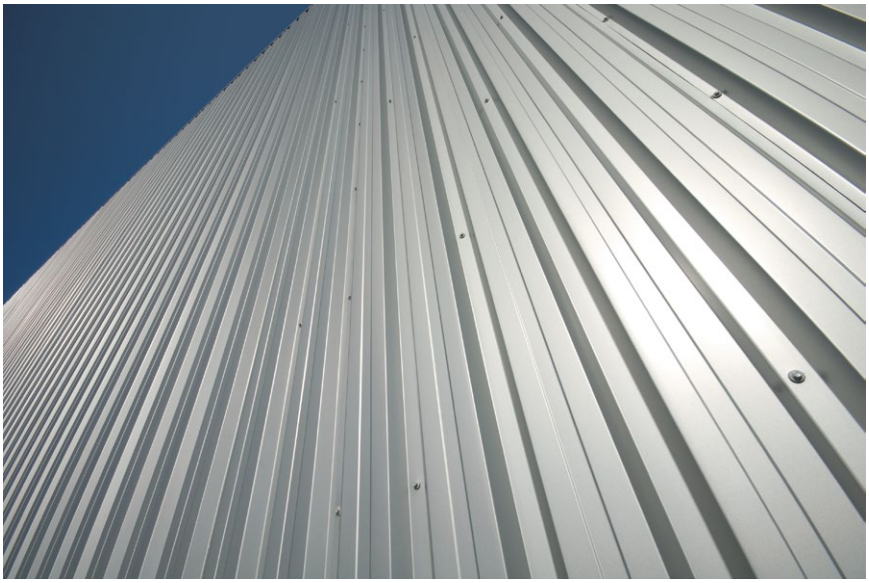
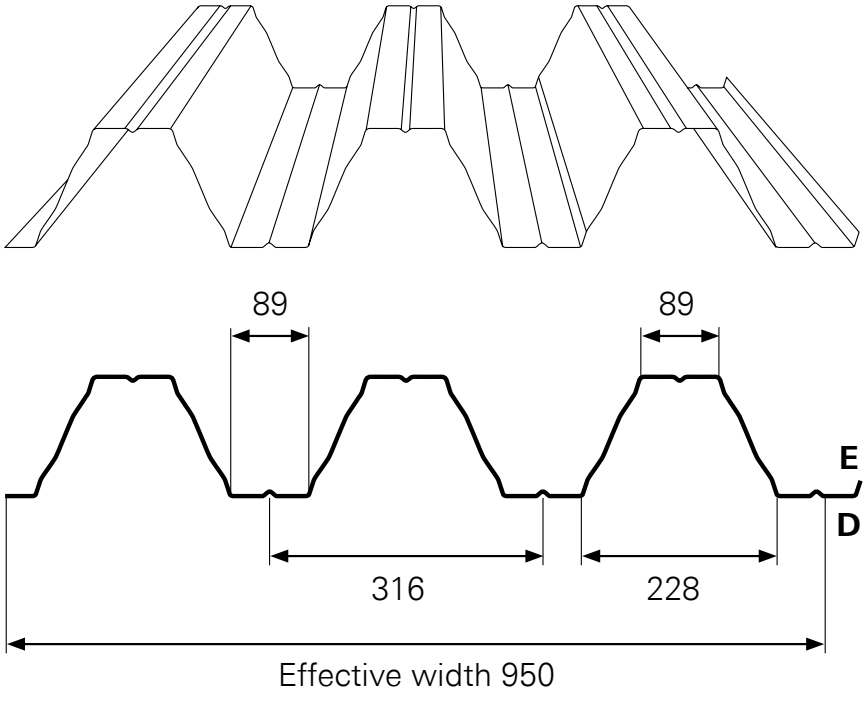
Trapezoidal metal sheets are products widely used in the construction industry due to their versatility. They work well both as elevation and roof covering for constructions ranging from the smallest buildings (garages, sheds) to large-production facilities and commercial buildings. We offer a broad cross section of products from economic solutions to high construction profiles that have parameters allowing their use in the most demanding industrial applications.



T135-950

Technical parameters [in mm]	
Effective width	950
Total width	~994
Height of profile	134
Thickness of steel sheet	0,7–1,5
Max. length of sheet	14 000

DECORATIVE COATINGS
VERSION T135-950E/T135-950D



Installation guide and commentary on load-bearing capacity tables

Load-bearing capacity tables were elaborated for trapezoid metal sheets of the company BLACHPROFIL 2 working as single-span beams and continuous beams: two-span and three-span and also for metal sheets laid at overlap – as two-span and three-span beams (available only on request – for further details contact the BLACHPROFIL 2 Sales Department). A variant base on supports was taken into account (the positive or the negative).

The results were obtained based on static-strength analysis of metal sheets treated as thin-walled elements according to the algorithm of Assoc. Eng. R.J. Garncarek, Professor at the Bialystok University of Technology, in accordance with PNEN 1993-1-3: August 2008 along with further changes.

Programs by the company KOTEX were used for the calculations [www.kotex.waw.pl].
According to EN 1993-1-3 in the calculations assumed

- resilient material with a yield point $\mathbf{f_{yb}}$ according to the table 3.1b.,
- material safety factor γ_m = 1,0

In the tables, computational loads for I limit state (SGN) were presented, expressing the allowable load-bearing capacity and loads characteristic for II limit state (SGU) corresponding to the allowable deflections. The allowable loads in SGU state were specified for deflections **L**/150, **L**/200 and **L**/300.
Loads are expressed in kN/m^2.

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

Type of metal sheet: T135-950
Steel: S320 GD

Metal sheet thicknesses: 0.60 mm, 0.70 mm, 0.75 mm, 0.80 mm, 0.88 mm, 1.00 mm, 1.25 mm, 1.50 mm

Intermediate support widths [b]: 60 mm, 100 mm, 140 mm, 300 mm

Spans of bays [m]: L_{min} = 2.00 m, L_{max} = 8.50 m

General recommendations

The widths of the end support according to the manufacturer (60 mm) have been given in the following load-bearing capacity tables, yet for the purpose of calculations, the widths of the end support a=10 mm have been assumed in accordance with PN-EN. Tables for two- and three-span systems have been prepared for the following widths of the intermediate support **b**=60 mm, 100 mm, 140 mm and 300 mm.

Presented computational loads should be compared with the values from the tables – line No. 1, for a span not less than that assumed in the structure design.
In case of two-span and three-span metal sheet, a table should be chosen which corresponds to the width of the intermediate support **b** not greater than the width assumed in the structure design.

Linear interpolation can be used both for the intermediate support width **b** and for the spans of bays **L**.

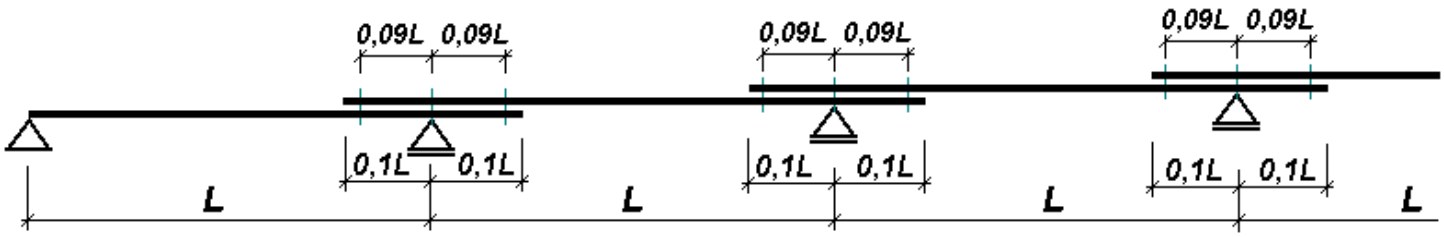
These tables can be used complying with the following conditions:

- The load which has an effect on the adopted static systems is constant and evenly distributed,
- The lengths of spans in the multi-span systems differ by no more than 5%, but to determine the SGN and SGU the greatest length of a span is adopted.
- The method of the attachment of trapezoidal metal sheets is consistent with the manufacturer's instructions.

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

Recommendations for overlap systems

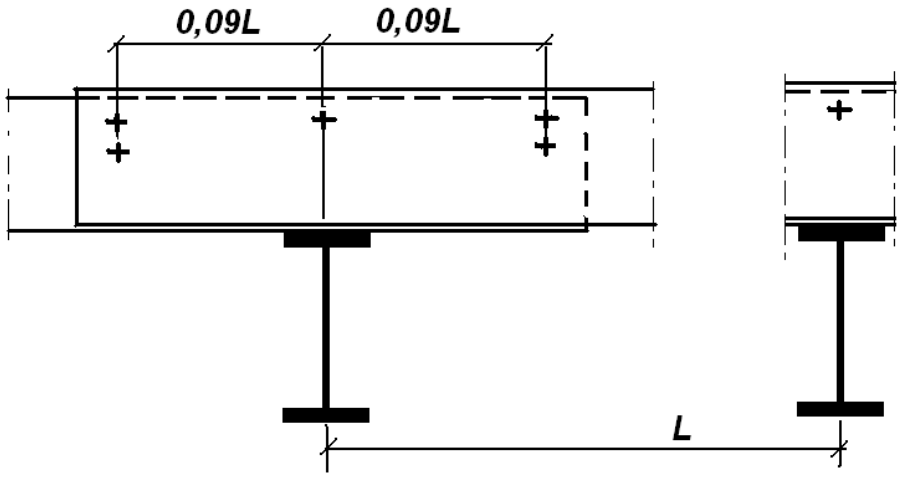
The tables have been drawn up for the installation of overlap metal sheets corresponding to 0.1 of the span of the bay, as shown in the picture*:



For overlap metal sheets, the intermediate support must meet the following condition >=60 mm.

The fasteners shall be placed over the axes of supports (beams) and on both sides of the support within the distance of 0.09 of the span:

The minimum distance of the fastener center of gravity from support



Weight of metal sheets (kg/m²)

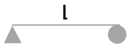
Thickness of steel sheet [mm]	Weight
0,70	8,68
0,75	9,30
0,80	9,92
0,88	10,91
1,00	12,40
1,10	13,64
1,20	14,88
1,25	15,50
1,50	18,60

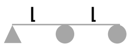
* Tables for overlap metal sheets are available upon reques

