



# SC80I Loading Tables

SC80I-I20  
Material Specification  
Specific Gravity: 1.38  
Volume Solids: 68% ± 3%



## I-Section Columns: Critical Temperature: 550°C\*

Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes			Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>		WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
30	0.663	0.451	925	0.672	0.457	937	1.396	0.950	1,946	200	1.309	0.890	1,825	2.862	1.946	3,990	5.256	3.574	7,327
35	0.663	0.451	925	0.735	0.500	1,025	1.593	1.084	2,221	205	1.335	0.908	1,861	2.931	1.993	4,086	5.373	3.654	7,490
40	0.663	0.451	925	0.799	0.543	1,114	1.803	1.226	2,514	210	1.360	0.925	1,896	3.000	2.040	4,182	5.490	3.733	7,653
45	0.663	0.451	925	0.862	0.586	1,202	2.013	1.369	2,806	215	1.387	0.943	1,933	3.069	2.087	4,279	5.607	3.813	7,816
50	0.663	0.451	925	0.926	0.630	1,291	2.223	1.512	3,099	220	1.413	0.961	1,970	3.139	2.134	4,375	5.724	3.892	7,979
55	0.663	0.451	925	0.989	0.673	1,379	2.433	1.654	3,392	225	1.438	0.978	2,005	3.208	2.181	4,471	5.874	3.994	8,188
60	0.663	0.451	925	1.053	0.716	1,468	2.543	1.729	3,545	230	1.465	0.996	2,042	3.277	2.228	4,568	6.024	4.096	8,398
65	0.663	0.451	925	1.116	0.759	1,556	2.629	1.788	3,665	235	1.503	1.022	2,095	3.346	2.275	4,664	6.175	4.199	8,607
70	0.663	0.451	925	1.180	0.802	1,645	2.714	1.846	3,784	240	1.549	1.053	2,159	3.415	2.322	4,761	6.325	4.301	8,817
75	0.663	0.451	925	1.243	0.845	1,733	2.800	1.904	3,903	245	1.594	1.084	2,222	3.484	2.369	4,857	6.475	4.403	9,027
80	0.685	0.466	955	1.307	0.889	1,822	2.885	1.962	4,022	250	1.640	1.115	2,286	3.553	2.416	4,953	6.626	4.505	9,236
85	0.712	0.484	992	1.370	0.932	1,910	2.971	2.020	4,141	255	1.685	1.146	2,349	3.622	2.463	5,050	6.776	4.608	9,446
90	0.737	0.501	1,027	1.434	0.975	1,999	3.056	2.078	4,260	260	1.732	1.178	2,415	3.691	2.510	5,146	6.926	4.710	9,655
95	0.763	0.519	1,064	1.497	1.018	2,087	3.142	2.136	4,379	265	1.778	1.209	2,478	3.761	2.557	5,242	7.077	4.812	9,865
100	0.790	0.537	1,101	1.561	1.061	2,176	3.227	2.194	4,499	270	1.824	1.240	2,542	3.830	2.604	5,339	7.227	4.914	10,075
105	0.815	0.554	1,136	1.624	1.105	2,264	3.313	2.253	4,618	275	1.869	1.271	2,606	3.899	2.651	5,435	7.377	5.017	10,284
110	0.841	0.572	1,173	1.688	1.148	2,353	3.398	2.311	4,737	280	1.915	1.302	2,669	3.968	2.698	5,531	7.528	5.119	10,494
115	0.868	0.590	1,210	1.751	1.191	2,441	3.484	2.369	4,856	285	1.962	1.334	2,735	4.037	2.745	5,628	7.678	5.221	10,703
120	0.893	0.607	1,244	1.815	1.234	2,530	3.569	2.427	4,975	290	2.007	1.365	2,798	4.145	2.819	5,778	7.828	5.323	10,913
125	0.919	0.625	1,281	1.878	1.277	2,618	3.654	2.485	5,094	295	2.053	1.396	2,862	4.279	2.910	5,965	7.979	5.426	11,123
130	0.946	0.643	1,318	1.942	1.320	2,707	3.740	2.543	5,213	300	2.099	1.427	2,925	4.413	3.001	6,151	8.129	5.528	11,332
135	0.971	0.660	1,353	2.005	1.364	2,795	3.825	2.601	5,333	305	2.144	1.458	2,989	4.546	3.091	6,338	-	-	-
140	0.997	0.678	1,390	2.069	1.407	2,884	3.911	2.659	5,452	310	2.191	1.490	3,055	4.680	3.182	6,524	-	-	-
145	1.024	0.696	1,427	2.132	1.450	2,972	3.996	2.718	5,571	315	2.237	1.521	3,118	4.814	3.273	6,711	-	-	-
150	1.049	0.713	1,462	2.196	1.493	3,061	4.088	2.780	5,699	320	2.282	1.552	3,182	4.948	3.364	6,897	-	-	-
155	1.075	0.731	1,499	2.259	1.536	3,149	4.205	2.859	5,862	325	2.328	1.583	3,245	5.081	3.455	7,083	-	-	-
160	1.101	0.749	1,535	2.323	1.579	3,238	4.322	2.939	6,024	330	2.374	1.614	3,309	5.215	3.546	7,270	-	-	-
165	1.126	0.766	1,570	2.386	1.623	3,326	4.439	3.018	6,187	335	2.421	1.646	3,374	5.349	3.637	7,456	-	-	-
170	1.153	0.784	1,607	2.450	1.666	3,415	4.555	3.098	6,350	340	2.466	1.677	3,438	5.483	3.728	7,643	-	-	-
175	1.179	0.802	1,644	2.516	1.711	3,508	4.672	3.177	6,513	345	2.526	1.718	3,522	5.617	3.819	7,829	-	-	-
180	1.204	0.819	1,679	2.586	1.758	3,604	4.789	3.257	6,676	350	2.593	1.763	3,614	5.750	3.910	8,016	-	-	-
185	1.231	0.837	1,716	2.655	1.805	3,701	4.906	3.336	6,839	355	2.657	1.807	3,704	5.885	4.001	8,203	-	-	-
190	1.257	0.855	1,753	2.724	1.852	3,797	5.023	3.415	7,002	360	2.722	1.851	3,795	6.019	4.093	8,390	-	-	-
195	1.282	0.872	1,788	2.793	1.899	3,893	5.139	3.495	7,164										

