



# SC601 & SC602

## Loading Tables

**Nullifire**  
Smart Protection

### Beams: Critical Temperature: 620°C

Section Factor up to m <sup>2</sup>	30 minutes	60 minutes	90 minutes	Section Factor up to m <sup>2</sup>	30 minutes	60 minutes	90 minutes
	DFT (mm)	DFT (mm)	DFT (mm)		DFT (mm)	DFT (mm)	DFT (mm)
30	0.239	0.239	0.239	200	0.239	0.501	1.394
35	0.239	0.239	0.239	205	0.239	0.515	1.436
40	0.239	0.239	0.241	210	0.239	0.529	1.478
45	0.239	0.239	0.275	215	0.239	0.543	1.520
50	0.239	0.239	0.309	220	0.239	0.557	1.561
55	0.239	0.239	0.343	225	0.239	0.571	1.603
60	0.239	0.239	0.378	230	0.239	0.585	1.645
65	0.239	0.239	0.412	235	0.239	0.600	1.687
70	0.239	0.239	0.446	240	0.239	0.614	1.729
75	0.239	0.239	0.480	245	0.239	0.628	1.770
80	0.239	0.239	0.515	250	0.239	0.642	1.812
85	0.239	0.239	0.549	255	0.239	0.656	1.854
90	0.239	0.239	0.583	260	0.239	0.670	1.896
95	0.239	0.239	0.617	265	0.239	0.684	1.937
100	0.239	0.239	0.652	270	0.239	0.698	1.979
105	0.239	0.239	0.686	275	0.245	0.713	2.021
110	0.239	0.246	0.720	280	0.251	0.727	2.063
115	0.239	0.260	0.754	285	0.258	0.741	2.105
120	0.239	0.275	0.789	290	0.264	0.755	2.146
125	0.239	0.289	0.823	295	0.270	0.769	2.188
130	0.239	0.303	0.857	300	0.277	0.783	
135	0.239	0.317	0.891	305	0.283	0.797	
140	0.239	0.331	0.926	310	0.290	0.811	
145	0.239	0.345	0.960	315	0.296	0.826	
150	0.239	0.359	0.994	320	0.302	0.840	
155	0.239	0.373	1.028	325	0.309	0.854	
160	0.239	0.388	1.063	330	0.315	0.868	
165	0.239	0.402	1.102	335	0.322	0.882	
170	0.239	0.416	1.144	340	0.328	0.896	
175	0.239	0.430	1.185	345	0.334	0.910	
180	0.239	0.444	1.227	350	0.341	0.925	
185	0.239	0.458	1.269				
190	0.239	0.472	1.311				
195	0.239	0.487	1.353				

PLEASE NOTE: The critical temperatures in this loading table are as defined for offices in accordance with BS5950-8:2003 as per Table 18 of the ASFP 5th Edition Yellow Book. The Yellow book also gives new critical temperatures to comply with several different building uses either to the Eurocodes for steel design or BS5950-8:2003. Alternative loadings tables to other critical temperatures are available from the Nullifire Technical Desk on request.



# SC601 & SC602

## Loading Tables

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Columns: Critical Temperature: 550°C

Section Factor up to m <sup>2</sup>	30 minutes	60 minutes	90 minutes	Section Factor up to m <sup>2</sup>	30 minutes	60 minutes	90 minutes
	DFT (mm)	DFT (mm)	DFT (mm)		DFT (mm)	DFT (mm)	DFT (mm)
30	0.225	0.225	0.230	200	0.225	0.617	
35	0.225	0.225	0.303	205	0.225	0.635	
40	0.225	0.225	0.392	210	0.225	0.652	
45	0.225	0.225	0.482	215	0.225	0.670	
50	0.225	0.225	0.572	220	0.225	0.688	
55	0.225	0.225	0.661	225	0.225	0.706	
60	0.225	0.225	0.751	230	0.225	0.723	
65	0.225	0.225	0.840	235	0.225	0.741	
70	0.225	0.225	0.930	240	0.225	0.759	
75	0.225	0.225	1.019	245	0.225	0.777	
80	0.225	0.225	1.096	250	0.225	0.794	
85	0.225	0.225	1.157	255	0.225	0.812	
90	0.225	0.226	1.218	260	0.225	0.830	
95	0.225	0.244	1.279	265	0.225	0.848	
100	0.225	0.262	1.340	270	0.225	0.865	
105	0.225	0.280	1.401	275	0.225	0.883	
110	0.225	0.297	1.463	280	0.225	0.901	
115	0.225	0.315	1.524	285	0.225	0.919	
120	0.225	0.333	1.585	290	0.225	0.936	
125	0.225	0.351	1.646	295	0.225	0.954	
130	0.225	0.368	1.707	300	0.225	0.972	
135	0.225	0.386	1.768	305	0.228	0.989	
140	0.225	0.404	1.829	310	0.239	1.007	
145	0.225	0.422	1.890	315	0.249	1.025	
150	0.225	0.439	1.951	320	0.259	1.043	
155	0.225	0.457	2.012	325	0.270	1.060	
160	0.225	0.475	2.073	330	0.280	1.078	
165	0.225	0.493	2.134	335	0.290	1.096	
170	0.225	0.510	2.195	340	0.300	1.114	
175	0.225	0.528	2.256	345	0.311	1.131	
180	0.225	0.546		350	0.321	1.149	
185	0.225	0.564		355	0.331		
190	0.225	0.581		360	0.341		
195	0.225	0.599		365	0.352		

PLEASE NOTE: The critical temperatures in this loading table are as defined for offices in accordance with BS5950-8:2003 as per Table 18 of the ASFP 5th Edition Yellow Book. The Yellow book also gives new critical temperatures to comply with several different building uses either to the Eurocodes for steel design or BS5950-8:2003. Alternative loadings tables to other critical temperatures are available from the Nullifire Technical Desk on request.