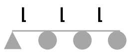
T135-950

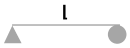
S320 GD

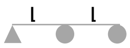
T135a		**The positive / The negative**																											
Number of spans:		**1**	**support 60 - 60**																										
Thickness	*Jy [cm4]*	Case	*2.00*	*2.25*	*2.50*	*2.75*	*3.00*	*3.25*	*3.50*	*3.75*	*4.00*	*4.25*	*4.50*	*4.75*	*5.00*	*5.25*	*5.50*	*5.75*	*6.00*	*6.25*	*6.50*	*6.75*	*7.00*	*7.25*	*7.50*	*7.75*	*8.00*	*8.25*	*8.50*
0.60	min/max	SGN	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.58	1.51	1.45	1.39	1.33	1.25	1.17	1.09	1.02	0.95	0.89	0.84	0.79
	237.74	SGU L/150	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/200	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.79	1.53	1.32	1.15	1.01	0.89	0.79	0.70	0.62	0.56	0.50	0.45	0.41	0.37	0.34	0.31
		SGU L/300	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.00	1.66	1.40	1.19	1.02	0.88	0.77	0.67	0.59	0.52	0.47	0.42	0.37	0.34	0.30	0.27	0.25	0.23	0.21
0.70		SGN	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.47	2.35	2.24	2.15	2.02	1.86	1.72	1.60	1.48	1.38	1.29	1.21	1.14	1.07	1.01
	277.37	SGU L/150	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.39	2.06	1.79	1.57	1.38	1.22	1.09	0.97	0.87	0.78	0.71	0.64	0.58	0.53	0.49
		SGU L/200	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.45	2.09	1.79	1.55	1.34	1.18	1.04	0.92	0.81	0.73	0.65	0.59	0.53	0.48	0.44	0.40	0.36
		SGU L/300	6.17	5.48	4.94	4.49	4.11	3.80	3.48	2.83	2.33	1.94	1.64	1.39	1.19	1.03	0.90	0.78	0.69	0.61	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.27	0.24
0.75		SGN	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	3.04	2.89	2.75	2.63	2.44	2.24	2.06	1.91	1.77	1.64	1.53	1.43	1.34	1.26	1.18	1.12
	297.18	SGU L/150	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/200	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.12	2.63	2.24	1.92	1.66	1.44	1.26	1.11	0.98	0.87	0.78	0.70	0.63	0.57	0.51	0.47	0.43	0.39
		SGU L/300	7.23	6.43	5.78	5.26	4.82	4.45	3.73	3.03	2.50	2.08	1.75	1.49	1.28	1.10	0.96	0.84	0.74	0.65	0.58	0.52	0.47	0.42	0.38	0.34	0.31	0.28	0.26
0.80		SGN	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.48	3.30	3.15	2.93	2.68	2.46	2.27	2.10	1.95	1.81	1.69	1.58	1.48	1.39	1.30	1.23
	316.99	SGU L/150	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.18	2.73	2.36	2.05	1.79	1.58	1.40	1.24	1.11	0.99	0.89	0.81	0.73	0.67	0.61	0.55
		SGU L/200	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	3.99	3.33	2.81	2.39	2.04	1.77	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/300	8.26	7.34	6.61	6.01	5.51	4.96	3.97	3.23	2.66	2.22	1.87	1.59	1.36	1.18	1.02	0.90	0.79	0.70	0.62	0.55	0.50	0.45	0.40	0.37	0.33	0.30	0.28
0.88		SGN	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.47	4.23	4.02	3.71	3.38	3.09	2.84	2.62	2.42	2.24	2.09	1.94	1.82	1.70	1.60	1.50	1.41
	348.69	SGU L/150	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.11	3.50	3.00	2.59	2.25	1.97	1.74	1.54	1.37	1.22	1.09	0.98	0.89	0.81	0.73	0.67	0.61
		SGU L/200	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.33	4.39	3.66	3.09	2.62	2.25	1.94	1.69	1.48	1.30	1.15	1.02	0.91	0.82	0.74	0.67	0.60	0.55	0.50	0.46
		SGU L/300	10.05	8.93	8.04	7.31	6.70	5.46	4.37	3.55	2.93	2.44	2.06	1.75	1.50	1.30	1.13	0.99	0.87	0.77	0.68	0.61	0.55	0.49	0.44	0.40	0.37	0.33	0.31
1.00		SGN	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	6.13	5.79	5.47	4.94	4.48	4.08	3.73	3.43	3.16	2.92	2.71	2.52	2.35	2.20	2.06	1.93	1.81	1.71
	396.24	SGU L/150	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	5.55	4.68	3.98	3.41	2.94	2.56	2.24	1.97	1.75	1.55	1.39	1.24	1.12	1.01	0.92	0.83	0.76	0.69
		SGU L/200	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/300	13.03	11.58	10.42	9.47	7.89	6.21	4.97	4.04	3.33	2.77	2.34	1.99	1.70	1.47	1.28	1.12	0.99	0.87	0.78	0.69	0.62	0.56	0.50	0.46	0.42	0.38	0.35
1.25		SGN	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.87	10.19	9.32	8.32	7.46	6.74	6.11	5.57	5.09	4.68	4.31	3.99	3.70	3.44	3.20	2.99	2.80	2.63	2.47	2.33
	495.30	SGU L/150	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.10	8.32	6.94	5.84	4.97	4.26	3.68	3.20	2.80	2.47	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/200	20.38	18.11	16.30	14.82	13.58	11.63	9.32	7.57	6.24	5.20	4.38	3.73	3.20	2.76	2.40	2.10	1.85	1.64	1.45	1.30	1.16	1.05	0.95	0.86	0.78	0.71	0.65
		SGU L/300	20.38	18.11	16.30	12.80	9.86	7.76	6.21	5.05	4.16	3.47	2.92	2.48	2.13	1.84	1.60	1.40	1.23	1.09	0.97	0.87	0.78	0.70	0.63	0.57	0.52	0.47	0.43
1.50		SGN	29.24	25.99	23.39	21.26	19.49	17.99	16.71	15.18	13.34	11.82	10.54	9.46	8.54	7.74	7.06	6.46	5.93	5.46	5.05	4.69	4.36	4.06	3.80	3.55	3.34	3.14	2.95
	594.36	SGU L/150	29.24	25.99	23.39	21.26	19.49	17.99	14.90	12.12	9.99	8.32	7.01	5.96	5.11	4.42	3.84	3.36	2.96	2.62	2.33	2.08	1.86	1.68	1.51	1.37	1.25	1.14	1.04
		SGU L/200	29.24	25.99	23.39	21.26	17.75	13.96	11.18	9.09	7.49	6.24	5.26	4.47	3.83	3.31	2.88	2.52	2.22	1.96	1.75	1.56	1.40	1.26	1.14	1.03	0.94	0.85	0.78
		SGU L/300	29.24	25.99	20.45	15.36	11.83	9.31	7.45	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
Number of spans:		**2**	**support 60 - 60 - 60**																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	4.69	4.04	3.52	3.11	2.77	2.48	2.24	2.04	1.86	1.71	1.58	1.46	1.35	1.26	1.17	1.10	1.03	0.97	0.91	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60
	237.74	SGU L/150	4.69	4.04	3.52	3.11	2.77	2.48	2.24	2.04	1.86	1.71	1.58	1.46	1.35	1.26	1.17	1.10	1.03	0.97	0.91	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60
		SGU L/200	4.69	4.04	3.52	3.11	2.77	2.48	2.24	2.04	1.86	1.71	1.58	1.46	1.35	1.26	1.17	1.10	1.03	0.97	0.91	0.86	0.81	0.77	0.73	0.69	0.66	0.63	0.60
		SGU L/300	4.69	4.04	3.52	3.11	2.77	2.48	2.24	2.04	1.86	1.71	1.58	1.46	1.35	1.26	1.17	1.10	1.03	0.97	0.91	0.86	0.81	0.77	0.73	0.66	0.60	0.55	0.50
0.70		SGN	6.40	5.49	4.78	4.21	3.74	3.35	3.03	2.75	2.50	2.30	2.11	1.95	1.81	1.68	1.57	1.46	1.37	1.29	1.21	1.14	1.08	1.02	0.97	0.92	0.87	0.83	0.79
	277.37	SGU L/150	6.40	5.49	4.78	4.21	3.74	3.35	3.03	2.75	2.50	2.30	2.11	1.95	1.81	1.68	1.57	1.46	1.37	1.29	1.21	1.14	1.08	1.02	0.97	0.92	0.87	0.83	0.79
		SGU L/200	6.40	5.49	4.78	4.21	3.74	3.35	3.03	2.75	2.50	2.30	2.11	1.95	1.81	1.68	1.57	1.46	1.37	1.29	1.21	1.14	1.08	1.02	0.97	0.92	0.87	0.83	0.79
		SGU L/300	6.40	5.49	4.78	4.21	3.74	3.35	3.03	2.75	2.50	2.30	2.11	1.95	1.81	1.68	1.57	1.46	1.37	1.29	1.21	1.14	1.05	0.94	0.85	0.77	0.70	0.64	0.58
0.75		SGN	7.33	6.29	5.47	4.81	4.27	3.83	3.45	3.13	2.85	2.61	2.40	2.22	2.05	1.91	1.78	1.66	1.55	1.46	1.37	1.29	1.22	1.15	1.09	1.03	0.98	0.93	0.89
	297.18	SGU L/150	7.33	6.29	5.47	4.81	4.27	3.83	3.45	3.13	2.85	2.61	2.40	2.22	2.05	1.91	1.78	1.66	1.55	1.46	1.37	1.29	1.22	1.15	1.09	1.03	0.98	0.93	0.89
		SGU L/200	7.33	6.29	5.47	4.81	4.27	3.83	3.45	3.13	2.85	2.61	2.40	2.22	2.05	1.91	1.78	1.66	1.55	1.46	1.37	1.29	1.22	1.15	1.09	1.03	0.98	0.93	0.89
		SGU L/300	7.33	6.29	5.47	4.81	4.27	3.83	3.45	3.13	2.85	2.61	2.40	2.22	2.05	1.91	1.78	1.66	1.55	1.46	1.37	1.25	1.12	1.01	0.91	0.83	0.75	0.68	0.63
0.80		SGN	8.25	7.07	6.15	5.40	4.79	4.29	3.86	3.50	3.19	2.92	2.69	2.48	2.29	2.13	1.98	1.85	1.73	1.62	1.53	1.44	1.36	1.28	1.21	1.15	1.09	1.04	0.99
	316.99	SGU L/150	8.25	7.07	6.15	5.40	4.79	4.29	3.86	3.50	3.19	2.92	2.69	2.48	2.29	2.13	1.98	1.85	1.73	1.62	1.53	1.44	1.36	1.28	1.21	1.15	1.09	1.04	0.99
		SGU L/200	8.25	7.07	6.15	5.40	4.79	4.29	3.86	3.50	3.19	2.92	2.69	2.48	2.29	2.13	1.98	1.85	1.73	1.62	1.53	1.44	1.36	1.28	1.21	1.15	1.09	1.04	0.99
		SGU L/300	8.25	7.07	6.15	5.40	4.79	4.29	3.86	3.50	3.19	2.92	2.69	2.48	2.29	2.13	1.98	1.85	1.73	1.62	1.49	1.33	1.19	1.08	0.97	0.88	0.80	0.73	0.67
0.88		SGN	9.80	8.39	7.28	6.40	5.67	5.07	4.56	4.13	3.76	3.44	3.16	2.92	2.70	2.50	2.33	2.17	2.03	1.91	1.79	1.69	1.59	1.50	1.42	1.35	1.28	1.22	1.16
	348.69	SGU L/150	9.80	8.39	7.28	6.40	5.67	5.07	4.56	4.13	3.76	3.44	3.16	2.92	2.70	2.50	2.33	2.17	2.03	1.91	1.79	1.69	1.59	1.50	1.42	1.35	1.28	1.22	1.16
		SGU L/200	9.80	8.39	7.28	6.40	5.67	5.07	4.56	4.13	3.76	3.44	3.16	2.92	2.70	2.50	2.33	2.17	2.03	1.91	1.79	1.69	1.59	1.50	1.42	1.35	1.28	1.20	1.10
		SGU L/300	9.80	8.39	7.28	6.40	5.67	5.07	4.56	4.13	3.76	3.44	3.16	2.92	2.70	2.50	2.33	2.17	2.03	1.85	1.64	1.47	1.31	1.18	1.07	0.97	0.88	0.80	0.73
1.00		SGN	12.30	10.52	9.12	8.00	7.09	6.33	5.69	5.15	4.68	4.28	3.93	3.62	3.35	3.10	2.89	2.69	2.52	2.36	2.22	2.08	1.97	1.86	1.76	1.66	1.58	1.50	1.43
	396.24	SGU L/150	12.30	10.52	9.12	8.00	7.09	6.33	5.69	5.15	4.68	4.28	3.93	3.62	3.35	3.10	2.89	2.69	2.52	2.36	2.22	2.08	1.97	1.86	1.76	1.66	1.58	1.50	1.43
		SGU L/200	12.30	10.52	9.12	8.00	7.09	6.33	5.69	5.15	4.68	4.28	3.93	3.62	3.35	3.10	2.89	2.69	2.52	2.36	2.22	2.08	1.97	1.86	1.76	1.65	1.50	1.37	1.25
		SGU L/300	12.30	10.52	9.12	8.00	7.09	6.33	5.69	5.15	4.68	4.28	3.93	3.62	3.35	3.10	2.89	2.69	2.37	2.10	1.87	1.67	1.49	1.34	1.21	1.10	1.00	0.91	0.83
1.25		SGN	18.08	15.41	13.33	11.66	10.30	9.17	8.23	7.43	6.75	6.16	5.65	5.20	4.80	4.45	4.13	3.85	3.59	3.36	3.15	2.96	2.79	2.63	2.49	2.36	2.24	2.12	2.02
	495.30	SGU L/150	18.08	15.41	13.33	11.66	10.30	9.17	8.23	7.43	6.75	6.16	5.65	5.20	4.80	4.45	4.13	3.85	3.59	3.36	3.15	2.96	2.79	2.63	2.49	2.36	2.24	2.12	2.02
		SGU L/200	18.08	15.41	13.33	11.66	10.30	9.17	8.23	7.43	6.75	6.16	5.65	5.20	4.80	4.45	4.13	3.85	3.59	3.36	3.15	2.96	2.79	2.52	2.28	2.06	1.88	1.71	1.56
		SGU L/300	18.08	15.41	13.33	11.66	10.30	9.17	8.23	7.43	6.75	6.16	5.65	5.20	4.80	4.43	3.85	3.37	2.96	2.62	2.33	2.08	1.87	1.68	1.52	1.38	1.25	1.14	1.04
1.50		SGN	24.50	20.83	17.97	15.68	13.82	12.29	11.01	9.92	9.00	8.20	7.50	6.89	6.35	5.88	5.45	5.07	4.73	4.43	4.15	3.90	3.67	3.46	3.26	3.09	2.93	2.78	2.64
	594.36	SGU L/150	24.50	20.83	17.97	15.68	13.82	12.29	11.01	9.92	9.00	8.20	7.50	6.89	6.35	5.88	5.45	5.07	4.73	4.43	4.15	3.90	3.67	3.46	3.26	3.09	2.93	2.74	2.50
		SGU L/200	24.50	20.83	17.97	15.68	13.82	12.29	11.01	9.92	9.00	8.20	7.50	6.89	6.35	5.88	5.45	5.07	4.73	4.43	4.15	3.75	3.36	3.02	2.73	2.48	2.25	2.05	1.88
		SGU L/300	24.50	20.83	17.97	15.68	13.82	12.29	11.01	9.92	9.00	8.20	7.50	6.89	6.15	5.31	4.62	4.04	3.56	3.15	2.80	2.50	2.24	2.02	1.82	1.65	1.50	1.37	1.25
Number of spans:		**3**	**support 60 - 60 - 60 - 60**																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	5.42	4.71	4.12	3.64	3.25	2.92	2.64	2.40	2.20	2.02	1.87	1.73	1.61	1.50	1.40	1.31	1.23	1.15	1.09	1.03	0.97	0.92	0.87	0.83	0.79	0.75	0.72
	237.74	SGU L/150	5.42	4.71	4.12	3.64	3.25	2.92	2.64	2.40	2.20	2.02	1.87	1.73	1.61	1.50	1.40	1.31	1.23	1.15	1.09	1.03	0.97	0.92	0.87	0.83	0.79	0.75	0.72
		SGU L/200	5.42	4.71	4.12	3.64	3.25	2.92	2.64	2.40	2.20	2.02	1.87	1.73	1.61	1.50	1.40	1.31	1.23	1.15	1.09	1.03	0.97	0.92	0.86	0.78	0.71	0.65	0.59
		SGU L/300	5.42	4.71	4.12	3.64	3.25	2.92	2.64	2.40	2.20	2.02	1.87	1.73	1.61	1.50	1.40	1.27	1.12	0.99	0.88	0.79	0.70	0.63	0.57	0.52	0.47	0.43	0.39
0.70		SGN	7.46	6.42	5.60	4.94	4.40	3.95	3.57	3.24	2.96	2.72	2.51	2.32	2.15	2.00	1.87	1.75	1.64	1.54	1.45	1.37	1.29	1.22	1.16	1.10	1.05	1.00	0.95
	277.37	SGU L/150	7.46	6.42	5.60	4.94	4.40	3.95	3.57	3.24	2.96	2.72	2.51	2.32	2.15	2.00	1.87	1.75	1.64	1.54	1.45	1.37	1.29	1.22	1.16	1.10	1.05	1.00	0.92
		SGU L/200	7.46	6.42	5.60	4.94	4.40	3.95	3.57	3.24	2.96	2.72	2.51	2.32	2.15	2.00	1.87	1.75	1.64	1.54	1.45	1.37	1.23	1.11	1.00	0.91	0.83	0.75	0.69
		SGU L/300	7.46	6.42	5.60	4.94	4.40	3.95	3.57	3.24	2.96	2.72	2.51	2.32	2.15	1.95	1.69	1.48	1.31	1.15	1.03	0.92	0.82	0.74	0.67	0.61	0.55	0.50	0.46
0.75		SGN	8.56	7.36	6.42	5.66	5.03	4.51	4.07	3.70	3.38	3.10	2.85	2.64	2.45	2.27	2.12	1.98	1.86	1.74	1.64	1.55	1.46	1.38	1.31	1.25	1.18	1.13	1.07
	297.18	SGU L/150	8.56	7.36	6.42	5.66	5.03	4.51	4.07	3.70	3.38	3.10	2.85	2.64	2.45	2.27	2.12	1.98	1.86	1.74	1.64	1.55	1.46	1.38	1.31	1.25	1.18	1.08	0.98
		SGU L/200	8.56	7.36	6.42	5.66	5.03	4.51	4.07	3.70	3.38	3.10	2.85	2.64	2.45	2.27	2.12	1.98	1.86	1.74	1.64	1.47	1.32	1.19	1.07	0.97	0.89	0.81	0.74
		SGU L/300	8.56	7.36	6.42	5.66	5.03	4.51	4.07	3.70	3.38	3.10	2.85	2.64	2.42	2.09	1.82	1.59	1.40	1.24	1.10	0.98	0.88	0.79	0.72	0.65	0.59	0.54	0.49
0.80		SGN	9.64	8.28	7.21	6.35	5.65	5.06	4.57	4.15	3.78	3.47	3.19	2.95	2.73	2.54	2.37	2.21	2.07	1.95	1.83	1.73	1.63	1.54	1.46	1.39	1.32	1.25	1.20
	316.99	SGU L/150	9.64	8.28	7.21	6.35	5.65	5.06	4.57	4.15	3.78	3.47	3.19	2.95	2.73	2.54	2.37	2.21	2.07	1.95	1.83	1.73	1.63	1.54	1.46	1.38	1.26	1.15	1.05
		SGU L/200	9.64	8.28	7.21	6.35	5.65	5.06	4.57	4.15	3.78	3.47	3.19	2.95	2.73	2.54	2.37	2.21	2.07	1.95	1.76	1.57	1.41	1.27	1.15	1.04	0.94	0.86	0.79
		SGU L/300	9.64	8.28	7.21	6.35	5.65	5.06	4.57	4.15	3.78	3.47	3.19	2.95	2.58	2.23	1.94	1.70	1.49	1.32	1.17	1.05	0.94	0.85	0.76	0.69	0.63	0.57	0.52
0.88		SGN	11.46	9.83	8.56	7.53	6.69	5.99	5.40	4.90	4.47	4.09	3.76	3.48	3.22	2.99	2.79	2.60	2.44	2.29	2.15	2.03	1.91	1.81	1.71	1.63	1.55	1.47	1.40
	348.69	SGU L/150	11.46	9.83	8.56	7.53	6.69	5.99	5.40	4.90	4.47	4.09	3.76	3.48	3.22	2.99	2.79	2.60	2.44	2.29	2.15	2.03	1.91	1.81	1.68	1.52	1.38	1.26	1.15
		SGU L/200	11.46	9.83	8.56	7.53	6.69	5.99	5.40	4.90	4.47	4.09	3.76	3.48	3.22	2.99	2.79	2.60	2.44	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/300	11.46	9.83	8.56	7.53	6.69	5.99	5.40	4.90	4.47	4.09	3.76	3.31	2.84	2.45	2.13	1.86	1.64	1.45	1.29	1.15	1.03	0.93	0.84	0.76	0.69	0.63	0.58
1.00		SGN	14.40	12.34	10.72	9.42	8.37	7.48	6.74	6.11	5.57	5.09	4.68	4.32	4.00	3.71	3.46	3.23	3.02	2.83	2.66	2.51	2.37	2.24	2.12	2.01	1.91	1.81	1.73
	396.24	SGU L/150	14.40	12.34	10.72	9.42	8.37	7.48	6.74	6.11	5.57	5.09	4.68	4.32	4.00	3.71	3.46	3.23	3.02	2.83	2.66	2.51	2.35	2.11	1.91	1.73	1.57	1.43	1.31
		SGU L/200	14.40	12.34	10.72	9.42	8.37	7.48	6.74	6.11	5.57	5.09	4.68	4.32	4.00	3.71	3.46	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98
		SGU L/300	14.40	12.34	10.72	9.42	8.37	7.48	6.74	6.11	5.57	5.09	4.42	3.76	3.22	2.78	2.42	2.12	1.86	1.65	1.47	1.31	1.17	1.06	0.95	0.87	0.79	0.72	0.66
1.25		SGN	21.21	18.13	15.71	13.77	12.19	10.88	9.78	8.84	8.04	7.35	6.75	6.22	5.75	5.33	4.96	4.62	4.32	4.05	3.80	3.58	3.37	3.18	3.01	2.85	2.71	2.57	2.45
	495.30	SGU L/150	21.21	18.13	15.71	13.77	12.19	10.88	9.78	8.84	8.04	7.35	6.75	6.22	5.75	5.33	4.96	4.62	4.32	4.05	3.67	3.27	2.94	2.64	2.39	2.16	1.97	1.79	1.64
		SGU L/200	21.21	18.13	15.71	13.77	12.19	10.88	9.78	8.84	8.04	7.35	6.75	6.22	5.75	5.22	4.54	3.97	3.50	3.09	2.75	2.46	2.20	1.98	1.79	1.62	1.48	1.35	1.23
		SGU L/300	21.21	18.13	15.71	13.77	12.19	10.88	9.78	8.84	7.87	6.56	5.53	4.70	4.03	3.48	3.03	2.65	2.33	2.06	1.83	1.64	1.47	1.32	1.19	1.08	0.98	0.90	0.82
1.50		SGN	28.78	24.56	21.23	18.57	16.40	14.61	13.11	11.84	10.75	9.81	8.99	8.27	7.63	7.07	6.56	6.11	5.71	5.34	5.01	4.71	4.44	4.19	3.96	3.75	3.55	3.37	3.21
	594.36	SGU L/150	28.78	24.56	21.23	18.57	16.40	14.61	13.11	11.84	10.75	9.81	8.99	8.27	7.63	7.07	6.56	6.11	5.59	4.95	4.40	3.93	3.52	3.17	2.86	2.60	2.36	2.15	1.97
		SGU L/200	28.78	24.56	21.23	18.57	16.40	14.61	13.11	11.84	10.75	9.81	8.99	8.27	7.25	6.26	5.45	4.77	4.20	3.71	3.30	2.95	2.64	2.38	2.15	1.95	1.77	1.61	1.48
		SGU L/300	28.78	24.56	21.23	18.57	16.40	14.61	13.11	11.46	9.44	7.87	6.63	5.64	4.83	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98