Table applies to columns with protection to four sides. Thickness is intumescent only. Table also applies to beams protected on four sides up to a nominal thickness of 3.992 mm.

02/12/2015 v.2



# SC80I Loading Tables

SC80I-I20  
Material Specification  
Specific Gravity: 1.38  
Volume Solids: 68% ± 3%

**Nullifire**  
Smart Protection

## I-Section Beams: Critical Temperature: 620°C\*

Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes			Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>		WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
30	0.663	0.451	924	0.663	0.451	924	1.041	0.708	1,451	200	1.001	0.681	1,396	2.097	1.426	2,924	3.925	2.669	5,472
35	0.663	0.451	924	0.663	0.451	924	1.172	0.797	1,633	205	1.022	0.695	1,425	2.141	1.456	2,984	3.989	2.712	5,560
40	0.663	0.451	924	0.704	0.479	981	1.303	0.886	1,816	210	1.043	0.709	1,453	2.184	1.485	3,045	4.052	2.755	5,649
45	0.663	0.451	924	0.747	0.508	1,042	1.434	0.975	1,998	215	1.062	0.722	1,480	2.228	1.515	3,106	4.158	2.828	5,796
50	0.663	0.451	924	0.791	0.538	1,103	1.564	1.064	2,181	220	1.082	0.736	1,509	2.272	1.545	3,166	4.275	2.907	5,959
55	0.663	0.451	924	0.834	0.567	1,163	1.695	1.153	2,363	225	1.103	0.750	1,538	2.315	1.574	3,227	4.392	2.986	6,122
60	0.663	0.451	924	0.878	0.597	1,224	1.826	1.242	2,546	230	1.122	0.763	1,564	2.359	1.604	3,288	4.509	3.066	6,285
65	0.663	0.451	924	0.922	0.627	1,285	1.957	1.331	2,728	235	1.143	0.777	1,593	2.402	1.633	3,349	4.625	3.145	6,448
70	0.663	0.451	924	0.965	0.656	1,345	2.088	1.420	2,911	240	1.162	0.790	1,620	2.446	1.663	3,409	4.742	3.225	6,611
75	0.663	0.451	924	1.009	0.686	1,406	2.219	1.509	3,093	245	1.182	0.804	1,648	2.515	1.710	3,505	4.859	3.304	6,774
80	0.663	0.451	924	1.052	0.716	1,467	2.350	1.598	3,275	250	1.203	0.818	1,677	2.590	1.761	3,610	4.976	3.384	6,936
85	0.663	0.451	924	1.096	0.745	1,528	2.467	1.678	3,439	255	1.222	0.831	1,704	2.665	1.812	3,715	5.093	3.463	7,099
90	0.663	0.451	924	1.139	0.775	1,588	2.530	1.721	3,528	260	1.243	0.845	1,732	2.740	1.863	3,820	5.210	3.542	7,262
95	0.663	0.451	924	1.183	0.804	1,649	2.594	1.764	3,616	265	1.263	0.859	1,761	2.816	1.915	3,925	5.326	3.622	7,425
