



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: $69\% \pm 3\%$

Nullifire
Smart Protection

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Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
55	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
60	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
65	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
70	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
75	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
80	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
85	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
90	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
95	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
100	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
105	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
110	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
115	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
120	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
125	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
130	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
135	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
140	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
145	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
150	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
155	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
160	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
165	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
170	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
175	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
180	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
185	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
190	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226

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	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
200	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
205	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
210	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
215	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
220	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
225	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
230	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
235	0.235	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
240	0.244	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
245	0.253	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
250	0.262	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
255	0.271	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
260	0.280	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
265	0.289	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
270	0.298	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
275	0.307	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
280	0.316	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
285	0.324	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
290	0.333	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
295	0.342	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
300	0.351	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
305	0.360	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
310	0.369	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
315	0.378	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
320	0.387	0.228	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
325	0.396	0.235	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
330	0.405	0.242	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
335	0.414	0.248	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226

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50	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
55	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
60	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
65	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
70	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
75	0.234	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
80	0.250	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
85	0.266	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
90	0.281	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
95	0.297	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
100	0.313	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
105	0.328	0.235	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
110	0.344	0.246	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
115	0.360	0.258	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
120	0.375	0.270	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
125	0.391	0.281	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
130	0.407	0.293	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
135	0.422	0.304	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
140	0.438	0.316	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
145	0.454	0.327	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
150	0.469	0.339	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
155	0.485	0.350	0.236	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
160	0.501	0.362	0.246	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
165	0.516	0.373	0.256	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
170	0.532	0.385	0.267	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
175	0.548	0.396	0.277	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
180	0.563	0.408	0.287	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
185	0.579	0.419	0.297	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
190	0.595	0.431	0.307	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226

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Fire Resistance Period: 30 Minutes**

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195	0.610	0.443	0.317	0.228	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
200	0.626	0.454	0.327	0.237	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
205	0.642	0.466	0.337	0.246	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
210	0.657	0.477	0.348	0.255	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
215	0.673	0.489	0.358	0.264	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
220	0.689	0.500	0.368	0.272	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
225	0.704	0.512	0.378	0.281	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
230	0.720	0.523	0.388	0.290	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
235	0.736	0.535	0.398	0.299	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
240	0.751	0.546	0.408	0.308	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
245	0.767	0.558	0.419	0.317	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
250	0.783	0.569	0.429	0.326	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
255	0.798	0.581	0.439	0.335	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
260	0.814	0.593	0.449	0.343	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
265	0.832	0.604	0.459	0.352	0.235	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
270	0.850	0.616	0.469	0.361	0.243	0.233	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
275	0.868	0.627	0.479	0.370	0.251	0.241	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
280	0.886	0.639	0.490	0.379	0.259	0.249	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
285	0.904	0.650	0.500	0.388	0.267	0.257	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
290	0.922	0.662	0.510	0.397	0.275	0.265	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
295	0.939	0.673	0.520	0.406	0.284	0.273	0.226	0.229	0.226	0.226	0.226	0.226	0.226	0.226	0.226
300	0.957	0.685	0.530	0.414	0.292	0.281	0.226	0.237	0.228	0.226	0.226	0.226	0.226	0.226	0.226
305	0.975	0.696	0.540	0.423	0.300	0.289	0.226	0.244	0.235	0.226	0.226	0.226	0.226	0.226	0.226
310	0.993	0.708	0.550	0.432	0.308	0.297	0.226	0.252	0.242	0.226	0.226	0.226	0.226	0.226	0.226
315	1.011	0.719	0.561	0.441	0.316	0.305	0.226	0.259	0.250	0.232	0.226	0.226	0.226	0.226	0.226
320	1.029	0.731	0.571	0.450	0.325	0.313	0.226	0.266	0.257	0.239	0.231	0.226	0.226	0.226	0.226
325	1.047	0.742	0.581	0.459	0.333	0.321	0.235	0.274	0.264	0.245	0.237	0.226	0.226	0.226	0.226
330	1.065	0.754	0.591	0.468	0.341	0.329	0.245	0.281	0.271	0.252	0.244	0.226	0.226	0.226	0.226
335	1.083	0.766	0.601	0.477	0.349	0.337	0.254	0.289	0.279	0.259	0.251	0.226	0.226	0.226	0.226

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SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 3: 3-Sided Beams
Fire Resistance Period: 45 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.402	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
55	0.443	0.232	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
60	0.484	0.253	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
65	0.525	0.274	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
70	0.567	0.295	0.231	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
75	0.608	0.316	0.244	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
80	0.649	0.337	0.258	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
85	0.690	0.358	0.271	0.228	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
90	0.732	0.379	0.285	0.240	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
95	0.773	0.400	0.298	0.251	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
100	0.814	0.421	0.312	0.263	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
105	0.832	0.441	0.325	0.274	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
110	0.849	0.462	0.339	0.286	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
115	0.867	0.483	0.352	0.297	0.228	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
120	0.885	0.504	0.366	0.309	0.239	0.232	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
125	0.902	0.525	0.379	0.321	0.249	0.243	0.234	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
130	0.920	0.546	0.393	0.332	0.260	0.253	0.245	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
135	0.938	0.567	0.406	0.344	0.270	0.263	0.255	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
140	0.955	0.588	0.420	0.355	0.281	0.274	0.265	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
145	0.973	0.609	0.433	0.367	0.291	0.284	0.276	0.232	0.226	0.226	0.226	0.226	0.226	0.226	0.226
150	0.991	0.630	0.447	0.379	0.302	0.294	0.286	0.242	0.230	0.226	0.226	0.226	0.226	0.226	0.226
155	1.008	0.651	0.460	0.390	0.312	0.305	0.297	0.252	0.240	0.226	0.226	0.226	0.226	0.226	0.226
160	1.026	0.672	0.474	0.402	0.323	0.315	0.307	0.263	0.250	0.226	0.226	0.226	0.226	0.226	0.226
165	1.044	0.693	0.487	0.413	0.333	0.326	0.317	0.273	0.260	0.236	0.230	0.226	0.226	0.226	0.226
170	1.061	0.714	0.501	0.425	0.344	0.336	0.328	0.283	0.270	0.246	0.240	0.226	0.226	0.226	0.226
175	1.079	0.734	0.514	0.436	0.354	0.346	0.338	0.293	0.281	0.255	0.249	0.226	0.226	0.226	0.226
180	1.097	0.755	0.528	0.448	0.365	0.357	0.349	0.303	0.291	0.265	0.259	0.230	0.226	0.226	0.226
185	1.114	0.776	0.541	0.460	0.376	0.367	0.359	0.313	0.301	0.275	0.269	0.239	0.226	0.226	0.226
190	1.132	0.797	0.555	0.471	0.386	0.378	0.369	0.324	0.311	0.285	0.279	0.249	0.226	0.226	0.226