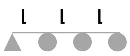












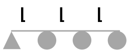
T135a		The positive / The negative																											
Number of spans:		1	support 60 - 60																										
Thickness	*Jy [cm4]*	Case	*2.00*	*2.25*	*2.50*	*2.75*	*3.00*	*3.25*	*3.50*	*3.75*	*4.00*	*4.25*	*4.50*	*4.75*	*5.00*	*5.25*	*5.50*	*5.75*	*6.00*	*6.25*	*6.50*	*6.75*	*7.00*	*7.25*	*7.50*	*7.75*	*8.00*	*8.25*	*8.50*
0.60	min/max	SGN	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.58	1.51	1.45	1.39	1.33	1.25	1.17	1.09	1.02	0.95	0.89	0.84	0.79
	237.74	SGU L/150	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/200	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.79	1.53	1.32	1.15	1.01	0.89	0.79	0.70	0.62	0.56	0.50	0.45	0.41	0.37	0.34	0.31
		SGU L/300	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.00	1.66	1.40	1.19	1.02	0.88	0.77	0.67	0.59	0.52	0.47	0.42	0.37	0.34	0.30	0.27	0.25	0.23	0.21
0.70		SGN	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.47	2.35	2.24	2.15	2.02	1.86	1.72	1.60	1.48	1.38	1.29	1.21	1.14	1.07	1.01
	277.37	SGU L/150	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.39	2.06	1.79	1.57	1.38	1.22	1.09	0.97	0.87	0.78	0.71	0.64	0.58	0.53	0.49
		SGU L/200	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.45	2.09	1.79	1.55	1.34	1.18	1.04	0.92	0.81	0.73	0.65	0.59	0.53	0.48	0.44	0.40	0.36
		SGU L/300	6.17	5.48	4.94	4.49	4.11	3.80	3.48	2.83	2.33	1.94	1.64	1.39	1.19	1.03	0.90	0.78	0.69	0.61	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.27	0.24
0.75		SGN	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	3.04	2.89	2.75	2.63	2.44	2.24	2.06	1.91	1.77	1.64	1.53	1.43	1.34	1.26	1.18	1.12
	297.18	SGU L/150	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/200	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.12	2.63	2.24	1.92	1.66	1.44	1.26	1.11	0.98	0.87	0.78	0.70	0.63	0.57	0.51	0.47	0.43	0.39
		SGU L/300	7.23	6.43	5.78	5.26	4.82	4.45	3.73	3.03	2.50	2.08	1.75	1.49	1.28	1.10	0.96	0.84	0.74	0.65	0.58	0.52	0.47	0.42	0.38	0.34	0.31	0.28	0.26
0.80		SGN	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.48	3.30	3.15	2.93	2.68	2.46	2.27	2.10	1.95	1.81	1.69	1.58	1.48	1.39	1.30	1.23
	316.99	SGU L/150	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.18	2.73	2.36	2.05	1.79	1.58	1.40	1.24	1.11	0.99	0.89	0.81	0.73	0.67	0.61	0.55
		SGU L/200	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	3.99	3.33	2.81	2.39	2.04	1.77	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/300	8.26	7.34	6.61	6.01	5.51	4.96	3.97	3.23	2.66	2.22	1.87	1.59	1.36	1.18	1.02	0.90	0.79	0.70	0.62	0.55	0.50	0.45	0.40	0.37	0.33	0.30	0.28
0.88		SGN	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.47	4.23	4.02	3.71	3.38	3.09	2.84	2.62	2.42	2.24	2.09	1.94	1.82	1.70	1.60	1.50	1.41
	348.69	SGU L/150	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.11	3.50	3.00	2.59	2.25	1.97	1.74	1.54	1.37	1.22	1.09	0.98	0.89	0.81	0.73	0.67	0.61
		SGU L/200	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.33	4.39	3.66	3.09	2.62	2.25	1.94	1.69	1.48	1.30	1.15	1.02	0.91	0.82	0.74	0.67	0.60	0.55	0.50	0.46
		SGU L/300	10.05	8.93	8.04	7.31	6.70	5.46	4.37	3.55	2.93	2.44	2.06	1.75	1.50	1.30	1.13	0.99	0.87	0.77	0.68	0.61	0.55	0.49	0.44	0.40	0.37	0.33	0.31
1.00		SGN	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	6.13	5.79	5.47	4.94	4.48	4.08	3.73	3.43	3.16	2.92	2.71	2.52	2.35	2.20	2.06	1.93	1.81	1.71
	396.24	SGU L/150	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	5.55	4.68	3.98	3.41	2.94	2.56	2.24	1.97	1.75	1.55	1.39	1.24	1.12	1.01	0.92	0.83	0.76	0.69
		SGU L/200	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/300	13.03	11.58	10.42	9.47	7.89	6.21	4.97	4.04	3.33	2.77	2.34	1.99	1.70	1.47	1.28	1.12	0.99	0.87	0.78	0.69	0.62	0.56	0.50	0.46	0.42	0.38	0.35
1.25		SGN	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.87	10.19	9.32	8.32	7.46	6.74	6.11	5.57	5.09	4.68	4.31	3.99	3.70	3.44	3.20	2.99	2.80	2.63	2.47	2.33
	495.30	SGU L/150	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.10	8.32	6.94	5.84	4.97	4.26	3.68	3.20	2.80	2.47	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/200	20.38	18.11	16.30	14.82	13.58	11.63	9.32	7.57	6.24	5.20	4.38	3.73	3.20	2.76	2.40	2.10	1.85	1.64	1.45	1.30	1.16	1.05	0.95	0.86	0.78	0.71	0.65
		SGU L/300	20.38	18.11	16.30	12.80	9.86	7.76	6.21	5.05	4.16	3.47	2.92	2.48	2.13	1.84	1.60	1.40	1.23	1.09	0.97	0.87	0.78	0.70	0.63	0.57	0.52	0.47	0.43
1.50		SGN	29.24	25.99	23.39	21.26	19.49	17.99	16.71	15.18	13.34	11.82	10.54	9.46	8.54	7.74	7.06	6.46	5.93	5.46	5.05	4.69	4.36	4.06	3.80	3.55	3.34	3.14	2.95
	594.36	SGU L/150	29.24	25.99	23.39	21.26	19.49	17.99	14.90	12.12	9.99	8.32	7.01	5.96	5.11	4.42	3.84	3.36	2.96	2.62	2.33	2.08	1.86	1.68	1.51	1.37	1.25	1.14	1.04
		SGU L/200	29.24	25.99	23.39	21.26	17.75	13.96	11.18	9.09	7.49	6.24	5.26	4.47	3.83	3.31	2.88	2.52	2.22	1.96	1.75	1.56	1.40	1.26	1.14	1.03	0.94	0.85	0.78
		SGU L/300	29.24	25.99	20.45	15.36	11.83	9.31	7.45	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
Number of spans:		2	support 60 - 100 - 60																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	5.39	4.62	4.01	3.52	3.13	2.79	2.52	2.28	2.08	1.90	1.75	1.61	1.49	1.38	1.29	1.20	1.12	1.05	0.99	0.93	0.88	0.83	0.79	0.75	0.71	0.67	0.64
	237.74	SGU L/150	5.39	4.62	4.01	3.52	3.13	2.79	2.52	2.28	2.08	1.90	1.75	1.61	1.49	1.38	1.29	1.20	1.12	1.05	0.99	0.93	0.88	0.83	0.79	0.75	0.71	0.67	0.64
		SGU L/200	5.39	4.62	4.01	3.52	3.13	2.79	2.52	2.28	2.08	1.90	1.75	1.61	1.49	1.38	1.29	1.20	1.12	1.05	0.99	0.93	0.88	0.83	0.79	0.75	0.71	0.67	0.64
		SGU L/300	5.39	4.62	4.01	3.52	3.13	2.79	2.52	2.28	2.08	1.90	1.75	1.61	1.49	1.38	1.29	1.20	1.12	1.05	0.99	0.93	0.88	0.81	0.73	0.66	0.60	0.55	0.50
0.70		SGN	7.30	6.24	5.41	4.74	4.20	3.75	3.37	3.05	2.77	2.54	2.33	2.14	1.98	1.84	1.71	1.59	1.49	1.40	1.31	1.23	1.16	1.10	1.04	0.98	0.93	0.89	0.84
	277.37	SGU L/150	7.30	6.24	5.41	4.74	4.20	3.75	3.37	3.05	2.77	2.54	2.33	2.14	1.98	1.84	1.71	1.59	1.49	1.40	1.31	1.23	1.16	1.10	1.04	0.98	0.93	0.89	0.84
		SGU L/200	7.30	6.24	5.41	4.74	4.20	3.75	3.37	3.05	2.77	2.54	2.33	2.14	1.98	1.84	1.71	1.59	1.49	1.40	1.31	1.23	1.16	1.10	1.04	0.98	0.93	0.89	0.84
		SGU L/300	7.30	6.24	5.41	4.74	4.20	3.75	3.37	3.05	2.77	2.54	2.33	2.14	1.98	1.84	1.71	1.59	1.49	1.40	1.31	1.17	1.05	0.94	0.85	0.77	0.70	0.64	0.58
0.75		SGN	8.35	7.13	6.17	5.40	4.78	4.26	3.83	3.46	3.15	2.87	2.64	2.43	2.24	2.08	1.93	1.80	1.68	1.57	1.48	1.39	1.31	1.24	1.17	1.11	1.05	1.00	0.95
	297.18	SGU L/150	8.35	7.13	6.17	5.40	4.78	4.26	3.83	3.46	3.15	2.87	2.64	2.43	2.24	2.08	1.93	1.80	1.68	1.57	1.48	1.39	1.31	1.24	1.17	1.11	1.05	1.00	0.95
		SGU L/200	8.35	7.13	6.17	5.40	4.78	4.26	3.83	3.46	3.15	2.87	2.64	2.43	2.24	2.08	1.93	1.80	1.68	1.57	1.48	1.39	1.31	1.24	1.17	1.11	1.05	1.00	0.94
		SGU L/300	8.35	7.13	6.17	5.40	4.78	4.26	3.83	3.46	3.15	2.87	2.64	2.43	2.24	2.08	1.93	1.80	1.68	1.57	1.40	1.25	1.12	1.01	0.91	0.83	0.75	0.68	0.63
0.80		SGN	9.36	7.99	6.91	6.05	5.35	4.77	4.28	3.87	3.51	3.21	2.94	2.71	2.50	2.32	2.15	2.00	1.87	1.75	1.64	1.55	1.46	1.38	1.30	1.23	1.17	1.11	1.05
	316.99	SGU L/150	9.36	7.99	6.91	6.05	5.35	4.77	4.28	3.87	3.51	3.21	2.94	2.71	2.50	2.32	2.15	2.00	1.87	1.75	1.64	1.55	1.46	1.38	1.30	1.23	1.17	1.11	1.05
		SGU L/200	9.36	7.99	6.91	6.05	5.35	4.77	4.28	3.87	3.51	3.21	2.94	2.71	2.50	2.32	2.15	2.00	1.87	1.75	1.64	1.55	1.46	1.38	1.30	1.23	1.17	1.09	1.00
		SGU L/300	9.36	7.99	6.91	6.05	5.35	4.77	4.28	3.87	3.51	3.21	2.94	2.71	2.50	2.32	2.15	2.00	1.87	1.68	1.49	1.33	1.19	1.08	0.97	0.88	0.80	0.73	0.67