100	0.663	0.451	924	1.226	0.834	1,710	2.657	1.807	3,704	270	1.282	0.872	1,788	2.891	1.966	4,030	5.443	3.701	7,588
105	0.663	0.451	924	1.270	0.864	1,770	2.721	1.850	3,793	275	1.303	0.886	1,816	2.966	2.017	4,135	5.560	3.781	7,751
110	0.663	0.451	924	1.314	0.893	1,831	2.784	1.893	3,881	280	1.322	0.899	1,843	3.041	2.068	4,240	5.677	3.860	7,913
115	0.663	0.451	924	1.357	0.923	1,892	2.847	1.936	3,969	285	1.343	0.913	1,872	3.117	2.119	4,345	5.794	3.940	8,076
120	0.681	0.463	949	1.401	0.952	1,952	2.911	1.979	4,058	290	1.363	0.927	1,900	3.192	2.170	4,449	-	-	-
125	0.701	0.477	978	1.444	0.982	2,013	2.974	2.023	4,146	295	1.382	0.940	1,927	3.267	2.222	4,554	-	-	-
130	0.722	0.491	1,007	1.488	1.012	2,074	3.038	2.066	4,235	300	1.403	0.954	1,956	3.342	2.273	4,659	-	-	-
135	0.741	0.504	1,033	1.531	1.041	2,135	3.101	2.109	4,323	305	1.424	0.968	1,984	3.418	2.324	4,764	-	-	-
140	0.762	0.518	1,062	1.575	1.071	2,195	3.164	2.152	4,411	310	1.443	0.981	2,011	3.493	2.375	4,869	-	-	-
145	0.781	0.531	1,089	1.618	1.100	2,256	3.228	2.195	4,500	315	1.463	0.995	2,040	3.568	2.426	4,974	-	-	-
150	0.801	0.545	1,117	1.662	1.130	2,317	3.291	2.238	4,588	320	1.497	1.018	2,087	3.643	2.477	5,079	-	-	-
155	0.822	0.559	1,146	1.705	1.160	2,377	3.355	2.281	4,676	325	1.554	1.057	2,167	3.719	2.529	5,184	-	-	-
160	0.841	0.572	1,173	1.749	1.189	2,438	3.418	2.324	4,765	330	1.612	1.096	2,247	3.794	2.580	5,289	-	-	-
165	0.862	0.586	1,201	1.793	1.219	2,499	3.481	2.367	4,853	335	1.668	1.134	2,325	3.869	2.631	5,393	-	-	-
170	0.882	0.600	1,230	1.836	1.249	2,559	3.545	2.410	4,942	340	1.725	1.173	2,405	3.944	2.682	5,498	-	-	-
175	0.901	0.613	1,257	1.880	1.278	2,620	3.608	2.454	5,030	345	1.782	1.212	2,485	4.020	2.733	5,603	-	-	-
180	0.922	0.627	1,285	1.923	1.308	2,681	3.672	2.497	5,118	350	1.838	1.250	2,563	4.138	2.814	5,769	-	-	-
185	0.941	0.640	1,312	1.967	1.337	2,742	3.735	2.540	5,207	355	1.896	1.289	2,642	4.323	2.939	6,026	-	-	-
190	0.962	0.654	1,341	2.010	1.367	2,802	3.798	2.583	5,295	360	1.953	1.328	2,722	4.507	3.065	6,283	-	-	-
195	0.982	0.668	1,369	2.054	1.397	2,863	3.862	2.626	5,383										