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Table 3: 3-Sided Beams
Fire Resistance Period: 45 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	1.150	0.818	0.568	0.483	0.397	0.388	0.380	0.334	0.321	0.294	0.288	0.258	0.226	0.226	0.226
200	1.167	0.839	0.582	0.494	0.407	0.398	0.390	0.344	0.331	0.304	0.298	0.268	0.226	0.226	0.226
205	1.185	0.860	0.595	0.506	0.418	0.409	0.400	0.354	0.341	0.314	0.308	0.277	0.230	0.226	0.226
210	1.203	0.881	0.609	0.518	0.428	0.419	0.411	0.364	0.351	0.324	0.318	0.287	0.239	0.226	0.226
215	1.220	0.902	0.622	0.529	0.439	0.430	0.421	0.375	0.361	0.333	0.327	0.296	0.247	0.226	0.226
220	1.238	0.923	0.636	0.541	0.449	0.440	0.432	0.385	0.371	0.343	0.337	0.306	0.256	0.226	0.226
225	1.256	0.944	0.649	0.552	0.460	0.450	0.442	0.395	0.382	0.353	0.347	0.315	0.265	0.226	0.226
230	1.273	0.965	0.663	0.564	0.470	0.461	0.452	0.405	0.392	0.363	0.356	0.325	0.274	0.226	0.226
235	1.291	0.986	0.676	0.575	0.481	0.471	0.463	0.415	0.402	0.373	0.366	0.334	0.283	0.226	0.226
240	1.308	1.007	0.690	0.587	0.491	0.482	0.473	0.425	0.412	0.382	0.376	0.344	0.292	0.226	0.226
245	1.326	1.028	0.703	0.599	0.502	0.492	0.484	0.436	0.422	0.392	0.386	0.353	0.301	0.226	0.226
250	1.344	1.049	0.717	0.610	0.513	0.502	0.494	0.446	0.432	0.402	0.395	0.363	0.309	0.226	0.226
255	1.361	1.070	0.730	0.622	0.523	0.513	0.504	0.456	0.442	0.412	0.405	0.372	0.318	0.226	0.226
260	1.379	1.091	0.744	0.633	0.534	0.523	0.515	0.466	0.452	0.421	0.415	0.382	0.327	0.226	0.226
265	1.397	1.112	0.757	0.645	0.544	0.533	0.525	0.476	0.462	0.431	0.425	0.391	0.336	0.226	0.226
270	1.414	1.133	0.771	0.656	0.555	0.544	0.536	0.486	0.473	0.441	0.434	0.401	0.345	0.228	0.226
275	1.432	1.154	0.784	0.668	0.565	0.554	0.546	0.497	0.483	0.451	0.444	0.410	0.354	0.236	0.226
280	1.450	1.175	0.798	0.680	0.576	0.565	0.556	0.507	0.493	0.460	0.454	0.420	0.363	0.245	0.226
285	1.467	1.196	0.811	0.691	0.586	0.575	0.567	0.517	0.503	0.470	0.464	0.429	0.371	0.253	0.226
290	1.485	1.217	0.835	0.703	0.597	0.585	0.577	0.527	0.513	0.480	0.473	0.439	0.380	0.261	0.226
295	1.503	1.237	0.862	0.714	0.607	0.596	0.587	0.537	0.523	0.490	0.483	0.448	0.389	0.270	0.226
300	1.520	1.258	0.888	0.726	0.618	0.606	0.598	0.547	0.533	0.500	0.493	0.457	0.398	0.278	0.226
305	1.540	1.279	0.915	0.738	0.629	0.617	0.608	0.558	0.543	0.509	0.503	0.467	0.407	0.287	0.226
310	1.562	1.300	0.941	0.749	0.639	0.627	0.619	0.568	0.553	0.519	0.512	0.476	0.416	0.295	0.226
315	1.584	1.321	0.968	0.761	0.650	0.637	0.629	0.578	0.563	0.529	0.522	0.486	0.425	0.303	0.226
320	1.606	1.342	0.995	0.772	0.660	0.648	0.639	0.588	0.574	0.539	0.532	0.495	0.433	0.312	0.226
325	1.628	1.363	1.021	0.784	0.671	0.658	0.650	0.598	0.584	0.548	0.541	0.505	0.442	0.320	0.229
330	1.650	1.384	1.048	0.795	0.681	0.669	0.660	0.608	0.594	0.558	0.551	0.514	0.451	0.328	0.236
335	1.672	1.405	1.074	0.807	0.692	0.679	0.671	0.619	0.604	0.568	0.561	0.524	0.460	0.337	0.243

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SC804 Loading Tables

SC804
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Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 4: 3-Sided Beams
Fire Resistance Period: 60 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.782	0.522	0.362	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
55	0.805	0.569	0.391	0.239	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
60	0.832	0.616	0.420	0.257	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
65	0.861	0.663	0.448	0.276	0.231	0.228	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
70	0.891	0.710	0.477	0.294	0.244	0.241	0.236	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
75	0.921	0.757	0.505	0.313	0.257	0.254	0.249	0.230	0.228	0.226	0.226	0.226	0.226	0.226	0.226
80	0.950	0.805	0.534	0.331	0.270	0.267	0.261	0.243	0.240	0.226	0.226	0.226	0.226	0.226	0.226
85	0.980	0.832	0.562	0.350	0.283	0.279	0.274	0.255	0.252	0.235	0.230	0.226	0.226	0.226	0.226
90	1.010	0.855	0.591	0.368	0.296	0.292	0.287	0.267	0.264	0.247	0.242	0.226	0.226	0.226	0.226
95	1.039	0.878	0.620	0.386	0.309	0.305	0.300	0.279	0.276	0.258	0.254	0.235	0.226	0.226	0.226
100	1.069	0.901	0.648	0.405	0.322	0.318	0.313	0.291	0.288	0.270	0.265	0.246	0.226	0.226	0.226
105	1.098	0.924	0.677	0.423	0.335	0.331	0.326	0.304	0.300	0.282	0.277	0.258	0.226	0.226	0.226
110	1.128	0.947	0.705	0.442	0.348	0.344	0.339	0.316	0.312	0.293	0.288	0.269	0.237	0.226	0.226
115	1.158	0.970	0.734	0.460	0.361	0.357	0.351	0.328	0.324	0.305	0.300	0.280	0.247	0.226	0.226
120	1.187	0.993	0.763	0.479	0.375	0.369	0.364	0.340	0.336	0.317	0.312	0.292	0.258	0.226	0.226
125	1.217	1.016	0.791	0.497	0.388	0.382	0.377	0.353	0.348	0.328	0.323	0.303	0.269	0.226	0.226
130	1.247	1.039	0.818	0.515	0.401	0.395	0.390	0.365	0.360	0.340	0.335	0.314	0.279	0.226	0.226
135	1.276	1.062	0.838	0.534	0.414	0.408	0.403	0.377	0.372	0.352	0.347	0.326	0.290	0.226	0.226
140	1.306	1.085	0.857	0.552	0.427	0.421	0.416	0.389	0.384	0.363	0.358	0.337	0.301	0.226	0.226
145	1.335	1.108	0.877	0.571	0.440	0.434	0.428	0.401	0.396	0.375	0.370	0.348	0.311	0.234	0.226
150	1.365	1.131	0.896	0.589	0.453	0.446	0.441	0.414	0.408	0.387	0.381	0.360	0.322	0.244	0.226
155	1.395	1.154	0.916	0.608	0.466	0.459	0.454	0.426	0.420	0.398	0.393	0.371	0.333	0.255	0.226
160	1.424	1.177	0.935	0.626	0.479	0.472	0.467	0.438	0.432	0.410	0.405	0.382	0.343	0.265	0.226
165	1.454	1.200	0.955	0.644	0.492	0.485	0.480	0.450	0.444	0.422	0.416	0.394	0.354	0.275	0.226
170	1.484	1.223	0.975	0.663	0.505	0.498	0.493	0.462	0.456	0.433	0.428	0.405	0.365	0.285	0.226
175	1.513	1.246	0.994	0.681	0.518	0.511	0.506	0.475	0.468	0.445	0.440	0.417	0.376	0.296	0.226
180	1.540	1.269	1.014	0.700	0.531	0.524	0.518	0.487	0.480	0.457	0.451	0.428	0.386	0.306	0.232
185	1.563	1.292	1.033	0.718	0.545	0.536	0.531	0.499	0.492	0.468	0.463	0.439	0.397	0.316	0.241
190	1.586	1.315	1.053	0.737	0.558	0.549	0.544	0.511	0.504	0.480	0.474	0.451	0.408	0.326	0.250