0.88		SGN	11.08	9.45	8.17	7.14	6.31	5.62	5.04	4.55	4.13	3.77	3.45	3.18	2.93	2.71	2.52	2.35	2.19	2.05	1.92	1.81	1.70	1.61	1.52	1.44	1.36	1.29	1.23
	348.69	SGU L/150	11.08	9.45	8.17	7.14	6.31	5.62	5.04	4.55	4.13	3.77	3.45	3.18	2.93	2.71	2.52	2.35	2.19	2.05	1.92	1.81	1.70	1.61	1.52	1.44	1.36	1.29	1.23
		SGU L/200	11.08	9.45	8.17	7.14	6.31	5.62	5.04	4.55	4.13	3.77	3.45	3.18	2.93	2.71	2.52	2.35	2.19	2.05	1.92	1.81	1.70	1.61	1.52	1.44	1.32	1.20	1.10
		SGU L/300	11.08	9.45	8.17	7.14	6.31	5.62	5.04	4.55	4.13	3.77	3.45	3.18	2.93	2.71	2.52	2.35	2.09	1.85	1.64	1.47	1.31	1.18	1.07	0.97	0.88	0.80	0.73
1.00		SGN	13.85	11.79	10.17	8.89	7.85	6.98	6.26	5.64	5.12	4.67	4.28	3.93	3.62	3.35	3.11	2.90	2.70	2.53	2.37	2.23	2.10	1.98	1.87	1.77	1.68	1.59	1.51
	396.24	SGU L/150	13.85	11.79	10.17	8.89	7.85	6.98	6.26	5.64	5.12	4.67	4.28	3.93	3.62	3.35	3.11	2.90	2.70	2.53	2.37	2.23	2.10	1.98	1.87	1.77	1.68	1.59	1.51
		SGU L/200	13.85	11.79	10.17	8.89	7.85	6.98	6.26	5.64	5.12	4.67	4.28	3.93	3.62	3.35	3.11	2.90	2.70	2.53	2.37	2.23	2.10	1.98	1.82	1.65	1.50	1.37	1.25
		SGU L/300	13.85	11.79	10.17	8.89	7.85	6.98	6.26	5.64	5.12	4.67	4.28	3.93	3.62	3.35	3.08	2.69	2.37	2.10	1.87	1.67	1.49	1.34	1.21	1.10	1.00	0.91	0.83
1.25		SGN	20.19	17.13	14.75	12.85	11.31	10.04	8.98	8.09	7.32	6.67	6.10	5.60	5.16	4.77	4.42	4.11	3.83	3.58	3.35	3.15	2.96	2.79	2.63	2.49	2.36	2.24	2.12
	495.30	SGU L/150	20.19	17.13	14.75	12.85	11.31	10.04	8.98	8.09	7.32	6.67	6.10	5.60	5.16	4.77	4.42	4.11	3.83	3.58	3.35	3.15	2.96	2.79	2.63	2.49	2.36	2.24	2.09
		SGU L/200	20.19	17.13	14.75	12.85	11.31	10.04	8.98	8.09	7.32	6.67	6.10	5.60	5.16	4.77	4.42	4.11	3.83	3.58	3.35	3.12	2.80	2.52	2.28	2.06	1.88	1.71	1.56
		SGU L/300	20.19	17.13	14.75	12.85	11.31	10.04	8.98	8.09	7.32	6.67	6.10	5.60	5.12	4.43	3.85	3.37	2.96	2.62	2.33	2.08	1.87	1.68	1.52	1.38	1.25	1.14	1.04
1.50		SGN	27.16	22.99	19.74	17.16	15.08	13.36	11.93	10.72	9.70	8.81	8.05	7.38	6.79	6.26	5.80	5.39	5.02	4.68	4.38	4.11	3.86	3.64	3.43	3.24	3.07	2.91	2.76
	594.36	SGU L/150	27.16	22.99	19.74	17.16	15.08	13.36	11.93	10.72	9.70	8.81	8.05	7.38	6.79	6.26	5.80	5.39	5.02	4.68	4.38	4.11	3.86	3.64	3.43	3.24	3.00	2.74	2.50
		SGU L/200	27.16	22.99	19.74	17.16	15.08	13.36	11.93	10.72	9.70	8.81	8.05	7.38	6.79	6.26	5.80	5.39	5.02	4.68	4.20	3.75	3.36	3.02	2.73	2.48	2.25	2.05	1.88
		SGU L/300	27.16	22.99	19.74	17.16	15.08	13.36	11.93	10.72	9.70	8.81	8.05	7.17	6.15	5.31	4.62	4.04	3.56	3.15	2.80	2.50	2.24	2.02	1.82	1.65	1.50	1.37	1.25
Number of spans:		3	support 60 - 100 - 100 - 60																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	5.42	4.82	4.34	3.94	3.62	3.30	2.98	2.70	2.46	2.26	2.08	1.92	1.78	1.65	1.54	1.44	1.35	1.26	1.19	1.12	1.06	1.00	0.95	0.90	0.86	0.81	0.78
	237.74	SGU L/150	5.42	4.82	4.34	3.94	3.62	3.30	2.98	2.70	2.46	2.26	2.08	1.92	1.78	1.65	1.54	1.44	1.35	1.26	1.19	1.12	1.06	1.00	0.95	0.90	0.86	0.81	0.78
		SGU L/200	5.42	4.82	4.34	3.94	3.62	3.30	2.98	2.70	2.46	2.26	2.08	1.92	1.78	1.65	1.54	1.44	1.35	1.26	1.19	1.12	1.06	0.95	0.86	0.78	0.71	0.65	0.59
		SGU L/300	5.42	4.82	4.34	3.94	3.62	3.30	2.98	2.70	2.46	2.26	2.08	1.92	1.78	1.65	1.45	1.27	1.12	0.99	0.88	0.79	0.70	0.63	0.57	0.52	0.47	0.43	0.39
0.70		SGN	7.71	6.85	6.17	5.59	4.96	4.44	3.99	3.62	3.30	3.02	2.77	2.56	2.37	2.20	2.05	1.91	1.79	1.68	1.58	1.48	1.40	1.32	1.25	1.19	1.13	1.07	1.02
	277.37	SGU L/150	7.71	6.85	6.17	5.59	4.96	4.44	3.99	3.62	3.30	3.02	2.77	2.56	2.37	2.20	2.05	1.91	1.79	1.68	1.58	1.48	1.40	1.32	1.25	1.19	1.10	1.00	0.92
		SGU L/200	7.71	6.85	6.17	5.59	4.96	4.44	3.99	3.62	3.30	3.02	2.77	2.56	2.37	2.20	2.05	1.91	1.79	1.68	1.54	1.38	1.23	1.11	1.00	0.91	0.83	0.75	0.69
		SGU L/300	7.71	6.85	6.17	5.59	4.96	4.44	3.99	3.62	3.30	3.02	2.77	2.56	2.26	1.95	1.69	1.48	1.31	1.15	1.03	0.92	0.82	0.74	0.67	0.61	0.55	0.50	0.46
0.75		SGN	9.04	8.03	7.23	6.38	5.65	5.05	4.54	4.11	3.74	3.42	3.15	2.90	2.68	2.49	2.32	2.16	2.02	1.89	1.78	1.68	1.58	1.49	1.41	1.34	1.27	1.21	1.15
	297.18	SGU L/150	9.04	8.03	7.23	6.38	5.65	5.05	4.54	4.11	3.74	3.42	3.15	2.90	2.68	2.49	2.32	2.16	2.02	1.89	1.78	1.68	1.58	1.49	1.41	1.30	1.18	1.08	0.98
		SGU L/200	9.04	8.03	7.23	6.38	5.65	5.05	4.54	4.11	3.74	3.42	3.15	2.90	2.68	2.49	2.32	2.16	2.02	1.86	1.65	1.47	1.32	1.19	1.07	0.97	0.89	0.81	0.74
		SGU L/300	9.04	8.03	7.23	6.38	5.65	5.05	4.54	4.11	3.74	3.42	3.15	2.82	2.42	2.09	1.82	1.59	1.40	1.24	1.10	0.98	0.88	0.79	0.72	0.65	0.59	0.54	0.49
0.80		SGN	10.33	9.18	8.15	7.15	6.33	5.65	5.08	4.60	4.18	3.83	3.51	3.24	2.99	2.78	2.58	2.41	2.25	2.11	1.98	1.87	1.76	1.66	1.57	1.49	1.41	1.34	1.28
	316.99	SGU L/150	10.33	9.18	8.15	7.15	6.33	5.65	5.08	4.60	4.18	3.83	3.51	3.24	2.99	2.78	2.58	2.41	2.25	2.11	1.98	1.87	1.76	1.66	1.53	1.38	1.26	1.15	1.05
		SGU L/200	10.33	9.18	8.15	7.15	6.33	5.65	5.08	4.60	4.18	3.83	3.51	3.24	2.99	2.78	2.58	2.41	2.24	1.98	1.76	1.57	1.41	1.27	1.15	1.04	0.94	0.86	0.79
		SGU L/300	10.33	9.18	8.15	7.15	6.33	5.65	5.08	4.60	4.18	3.83	3.51	3.01	2.58	2.23	1.94	1.70	1.49	1.32	1.17	1.05	0.94	0.85	0.76	0.69	0.63	0.57	0.52
0.88		SGN	12.56	11.11	9.63	8.44	7.47	6.66	5.99	5.42	4.92	4.50	4.13	3.80	3.52	3.26	3.03	2.82	2.64	2.47	2.32	2.18	2.06	1.94	1.84	1.74	1.65	1.57	1.49
	348.69	SGU L/150	12.56	11.11	9.63	8.44	7.47	6.66	5.99	5.42	4.92	4.50	4.13	3.80	3.52	3.26	3.03	2.82	2.64	2.47	2.32	2.18	2.06	1.86	1.68	1.52	1.38	1.26	1.15
		SGU L/200	12.56	11.11	9.63	8.44	7.47	6.66	5.99	5.42	4.92	4.50	4.13	3.80	3.52	3.26	3.03	2.80	2.46	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/300	12.56	11.11	9.63	8.44	7.47	6.66	5.99	5.42	4.92	4.50	3.89	3.31	2.84	2.45	2.13	1.86	1.64	1.45	1.29	1.15	1.03	0.93	0.84	0.76	0.69	0.63	0.58
1.00		SGN	16.28	13.89	12.01	10.52	9.30	8.29	7.45	6.73	6.11	5.58	5.12	4.71	4.35	4.03	3.74	3.49	3.26	3.05	2.86	2.69	2.54	2.39	2.26	2.14	2.03	1.93	1.84
	396.24	SGU L/150	16.28	13.89	12.01	10.52	9.30	8.29	7.45	6.73	6.11	5.58	5.12	4.71	4.35	4.03	3.74	3.49	3.26	3.05	2.86	2.62	2.35	2.11	1.91	1.73	1.57	1.43	1.31
		SGU L/200	16.28	13.89	12.01	10.52	9.30	8.29	7.45	6.73	6.11	5.58	5.12	4.71	4.35	4.03	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98
		SGU L/300	16.28	13.89	12.01	10.52	9.30	8.29	7.45	6.73	6.11	5.25	4.42	3.76	3.22	2.78	2.42	2.12	1.86	1.65	1.47	1.31	1.17	1.06	0.95	0.87	0.79	0.72	0.66
1.25		SGN	23.78	20.23	17.46	15.24	13.44	11.96	10.71	9.66	8.76	7.99	7.31	6.73	6.21	5.74	5.33	4.96	4.63	4.33	4.06	3.81	3.59	3.38	3.20	3.02	2.87	2.72	2.58
	495.30	SGU L/150	23.78	20.23	17.46	15.24	13.44	11.96	10.71	9.66	8.76	7.99	7.31	6.73	6.21	5.74	5.33	4.96	4.63	4.12	3.67	3.27	2.94	2.64	2.39	2.16	1.97	1.79	1.64
		SGU L/200	23.78	20.23	17.46	15.24	13.44	11.96	10.71	9.66	8.76	7.99	7.31	6.73	6.04	5.22	4.54	3.97	3.50	3.09	2.75	2.46	2.20	1.98	1.79	1.62	1.48	1.35	1.23
		SGU L/300	23.78	20.23	17.46	15.24	13.44	11.96	10.71	9.55	7.87	6.56	5.53	4.70	4.03	3.48	3.03	2.65	2.33	2.06	1.83	1.64	1.47	1.32	1.19	1.08	0.98	0.90	0.82
1.50		SGN	32.03	27.21	23.42	20.41	17.96	15.95	14.26	12.84	11.63	10.58	9.68	8.88	8.19	7.56	7.01	6.52	6.08	5.68	5.32	4.99	4.69	4.42	4.18	3.95	3.74	3.55	3.37
	594.36	SGU L/150	32.03	27.21	23.42	20.41	17.96	15.95	14.26	12.84	11.63	10.58	9.68	8.88	8.19	7.56	7.01	6.36	5.59	4.95	4.40	3.93	3.52	3.17	2.86	2.60	2.36	2.15	1.97
		SGU L/200	32.03	27.21	23.42	20.41	17.96	15.95	14.26	12.84	11.63	10.58	9.68	8.46	7.25	6.26	5.45	4.77	4.20	3.71	3.30	2.95	2.64	2.38	2.15	1.95	1.77	1.61	1.48
		SGU L/300	32.03	27.21	23.42	20.41	17.96	15.95	14.09	11.46	9.44	7.87	6.63	5.64	4.83	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98