Table applies to beams with a concrete slab protection to three sides. Thickness is intumescent only.

02/12/2015 v.2



# SC80I Loading Tables

SC80I-I20  
Material Specification  
Specific Gravity: 1.38  
Volume Solids: 68% ± 3%



## Circular Hollow Section Columns: Critical Temperature: 520°C\*

Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes			Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>		WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	2.619	1.781	3,651	2.619	1.781	3,651	3.166	2.153	4,413	240	5.354	3.641	7,464	9.786	6.654	13,641	-	-	-
45	2.619	1.781	3,651	2.619	1.781	3,651	3.378	2.297	4,709	245	5.413	3.681	7,546	9.888	6.724	13,784	-	-	-
50	2.619	1.781	3,651	2.619	1.781	3,651	3.590	2.441	5,004	250	5.472	3.721	7,628	9.991	6.794	13,927	-	-	-
55	2.619	1.781	3,651	2.619	1.781	3,651	3.802	2.585	5,300	255	5.529	3.760	7,708	10.094	6.864	14,070	-	-	-
60	2.619	1.781	3,651	2.619	1.781	3,651	4.014	2.730	5,596	260	5.588	3.800	7,790	10.196	6.933	14,214	-	-	-
65	2.619	1.781	3,651	2.619	1.781	3,651	4.226	2.874	5,892	265	5.647	3.840	7,872	10.299	7.003	14,357	-	-	-
70	2.619	1.781	3,651	2.619	1.781	3,651	4.439	3.018	6,187	270	5.704	3.879	7,952	10.402	7.073	14,500	-	-	-
75	2.619	1.781	3,651	2.619	1.781	3,651	4.651	3.162	6,483	275	5.763	3.919	8,034	10.504	7.143	14,643	-	-	-
80	2.619	1.781	3,651	2.619	1.781	3,651	4.863	3.307	6,779	280	5.822	3.959	8,116	10.607	7.213	14,786	-	-	-
85	2.619	1.781	3,651	2.789	1.897	3,888	5.075	3.451	7,075	285	5.879	3.998	8,196	10.710	7.283	14,929	-	-	-
90	2.619	1.781	3,651	2.983	2.028	4,158	5.468	3.718	7,623	290	5.938	4.038	8,278	10.812	7.352	15,072	-	-	-
95	2.619	1.781	3,651	3.177	2.160	4,428	5.861	3.986	8,171	295	5.997	4.078	8,360	10.915	7.422	15,216	-	-	-
100	2.619	1.781	3,651	3.370	2.292	4,698	6.255	4.253	8,719	300	6.054	4.117	8,440	11.018	7.492	15,359	-	-	-
105	2.619	1.781	3,651	3.564	2.424	4,968	6.648	4.521	9,267	305	6.113	4.157	8,522	11.120	7.562	15,502	-	-	-
110	2.619	1.781	3,651	3.758	2.555	5,238	7.041	4.788	9,815	310	6.172	4.197	8,604	11.223	7.632	15,645	-	-	-
115	2.619	1.781	3,651	3.951	2.687	5,508	7.301	4.965	10,177	315	6.229	4.236	8,684	11.326	7.702	15,788	-	-	-
120	2.619	1.781	3,651	4.145	2.819	5,778	7.471	5.081	10,415	320	6.288	4.276	8,766	11.428	7.771	15,931	-	-	-
125	2.619	1.781	3,651	4.339	2.950	6,048	7.642	5.197	10,653	325	6.347	4.316	8,848	11.531	7.841	16,074	-	-	-