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Fire Resistance Period: 60 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	1.609	1.338	1.073	0.755	0.571	0.562	0.557	0.523	0.516	0.492	0.486	0.462	0.418	0.337	0.260
200	1.632	1.361	1.092	0.773	0.584	0.575	0.570	0.536	0.528	0.503	0.498	0.473	0.429	0.347	0.269
205	1.655	1.384	1.112	0.792	0.597	0.588	0.583	0.548	0.540	0.515	0.509	0.485	0.440	0.357	0.278
210	1.677	1.407	1.131	0.810	0.610	0.601	0.596	0.560	0.552	0.527	0.521	0.496	0.450	0.367	0.288
215	1.700	1.430	1.151	0.834	0.623	0.614	0.608	0.572	0.564	0.539	0.533	0.507	0.461	0.378	0.297
220	1.723	1.453	1.171	0.859	0.636	0.626	0.621	0.584	0.576	0.550	0.544	0.519	0.472	0.388	0.306
225	1.746	1.476	1.190	0.884	0.649	0.639	0.634	0.597	0.588	0.562	0.556	0.530	0.483	0.398	0.315
230	1.769	1.499	1.210	0.909	0.662	0.652	0.647	0.609	0.600	0.574	0.568	0.541	0.493	0.408	0.325
235	1.792	1.522	1.229	0.934	0.675	0.665	0.660	0.621	0.612	0.585	0.579	0.553	0.504	0.419	0.334
240	1.815	1.542	1.249	0.958	0.688	0.678	0.673	0.633	0.624	0.597	0.591	0.564	0.515	0.429	0.343
245	1.838	1.561	1.268	0.983	0.702	0.691	0.685	0.646	0.636	0.609	0.602	0.576	0.525	0.439	0.353
250	1.860	1.580	1.288	1.008	0.715	0.703	0.698	0.658	0.648	0.620	0.614	0.587	0.536	0.449	0.362
255	1.883	1.600	1.308	1.033	0.728	0.716	0.711	0.670	0.660	0.632	0.626	0.598	0.547	0.460	0.371
260	1.906	1.619	1.327	1.058	0.741	0.729	0.724	0.682	0.672	0.644	0.637	0.610	0.557	0.470	0.381
265	1.929	1.638	1.347	1.083	0.754	0.742	0.737	0.694	0.684	0.655	0.649	0.621	0.568	0.480	0.390
270	1.952	1.657	1.366	1.108	0.767	0.755	0.750	0.707	0.696	0.667	0.661	0.632	0.579	0.490	0.399
275	1.975	1.676	1.386	1.133	0.780	0.768	0.763	0.719	0.708	0.679	0.672	0.644	0.589	0.501	0.408
280	1.998	1.695	1.406	1.158	0.793	0.781	0.775	0.731	0.720	0.690	0.684	0.655	0.600	0.511	0.418
285	2.021	1.714	1.425	1.182	0.806	0.793	0.788	0.743	0.732	0.702	0.695	0.666	0.611	0.521	0.427
290	2.043	1.733	1.445	1.207	0.828	0.806	0.801	0.755	0.744	0.714	0.707	0.678	0.622	0.531	0.436
295	2.066	1.752	1.464	1.232	0.862	0.828	0.814	0.768	0.756	0.725	0.719	0.689	0.632	0.541	0.446
300	2.089	1.771	1.484	1.257	0.896	0.862	0.848	0.780	0.768	0.737	0.730	0.700	0.643	0.552	0.455
305	2.112	1.790	1.504	1.282	0.930	0.896	0.882	0.792	0.780	0.749	0.742	0.712	0.654	0.562	0.464
310	2.135	1.809	1.523	1.307	0.964	0.930	0.915	0.804	0.792	0.760	0.754	0.723	0.664	0.572	0.474
315	2.158	1.828	1.544	1.332	0.998	0.964	0.949	0.821	0.804	0.772	0.765	0.735	0.675	0.582	0.483
320	2.181	1.847	1.567	1.357	1.033	0.998	0.983	0.854	0.821	0.784	0.777	0.746	0.686	0.593	0.492
325	2.204	1.866	1.589	1.382	1.067	1.033	1.017	0.887	0.854	0.795	0.788	0.757	0.696	0.603	0.501
330	-	1.885	1.612	1.407	1.101	1.067	1.051	0.920	0.887	0.807	0.800	0.769	0.707	0.613	0.511
335	-	1.904	1.634	1.431	1.135	1.101	1.085	0.953	0.920	0.827	0.812	0.780	0.718	0.623	0.520

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 5: 3-Sided Beams
Fire Resistance Period: 75 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.729	0.808	0.618	0.489	0.362	0.356	0.339	0.232	0.228	0.226	0.226	0.226	0.226	0.226	0.226
55	1.765	0.838	0.667	0.525	0.386	0.377	0.363	0.251	0.246	0.231	0.228	0.226	0.226	0.226	0.226
60	1.800	0.867	0.716	0.561	0.410	0.398	0.387	0.269	0.264	0.248	0.244	0.231	0.226	0.226	0.226
65	1.835	0.897	0.765	0.597	0.433	0.419	0.411	0.288	0.282	0.264	0.260	0.245	0.226	0.226	0.226
70	1.871	0.927	0.814	0.633	0.457	0.440	0.436	0.307	0.300	0.280	0.276	0.260	0.238	0.226	0.226
75	1.906	0.956	0.839	0.669	0.480	0.461	0.460	0.326	0.318	0.297	0.292	0.275	0.251	0.226	0.226
80	1.942	0.986	0.864	0.706	0.504	0.482	0.484	0.344	0.336	0.313	0.308	0.289	0.264	0.226	0.226
85	1.977	1.015	0.889	0.742	0.527	0.503	0.508	0.363	0.354	0.329	0.325	0.304	0.277	0.235	0.226
90	2.012	1.045	0.914	0.778	0.551	0.524	0.533	0.382	0.372	0.346	0.341	0.318	0.290	0.247	0.226
95	2.048	1.075	0.939	0.814	0.574	0.545	0.557	0.401	0.390	0.362	0.357	0.333	0.303	0.259	0.226
100	2.083	1.104	0.964	0.835	0.598	0.566	0.581	0.420	0.408	0.379	0.373	0.348	0.315	0.271	0.230
105	2.118	1.134	0.989	0.856	0.621	0.587	0.605	0.438	0.426	0.395	0.389	0.362	0.328	0.283	0.241
110	2.154	1.164	1.015	0.877	0.645	0.608	0.630	0.457	0.444	0.411	0.405	0.377	0.341	0.295	0.252
115	2.189	1.193	1.040	0.898	0.668	0.629	0.654	0.476	0.462	0.428	0.421	0.391	0.354	0.307	0.263
120	-	1.223	1.065	0.919	0.692	0.650	0.678	0.495	0.480	0.444	0.437	0.406	0.367	0.319	0.274
125	-	1.252	1.090	0.940	0.715	0.671	0.702	0.513	0.498	0.460	0.453	0.420	0.380	0.331	0.285
130	-	1.282	1.115	0.961	0.739	0.692	0.727	0.532	0.516	0.477	0.469	0.435	0.392	0.343	0.296
135	-	1.312	1.140	0.982	0.762	0.713	0.751	0.551	0.534	0.493	0.486	0.450	0.405	0.355	0.307
140	-	1.341	1.165	1.003	0.786	0.734	0.775	0.570	0.552	0.510	0.502	0.464	0.418	0.367	0.318
145	-	1.371	1.190	1.024	0.809	0.755	0.799	0.589	0.570	0.526	0.518	0.479	0.431	0.379	0.329
150	-	1.401	1.215	1.045	0.831	0.776	0.823	0.607	0.588	0.542	0.534	0.493	0.444	0.391	0.340
155	-	1.430	1.240	1.066	0.853	0.797	0.844	0.626	0.605	0.559	0.550	0.508	0.457	0.403	0.350
160	-	1.460	1.265	1.087	0.875	0.819	0.865	0.645	0.623	0.575	0.566	0.522	0.470	0.415	0.361
165	-	1.490	1.290	1.108	0.897	0.842	0.887	0.664	0.641	0.591	0.582	0.537	0.482	0.427	0.372
170	-	1.519	1.315	1.128	0.919	0.865	0.908	0.683	0.659	0.608	0.598	0.552	0.495	0.438	0.383
175	-	1.585	1.340	1.149	0.941	0.888	0.929	0.701	0.677	0.624	0.614	0.566	0.508	0.450	0.394
180	-	1.676	1.366	1.170	0.963	0.911	0.951	0.720	0.695	0.640	0.630	0.581	0.521	0.462	0.405
185	-	1.767	1.391	1.191	0.985	0.934	0.972	0.739	0.713	0.657	0.647	0.595	0.534	0.474	0.416
190	-	1.857	1.416	1.212	1.006	0.957	0.993	0.758	0.731	0.673	0.663	0.610	0.547	0.486	0.427