T135-950

S320 GD

T135a		The positive / The negative																											
Number of spans:		**1**	**support 60 - 60**																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.58	1.51	1.45	1.39	1.33	1.25	1.17	1.09	1.02	0.95	0.89	0.84	0.79
	237.74	SGU L/150	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/200	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.79	1.53	1.32	1.15	1.01	0.89	0.79	0.70	0.62	0.56	0.50	0.45	0.41	0.37	0.34	0.31
		SGU L/300	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.00	1.66	1.40	1.19	1.02	0.88	0.77	0.67	0.59	0.52	0.47	0.42	0.37	0.34	0.30	0.27	0.25	0.23	0.21
0.70		SGN	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.47	2.35	2.24	2.15	2.02	1.86	1.72	1.60	1.48	1.38	1.29	1.21	1.14	1.07	1.01
	277.37	SGU L/150	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.39	2.06	1.79	1.57	1.38	1.22	1.09	0.97	0.87	0.78	0.71	0.64	0.58	0.53	0.49
		SGU L/200	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.45	2.09	1.79	1.55	1.34	1.18	1.04	0.92	0.81	0.73	0.65	0.59	0.53	0.48	0.44	0.40	0.36
		SGU L/300	6.17	5.48	4.94	4.49	4.11	3.80	3.48	2.83	2.33	1.94	1.64	1.39	1.19	1.03	0.90	0.78	0.69	0.61	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.27	0.24
0.75		SGN	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	3.04	2.89	2.75	2.63	2.44	2.24	2.06	1.91	1.77	1.64	1.53	1.43	1.34	1.26	1.18	1.12
	297.18	SGU L/150	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/200	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.12	2.63	2.24	1.92	1.66	1.44	1.26	1.11	0.98	0.87	0.78	0.70	0.63	0.57	0.51	0.47	0.43	0.39
		SGU L/300	7.23	6.43	5.78	5.26	4.82	4.45	3.73	3.03	2.50	2.08	1.75	1.49	1.28	1.10	0.96	0.84	0.74	0.65	0.58	0.52	0.47	0.42	0.38	0.34	0.31	0.28	0.26
0.80		SGN	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.48	3.30	3.15	2.93	2.68	2.46	2.27	2.10	1.95	1.81	1.69	1.58	1.48	1.39	1.30	1.23
	316.99	SGU L/150	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.18	2.73	2.36	2.05	1.79	1.58	1.40	1.24	1.11	0.99	0.89	0.81	0.73	0.67	0.61	0.55
		SGU L/200	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	3.99	3.33	2.81	2.39	2.04	1.77	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/300	8.26	7.34	6.61	6.01	5.51	4.96	3.97	3.23	2.66	2.22	1.87	1.59	1.36	1.18	1.02	0.90	0.79	0.70	0.62	0.55	0.50	0.45	0.40	0.37	0.33	0.30	0.28
0.88		SGN	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.47	4.23	4.02	3.71	3.38	3.09	2.84	2.62	2.42	2.24	2.09	1.94	1.82	1.70	1.60	1.50	1.41
	348.69	SGU L/150	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.11	3.50	3.00	2.59	2.25	1.97	1.74	1.54	1.37	1.22	1.09	0.98	0.89	0.81	0.73	0.67	0.61
		SGU L/200	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.33	4.39	3.66	3.09	2.62	2.25	1.94	1.69	1.48	1.30	1.15	1.02	0.91	0.82	0.74	0.67	0.60	0.55	0.50	0.46
		SGU L/300	10.05	8.93	8.04	7.31	6.70	5.46	4.37	3.55	2.93	2.44	2.06	1.75	1.50	1.30	1.13	0.99	0.87	0.77	0.68	0.61	0.55	0.49	0.44	0.40	0.37	0.33	0.31
1.00		SGN	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	6.13	5.79	5.47	4.94	4.48	4.08	3.73	3.43	3.16	2.92	2.71	2.52	2.35	2.20	2.06	1.93	1.81	1.71
	396.24	SGU L/150	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	5.55	4.68	3.98	3.41	2.94	2.56	2.24	1.97	1.75	1.55	1.39	1.24	1.12	1.01	0.92	0.83	0.76	0.69
		SGU L/200	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/300	13.03	11.58	10.42	9.47	7.89	6.21	4.97	4.04	3.33	2.77	2.34	1.99	1.70	1.47	1.28	1.12	0.99	0.87	0.78	0.69	0.62	0.56	0.50	0.46	0.42	0.38	0.35
1.25		SGN	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.87	10.19	9.32	8.32	7.46	6.74	6.11	5.57	5.09	4.68	4.31	3.99	3.70	3.44	3.20	2.99	2.80	2.63	2.47	2.33
	495.30	SGU L/150	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.10	8.32	6.94	5.84	4.97	4.26	3.68	3.20	2.80	2.47	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/200	20.38	18.11	16.30	14.82	13.58	11.63	9.32	7.57	6.24	5.20	4.38	3.73	3.20	2.76	2.40	2.10	1.85	1.64	1.45	1.30	1.16	1.05	0.95	0.86	0.78	0.71	0.65
		SGU L/300	20.38	18.11	16.30	12.80	9.86	7.76	6.21	5.05	4.16	3.47	2.92	2.48	2.13	1.84	1.60	1.40	1.23	1.09	0.97	0.87	0.78	0.70	0.63	0.57	0.52	0.47	0.43
1.50		SGN	29.24	25.99	23.39	21.26	19.49	17.99	16.71	15.18	13.34	11.82	10.54	9.46	8.54	7.74	7.06	6.46	5.93	5.46	5.05	4.69	4.36	4.06	3.80	3.55	3.34	3.14	2.95
	594.36	SGU L/150	29.24	25.99	23.39	21.26	19.49	17.99	14.90	12.12	9.99	8.32	7.01	5.96	5.11	4.42	3.84	3.36	2.96	2.62	2.33	2.08	1.86	1.68	1.51	1.37	1.25	1.14	1.04
		SGU L/200	29.24	25.99	23.39	21.26	17.75	13.96	11.18	9.09	7.49	6.24	5.26	4.47	3.83	3.31	2.88	2.52	2.22	1.96	1.75	1.56	1.40	1.26	1.14	1.03	0.94	0.85	0.78
		SGU L/300	29.24	25.99	20.45	15.36	11.83	9.31	7.45	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52