130	2.619	1.781	3,651	4.533	3.082	6,318	7.812	5.312	10,891	330	6.404	4.355	8,928	11.634	7.911	16,218	-	-	-
135	2.619	1.781	3,651	4.726	3.214	6,588	7.983	5.428	11,128	335	6.463	4.395	9,010	11.737	7.981	16,361	-	-	-
140	2.657	1.807	3,704	4.920	3.346	6,859	8.154	5.544	11,366	340	6.522	4.435	9,092	11.839	8.051	16,504	-	-	-
145	2.816	1.915	3,926	5.117	3.479	7,133	8.324	5.660	11,604	345	6.579	4.474	9,172	11.942	8.120	16,647	-	-	-
150	2.976	2.024	4,149	5.325	3.621	7,423	8.495	5.776	11,842	350	6.638	4.514	9,254	12.045	8.190	16,790	-	-	-
155	3.135	2.132	4,371	5.533	3.762	7,713	8.665	5.892	12,079	355	6.697	4.554	9,336	12.147	8.260	16,933	-	-	-
160	3.294	2.240	4,592	5.741	3.904	8,003	8.836	6.008	12,317	360	6.756	4.594	9,418	12.250	8.330	17,076	-	-	-
165	3.453	2.348	4,813	5.949	4.046	8,293	9.006	6.124	12,555	365	6.813	4.633	9,498	12.353	8.400	17,220	-	-	-
170	3.612	2.456	5,035	6.158	4.187	8,584	9.177	6.240	12,792	370	6.872	4.673	9,580	12.455	8.470	17,363	-	-	-
175	3.771	2.564	5,256	6.366	4.329	8,874	9.348	6.378	13,075	375	6.931	4.713	9,662	12.558	8.539	17,506	-	-	-
180	3.929	2.672	5,478	6.574	4.470	9,164	9.511	6.604	13,537	380	6.988	4.752	9,742	12.661	8.609	17,649	-	-	-
185	4.090	2.781	5,701	6.782	4.612	9,454	10.043	6.829	13,999	385	7.047	4.792	9,824	12.763	8.679	17,792	-	-	-
190	4.249	2.889	5,922	6.990	4.753	9,745	10.374	7.054	14,461	390	7.106	4.832	9,906	-	-	-	-	-	-
195	4.407	2.997	6,144	7.199	4.895	10,035	10.706	7.280	14,924	395	7.163	4.871	9,986	-	-	-	-	-	-
200	4.566	3.105	6,365	7.679	5.222	10,705	11.037	7.505	15,386	400	7.234	4.919	10,084	-	-	-	-	-	-
205	4.725	3.213	6,587	8.160	5.549	11,375	11.369	7.731	15,848	405	7.324	4.980	10,209	-	-	-	-	-	-
210	4.884	3.321	6,808	8.640	5.875	12,045	11.700	7.956	16,310	410	7.412	5.040	10,332	-	-	-	-	-	-
215	5.043	3.429	7,029	9.121	6.202	12,715	12.032	8.182	16,772	415	7.500	5.100	10,455	-	-	-	-	-	-
220	5.122	3.483	7,140	9.375	6.375	13,069	12.363	8.407	17,234	420	7.590	5.161	10,580	-	-	-	-	-	-
225	5.179	3.522	7,220	9.478	6.445	13,212	12.695	8.632	17,696	425	7.678	5.221	10,703	-	-	-	-	-	-
230	5.238	3.562	7,302	9.580	6.515	13,355	-	-	-	430	7.768	5.282	10,828	-	-	-	-	-	-
235	5.297	3.602	7,384	9.683	6.584	13,498	-	-	-	435	7.856	5.342	10,951	-	-	-	-	-	-

Table applies to fully exposed columns with around protection. Thickness is intumescent only.