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 5: 3-Sided Beams
Fire Resistance Period: 75 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	-	1.948	1.441	1.233	1.028	0.981	1.015	0.776	0.749	0.690	0.679	0.624	0.560	0.498	0.438
200	-	2.038	1.466	1.254	1.050	1.004	1.036	0.795	0.767	0.706	0.695	0.639	0.572	0.510	0.449
205	-	2.129	1.491	1.275	1.072	1.027	1.057	0.814	0.785	0.722	0.711	0.654	0.585	0.522	0.460
210	-	2.220	1.516	1.296	1.094	1.050	1.079	0.842	0.803	0.739	0.727	0.668	0.598	0.534	0.471
215	-	-	1.539	1.317	1.116	1.073	1.100	0.871	0.826	0.755	0.743	0.683	0.611	0.546	0.482
220	-	-	1.559	1.338	1.138	1.096	1.121	0.899	0.855	0.771	0.759	0.697	0.624	0.558	0.493
225	-	-	1.578	1.359	1.159	1.119	1.143	0.928	0.884	0.788	0.775	0.712	0.637	0.570	0.504
230	-	-	1.598	1.380	1.181	1.142	1.164	0.956	0.913	0.804	0.791	0.727	0.650	0.582	0.514
235	-	-	1.618	1.401	1.203	1.166	1.185	0.985	0.942	0.827	0.808	0.741	0.662	0.594	0.525
240	-	-	1.637	1.422	1.225	1.189	1.207	1.013	0.971	0.858	0.833	0.756	0.675	0.606	0.536
245	-	-	1.657	1.443	1.247	1.212	1.228	1.042	1.001	0.889	0.865	0.770	0.688	0.618	0.547
250	-	-	1.677	1.464	1.269	1.235	1.249	1.070	1.030	0.921	0.897	0.785	0.701	0.630	0.558
255	-	-	1.696	1.485	1.291	1.258	1.271	1.099	1.059	0.952	0.929	0.799	0.714	0.642	0.569
260	-	-	1.716	1.506	1.312	1.281	1.292	1.127	1.088	0.984	0.961	0.814	0.727	0.654	0.580
265	-	-	1.736	1.527	1.334	1.304	1.313	1.155	1.117	1.015	0.993	0.849	0.739	0.666	0.591
270	-	-	1.756	1.549	1.356	1.327	1.335	1.184	1.146	1.047	1.025	0.885	0.752	0.678	0.602
275	-	-	1.775	1.571	1.378	1.351	1.356	1.212	1.175	1.078	1.057	0.920	0.765	0.690	0.613
280	-	-	1.795	1.594	1.400	1.374	1.377	1.241	1.205	1.110	1.089	0.956	0.778	0.702	0.624
285	-	-	1.815	1.616	1.422	1.397	1.399	1.269	1.234	1.141	1.121	0.991	0.791	0.714	0.635
290	-	-	1.834	1.639	1.444	1.420	1.420	1.298	1.263	1.173	1.153	1.027	0.804	0.726	0.646
295	-	-	1.854	1.661	1.465	1.443	1.441	1.326	1.292	1.204	1.185	1.062	0.822	0.737	0.657
300	-	-	1.874	1.683	1.487	1.466	1.463	1.355	1.321	1.235	1.217	1.098	0.862	0.749	0.668
305	-	-	1.893	1.706	1.509	1.489	1.484	1.383	1.350	1.267	1.249	1.133	0.903	0.761	0.678
310	-	-	1.913	1.728	1.531	1.512	1.505	1.412	1.379	1.298	1.281	1.169	0.943	0.773	0.689
315	-	-	1.933	1.751	1.555	1.536	1.527	1.440	1.409	1.330	1.313	1.204	0.983	0.785	0.700
320	-	-	1.952	1.773	1.579	1.559	1.549	1.468	1.438	1.361	1.345	1.240	1.023	0.797	0.711
325	-	-	1.972	1.796	1.603	1.582	1.573	1.497	1.467	1.393	1.377	1.275	1.064	0.809	0.722
330	-	-	1.992	1.818	1.626	1.605	1.596	1.525	1.496	1.424	1.409	1.311	1.104	0.835	0.733
335	-	-	2.012	1.840	1.650	1.628	1.619	1.548	1.525	1.456	1.441	1.346	1.144	0.870	0.744

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 6: 3-Sided Beams
Fire Resistance Period: 90 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.984	1.670	0.826	0.733	0.577	0.566	0.552	0.497	0.481	0.436	0.430	0.384	0.236	0.226	0.226
55	-	1.716	0.857	0.778	0.619	0.606	0.596	0.531	0.513	0.464	0.457	0.408	0.258	0.226	0.226
60	-	1.762	0.888	0.819	0.661	0.646	0.640	0.565	0.545	0.492	0.484	0.432	0.279	0.238	0.226
65	-	1.808	0.919	0.846	0.704	0.686	0.683	0.598	0.577	0.520	0.512	0.456	0.300	0.256	0.226
70	-	1.855	0.950	0.873	0.746	0.726	0.727	0.632	0.609	0.549	0.539	0.480	0.321	0.273	0.238
75	-	1.901	0.981	0.900	0.789	0.766	0.770	0.666	0.641	0.577	0.567	0.504	0.343	0.291	0.251
80	-	1.947	1.012	0.926	0.823	0.806	0.814	0.699	0.673	0.605	0.594	0.527	0.364	0.308	0.264
85	-	1.993	1.043	0.953	0.847	0.833	0.837	0.733	0.705	0.633	0.622	0.551	0.385	0.326	0.277
90	-	2.039	1.074	0.980	0.871	0.856	0.859	0.767	0.737	0.662	0.649	0.575	0.406	0.343	0.290
95	-	2.086	1.105	1.007	0.895	0.879	0.882	0.801	0.769	0.690	0.677	0.599	0.428	0.361	0.303
100	-	2.132	1.135	1.033	0.918	0.902	0.905	0.827	0.801	0.718	0.704	0.623	0.449	0.378	0.316
105	-	2.178	1.166	1.060	0.942	0.925	0.927	0.850	0.827	0.746	0.732	0.647	0.470	0.395	0.329
110	-	-	1.197	1.087	0.966	0.948	0.950	0.872	0.850	0.774	0.759	0.671	0.491	0.413	0.342
115	-	-	1.228	1.114	0.990	0.971	0.973	0.895	0.872	0.803	0.787	0.695	0.513	0.430	0.355
120	-	-	1.259	1.140	1.013	0.994	0.996	0.917	0.895	0.828	0.814	0.718	0.534	0.448	0.368
125	-	-	1.290	1.167	1.037	1.018	1.018	0.939	0.917	0.850	0.837	0.742	0.555	0.465	0.381
130	-	-	1.321	1.194	1.061	1.041	1.041	0.962	0.939	0.873	0.859	0.766	0.576	0.483	0.394
135	-	-	1.352	1.221	1.085	1.064	1.064	0.984	0.962	0.895	0.882	0.790	0.597	0.500	0.407
140	-	-	1.383	1.247	1.108	1.087	1.086	1.007	0.984	0.918	0.904	0.814	0.619	0.518	0.420
145	-	-	1.414	1.274	1.132	1.110	1.109	1.029	1.007	0.940	0.927	0.837	0.640	0.535	0.433
150	-	-	1.444	1.301	1.156	1.133	1.132	1.052	1.029	0.963	0.949	0.861	0.661	0.552	0.446
155	-	-	1.475	1.328	1.180	1.156	1.154	1.074	1.052	0.985	0.972	0.884	0.682	0.570	0.459
160	-	-	1.506	1.354	1.203	1.179	1.177	1.096	1.074	1.008	0.994	0.908	0.704	0.587	0.472
165	-	-	1.682	1.381	1.227	1.203	1.200	1.119	1.096	1.030	1.017	0.931	0.725	0.605	0.485
170	-	-	-	1.408	1.251	1.226	1.222	1.141	1.119	1.053	1.039	0.955	0.746	0.622	0.498
175	-	-	-	1.435	1.275	1.249	1.245	1.164	1.141	1.076	1.062	0.978	0.767	0.640	0.511
180	-	-	-	1.461	1.298	1.272	1.268	1.186	1.164	1.098	1.085	1.001	0.789	0.657	0.524
185	-	-	-	1.488	1.322	1.295	1.290	1.208	1.186	1.121	1.107	1.025	0.810	0.674	0.537
190	-	-	-	1.515	1.346	1.318	1.313	1.231	1.208	1.143	1.130	1.048	0.837	0.692	0.550