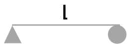
Number of spans:		**2**	**support 60 - 140 - 60**																										
Thickness	*Jy [cm4]*	Case	*2.00*	*2.25*	*2.50*	*2.75*	*3.00*	*3.25*	*3.50*	*3.75*	*4.00*	*4.25*	*4.50*	*4.75*	*5.00*	*5.25*	*5.50*	*5.75*	*6.00*	*6.25*	*6.50*	*6.75*	*7.00*	*7.25*	*7.50*	*7.75*	*8.00*	*8.25*	*8.50*
0.60	min/max	SGN	5.78	5.04	4.36	3.82	3.38	3.02	2.71	2.45	2.23	2.03	1.86	1.72	1.59	1.47	1.37	1.27	1.19	1.11	1.05	0.98	0.93	0.87	0.83	0.78	0.74	0.71	0.67
	237.74	SGU L/150	5.78	5.04	4.36	3.82	3.38	3.02	2.71	2.45	2.23	2.03	1.86	1.72	1.59	1.47	1.37	1.27	1.19	1.11	1.05	0.98	0.93	0.87	0.83	0.78	0.74	0.71	0.67
		SGU L/200	5.78	5.04	4.36	3.82	3.38	3.02	2.71	2.45	2.23	2.03	1.86	1.72	1.59	1.47	1.37	1.27	1.19	1.11	1.05	0.98	0.93	0.87	0.83	0.78	0.74	0.71	0.67
		SGU L/300	5.78	5.04	4.36	3.82	3.38	3.02	2.71	2.45	2.23	2.03	1.86	1.72	1.59	1.47	1.37	1.27	1.19	1.11	1.05	0.98	0.90	0.81	0.73	0.66	0.60	0.55	0.50
0.70		SGN	7.96	6.78	5.86	5.12	4.52	4.03	3.61	3.26	2.96	2.70	2.47	2.28	2.10	1.94	1.80	1.68	1.57	1.47	1.38	1.29	1.22	1.15	1.09	1.03	0.97	0.93	0.88
	277.37	SGU L/150	7.96	6.78	5.86	5.12	4.52	4.03	3.61	3.26	2.96	2.70	2.47	2.28	2.10	1.94	1.80	1.68	1.57	1.47	1.38	1.29	1.22	1.15	1.09	1.03	0.97	0.93	0.88
		SGU L/200	7.96	6.78	5.86	5.12	4.52	4.03	3.61	3.26	2.96	2.70	2.47	2.28	2.10	1.94	1.80	1.68	1.57	1.47	1.38	1.29	1.22	1.15	1.09	1.03	0.97	0.93	0.88
		SGU L/300	7.96	6.78	5.86	5.12	4.52	4.03	3.61	3.26	2.96	2.70	2.47	2.28	2.10	1.94	1.80	1.68	1.57	1.47	1.31	1.17	1.05	0.94	0.85	0.77	0.70	0.64	0.58
0.75		SGN	9.08	7.73	6.67	5.83	5.14	4.57	4.10	3.70	3.35	3.06	2.80	2.57	2.37	2.19	2.04	1.89	1.77	1.65	1.55	1.46	1.37	1.29	1.22	1.16	1.10	1.04	0.99
	297.18	SGU L/150	9.08	7.73	6.67	5.83	5.14	4.57	4.10	3.70	3.35	3.06	2.80	2.57	2.37	2.19	2.04	1.89	1.77	1.65	1.55	1.46	1.37	1.29	1.22	1.16	1.10	1.04	0.99
		SGU L/200	9.08	7.73	6.67	5.83	5.14	4.57	4.10	3.70	3.35	3.06	2.80	2.57	2.37	2.19	2.04	1.89	1.77	1.65	1.55	1.46	1.37	1.29	1.22	1.16	1.10	1.03	0.94
		SGU L/300	9.08	7.73	6.67	5.83	5.14	4.57	4.10	3.70	3.35	3.06	2.80	2.57	2.37	2.19	2.04	1.89	1.77	1.57	1.40	1.25	1.12	1.01	0.91	0.83	0.75	0.68	0.63
0.80		SGN	10.18	8.65	7.46	6.51	5.74	5.11	4.57	4.12	3.74	3.41	3.12	2.86	2.64	2.44	2.27	2.11	1.97	1.84	1.72	1.62	1.52	1.44	1.36	1.28	1.22	1.15	1.10
	316.99	SGU L/150	10.18	8.65	7.46	6.51	5.74	5.11	4.57	4.12	3.74	3.41	3.12	2.86	2.64	2.44	2.27	2.11	1.97	1.84	1.72	1.62	1.52	1.44	1.36	1.28	1.22	1.15	1.10
		SGU L/200	10.18	8.65	7.46	6.51	5.74	5.11	4.57	4.12	3.74	3.41	3.12	2.86	2.64	2.44	2.27	2.11	1.97	1.84	1.72	1.62	1.52	1.44	1.36	1.28	1.20	1.09	1.00
		SGU L/300	10.18	8.65	7.46	6.51	5.74	5.11	4.57	4.12	3.74	3.41	3.12	2.86	2.64	2.44	2.27	2.11	1.90	1.68	1.49	1.33	1.19	1.08	0.97	0.88	0.80	0.73	0.67
0.88		SGN	12.02	10.21	8.80	7.67	6.76	6.00	5.37	4.84	4.39	3.99	3.65	3.36	3.09	2.86	2.65	2.46	2.30	2.15	2.01	1.89	1.78	1.68	1.58	1.50	1.42	1.34	1.28
	348.69	SGU L/150	12.02	10.21	8.80	7.67	6.76	6.00	5.37	4.84	4.39	3.99	3.65	3.36	3.09	2.86	2.65	2.46	2.30	2.15	2.01	1.89	1.78	1.68	1.58	1.50	1.42	1.34	1.28
		SGU L/200	12.02	10.21	8.80	7.67	6.76	6.00	5.37	4.84	4.39	3.99	3.65	3.36	3.09	2.86	2.65	2.46	2.30	2.15	2.01	1.89	1.78	1.68	1.58	1.45	1.32	1.20	1.10
		SGU L/300	12.02	10.21	8.80	7.67	6.76	6.00	5.37	4.84	4.39	3.99	3.65	3.36	3.09	2.86	2.65	2.37	2.09	1.85	1.64	1.47	1.31	1.18	1.07	0.97	0.88	0.80	0.73
1.00		SGN	14.98	12.70	10.93	9.53	8.38	7.44	6.65	5.99	5.42	4.93	4.51	4.14	3.81	3.52	3.26	3.03	2.83	2.64	2.47	2.32	2.18	2.06	1.94	1.84	1.74	1.65	1.57
	396.24	SGU L/150	14.98	12.70	10.93	9.53	8.38	7.44	6.65	5.99	5.42	4.93	4.51	4.14	3.81	3.52	3.26	3.03	2.83	2.64	2.47	2.32	2.18	2.06	1.94	1.84	1.74	1.65	1.57
		SGU L/200	14.98	12.70	10.93	9.53	8.38	7.44	6.65	5.99	5.42	4.93	4.51	4.14	3.81	3.52	3.26	3.03	2.83	2.64	2.47	2.32	2.18	2.02	1.82	1.65	1.50	1.37	1.25
		SGU L/300	14.98	12.70	10.93	9.53	8.38	7.44	6.65	5.99	5.42	4.93	4.51	4.14	3.81	3.52	3.08	2.69	2.37	2.10	1.87	1.67	1.49	1.34	1.21	1.10	1.00	0.91	0.83
1.25		SGN	21.72	18.36	15.76	13.69	12.02	10.65	9.50	8.54	7.72	7.01	6.41	5.87	5.40	4.98	4.61	4.28	3.99	3.72	3.48	3.27	3.07	2.89	2.73	2.58	2.44	2.31	2.19
	495.30	SGU L/150	21.72	18.36	15.76	13.69	12.02	10.65	9.50	8.54	7.72	7.01	6.41	5.87	5.40	4.98	4.61	4.28	3.99	3.72	3.48	3.27	3.07	2.89	2.73	2.58	2.44	2.28	2.09
		SGU L/200	21.72	18.36	15.76	13.69	12.02	10.65	9.50	8.54	7.72	7.01	6.41	5.87	5.40	4.98	4.61	4.28	3.99	3.72	3.48	3.12	2.80	2.52	2.28	2.06	1.88	1.71	1.56
		SGU L/300	21.72	18.36	15.76	13.69	12.02	10.65	9.50	8.54	7.72	7.01	6.41	5.87	5.12	4.43	3.85	3.37	2.96	2.62	2.33	2.08	1.87	1.68	1.52	1.38	1.25	1.14	1.04
1.50		SGN	29.09	24.53	21.00	18.21	15.95	14.11	12.57	11.28	10.18	9.23	8.42	7.71	7.08	6.53	6.04	5.60	5.21	4.86	4.54	4.26	4.00	3.76	3.54	3.35	3.17	3.00	2.84
	594.36	SGU L/150	29.09	24.53	21.00	18.21	15.95	14.11	12.57	11.28	10.18	9.23	8.42	7.71	7.08	6.53	6.04	5.60	5.21	4.86	4.54	4.26	4.00	3.76	3.54	3.30	3.00	2.74	2.50
		SGU L/200	29.09	24.53	21.00	18.21	15.95	14.11	12.57	11.28	10.18	9.23	8.42	7.71	7.08	6.53	6.04	5.60	5.21	4.72	4.20	3.75	3.36	3.02	2.73	2.48	2.25	2.05	1.88
		SGU L/300	29.09	24.53	21.00	18.21	15.95	14.11	12.57	11.28	10.18	9.23	8.42	7.17	6.15	5.31	4.62	4.04	3.56	3.15	2.80	2.50	2.24	2.02	1.82	1.65	1.50	1.37	1.25



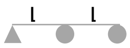
Number of spans:		**3**	**support 60 - 140 - 140 - 60**																										
Thickness	*Jy [cm4]*	Case	*2.00*	*2.25*	*2.50*	*2.75*	*3.00*	*3.25*	*3.50*	*3.75*	*4.00*	*4.25*	*4.50*	*4.75*	*5.00*	*5.25*	*5.50*	*5.75*	*6.00*	*6.25*	*6.50*	*6.75*	*7.00*	*7.25*	*7.50*	*7.75*	*8.00*	*8.25*	*8.50*
0.60	min/max	SGN	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.65	2.42	2.22	2.05	1.90	1.76	1.64	1.53	1.43	1.34	1.26	1.19	1.12	1.06	1.00	0.95	0.90	0.85	0.81
	237.74	SGU L/150	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.65	2.42	2.22	2.05	1.90	1.76	1.64	1.53	1.43	1.34	1.26	1.19	1.12	1.06	1.00	0.95	0.90	0.85	0.79
		SGU L/200	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.65	2.42	2.22	2.05	1.90	1.76	1.64	1.53	1.43	1.34	1.26	1.18	1.06	0.95	0.86	0.78	0.71	0.65	0.59
		SGU L/300	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.65	2.42	2.22	2.05	1.90	1.67	1.45	1.27	1.12	0.99	0.88	0.79	0.70	0.63	0.57	0.52	0.47	0.43	0.39
0.70		SGN	7.71	6.85	6.17	5.61	5.14	4.75	4.30	3.88	3.53	3.22	2.96	2.73	2.52	2.33	2.17	2.02	1.89	1.77	1.66	1.56	1.47	1.39	1.31	1.25	1.18	1.12	1.07
	277.37	SGU L/150	7.71	6.85	6.17	5.61	5.14	4.75	4.30	3.88	3.53	3.22	2.96	2.73	2.52	2.33	2.17	2.02	1.89	1.77	1.66	1.56	1.47	1.39	1.31	1.21	1.10	1.00	0.92
		SGU L/200	7.71	6.85	6.17	5.61	5.14	4.75	4.30	3.88	3.53	3.22	2.96	2.73	2.52	2.33	2.17	2.02	1.89	1.73	1.54	1.38	1.23	1.11	1.00	0.91	0.83	0.75	0.69
		SGU L/300	7.71	6.85	6.17	5.61	5.14	4.75	4.30	3.88	3.53	3.22	2.96	2.63	2.26	1.95	1.69	1.48	1.31	1.15	1.03	0.92	0.82	0.74	0.67	0.61	0.55	0.50	0.46
0.75		SGN	9.04	8.03	7.23	6.57	6.02	5.43	4.88	4.40	4.00	3.65	3.35	3.08	2.85	2.64	2.45	2.28	2.13	2.00	1.87	1.76	1.66	1.57	1.48	1.40	1.33	1.26	1.20
	297.18	SGU L/150	9.04	8.03	7.23	6.57	6.02	5.43	4.88	4.40	4.00	3.65	3.35	3.08	2.85	2.64	2.45	2.28	2.13	2.00	1.87	1.76	1.66	1.57	1.43	1.30	1.18	1.08	0.98
		SGU L/200	9.04	8.03	7.23	6.57	6.02	5.43	4.88	4.40	4.00	3.65	3.35	3.08	2.85	2.64	2.45	2.28	2.10	1.86	1.65	1.47	1.32	1.19	1.07	0.97	0.89	0.81	0.74
		SGU L/300	9.04	8.03	7.23	6.57	6.02	5.43	4.88	4.40	4.00	3.65	3.32	2.82	2.42	2.09	1.82	1.59	1.40	1.24	1.10	0.98	0.88	0.79	0.72	0.65	0.59	0.54	0.49
0.80		SGN	10.33	9.18	8.26	7.51	6.81	6.07	5.45	4.92	4.46	4.07	3.73	3.44	3.17	2.94	2.73	2.54	2.37	2.22	2.08	1.96	1.84	1.74	1.64	1.56	1.48	1.40	1.33
	316.99	SGU L/150	10.33	9.18	8.26	7.51	6.81	6.07	5.45	4.92	4.46	4.07	3.73	3.44	3.17	2.94	2.73	2.54	2.37	2.22	2.08	1.96	1.84	1.69	1.53	1.38	1.26	1.15	1.05
		SGU L/200	10.33	9.18	8.26	7.51	6.81	6.07	5.45	4.92	4.46	4.07	3.73	3.44	3.17	2.94	2.73	2.54	2.24	1.98	1.76	1.57	1.41	1.27	1.15	1.04	0.94	0.86	0.79
		SGU L/300	10.33	9.18	8.26	7.51	6.81	6.07	5.45	4.92	4.46	4.07	3.54	3.01	2.58	2.23	1.94	1.70	1.49	1.32	1.17	1.05	0.94	0.85	0.76	0.69	0.63	0.57	0.52
0.88		SGN	12.56	11.16	10.05	9.09	8.03	7.14	6.40	5.78	5.24	4.78	4.38	4.03	3.72	3.44	3.19	2.97	2.78	2.60	2.43	2.29	2.15	2.03	1.92	1.82	1.72	1.63	1.55
	348.69	SGU L/150	12.56	11.16	10.05	9.09	8.03	7.14	6.40	5.78	5.24	4.78	4.38	4.03	3.72	3.44	3.19	2.97	2.78	2.60	2.43	2.29	2.07	1.86	1.68	1.52	1.38	1.26	1.15
		SGU L/200	12.56	11.16	10.05	9.09	8.03	7.14	6.40	5.78	5.24	4.78	4.38	4.03	3.72	3.44	3.19	2.80	2.46	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/300	12.56	11.16	10.05	9.09	8.03	7.14	6.40	5.78	5.24	4.62	3.89	3.31	2.84	2.45	2.13	1.86	1.64	1.45	1.29	1.15	1.03	0.93	0.84	0.76	0.69	0.63	0.58
1.00		SGN	16.28	14.48	12.94	11.30	9.97	8.86	7.94	7.16	6.49	5.91	5.41	4.98	4.59	4.24	3.94	3.66	3.42	3.20	3.00	2.81	2.65	2.50	2.36	2.23	2.11	2.01	1.91
	396.24	SGU L/150	16.28	14.48	12.94	11.30	9.97	8.86	7.94	7.16	6.49	5.91	5.41	4.98	4.59	4.24	3.94	3.66	3.42	3.20	2.93	2.62	2.35	2.11	1.91	1.73	1.57	1.43	1.31
		SGU L/200	16.28	14.48	12.94	11.30	9.97	8.86	7.94	7.16	6.49	5.91	5.41	4.98	4.59	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98
		SGU L/300	16.28	14.48	12.94	11.30	9.97	8.86	7.94	7.16	6.29	5.25	4.42	3.76	3.22	2.78	2.42	2.12	1.86	1.65	1.47	1.31	1.17	1.06	0.95	0.87	0.79	0.72	0.66
1.25		SGN	25.47	21.75	18.71	16.29	14.33	12.72	11.37	10.23	9.26	8.42	7.70	7.08	6.52	6.02	5.58	5.19	4.83	4.52	4.23	3.97	3.73	3.52	3.32	3.14	2.97	2.82	2.68
	495.30	SGU L/150	25.47	21.75	18.71	16.29	14.33	12.72	11.37	10.23	9.26	8.42	7.70	7.08	6.52	6.02	5.58	5.19	4.66	4.12	3.67	3.27	2.94	2.64	2.39	2.16	1.97	1.79	1.64
		SGU L/200	25.47	21.75	18.71	16.29	14.33	12.72	11.37	10.23	9.26	8.42	7.70	7.05	6.04	5.22	4.54	3.97	3.50	3.09	2.75	2.46	2.20	1.98	1.79	1.62	1.48	1.35	1.23
		SGU L/300	25.47	21.75	18.71	16.29	14.33	12.72	11.37	9.55	7.87	6.56	5.53	4.70	4.03	3.48	3.03	2.65	2.33	2.06	1.83	1.64	1.47	1.32	1.19	1.08	0.98	0.90	0.82
1.50		SGN	34.39	29.12	24.99	21.71	19.06	16.88	15.07	13.54	12.24	11.12	10.15	9.31	8.56	7.90	7.31	6.79	6.32	5.90	5.52	5.18	4.87	4.58	4.32	4.08	3.86	3.66	3.48
	594.36	SGU L/150	34.39	29.12	24.99	21.71	19.06	16.88	15.07	13.54	12.24	11.12	10.15	9.31	8.56	7.90	7.26	6.36	5.59	4.95	4.40	3.93	3.52	3.17	2.86	2.60	2.36	2.15	1.97
		SGU L/200	34.39	29.12	24.99	21.71	19.06	16.88	15.07	13.54	12.24	11.12	9.95	8.46	7.25	6.26	5.45	4.77	4.20	3.71	3.30	2.95	2.64	2.38	2.15	1.95	1.77	1.61	1.48
		SGU L/300	34.39	29.12	24.99	21.71	19.06	16.88	14.09	11.46	9.44	7.87	6.63	5.64	4.83	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98