02/12/2015 v.2



# SC801 Loading Tables

SC801-H20  
Material Specification  
Specific Gravity: 1.38  
Volume Solids: 68% ± 3%



## Rectangular Hollow Section Columns: Critical Temperature: 520°C\*

Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes			Section Factor up to m <sup>1</sup>	60 minutes			90 minutes			120 minutes		
	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>		WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>	WFT	DFT	g/m <sup>2</sup>
40	2.619	1.781	3,651	2.619	1.781	3,651	3.166	2.153	4,413	240	5.356	3.642	7,466	9.786	6.654	13,641	-	-	-
45	2.619	1.781	3,651	2.619	1.781	3,651	3.378	2.297	4,709	245	5.415	3.682	7,548	9.888	6.724	13,784	-	-	-
50	2.619	1.781	3,651	2.619	1.781	3,651	3.590	2.441	5,004	250	5.474	3.722	7,630	9.991	6.794	13,927	-	-	-
55	2.619	1.781	3,651	2.619	1.781	3,651	3.802	2.585	5,300	255	5.532	3.762	7,712	10.094	6.864	14,070	-	-	-
60	2.619	1.781	3,651	2.619	1.781	3,651	4.014	2.730	5,596	260	5.591	3.802	7,794	10.196	6.933	14,214	-	-	-
65	2.619	1.781	3,651	2.619	1.781	3,651	4.226	2.874	5,892	265	5.650	3.842	7,876	10.299	7.003	14,357	-	-	-
70	2.619	1.781	3,651	2.619	1.781	3,651	4.439	3.018	6,187	270	5.709	3.882	7,958	10.402	7.073	14,500	-	-	-
75	2.619	1.781	3,651	2.619	1.781	3,651	4.651	3.162	6,483	275	5.768	3.922	8,040	10.504	7.143	14,643	-	-	-
80	2.619	1.781	3,651	2.619	1.781	3,651	4.863	3.307	6,779	280	5.826	3.962	8,122	10.607	7.213	14,786	-	-	-
85	2.619	1.781	3,651	2.789	1.897	3,888	5.075	3.451	7,075	285	5.884	4.001	8,202	10.710	7.283	14,929	-	-	-
90	2.619	1.781	3,651	2.983	2.028	4,158	5.319	3.617	7,415	290	5.943	4.041	8,284	10.812	7.352	15,072	-	-	-
95	2.619	1.781	3,651	3.177	2.160	4,428	5.563	3.783	7,755	295	6.001	4.081	8,366	10.915	7.422	15,216	-	-	-
100	2.619	1.781	3,651	3.370	2.292	4,698	5.807	3.949	8,095	300	6.060	4.121	8,448	11.018	7.492	15,359	-	-	-
105	2.619	1.781	3,651	3.564	2.424	4,968	6.051	4.115	8,435	305	6.119	4.161	8,530	11.120	7.562	15,502	-	-	-
110	2.619	1.781	3,651	3.758	2.555	5,238	6.295	4.281	8,775	310	6.178	4.201	8,612	11.223	7.632	15,645	-	-	-
115	2.619	1.781	3,651	3.951	2.687	5,508	6.539	4.446	9,115	315	6.237	4.241	8,694	11.326	7.702	15,788	-	-	-
120	2.619	1.781	3,651	4.145	2.819	5,778	6.783	4.612	9,455	320	6.296	4.281	8,776	11.428	7.771	15,931	-	-	-
125	2.619	1.781	3,651	4.339	2.950	6,048	7.027	4.778	9,795	325	6.354	4.321	8,858	11.531	7.841	16,074	-	-	-
130	2.619	1.781	3,651	4.533	3.082	6,318	7.269	4.943	10,132	330	6.413	4.361	8,940	11.634	7.911	16,218	-	-	-
135	2.619	1.781	3,651	4.726	3.214	6,588	7.501	5.101	10,456	335	6.471	4.400	9,020	11.737	7.981	16,361	-	-	-