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 6: 3-Sided Beams
Fire Resistance Period: 90 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	-	-	-	1.540	1.370	1.341	1.336	1.253	1.231	1.166	1.152	1.072	0.865	0.709	0.562
200	-	-	-	1.563	1.393	1.364	1.359	1.276	1.253	1.188	1.175	1.095	0.893	0.727	0.575
205	-	-	-	1.586	1.417	1.388	1.381	1.298	1.276	1.211	1.197	1.119	0.921	0.744	0.588
210	-	-	-	1.609	1.441	1.411	1.404	1.320	1.298	1.233	1.220	1.142	0.949	0.762	0.601
215	-	-	-	1.632	1.465	1.434	1.427	1.343	1.320	1.256	1.242	1.165	0.978	0.779	0.614
220	-	-	-	1.655	1.488	1.457	1.449	1.365	1.343	1.278	1.265	1.189	1.006	0.797	0.627
225	-	-	-	1.677	1.512	1.480	1.472	1.388	1.365	1.301	1.287	1.212	1.034	0.814	0.640
230	-	-	-	1.700	1.535	1.503	1.495	1.410	1.388	1.324	1.310	1.236	1.062	0.843	0.653
235	-	-	-	1.723	1.557	1.526	1.517	1.432	1.410	1.346	1.333	1.259	1.091	0.873	0.666
240	-	-	-	1.746	1.578	1.548	1.540	1.455	1.432	1.369	1.355	1.283	1.119	0.902	0.679
245	-	-	-	1.769	1.600	1.570	1.561	1.477	1.455	1.391	1.378	1.306	1.147	0.932	0.692
250	-	-	-	1.792	1.622	1.592	1.583	1.500	1.477	1.414	1.400	1.329	1.175	0.961	0.705
255	-	-	-	1.815	1.643	1.614	1.605	1.522	1.500	1.436	1.423	1.353	1.204	0.990	0.718
260	-	-	-	1.838	1.665	1.636	1.627	1.544	1.522	1.459	1.445	1.376	1.232	1.020	0.731
265	-	-	-	1.860	1.686	1.657	1.649	1.567	1.544	1.481	1.468	1.400	1.260	1.049	0.744
270	-	-	-	1.883	1.708	1.679	1.670	1.589	1.567	1.504	1.490	1.423	1.288	1.078	0.757
275	-	-	-	1.906	1.729	1.701	1.692	1.612	1.589	1.526	1.513	1.447	1.316	1.108	0.770
280	-	-	-	1.929	1.751	1.723	1.714	1.634	1.611	1.550	1.536	1.470	1.345	1.137	0.783
285	-	-	-	1.952	1.773	1.744	1.736	1.657	1.633	1.574	1.560	1.494	1.373	1.167	0.796
290	-	-	-	1.975	1.794	1.766	1.758	1.679	1.655	1.598	1.583	1.517	1.401	1.196	0.809
295	-	-	-	1.998	1.816	1.788	1.779	1.701	1.678	1.623	1.607	1.541	1.429	1.225	0.844
300	-	-	-	2.021	1.837	1.810	1.801	1.724	1.700	1.647	1.631	1.564	1.458	1.255	0.895
305	-	-	-	2.043	1.859	1.832	1.823	1.746	1.722	1.671	1.655	1.588	1.486	1.284	0.945
310	-	-	-	2.066	1.880	1.853	1.845	1.769	1.744	1.695	1.679	1.612	1.514	1.314	0.996
315	-	-	-	2.089	1.902	1.875	1.866	1.791	1.766	1.719	1.703	1.636	1.540	1.343	1.046
320	-	-	-	2.112	1.924	1.897	1.888	1.814	1.789	1.743	1.727	1.660	1.562	1.372	1.097
325	-	-	-	2.135	1.945	1.919	1.910	1.836	1.811	1.767	1.750	1.684	1.585	1.402	1.147
330	-	-	-	2.158	1.967	1.940	1.932	1.858	1.833	1.791	1.774	1.707	1.607	1.431	1.198
335	-	-	-	2.181	1.988	1.962	1.954	1.881	1.855	1.815	1.798	1.731	1.630	1.460	1.248

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 7: 3-Sided Beams
Fire Resistance Period: IO5 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	-	1.984	1.682	1.223	0.796	0.791	0.785	0.706	0.690	0.634	0.628	0.581	0.523	0.387	0.228
55	-	-	1.732	1.238	0.826	0.820	0.814	0.755	0.734	0.679	0.672	0.623	0.559	0.419	0.257
60	-	-	1.783	1.253	0.855	0.848	0.843	0.804	0.778	0.724	0.716	0.665	0.595	0.451	0.286
65	-	-	1.833	1.268	0.885	0.877	0.871	0.836	0.819	0.769	0.761	0.706	0.632	0.484	0.315
70	-	-	1.883	1.283	0.914	0.906	0.900	0.863	0.846	0.814	0.805	0.748	0.668	0.516	0.344
75	-	-	1.934	1.298	0.943	0.934	0.929	0.889	0.873	0.839	0.834	0.789	0.705	0.549	0.373
80	-	-	1.984	1.314	0.973	0.963	0.957	0.916	0.900	0.865	0.859	0.824	0.741	0.581	0.402
85	-	-	2.034	1.329	1.002	0.992	0.986	0.943	0.926	0.890	0.885	0.847	0.778	0.613	0.431
90	-	-	2.085	1.344	1.031	1.020	1.015	0.970	0.953	0.916	0.910	0.871	0.814	0.646	0.460
95	-	-	2.135	1.359	1.061	1.049	1.043	0.997	0.980	0.941	0.935	0.895	0.837	0.678	0.489
100	-	-	2.185	1.374	1.090	1.078	1.072	1.024	1.007	0.967	0.960	0.919	0.860	0.710	0.518
105	-	-	-	1.389	1.120	1.107	1.101	1.051	1.033	0.992	0.986	0.943	0.883	0.743	0.547
110	-	-	-	1.404	1.149	1.135	1.129	1.078	1.060	1.017	1.011	0.967	0.906	0.775	0.576
115	-	-	-	1.419	1.178	1.164	1.158	1.105	1.087	1.043	1.036	0.991	0.929	0.808	0.605
120	-	-	-	1.434	1.208	1.193	1.187	1.132	1.114	1.068	1.061	1.015	0.952	0.831	0.634
125	-	-	-	1.449	1.237	1.221	1.216	1.159	1.140	1.094	1.087	1.039	0.975	0.852	0.663
130	-	-	-	1.465	1.267	1.250	1.244	1.186	1.167	1.119	1.112	1.063	0.998	0.874	0.692
135	-	-	-	1.480	1.296	1.279	1.273	1.213	1.194	1.145	1.137	1.086	1.021	0.895	0.721
140	-	-	-	1.495	1.325	1.307	1.302	1.240	1.221	1.170	1.162	1.110	1.044	0.916	0.750
145	-	-	-	1.510	1.355	1.336	1.330	1.267	1.247	1.195	1.188	1.134	1.067	0.938	0.779
150	-	-	-	1.525	1.384	1.365	1.359	1.294	1.274	1.221	1.213	1.158	1.090	0.959	0.808
155	-	-	-	2.075	1.413	1.393	1.388	1.321	1.301	1.246	1.238	1.182	1.113	0.980	0.833
160	-	-	-	-	1.443	1.422	1.416	1.348	1.328	1.272	1.263	1.206	1.136	1.002	0.857
165	-	-	-	-	1.472	1.451	1.445	1.375	1.354	1.297	1.289	1.23	1.159	1.023	0.88
170	-	-	-	-	1.502	1.479	1.474	1.402	1.381	1.323	1.314	1.254	1.182	1.044	0.904
175	-	-	-	-	1.531	1.508	1.502	1.429	1.408	1.348	1.339	1.278	1.205	1.066	0.928
180	-	-	-	-	1.584	1.539	1.531	1.456	1.435	1.373	1.364	1.302	1.228	1.087	0.952
185	-	-	-	-	1.636	1.581	1.569	1.482	1.461	1.399	1.390	1.325	1.251	1.108	0.975
190	-	-	-	-	1.689	1.623	1.607	1.509	1.488	1.424	1.415	1.349	1.274	1.130	0.999