# SC601 & SC602

## Loading Tables

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### 4-Sided Hollow Columns & 4-Sided Hollow Beams\*: Critical Temperature: 520°C

Section Factor up to m <sup>1</sup>	30 minutes	60 minutes	90 minutes	Section Factor up to m <sup>1</sup>	30 minutes	60 minutes	90 minutes
	DFT (mm)	DFT (mm)	DFT (mm)		DFT (mm)	DFT (mm)	DFT (mm)
50	0.460	0.460	1.072	230	0.460	2.051	
55	0.460	0.523	1.146	235	0.460	2.129	
60	0.460	0.562	1.219	240	0.460	2.207	
65	0.460	0.601	1.293	245	0.460	2.285	
70	0.460	0.640	1.367	250	0.460	2.363	
75	0.460	0.679	1.441	255	0.460	2.441	
80	0.460	0.718	1.514	260	0.460	2.519	
85	0.460	0.757	1.588	265	0.460	2.597	
90	0.460	0.796	1.662	270	0.460	2.675	
95	0.460	0.835	1.762	275	0.460	2.753	
100	0.460	0.874	2.034	280	0.460	2.831	
105	0.460	0.913	2.306	285	0.460	2.909	
110	0.460	0.952	2.578	290	0.460	2.987	
115	0.460	0.991	2.850	295	0.460	3.065	
120	0.460	1.030	3.122	300	0.460	3.142	
125	0.460	1.069	3.394	305	0.460	3.220	
130	0.460	1.108		310	0.460	3.298	
135	0.460	1.148		315	0.460	3.376	
140	0.460	1.187		320	0.460	3.454	
145	0.460	1.226		325	0.487		
150	0.460	1.265		330	0.522		
155	0.460	1.304		335	0.557		
160	0.460	1.343		340	0.592		
165	0.460	1.382		345	0.628		
170	0.460	1.421		350	0.663		
175	0.460	1.460		355	0.698		
180	0.460	1.499		360	0.733		
185	0.460	1.538		365	0.768		
190	0.460	1.577		370	0.803		
195	0.460	1.616		375	0.838		
200	0.460	1.655		380	0.873		
205	0.460	1.694		385	0.908		
210	0.460	1.740		390	0.944		
215	0.460	1.817		395	0.979		
220	0.460	1.895		400	1.014		
225	0.460	1.973		405	1.049		

\*4 sided hollows beams upto 2.103 mm only

PLEASE NOTE: The critical temperatures in this loading table are as defined for offices in accordance with BS5950-8:2003 as per Table 18 of the ASFP 5th Edition Yellow Book. The Yellow book also gives new critical temperatures to comply with several different building uses either to the Eurocodes for steel design or BS5950-8:2003. Alternative loadings tables to other critical temperatures are available from the Nullifire Technical Desk on request.



# SC601 & SC602

## Loading Tables



### 3-Sided Hollow Beams: Critical Temperature: 620°C

Section Factor up to m <sup>1</sup>	30 minutes	60 minutes	90 minutes	120 minutes	Section Factor up to m <sup>1</sup>	30 minutes	60 minutes	90 minutes	120 minutes
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)		DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.466	0.466	0.766	1.310	230	0.466	0.968	1.821	-
55	0.466	0.466	0.803	1.387	235	0.466	1.001	1.840	-
60	0.466	0.466	0.840	1.464	240	0.466	1.034	1.859	-
65	0.466	0.466	0.878	1.532	245	0.466	1.067	1.878	-
70	0.466	0.466	0.915	1.557	250	0.466	1.100	1.896	-
75	0.466	0.466	0.952	1.581	255	0.466	1.133	1.915	-
80	0.466	0.466	0.990	1.606	260	0.466	1.166	1.934	-
85	0.466	0.466	1.027	1.630	265	0.466	1.199	1.953	-
90	0.466	0.466	1.065	1.654	270	0.466	1.232	1.972	-
95	0.466	0.466	1.102	1.679	275	0.466	1.265	1.990	-
100	0.466	0.466	1.139	1.703	280	0.466	1.298	2.009	-
105	0.466	0.466	1.177	1.728	285	0.466	1.331	2.028	-
110	0.466	0.466	1.214	1.752	290	0.466	1.364	2.047	-
115	0.466	0.466	1.252	1.777	295	0.466	1.396	2.066	-
120	0.466	0.466	1.289	1.801	300	0.466	1.429	2.084	-
125	0.466	0.466	1.326	1.826	305	0.466	1.462	2.103	-
130	0.466	0.466	1.364	1.850					
135	0.466	0.466	1.401	1.875					
140	0.466	0.466	1.439	1.899					
145	0.466	0.466	1.476	1.924					
150	0.466	0.466	1.513	1.948					
155	0.466	0.474	1.539	1.973					
160	0.466	0.507	1.558	1.997					
165	0.466	0.540	1.577	2.022					
170	0.466	0.573	1.596	2.046					
175	0.466	0.605	1.615	2.071					
180	0.466	0.638	1.633	2.095					
185	0.466	0.671	1.652	2.120					
190	0.466	0.704	1.671	2.144					
195	0.466	0.737	1.690	2.169					
200	0.466	0.770	1.709						
205	0.466	0.803	1.727						
210	0.466	0.836	1.746						
215	0.466	0.869	1.765						
220	0.466	0.902	1.784						
225	0.466	0.935	1.802						

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