.95	1.74	1.56	1.40	1.27	1.16	1.06	0.97	0.90	0.83	0.77	0.72	0.67	0.65	0.58	0.54	0.51	0.48	0.45
	SGU L150	4.68	3.91	3.32	2.86	2.49	2.19	1.95	1.74	1.56	1.40	1.27	1.16	1.06	0.97	0.90	0.83	0.77	0.72	0.67	0.65	0.58	0.54	0.51	0.48	0.45
	SGU L200	4.68	3.91	3.32	2.86	2.49	2.19	1.95	1.74	1.56	1.40	1.27	1.16	1.06	0.97	0.90	0.83	0.77	0.72	0.67	0.65	0.58	0.54	0.51	0.48	0.45
0.63	SGN	5.11	4.27	3.62	3.12	2.72	2.39	2.12	1.89	1.69	1.52	1.38	1.26	1.15	1.06	0.97	0.90	0.83	0.78	0.72	0.67	0.63	0.58	0.55	0.51	0.48
	SGU L150	5.11	4.27	3.62	3.12	2.72	2.39	2.12	1.89	1.69	1.52	1.38	1.26	1.15	1.06	0.97	0.90	0.83	0.78	0.72	0.67	0.63	0.58	0.55	0.51	0.48
	SGU L200	5.11	4.27	3.62	3.12	2.72	2.39	2.12	1.89	1.69	1.52	1.38	1.26	1.15	1.06	0.97	0.90	0.83	0.78	0.72	0.67	0.63	0.58	0.55	0.51	0.48