140	2.657	1.807	3,704	4.920	3.346	6,859	7.733	5.259	10,780	340	6.529	4.440	9,102	11.839	8.051	16,504	-	-	-
145	2.816	1.915	3,926	5.117	3.480	7,133	7.966	5.417	11,104	345	6.588	4.480	9,184	11.942	8.120	16,647	-	-	-
150	2.976	2.024	4,149	5.328	3.623	7,427	8.198	5.575	11,428	350	6.647	4.520	9,266	12.045	8.190	16,790	-	-	-
155	3.135	2.132	4,371	5.538	3.766	7,720	8.430	5.733	11,752	355	6.706	4.560	9,348	12.147	8.260	16,933	-	-	-
160	3.294	2.240	4,592	5.749	3.909	8,014	8.663	5.891	12,076	360	6.765	4.600	9,430	12.250	8.330	17,076	-	-	-
165	3.453	2.348	4,813	5.959	4.052	8,307	8.895	6.049	12,400	365	6.824	4.640	9,512	12.353	8.400	17,220	-	-	-
170	3.612	2.456	5,035	6.170	4.195	8,600	9.127	6.207	12,724	370	6.882	4.680	9,594	12.455	8.470	17,363	-	-	-
175	3.771	2.564	5,256	6.380	4.338	8,894	9.360	6.378	13,075	375	6.941	4.720	9,676	12.558	8.539	17,506	-	-	-
180	3.929	2.672	5,478	6.591	4.482	9,187	9.591	6.504	13,437	380	6.999	4.759	9,756	12.661	8.609	17,649	-	-	-
185	4.090	2.781	5,701	6.801	4.625	9,481	9.823	6.629	13,800	385	7.057	4.799	9,838	12.763	8.679	17,792	-	-	-
190	4.249	2.889	5,922	7.012	4.768	9,774	10.054	6.754	14,161	390	7.116	4.839	9,920	-	-	-	-	-	-
195	4.407	2.997	6,144	7.222	4.911	10,068	10.286	6.879	14,524	395	7.175	4.879	10,002	-	-	-	-	-	-
200	4.566	3.105	6,365	7.432	5.054	10,372	10.517	7.004	14,887	400	7.234	4.923	10,092	-	-	-	-	-	-
205	4.725	3.213	6,587	7.642	5.197	10,676	10.748	7.129	15,250	405	7.293	4.967	10,182	-	-	-	-	-	-
210	4.884	3.321	6,808	7.852	5.340	10,980	10.979	7.254	15,613	410	7.352	5.011	10,272	-	-	-	-	-	-
215	5.043	3.429	7,029	8.062	5.483	11,284	11.210	7.379	15,976	415	7.411	5.055	10,362	-	-	-	-	-	-
220	5.202	3.537	7,250	8.272	5.626	11,588	11.441	7.504	16,339	420	7.470	5.100	10,452	-	-	-	-	-	-
225	5.361	3.645	7,471	8.482	5.769	11,892	11.672	7.629	16,702	425	7.529	5.144	10,542	-	-	-	-	-	-
230	5.520	3.753	7,692	8.692	5.912	12,196	11.903	7.754	17,065	430	7.588	5.188	10,632	-	-	-	-	-	-
235	5.679	3.861	7,913	8.902	6.055	12,500	12.134	7.879	17,428	435	7.647	5.232	10,722	-	-	-	-	-	-

Table applies to fully exposed columns with around protection. Thickness is intumescent only.

### PLEASE NOTE:

- \* The Critical Temperatures in this loading table are the generally accepted UK "default temperatures". The ASFP 5th Edition Yellow Book gives new Critical Temperatures to comply with either the Eurocodes for steel design, or BS 5950-8: 2003. Alternative loading tables to the new Critical Temperatures are available from the Nullifire Technical Desk on request.
- \* SC801 has been tested on cellular beams according to BS EN 13381-9 2015 and approved for 30-120 minutes. Please refer to Technical Services.