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 7: 3-Sided Beams
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	-	-	-	-	1.742	1.665	1.644	1.535	1.515	1.450	1.440	1.373	1.297	1.151	1.023
200	-	-	-	-	1.794	1.707	1.682	1.557	1.539	1.475	1.465	1.397	1.320	1.173	1.047
205	-	-	-	-	1.847	1.749	1.720	1.578	1.560	1.500	1.491	1.421	1.343	1.194	1.070
210	-	-	-	-	1.900	1.791	1.758	1.600	1.580	1.526	1.516	1.445	1.366	1.215	1.094
215	-	-	-	-	1.952	1.833	1.795	1.622	1.600	1.549	1.540	1.469	1.389	1.237	1.118
220	-	-	-	-	2.005	1.875	1.833	1.643	1.621	1.571	1.561	1.493	1.412	1.258	1.142
225	-	-	-	-	2.058	1.917	1.871	1.665	1.641	1.593	1.583	1.517	1.434	1.279	1.165
230	-	-	-	-	2.110	1.959	1.909	1.686	1.662	1.615	1.605	1.540	1.457	1.301	1.189
235	-	-	-	-	2.163	2.001	1.946	1.708	1.682	1.637	1.627	1.562	1.480	1.322	1.213
240	-	-	-	-	2.216	2.043	1.984	1.729	1.702	1.659	1.649	1.585	1.503	1.343	1.237
245	-	-	-	-	-	2.085	2.022	1.751	1.723	1.681	1.670	1.607	1.526	1.365	1.260
250	-	-	-	-	-	2.127	2.060	1.773	1.743	1.703	1.692	1.630	1.549	1.386	1.284
255	-	-	-	-	-	2.169	2.097	1.794	1.764	1.725	1.714	1.652	1.571	1.407	1.308
260	-	-	-	-	-	2.211	2.135	1.816	1.784	1.747	1.736	1.675	1.593	1.429	1.332
265	-	-	-	-	-	-	2.173	1.837	1.804	1.768	1.758	1.697	1.615	1.45	1.355
270	-	-	-	-	-	-	2.211	1.859	1.825	1.79	1.779	1.719	1.637	1.471	1.379
275	-	-	-	-	-	-	-	1.88	1.845	1.812	1.801	1.742	1.659	1.493	1.403
280	-	-	-	-	-	-	-	1.902	1.866	1.834	1.823	1.764	1.681	1.514	1.427
285	-	-	-	-	-	-	-	1.924	1.886	1.856	1.845	1.787	1.703	1.537	1.45
290	-	-	-	-	-	-	-	1.945	1.906	1.878	1.866	1.809	1.725	1.564	1.474
295	-	-	-	-	-	-	-	1.967	1.927	1.9	1.888	1.832	1.747	1.592	1.498
300	-	-	-	-	-	-	-	1.988	1.947	1.922	1.910	1.854	1.768	1.619	1.522
305	-	-	-	-	-	-	-	2.010	1.968	1.944	1.932	1.876	1.790	1.647	1.550
310	-	-	-	-	-	-	-	2.031	1.988	1.966	1.954	1.899	1.812	1.675	1.583
315	-	-	-	-	-	-	-	2.053	2.008	1.988	1.975	1.921	1.834	1.702	1.615
320	-	-	-	-	-	-	-	2.075	2.029	2.010	1.997	1.944	1.856	1.730	1.647
325	-	-	-	-	-	-	-	2.096	2.049	2.032	2.019	1.966	1.878	1.758	1.680
330	-	-	-	-	-	-	-	2.118	2.070	2.054	2.041	1.988	1.900	1.785	1.712
335	-	-	-	-	-	-	-	2.139	2.090	2.076	2.062	2.011	1.922	1.813	1.745

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 8: 3-Sided Beams
Fire Resistance Period: 120 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	-	-	1.984	1.686	1.321	1.283	1.260	1.111	0.840	0.814	0.814	0.790	0.734	0.575	0.455
55	-	-	-	1.746	1.354	1.311	1.286	1.131	0.873	0.846	0.846	0.820	0.774	0.625	0.498
60	-	-	-	1.805	1.387	1.338	1.312	1.151	0.905	0.878	0.877	0.850	0.814	0.675	0.541
65	-	-	-	1.865	1.420	1.366	1.338	1.172	0.938	0.910	0.909	0.881	0.842	0.724	0.583
70	-	-	-	1.924	1.452	1.393	1.364	1.192	0.970	0.942	0.941	0.911	0.871	0.774	0.626
75	-	-	-	1.984	1.485	1.421	1.390	1.213	1.003	0.974	0.973	0.942	0.899	0.819	0.669
80	-	-	-	2.044	1.518	1.448	1.416	1.233	1.036	1.006	1.004	0.972	0.928	0.844	0.712
85	-	-	-	2.103	1.575	1.476	1.442	1.253	1.068	1.038	1.036	1.002	0.956	0.869	0.754
90	-	-	-	2.163	1.648	1.503	1.468	1.274	1.101	1.070	1.068	1.033	0.985	0.894	0.797
95	-	-	-	2.222	1.721	1.531	1.495	1.294	1.133	1.102	1.100	1.063	1.013	0.919	0.830
100	-	-	-	-	1.794	1.618	1.521	1.315	1.166	1.134	1.131	1.094	1.042	0.943	0.856
105	-	-	-	-	1.867	1.705	1.585	1.335	1.199	1.166	1.163	1.124	1.070	0.968	0.883
110	-	-	-	-	1.940	1.792	1.676	1.355	1.231	1.198	1.195	1.154	1.099	0.993	0.910
115	-	-	-	-	2.013	1.879	1.767	1.376	1.264	1.230	1.226	1.185	1.127	1.018	0.936
120	-	-	-	-	2.086	1.967	1.857	1.396	1.296	1.262	1.258	1.215	1.155	1.043	0.963
125	-	-	-	-	2.159	2.054	1.948	1.417	1.329	1.294	1.290	1.245	1.184	1.068	0.989
130	-	-	-	-	-	2.141	2.038	1.437	1.362	1.326	1.322	1.276	1.212	1.093	1.016
135	-	-	-	-	-	-	2.129	1.458	1.394	1.358	1.353	1.306	1.241	1.118	1.042
140	-	-	-	-	-	-	2.220	1.478	1.427	1.390	1.385	1.337	1.269	1.143	1.069
145	-	-	-	-	-	-	-	1.498	1.459	1.422	1.417	1.367	1.298	1.168	1.095
150	-	-	-	-	-	-	-	1.519	1.492	1.454	1.449	1.397	1.326	1.192	1.122
155	-	-	-	-	-	-	-	1.632	1.524	1.486	1.480	1.428	1.355	1.217	1.149
160	-	-	-	-	-	-	-	1.883	1.632	1.518	1.512	1.458	1.383	1.242	1.175
165	-	-	-	-	-	-	-	2.135	1.758	1.593	1.567	1.488	1.412	1.267	1.202
170	-	-	-	-	-	-	-	-	1.883	1.696	1.658	1.519	1.440	1.292	1.228
175	-	-	-	-	-	-	-	-	2.009	1.799	1.748	1.570	1.468	1.317	1.255
180	-	-	-	-	-	-	-	-	2.135	1.902	1.839	1.635	1.497	1.342	1.281
185	-	-	-	-	-	-	-	-	-	2.005	1.930	1.699	1.525	1.367	1.308
190	-	-	-	-	-	-	-	-	-	2.108	2.020	1.764	1.550	1.392	1.334

