



NON-METALLIC STRUT LOAD CHARTS

NON-METALLIC CABLE TRAY & STRUT SYSTEMS

LOADING INFORMATION

Beam Loads: The charts below list the total allowable uniform load for various simple spans based on a minimum safety factor of 2. If the load is concentrated at center span, multiply the load by 0.5 and the corresponding deflection by 0.8.

BEAM LOADING DATA FOR GLASS REINFORCED POLYESTER RESIN

Beam Span	Catalog No.	Maximum Allowable Beam Load		Deflection at Maximum Allowable Beam Load		Allowable Load @ Deflection =			
		lbs.	N	in.	mm	1/240 Span		1/360 Span	
						lbs.	N	lbs.	N
12" (305)	NM-SSP-100	793	3527	0.106	2.69	373	1659	249	1107
	NM-SSP-100-D	2301	10235	0.060	1.52	1928	8576	1285	5715
	NM-SSP-158	1783	7931	0.067	1.70	1327	5902	885	3936
	NM-SSP-158-D	5172	23005	0.037	.94	5172	23005	4696	20888
24" (609)	NM-SSPP-100	397	1766	0.425	10.79	93	413	62	276
	NM-SSP-100-D	1150	5115	0.239	6.07	482	2144	321	1428
	NM-SSP-158	891	3963	0.269	6.83	332	1477	221	983
	NM-SSP-158-D	2586	11502	0.147	3.73	1761	7833	1174	5222
36" (914)	NM-SSP-100	264	1174	0.957	24.31	41	182	28	124
	NM-SSP-100-D	767	3411	0.537	13.64	214	952	143	636
	NM-SSP-158	594	2642	0.604	15.34	147	654	98	436
	NM-SSP-158-D	1724	7668	0.330	8.38	783	3483	522	2322

Beam Span	Catalog No.	Maximum Allowable Beam Load		Deflection at Maximum Allowable Beam Load		Allowable Load @ Deflection =			
		lbs.	N	in.	mm	1/240 Span		1/360 Span	
						lbs.	N	lbs.	N
12" (305)	NM-SSV-100	988	4394	0.112	2.84	441	1961	294	1308
	NM-SSV-100-D	2866	12748	0.063	1.60	2279	10137	1519	6756
	NM-SSV-158	2221	9879	0.071	1.80	1569	6979	1046	4652
	NM-SSV-158-D	6443	28658	0.039	.99	6443	28658	5550	24686
24" (609)	NM-SSV-100	494	2197	0.448	11.38	110	489	73	325
	NM-SSV-100-D	1433	6374	0.252	6.40	570	2535	380	1690
	NM-SSV-158	1110	4937	0.283	7.19	392	1743	261	1161
	NM-SSV-158-D	3221	14327	0.155	3.94	2081	9256	1387	6169
36" (914)	NM-SSV-100	329	1463	1.009	25.63	49	218	33	147
	NM-SSV-100-D	955	4248	0.566	14.37	253	1125	169	752
	NM-SSV-158	740	3291	0.637	16.18	174	774	116	516
	NM-SSV-158-D	2148	9554	0.348	8.84	925	4114	617	2744

Note: Dimensions shown as metric are in millimeters, unless otherwise specified.

RECOMMENDED GUIDELINE

Published design loads are based on usage at 70°F (21°C) and must be reduced for continuous exposure to higher temperatures. Refer to the chart at right for high temperature applications.

Temperature	Design Load Multiplier
75° F (24° C)	100%
100° F (38° C)	90%
125° F (52° C)	78%
150° F (66° C)	68%
175° F (79° C)	60%
200° F (93° C)	52%