T135-950

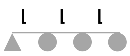
S320 GD



T135a		The positive / The negative																											
Number of spans:		1	support 60 - 60																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.58	1.51	1.45	1.39	1.33	1.25	1.17	1.09	1.02	0.95	0.89	0.84	0.79
	237.74	SGU L/150	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.83	1.74	1.65	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/200	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.17	2.04	1.93	1.79	1.53	1.32	1.15	1.01	0.89	0.79	0.70	0.62	0.56	0.50	0.45	0.41	0.37	0.34	0.31
		SGU L/300	4.34	3.86	3.47	3.16	2.89	2.67	2.48	2.31	2.00	1.66	1.40	1.19	1.02	0.88	0.77	0.67	0.59	0.52	0.47	0.42	0.37	0.34	0.30	0.27	0.25	0.23	0.21
0.70		SGN	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.47	2.35	2.24	2.15	2.02	1.86	1.72	1.60	1.48	1.38	1.29	1.21	1.14	1.07	1.01
	277.37	SGU L/150	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.74	2.60	2.39	2.06	1.79	1.57	1.38	1.22	1.09	0.97	0.87	0.78	0.71	0.64	0.58	0.53	0.49
		SGU L/200	6.17	5.48	4.94	4.49	4.11	3.80	3.53	3.29	3.08	2.90	2.45	2.09	1.79	1.55	1.34	1.18	1.04	0.92	0.81	0.73	0.65	0.59	0.53	0.48	0.44	0.40	0.36
		SGU L/300	6.17	5.48	4.94	4.49	4.11	3.80	3.48	2.83	2.33	1.94	1.64	1.39	1.19	1.03	0.90	0.78	0.69	0.61	0.54	0.48	0.43	0.39	0.35	0.32	0.29	0.27	0.24
0.75		SGN	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	3.04	2.89	2.75	2.63	2.44	2.24	2.06	1.91	1.77	1.64	1.53	1.43	1.34	1.26	1.18	1.12
	297.18	SGU L/150	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.40	3.21	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/200	7.23	6.43	5.78	5.26	4.82	4.45	4.13	3.86	3.61	3.12	2.63	2.24	1.92	1.66	1.44	1.26	1.11	0.98	0.87	0.78	0.70	0.63	0.57	0.51	0.47	0.43	0.39
		SGU L/300	7.23	6.43	5.78	5.26	4.82	4.45	3.73	3.03	2.50	2.08	1.75	1.49	1.28	1.10	0.96	0.84	0.74	0.65	0.58	0.52	0.47	0.42	0.38	0.34	0.31	0.28	0.26
0.80		SGN	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.48	3.30	3.15	2.93	2.68	2.46	2.27	2.10	1.95	1.81	1.69	1.58	1.48	1.39	1.30	1.23
	316.99	SGU L/150	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	4.13	3.89	3.67	3.18	2.73	2.36	2.05	1.79	1.58	1.40	1.24	1.11	0.99	0.89	0.81	0.73	0.67	0.61	0.55
		SGU L/200	8.26	7.34	6.61	6.01	5.51	5.08	4.72	4.41	3.99	3.33	2.81	2.39	2.04	1.77	1.54	1.34	1.18	1.05	0.93	0.83	0.75	0.67	0.61	0.55	0.50	0.46	0.42
		SGU L/300	8.26	7.34	6.61	6.01	5.51	4.96	3.97	3.23	2.66	2.22	1.87	1.59	1.36	1.18	1.02	0.90	0.79	0.70	0.62	0.55	0.50	0.45	0.40	0.37	0.33	0.30	0.28
0.88		SGN	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.47	4.23	4.02	3.71	3.38	3.09	2.84	2.62	2.42	2.24	2.09	1.94	1.82	1.70	1.60	1.50	1.41
	348.69	SGU L/150	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.36	5.02	4.73	4.11	3.50	3.00	2.59	2.25	1.97	1.74	1.54	1.37	1.22	1.09	0.98	0.89	0.81	0.73	0.67	0.61
		SGU L/200	10.05	8.93	8.04	7.31	6.70	6.18	5.74	5.33	4.39	3.66	3.09	2.62	2.25	1.94	1.69	1.48	1.30	1.15	1.02	0.91	0.82	0.74	0.67	0.60	0.55	0.50	0.46
		SGU L/300	10.05	8.93	8.04	7.31	6.70	5.46	4.37	3.55	2.93	2.44	2.06	1.75	1.50	1.30	1.13	0.99	0.87	0.77	0.68	0.61	0.55	0.49	0.44	0.40	0.37	0.33	0.31
1.00		SGN	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	6.13	5.79	5.47	4.94	4.48	4.08	3.73	3.43	3.16	2.92	2.71	2.52	2.35	2.20	2.06	1.93	1.81	1.71
	396.24	SGU L/150	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.95	6.51	5.55	4.68	3.98	3.41	2.94	2.56	2.24	1.97	1.75	1.55	1.39	1.24	1.12	1.01	0.92	0.83	0.76	0.69
		SGU L/200	13.03	11.58	10.42	9.47	8.69	8.02	7.44	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52
		SGU L/300	13.03	11.58	10.42	9.47	7.89	6.21	4.97	4.04	3.33	2.77	2.34	1.99	1.70	1.47	1.28	1.12	0.99	0.87	0.78	0.69	0.62	0.56	0.50	0.46	0.42	0.38	0.35
1.25		SGN	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.87	10.19	9.32	8.32	7.46	6.74	6.11	5.57	5.09	4.68	4.31	3.99	3.70	3.44	3.20	2.99	2.80	2.63	2.47	2.33
	495.30	SGU L/150	20.38	18.11	16.30	14.82	13.58	12.54	11.64	10.10	8.32	6.94	5.84	4.97	4.26	3.68	3.20	2.80	2.47	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/200	20.38	18.11	16.30	14.82	13.58	11.63	9.32	7.57	6.24	5.20	4.38	3.73	3.20	2.76	2.40	2.10	1.85	1.64	1.45	1.30	1.16	1.05	0.95	0.86	0.78	0.71	0.65
		SGU L/300	20.38	18.11	16.30	12.80	9.86	7.76	6.21	5.05	4.16	3.47	2.92	2.48	2.13	1.84	1.60	1.40	1.23	1.09	0.97	0.87	0.78	0.70	0.63	0.57	0.52	0.47	0.43
1.50		SGN	29.24	25.99	23.39	21.26	19.49	17.99	16.71	15.18	13.34	11.82	10.54	9.46	8.54	7.74	7.06	6.46	5.93	5.46	5.05	4.69	4.36	4.06	3.80	3.55	3.34	3.14	2.95
	594.36	SGU L/150	29.24	25.99	23.39	21.26	19.49	17.99	14.90	12.12	9.99	8.32	7.01	5.96	5.11	4.42	3.84	3.36	2.96	2.62	2.33	2.08	1.86	1.68	1.51	1.37	1.25	1.14	1.04
		SGU L/200	29.24	25.99	23.39	21.26	17.75	13.96	11.18	9.09	7.49	6.24	5.26	4.47	3.83	3.31	2.88	2.52	2.22	1.96	1.75	1.56	1.40	1.26	1.14	1.03	0.94	0.85	0.78
		SGU L/300	29.24	25.99	20.45	15.36	11.83	9.31	7.45	6.06	4.99	4.16	3.51	2.98	2.56	2.21	1.92	1.68	1.48	1.31	1.16	1.04	0.93	0.84	0.76	0.69	0.62	0.57	0.52