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 8: 3-Sided Beams
Fire Resistance Period: 120 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	544°C	550°C	553°C	576°C	583°C	600°C	603°C	620°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
195	-	-	-	-	-	-	-	-	-	2.211	2.111	1.829	1.575	1.416	1.361
200	-	-	-	-	-	-	-	-	-	-	2.201	1.893	1.599	1.441	1.388
205	-	-	-	-	-	-	-	-	-	-	-	1.958	1.624	1.466	1.414
210	-	-	-	-	-	-	-	-	-	-	-	2.023	1.648	1.491	1.441
215	-	-	-	-	-	-	-	-	-	-	-	2.088	1.672	1.516	1.467
220	-	-	-	-	-	-	-	-	-	-	-	2.152	1.697	1.540	1.494
225	-	-	-	-	-	-	-	-	-	-	-	2.217	1.721	1.564	1.520
230	-	-	-	-	-	-	-	-	-	-	-	-	1.745	1.587	1.546
235	-	-	-	-	-	-	-	-	-	-	-	-	1.770	1.610	1.571
240	-	-	-	-	-	-	-	-	-	-	-	-	1.794	1.634	1.596
245	-	-	-	-	-	-	-	-	-	-	-	-	1.818	1.657	1.621
250	-	-	-	-	-	-	-	-	-	-	-	-	1.843	1.680	1.645
255	-	-	-	-	-	-	-	-	-	-	-	-	1.867	1.704	1.670
260	-	-	-	-	-	-	-	-	-	-	-	-	1.891	1.727	1.695
265	-	-	-	-	-	-	-	-	-	-	-	-	1.916	1.750	1.720
270	-	-	-	-	-	-	-	-	-	-	-	-	1.940	1.774	1.745
275	-	-	-	-	-	-	-	-	-	-	-	-	1.965	1.797	1.770
280	-	-	-	-	-	-	-	-	-	-	-	-	1.989	1.821	1.795
285	-	-	-	-	-	-	-	-	-	-	-	-	2.013	1.844	1.820
290	-	-	-	-	-	-	-	-	-	-	-	-	2.038	1.867	1.845
295	-	-	-	-	-	-	-	-	-	-	-	-	2.062	1.891	1.870
300	-	-	-	-	-	-	-	-	-	-	-	-	2.086	1.914	1.894
305	-	-	-	-	-	-	-	-	-	-	-	-	2.111	1.937	1.919
310	-	-	-	-	-	-	-	-	-	-	-	-	2.135	1.961	1.944
315	-	-	-	-	-	-	-	-	-	-	-	-	2.159	1.984	1.969
320	-	-	-	-	-	-	-	-	-	-	-	-	2.184	2.007	1.994
325	-	-	-	-	-	-	-	-	-	-	-	-	2.208	2.031	2.019
330	-	-	-	-	-	-	-	-	-	-	-	-	-	2.054	2.044
335	-	-	-	-	-	-	-	-	-	-	-	-	-	2.077	2.069

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 9: 4-Sided Columns
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
115	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
120	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
125	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
130	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
135	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
140	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
145	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
150	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
155	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
160	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
165	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
170	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
175	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
180	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
185	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
190	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
195	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
200	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
205	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
210	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 9: 4-Sided Columns
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
220	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
225	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
230	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
235	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
240	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
245	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
250	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
255	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
260	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
265	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
270	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
275	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
280	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
285	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
290	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
295	0.201	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
300	0.213	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
305	0.225	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
310	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
315	0.250	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
320	0.262	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
325	0.274	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
330	0.286	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
335	0.299	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
340	0.311	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
345	0.323	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
350	0.335	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
355	0.347	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
360	0.360	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
365	0.372	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
370	0.384	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
375	0.396	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table IO: 4-Sided Columns
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.222	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.237	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.252	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.267	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.282	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.297	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.313	0.219	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.328	0.231	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.343	0.242	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
115	0.358	0.254	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
120	0.373	0.266	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
125	0.388	0.278	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
130	0.403	0.289	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
135	0.418	0.301	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
140	0.433	0.313	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
145	0.448	0.325	0.200	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
150	0.464	0.336	0.211	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
155	0.479	0.348	0.221	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
160	0.494	0.360	0.232	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
165	0.509	0.372	0.242	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
170	0.524	0.383	0.253	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
175	0.539	0.395	0.263	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
180	0.554	0.407	0.273	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
185	0.569	0.419	0.284	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
190	0.584	0.430	0.294	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
195	0.600	0.442	0.305	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
200	0.615	0.454	0.315	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
205	0.630	0.466	0.325	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
210	0.645	0.477	0.336	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table IO: 4-Sided Columns
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	0.660	0.489	0.346	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
220	0.675	0.501	0.357	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
225	0.690	0.513	0.367	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
230	0.705	0.524	0.378	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
235	0.720	0.536	0.388	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
240	0.735	0.548	0.398	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
245	0.751	0.560	0.409	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
250	0.766	0.571	0.419	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
255	0.781	0.583	0.430	0.205	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
260	0.796	0.595	0.440	0.216	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
265	0.811	0.607	0.450	0.227	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
270	0.840	0.618	0.461	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
275	0.870	0.630	0.471	0.249	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
280	0.899	0.642	0.482	0.260	0.205	0.198	0.198	0.198	0.198	0.198	0.198	0.198
285	0.929	0.654	0.492	0.271	0.215	0.201	0.198	0.198	0.198	0.198	0.198	0.198
290	0.958	0.665	0.503	0.282	0.225	0.210	0.198	0.198	0.198	0.198	0.198	0.198
295	0.988	0.677	0.513	0.293	0.234	0.220	0.203	0.198	0.198	0.198	0.198	0.198
300	1.017	0.689	0.523	0.303	0.244	0.229	0.211	0.198	0.198	0.198	0.198	0.198
305	1.047	0.701	0.534	0.314	0.254	0.238	0.220	0.198	0.198	0.198	0.198	0.198
310	1.076	0.712	0.544	0.325	0.263	0.247	0.229	0.203	0.198	0.198	0.198	0.198
315	1.106	0.724	0.555	0.336	0.273	0.257	0.238	0.211	0.198	0.198	0.198	0.198
320	1.135	0.736	0.565	0.347	0.282	0.266	0.247	0.220	0.198	0.198	0.198	0.198
325	1.165	0.748	0.576	0.358	0.292	0.275	0.256	0.228	0.198	0.198	0.198	0.198
330	1.194	0.759	0.586	0.369	0.302	0.284	0.265	0.237	0.198	0.198	0.198	0.198
335	1.224	0.771	0.596	0.380	0.311	0.294	0.274	0.245	0.198	0.198	0.198	0.198
340	1.253	0.783	0.607	0.391	0.321	0.303	0.283	0.254	0.198	0.198	0.198	0.198
345	1.283	0.795	0.617	0.402	0.331	0.312	0.292	0.262	0.204	0.198	0.198	0.198
350	1.312	0.806	0.628	0.413	0.340	0.322	0.301	0.270	0.211	0.198	0.198	0.198
355	1.342	0.826	0.638	0.424	0.350	0.331	0.310	0.279	0.218	0.198	0.198	0.198
360	1.371	0.852	0.648	0.435	0.360	0.340	0.319	0.287	0.226	0.198	0.198	0.198
365	1.401	0.878	0.659	0.446	0.369	0.349	0.327	0.296	0.233	0.198	0.198	0.198
370	1.430	0.904	0.669	0.457	0.379	0.359	0.336	0.304	0.240	0.198	0.198	0.198
375	1.460	0.929	0.680	0.468	0.389	0.368	0.345	0.313	0.247	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table II: 4-Sided Columns
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.415	0.218	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.436	0.236	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.457	0.254	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.477	0.273	0.221	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.498	0.291	0.234	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.518	0.309	0.248	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.539	0.327	0.262	0.203	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.560	0.345	0.276	0.214	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.580	0.363	0.290	0.226	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.601	0.381	0.303	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.621	0.399	0.317	0.249	0.203	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.642	0.417	0.331	0.261	0.214	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.663	0.435	0.345	0.272	0.225	0.208	0.198	0.198	0.198	0.198	0.198	0.198
115	0.683	0.453	0.359	0.284	0.236	0.218	0.198	0.198	0.198	0.198	0.198	0.198
120	0.704	0.471	0.372	0.296	0.247	0.229	0.201	0.198	0.198	0.198	0.198	0.198
125	0.724	0.489	0.386	0.307	0.257	0.240	0.212	0.198	0.198	0.198	0.198	0.198
130	0.745	0.507	0.400	0.319	0.268	0.251	0.223	0.200	0.198	0.198	0.198	0.198
135	0.766	0.526	0.414	0.331	0.279	0.262	0.234	0.211	0.198	0.198	0.198	0.198
140	0.786	0.544	0.428	0.342	0.290	0.272	0.244	0.221	0.198	0.198	0.198	0.198
145	0.807	0.562	0.441	0.354	0.301	0.283	0.255	0.232	0.198	0.198	0.198	0.198
150	0.845	0.580	0.455	0.365	0.312	0.294	0.266	0.242	0.198	0.198	0.198	0.198
155	0.887	0.598	0.469	0.377	0.323	0.305	0.277	0.253	0.198	0.198	0.198	0.198
160	0.929	0.616	0.483	0.389	0.334	0.315	0.288	0.263	0.198	0.198	0.198	0.198
165	0.971	0.634	0.497	0.400	0.345	0.326	0.298	0.274	0.198	0.198	0.198	0.198
170	1.013	0.652	0.510	0.412	0.356	0.337	0.309	0.284	0.202	0.198	0.198	0.198
175	1.055	0.670	0.524	0.423	0.366	0.348	0.320	0.295	0.212	0.198	0.198	0.198
180	1.097	0.688	0.538	0.435	0.377	0.359	0.331	0.305	0.222	0.198	0.198	0.198
185	1.139	0.706	0.552	0.447	0.388	0.369	0.342	0.316	0.232	0.198	0.198	0.198
190	1.181	0.724	0.565	0.458	0.399	0.380	0.352	0.326	0.242	0.198	0.198	0.198
195	1.223	0.742	0.579	0.470	0.410	0.391	0.363	0.337	0.252	0.198	0.198	0.198
200	1.265	0.760	0.593	0.481	0.421	0.402	0.374	0.347	0.262	0.198	0.198	0.198
205	1.307	0.778	0.607	0.493	0.432	0.412	0.385	0.358	0.272	0.198	0.198	0.198
210	1.350	0.797	0.621	0.505	0.443	0.423	0.396	0.368	0.282	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table II: 4-Sided Columns
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	1.392	0.819	0.634	0.516	0.454	0.434	0.407	0.379	0.292	0.198	0.198	0.198
220	1.434	0.856	0.648	0.528	0.464	0.445	0.417	0.389	0.303	0.198	0.198	0.198
225	1.476	0.894	0.662	0.539	0.475	0.455	0.428	0.400	0.313	0.198	0.198	0.198
230	1.509	0.931	0.676	0.551	0.486	0.466	0.439	0.410	0.323	0.204	0.198	0.198
235	1.527	0.969	0.690	0.563	0.497	0.477	0.450	0.421	0.333	0.213	0.198	0.198
240	1.546	1.006	0.703	0.574	0.508	0.488	0.461	0.431	0.343	0.223	0.198	0.198
245	1.565	1.044	0.717	0.586	0.519	0.499	0.471	0.442	0.353	0.232	0.198	0.198
250	1.584	1.081	0.731	0.597	0.530	0.509	0.482	0.452	0.363	0.242	0.198	0.198
255	1.602	1.119	0.745	0.609	0.541	0.520	0.493	0.463	0.373	0.251	0.198	0.198
260	1.621	1.156	0.759	0.621	0.552	0.531	0.504	0.473	0.383	0.261	0.198	0.198
265	1.640	1.194	0.772	0.632	0.563	0.542	0.515	0.484	0.393	0.271	0.198	0.198
270	1.659	1.231	0.786	0.644	0.573	0.552	0.526	0.494	0.403	0.280	0.198	0.198
275	1.677	1.269	0.800	0.655	0.584	0.563	0.536	0.505	0.414	0.290	0.202	0.198
280	1.696	1.306	0.818	0.667	0.595	0.574	0.547	0.515	0.424	0.299	0.210	0.198
285	1.715	1.344	0.854	0.679	0.606	0.585	0.558	0.526	0.434	0.309	0.218	0.198
290	1.734	1.381	0.890	0.690	0.617	0.596	0.569	0.536	0.444	0.319	0.226	0.198
295	1.752	1.419	0.926	0.702	0.628	0.606	0.580	0.546	0.454	0.328	0.234	0.198
300	1.771	1.456	0.962	0.714	0.639	0.617	0.590	0.557	0.464	0.338	0.242	0.198
305	1.790	1.494	0.998	0.725	0.650	0.628	0.601	0.567	0.474	0.347	0.250	0.198
310	1.809	1.516	1.034	0.737	0.661	0.639	0.612	0.578	0.484	0.357	0.258	0.198
315	1.827	1.536	1.070	0.748	0.672	0.649	0.623	0.588	0.494	0.366	0.266	0.198
320	1.846	1.555	1.106	0.760	0.682	0.660	0.634	0.599	0.504	0.376	0.273	0.198
325	1.865	1.574	1.142	0.772	0.693	0.671	0.644	0.609	0.514	0.386	0.281	0.198
330	1.884	1.593	1.178	0.783	0.704	0.682	0.655	0.620	0.524	0.395	0.289	0.204
335	1.902	1.612	1.214	0.795	0.715	0.692	0.666	0.630	0.535	0.405	0.297	0.211
340	1.921	1.631	1.249	0.806	0.726	0.703	0.677	0.641	0.545	0.414	0.305	0.217
345	1.940	1.651	1.285	0.835	0.737	0.714	0.688	0.651	0.555	0.424	0.313	0.224
350	1.959	1.670	1.321	0.874	0.748	0.725	0.699	0.662	0.565	0.434	0.321	0.230
355	1.977	1.689	1.357	0.914	0.759	0.736	0.709	0.672	0.575	0.443	0.329	0.236
360	1.996	1.708	1.393	0.954	0.770	0.746	0.720	0.683	0.585	0.453	0.337	0.243
365	2.078	1.727	1.429	0.993	0.780	0.757	0.731	0.693	0.595	0.462	0.345	0.249
370	2.159	1.747	1.465	1.033	0.791	0.768	0.742	0.704	0.605	0.472	0.353	0.255
375	2.241	1.766	1.501	1.073	0.802	0.779	0.753	0.714	0.615	0.481	0.361	0.262