T60_320		Positive-Negative		support: 60 - 60		
Number of spans: 1		Case		support: 60 - 60		
Thickness	Jx[cm ⁴]	2.00	2.25	2.50	2.75	
0.60	40.07	SGN	4.88	4.34	3.90	3.35
		SGU L150	4.88	3.78	2.76	2.07
		SGU L200	4.04	2.84	2.07	1.55
0.63	42.07	SGN	5.47	4.86	4.37	3.61
		SGU L150	5.47	3.97	2.90	2.18
		SGU L200	4.24	2.98	2.17	1.63
0.70	46.75	SGN	6.76	6.01	5.12	4.23
		SGU L150	6.28	4.41	3.22	2.42
		SGU L200	4.71	3.31	2.41	1.81
0.75	50.09	SGN	7.76	6.90	5.64	4.66
		SGU L150	6.73	4.73	3.45	2.59
		SGU L200	5.05	3.55	2.58	1.94
0.80	53.42	SGN	8.83	7.55	6.11	5.05
		SGU L150	7.18	5.04	3.68	2.76
		SGU L200	3.59	2.76	2.07	1.60
0.88	58.77	SGN	10.67	8.51	6.89	5.70
		SGU L150	7.90	5.55	4.04	3.04
		SGU L200	5.92	4.16	3.03	2.28
1.00	66.78	SGN	12.65	10.00	8.10	6.69
		SGU L150	8.98	6.30	4.60	3.45
		SGU L200	6.73	4.73	3.45	2.59
1.15	76.80	SGN	15.09	11.92	9.66	7.98
		SGU L150	10.32	7.25	5.28	3.97
		SGU L200	7.74	5.44	3.96	2.99
1.25	83.48	SGN	16.75	13.24	10.72	8.86
		SGU L150	11.22	7.88	5.74	4.32
		SGU L200	8.41	5.91	4.31	3.24
1.50	100.17	SGN	21.05	16.63	13.47	11.13
		SGU L150	13.46	9.46	6.89	5.18
		SGU L200	10.10	7.09	5.17	3.88
Number of spans: 2		Case		support: 60 - 60 - 60		
Thickness	Jx[cm ⁴]	2.00	2.25	2.50	2.75	
0.60	40.07	SGN	4.07	3.40	2.90	2.50
		SGU L150	4.07	3.40	2.90	2.50
		SGU L200	4.07	3.40	2.90	2.50
0.63	42.07	SGN	4.45	3.72	3.16	2.73
		SGU L150	4.45	3.72	3.16	2.73
		SGU L200	4.45	3.72	3.16	2.73
0.70	46.75	SGN	5.31	4.44	3.77	3.24
		SGU L150	5.31	4.44	3.77	3.24
		SGU L200	5.31	4.44	3.77	3.24
0.75	50.09	SGN	5.94	4.96	4.21	3.62
		SGU L150	5.94	4.96	4.21	3.62
		SGU L200	5.94	4.96	4.21	3.62
0.80	53.42	SGN	6.55	5.47	4.64	3.99
		SGU L150	6.55	5.47	4.64	3.99
		SGU L200	6.55	5.47	4.64	3.99
0.88	58.77	SGN	7.57	6.31	5.34	4.59
		SGU L150	7.57	6.31	5.34	4.59
		SGU L200	7.57	6.31	5.34	4.59
1.00	66.78	SGN	9.18	7.63	6.45	5.52
		SGU L150	9.18	7.63	6.45	5.52
		SGU L200	9.18	7.63	6.45	5.52
1.15	76.80	SGN	11.30	9.37	7.90	6.76
		SGU L150	11.30	9.37	7.90	6.76
		SGU L200	11.30	9.37	7.90	6.76
1.25	83.48	SGN	12.77	10.56	8.91	7.62
		SGU L150	12.77	10.56	8.91	7.62
		SGU L200	12.77	10.56	8.91	7.62
1.50	100.17	SGN	16.64	13.73	11.56	9.87
		SGU L150	16.64	13.73	11.56	9.87
		SGU L200	16.64	13.73	11.56	9.87
Number of spans: 3		Case		support: 60 - 60 - 60 - 60		
Thickness	Jx[cm ⁴]	2.00	2.25	2.50	2.75	
0.60	40.07	SGN	4.85	4.07	3.47	3.00
		SGU L150	4.85	4.07	3.47	3.00
		SGU L200	4.85	4.07	3.47	3.00
0.63	42.07	SGN	5.31	4.45	3.79	3.27
		SGU L150	5.31	4.45	3.79	3.27
		SGU L200	5.31	4.45	3.79	3.27
0.70	46.75	SGN	6.34	5.31	4.52	3.90
		SGU L150	6.34	5.31	4.52	3.90
		SGU L200	6.34	5.31	4.52	3.90
0.75	50.09	SGN	7.09	5.94	5.05	4.36
		SGU L150	7.09	5.94	5.05	4.36
		SGU L200	7.09	5.94	5.05	4.36
0.80	53.42	SGN	7.84	6.55	5.57	4.80
		SGU L150	7.84	6.55	5.57	4.80
		SGU L200	7.84	6.55	5.57	4.80
0.88	58.77	SGN	9.07	7.57	6.43	5.53
		SGU L150	9.07	7.57	6.43	5.53
		SGU L200	9.07	7.57	6.43	5.53
1.00	66.78	SGN	11.01	9.18	7.77	6.67
		SGU L150	11.01	9.18	7.77	6.67
		SGU L200	11.01	9.18	7.77	6.67
1.15	76.80	SGN	13.58	11.29	9.53	8.18
		SGU L150	13.58	11.29	9.53	8.18
		SGU L200	13.58	11.29	9.53	8.18
1.25	83.48	SGN	15.36	12.76	10.76	9.22
		SGU L150	15.36	12.76	10.76	9.22
		SGU L200	15.36	12.76	10.76	9.22
1.50	100.17	SGN	20.07	16.60	13.99	11.97
		SGU L150	20.07	16.60	13.99	11.97
		SGU L200	20.07	16.60	13.99	11.97





T60_320		Positive=Negative																																																				
Number of spans: 1		support: 60 - 60																																																				
Thickness	Jx[cm ⁴]	Case	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00																											
0.60	40.07	SGN	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00																											
		SGU L150	4.88	4.34	3.90	3.35	2.82	2.40	2.07	1.80	1.59	1.40	1.25	1.12	1.01	0.92	0.84	0.77	0.70	0.65	0.60	0.56	0.52	0.48	0.45	0.42	0.40	0.10	0.09	0.08	0.07	0.06																						
		SGU L300	4.04	2.84	2.07	1.55	1.20	0.94	0.75	0.61	0.50	0.42	0.35	0.30	0.26	0.22	0.19	0.17	0.15	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.04																							
0.63	42.07	SGN	5.47	4.86	4.37	3.61	3.04	2.59	2.23	1.94	1.71	1.51	1.35	1.21	1.09	0.99	0.90	0.83	0.76	0.70	0.65	0.60	0.56	0.52	0.48	0.45	0.43																											
		SGU L150	5.47	3.97	2.90	2.18	1.68	1.32	1.06	0.86	0.71	0.59	0.50	0.42	0.36	0.31	0.27	0.24	0.21	0.19	0.16	0.15	0.13	0.12	0.11	0.10	0.09																											
		SGU L300	4.24	2.98	2.17	1.63	1.26	0.99	0.79	0.64	0.53	0.44	0.37	0.32	0.27	0.23	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.04	0.04	0.03																							



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