Number of spans:		2	support 60 - 300 - 60																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	5.78	5.14	4.63	4.21	3.86	3.55	3.17	2.85	2.58	2.34	2.14	1.96	1.81	1.67	1.54	1.43	1.34	1.25	1.17	1.09	1.03	0.97	0.91	0.86	0.82	0.78	0.74
	237.74	SGU L/150	5.78	5.14	4.63	4.21	3.86	3.55	3.17	2.85	2.58	2.34	2.14	1.96	1.81	1.67	1.54	1.43	1.34	1.25	1.17	1.09	1.03	0.97	0.91	0.86	0.82	0.78	0.74
		SGU L/200	5.78	5.14	4.63	4.21	3.86	3.55	3.17	2.85	2.58	2.34	2.14	1.96	1.81	1.67	1.54	1.43	1.34	1.25	1.17	1.09	1.03	0.97	0.91	0.86	0.82	0.78	0.74
		SGU L/300	5.78	5.14	4.63	4.21	3.86	3.55	3.17	2.85	2.58	2.34	2.14	1.96	1.81	1.67	1.54	1.43	1.34	1.25	1.12	1.00	0.90	0.81	0.73	0.66	0.60	0.55	0.50
0.70		SGN	8.23	7.31	6.58	5.98	5.31	4.70	4.19	3.76	3.40	3.09	2.82	2.58	2.37	2.19	2.02	1.88	1.75	1.63	1.53	1.43	1.34	1.26	1.19	1.13	1.07	1.01	0.96
	277.37	SGU L/150	8.23	7.31	6.58	5.98	5.31	4.70	4.19	3.76	3.40	3.09	2.82	2.58	2.37	2.19	2.02	1.88	1.75	1.63	1.53	1.43	1.34	1.26	1.19	1.13	1.07	1.01	0.96
		SGU L/200	8.23	7.31	6.58	5.98	5.31	4.70	4.19	3.76	3.40	3.09	2.82	2.58	2.37	2.19	2.02	1.88	1.75	1.63	1.53	1.43	1.34	1.26	1.19	1.13	1.05	0.96	0.88
		SGU L/300	8.23	7.31	6.58	5.98	5.31	4.70	4.19	3.76	3.40	3.09	2.82	2.58	2.37	2.19	2.02	1.88	1.66	1.47	1.31	1.17	1.05	0.94	0.85	0.77	0.70	0.64	0.58
0.75		SGN	9.64	8.57	7.71	6.85	6.00	5.31	4.73	4.25	3.83	3.48	3.17	2.90	2.67	2.46	2.27	2.11	1.96	1.83	1.71	1.60	1.51	1.42	1.34	1.26	1.19	1.13	1.07
	297.18	SGU L/150	9.64	8.57	7.71	6.85	6.00	5.31	4.73	4.25	3.83	3.48	3.17	2.90	2.67	2.46	2.27	2.11	1.96	1.83	1.71	1.60	1.51	1.42	1.34	1.26	1.19	1.13	1.07
		SGU L/200	9.64	8.57	7.71	6.85	6.00	5.31	4.73	4.25	3.83	3.48	3.17	2.90	2.67	2.46	2.27	2.11	1.96	1.83	1.71	1.60	1.51	1.42	1.34	1.24	1.13	1.03	0.94
		SGU L/300	9.64	8.57	7.71	6.85	6.00	5.31	4.73	4.25	3.83	3.48	3.17	2.90	2.67	2.46	2.27	2.02	1.78	1.57	1.40	1.25	1.12	1.01	0.91	0.83	0.75	0.68	0.63
0.80		SGN	11.02	9.79	8.81	7.64	6.69	5.91	5.27	4.72	4.26	3.87	3.52	3.23	2.96	2.73	2.52	2.34	2.18	2.03	1.90	1.78	1.67	1.57	1.48	1.40	1.32	1.25	1.19
	316.99	SGU L/150	11.02	9.79	8.81	7.64	6.69	5.91	5.27	4.72	4.26	3.87	3.52	3.23	2.96	2.73	2.52	2.34	2.18	2.03	1.90	1.78	1.67	1.57	1.48	1.40	1.32	1.25	1.19
		SGU L/200	11.02	9.79	8.81	7.64	6.69	5.91	5.27	4.72	4.26	3.87	3.52	3.23	2.96	2.73	2.52	2.34	2.18	2.03	1.90	1.78	1.67	1.57	1.46	1.32	1.20	1.09	1.00
		SGU L/300	11.02	9.79	8.81	7.64	6.69	5.91	5.27	4.72	4.26	3.87	3.52	3.23	2.96	2.73	2.46	2.16	1.90	1.68	1.49	1.33	1.19	1.08	0.97	0.88	0.80	0.73	0.67
0.88		SGN	13.40	11.91	10.34	8.95	7.84	6.92	6.16	5.52	4.98	4.52	4.11	3.76	3.45	3.18	2.94	2.73	2.54	2.36	2.21	2.07	1.94	1.83	1.72	1.62	1.54	1.45	1.38
	348.69	SGU L/150	13.40	11.91	10.34	8.95	7.84	6.92	6.16	5.52	4.98	4.52	4.11	3.76	3.45	3.18	2.94	2.73	2.54	2.36	2.21	2.07	1.94	1.83	1.72	1.62	1.54	1.45	1.38
		SGU L/200	13.40	11.91	10.34	8.95	7.84	6.92	6.16	5.52	4.98	4.52	4.11	3.76	3.45	3.18	2.94	2.73	2.54	2.36	2.21	2.07	1.94	1.77	1.60	1.45	1.32	1.20	1.10
		SGU L/300	13.40	11.91	10.34	8.95	7.84	6.92	6.16	5.52	4.98	4.52	4.11	3.76	3.45	3.12	2.71	2.37	2.09	1.85	1.64	1.47	1.31	1.18	1.07	0.97	0.88	0.80	0.73
1.00		SGN	17.37	14.96	12.77	11.06	9.67	8.53	7.59	6.80	6.12	5.55	5.05	4.62	4.24	3.90	3.61	3.34	3.11	2.89	2.70	2.53	2.38	2.23	2.10	1.99	1.88	1.78	1.68
	396.24	SGU L/150	17.37	14.96	12.77	11.06	9.67	8.53	7.59	6.80	6.12	5.55	5.05	4.62	4.24	3.90	3.61	3.34	3.11	2.89	2.70	2.53	2.38	2.23	2.10	1.99	1.88	1.78	1.67
		SGU L/200	17.37	14.96	12.77	11.06	9.67	8.53	7.59	6.80	6.12	5.55	5.05	4.62	4.24	3.90	3.61	3.34	3.11	2.89	2.70	2.50	2.24	2.02	1.82	1.65	1.50	1.37	1.25
		SGU L/300	17.37	14.96	12.77	11.06	9.67	8.53	7.59	6.80	6.12	5.55	5.05	4.62	4.10	3.54	3.08	2.69	2.37	2.10	1.87	1.67	1.49	1.34	1.21	1.10	1.00	0.91	0.83
1.25		SGN	25.52	21.39	18.22	15.72	13.72	12.08	10.72	9.59	8.63	7.81	7.11	6.50	5.95	5.48	5.05	4.68	4.35	4.05	3.78	3.53	3.31	3.11	2.93	2.77	2.61	2.47	2.33
	495.30	SGU L/150	25.52	21.39	18.22	15.72	13.72	12.08	10.72	9.59	8.63	7.81	7.11	6.50	5.95	5.48	5.05	4.68	4.35	4.05	3.78	3.53	3.31	3.11	2.93	2.75	2.50	2.28	2.09
		SGU L/200	25.52	21.39	18.22	15.72	13.72	12.08	10.72	9.59	8.63	7.81	7.11	6.50	5.95	5.48	5.05	4.68	4.35	3.93	3.50	3.12	2.80	2.52	2.28	2.06	1.88	1.71	1.56
		SGU L/300	25.52	21.39	18.22	15.72	13.72	12.08	10.72	9.59	8.63	7.81	7.03	5.98	5.12	4.43	3.85	3.37	2.96	2.62	2.33	2.08	1.87	1.68	1.52	1.38	1.25	1.14	1.04
1.50		SGN	33.83	28.30	24.05	20.71	18.04	15.86	14.06	12.56	11.28	10.20	9.27	8.45	7.74	7.11	6.56	6.07	5.63	5.24	4.89	4.57	4.29	4.02	3.79	3.55	3.34	3.14	2.96
	594.36	SGU L/150	33.83	28.30	24.05	20.71	18.04	15.86	14.06	12.56	11.28	10.20	9.27	8.45	7.74	7.11	6.56	6.07	5.63	5.24	4.89	4.57	4.29	4.02	3.64	3.30	3.00	2.74	2.50
		SGU L/200	33.83	28.30	24.05	20.71	18.04	15.86	14.06	12.56	11.28	10.20	9.27	8.45	7.74	7.11	6.56	6.06	5.34	4.72	4.20	3.75	3.36	3.02	2.73	2.48	2.25	2.05	1.88
		SGU L/300	33.83	28.30	24.05	20.71	18.04	15.86	14.06	12.56	11.28	10.01	8.43	7.17	6.15	5.31	4.62	4.04	3.56	3.15	2.80	2.50	2.24	2.02	1.82	1.65	1.50	1.37	1.25



Number of spans:		3	support 60 - 300 - 300 - 60																										
Thickness	*Jy [cm4]*	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*	*8.25*	*8.50*
0.60	min/max	SGN	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.71	2.55	2.41	2.28	2.17	2.01	1.86	1.73	1.62	1.51	1.42	1.33	1.25	1.18	1.11	1.05	1.00	0.94	0.90
	237.74	SGU L/150	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.71	2.55	2.41	2.28	2.17	2.01	1.86	1.73	1.62	1.51	1.42	1.33	1.25	1.18	1.11	1.04	0.94	0.86	0.79
		SGU L/200	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.71	2.55	2.41	2.28	2.17	2.01	1.86	1.73	1.62	1.48	1.32	1.18	1.06	0.95	0.86	0.78	0.71	0.65	0.59
		SGU L/300	5.42	4.82	4.34	3.94	3.62	3.34	3.10	2.89	2.71	2.55	2.41	2.26	1.93	1.67	1.45	1.27	1.12	0.99	0.88	0.79	0.70	0.63	0.57	0.52	0.47	0.43	0.39
0.70		SGN	7.71	6.85	6.17	5.61	5.14	4.75	4.41	4.11	3.86	3.63	3.39	3.11	2.86	2.64	2.45	2.28	2.12	1.98	1.85	1.74	1.63	1.54	1.45	1.37	1.30	1.23	1.17
	277.37	SGU L/150	7.71	6.85	6.17	5.61	5.14	4.75	4.41	4.11	3.86	3.63	3.39	3.11	2.86	2.64	2.45	2.28	2.12	1.98	1.85	1.74	1.63	1.48	1.34	1.21	1.10	1.00	0.92
		SGU L/200	7.71	6.85	6.17	5.61	5.14	4.75	4.41	4.11	3.86	3.63	3.39	3.11	2.86	2.64	2.45	2.22	1.96	1.73	1.54	1.38	1.23	1.11	1.00	0.91	0.83	0.75	0.69
		SGU L/300	7.71	6.85	6.17	5.61	5.14	4.75	4.41	4.11	3.86	3.63	3.09	2.63	2.26	1.95	1.69	1.48	1.31	1.15	1.03	0.92	0.82	0.74	0.67	0.61	0.55	0.50	0.46
0.75		SGN	9.04	8.03	7.23	6.57	6.02	5.56	5.16	4.82	4.52	4.19	3.82	3.50	3.22	2.98	2.76	2.56	2.38	2.22	2.08	1.95	1.83	1.73	1.63	1.54	1.46	1.38	1.31
	297.18	SGU L/150	9.04	8.03	7.23	6.57	6.02	5.56	5.16	4.82	4.52	4.19	3.82	3.50	3.22	2.98	2.76	2.56	2.38	2.22	2.08	1.95	1.76	1.59	1.43	1.30	1.18	1.08	0.98
		SGU L/200	9.04	8.03	7.23	6.57	6.02	5.56	5.16	4.82	4.52	4.19	3.82	3.50	3.22	2.98	2.72	2.38	2.10	1.86	1.65	1.47	1.32	1.19	1.07	0.97	0.89	0.81	0.74
		SGU L/300	9.04	8.03	7.23	6.57	6.02	5.56	5.16	4.82	4.52	3.94	3.32	2.82	2.42	2.09	1.82	1.59	1.40	1.24	1.10	0.98	0.88	0.79	0.72	0.65	0.59	0.54	0.49
0.80		SGN	10.33	9.18	8.26	7.51	6.89	6.36	5.90	5.51	5.13	4.66	4.25	3.90	3.58	3.31	3.06	2.84	2.64	2.47	2.31	2.16	2.03	1.91	1.81	1.71	1.61	1.53	1.45
	316.99	SGU L/150	10.33	9.18	8.26	7.51	6.89	6.36	5.90	5.51	5.13	4.66	4.25	3.90	3.58	3.31	3.06	2.84	2.64	2.47	2.31	2.10	1.88	1.69	1.53	1.38	1.26	1.15	1.05
		SGU L/200	10.33	9.18	8.26	7.51	6.89	6.36	5.90	5.51	5.13	4.66	4.25	3.90	3.58	3.31	2.91	2.54	2.24	1.98	1.76	1.57	1.41	1.27	1.15	1.04	0.94	0.86	0.79
		SGU L/300	10.33	9.18	8.26	7.51	6.89	6.36	5.90	5.51	5.04	4.20	3.54	3.01	2.58	2.23	1.94	1.70	1.49	1.32	1.17	1.05	0.94	0.85	0.76	0.69	0.63	0.57	0.52
0.88		SGN	12.56	11.16	10.05	9.13	8.37	7.73	7.18	6.64	6.00	5.44	4.97	4.55	4.18	3.86	3.57	3.31	3.08	2.88	2.69	2.52	2.37	2.23	2.10	1.98	1.88	1.78	1.69
	348.69	SGU L/150	12.56	11.16	10.05	9.13	8.37	7.73	7.18	6.64	6.00	5.44	4.97	4.55	4.18	3.86	3.57	3.31	3.08	2.88	2.58	2.31	2.07	1.86	1.68	1.52	1.38	1.26	1.15
		SGU L/200	12.56	11.16	10.05	9.13	8.37	7.73	7.18	6.64	6.00	5.44	4.97	4.55	4.18	3.67	3.20	2.80	2.46	2.18	1.94	1.73	1.55	1.40	1.26	1.14	1.04	0.95	0.87
		SGU L/300	12.56	11.16	10.05	9.13	8.37	7.73	7.18	6.64	5.54	4.62	3.89	3.31	2.84	2.45	2.13	1.86	1.64	1.45	1.29	1.15	1.03	0.93	0.84	0.76	0.69	0.63	0.58
1.00		SGN	16.28	14.48	13.03	11.84	10.86	10.02	9.12	8.18	7.38	6.70	6.11	5.59	5.14	4.74	4.38	4.06	3.78	3.52	3.29	3.09	2.90	2.73	2.57	2.43	2.29	2.17	2.06
	396.24	SGU L/150	16.28	14.48	13.03	11.84	10.86	10.02	9.12	8.18	7.38	6.70	6.11	5.59	5.14	4.74	4.38	4.06	3.73	3.30	2.93	2.62	2.35	2.11	1.91	1.73	1.57	1.43	1.31
		SGU L/200	16.28	14.48	13.03	11.84	10.86	10.02	9.12	8.18	7.38	6.70	6.11	5.59	4.83	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98
		SGU L/300	16.28	14.48	13.03	11.84	10.86	10.02	9.12	7.64	6.29	5.25	4.42	3.76	3.22	2.78	2.42	2.12	1.86	1.65	1.47	1.31	1.17	1.06	0.95	0.87	0.79	0.72	0.66
1.25		SGN	25.47	22.64	20.38	18.52	16.46	14.52	12.92	11.57	10.42	9.44	8.60	7.88	7.23	6.66	6.15	5.70	5.30	4.94	4.61	4.32	4.05	3.81	3.59	3.39	3.20	3.03	2.87
	495.30	SGU L/150	25.47	22.64	20.38	18.52	16.46	14.52	12.92	11.57	10.42	9.44	8.60	7.88	7.23	6.66	6.05	5.30	4.66	4.12	3.67	3.27	2.94	2.64	2.39	2.16	1.97	1.79	1.64
		SGU L/200	25.47	22.64	20.38	18.52	16.46	14.52	12.92	11.57	10.42	9.44	8.29	7.05	6.04	5.22	4.54	3.97	3.50	3.09	2.75	2.46	2.20	1.98	1.79	1.62	1.48	1.35	1.23
		SGU L/300	25.47	22.64	20.38	18.52	16.46	14.52	11.74	9.55	7.87	6.56	5.53	4.70	4.03	3.48	3.03	2.65	2.33	2.06	1.83	1.64	1.47	1.32	1.19	1.08	0.98	0.90	0.82
1.50		SGN	36.55	32.48	28.81	24.86	21.70	19.11	16.97	15.17	13.66	12.36	11.24	10.27	9.42	8.66	8.00	7.40	6.88	6.40	5.98	5.59	5.25	4.93	4.64	4.38	4.13	3.91	3.69
	594.36	SGU L/150	36.55	32.48	28.81	24.86	21.70	19.11	16.97	15.17	13.66	12.36	11.24	10.27	9.42	8.35	7.26	6.36	5.59	4.95	4.40	3.93	3.52	3.17	2.86	2.60	2.36	2.15	1.97
		SGU L/200	36.55	32.48	28.81	24.86	21.70	19.11	16.97	15.17	13.66	11.81	9.95	8.46	7.25	6.26	5.45	4.77	4.20	3.71	3.30	2.95	2.64	2.38	2.15	1.95	1.77	1.61	1.48
		SGU L/300	36.55	32.48	28.81	24.86	21.70	17.60	14.09	11.46	9.44	7.87	6.63	5.64	4.83	4.18	3.63	3.18	2.80	2.47	2.20	1.96	1.76	1.59	1.43	1.30	1.18	1.08	0.98