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I2: 4-Sided Columns
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.730	0.540	0.362	0.217	0.200	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.811	0.568	0.380	0.233	0.214	0.207	0.201	0.198	0.198	0.198	0.198	0.198
60	0.897	0.596	0.398	0.250	0.229	0.221	0.214	0.203	0.198	0.198	0.198	0.198
65	0.984	0.625	0.416	0.267	0.243	0.235	0.227	0.215	0.198	0.198	0.198	0.198
70	1.070	0.653	0.433	0.283	0.257	0.248	0.240	0.228	0.198	0.198	0.198	0.198
75	1.156	0.681	0.451	0.300	0.272	0.262	0.253	0.240	0.203	0.198	0.198	0.198
80	1.242	0.709	0.469	0.317	0.286	0.276	0.266	0.252	0.215	0.198	0.198	0.198
85	1.329	0.738	0.487	0.333	0.300	0.289	0.279	0.265	0.226	0.198	0.198	0.198
90	1.415	0.766	0.505	0.350	0.315	0.303	0.292	0.277	0.238	0.198	0.198	0.198
95	1.501	0.794	0.522	0.367	0.329	0.317	0.305	0.289	0.249	0.198	0.198	0.198
100	1.532	0.825	0.540	0.384	0.343	0.331	0.318	0.302	0.261	0.198	0.198	0.198
105	1.562	0.858	0.558	0.400	0.358	0.344	0.331	0.314	0.272	0.198	0.198	0.198
110	1.593	0.892	0.576	0.417	0.372	0.358	0.344	0.326	0.283	0.203	0.198	0.198
115	1.623	0.926	0.594	0.434	0.386	0.372	0.357	0.338	0.295	0.214	0.198	0.198
120	1.654	0.960	0.612	0.450	0.401	0.385	0.370	0.351	0.306	0.225	0.198	0.198
125	1.684	0.994	0.629	0.467	0.415	0.399	0.383	0.363	0.318	0.236	0.198	0.198
130	1.715	1.027	0.647	0.484	0.429	0.413	0.396	0.375	0.329	0.247	0.198	0.198
135	1.745	1.061	0.665	0.500	0.444	0.427	0.409	0.388	0.340	0.257	0.198	0.198
140	1.776	1.095	0.683	0.517	0.458	0.440	0.423	0.400	0.352	0.268	0.198	0.198
145	1.807	1.129	0.701	0.534	0.472	0.454	0.436	0.412	0.363	0.279	0.198	0.198
150	1.837	1.163	0.718	0.551	0.487	0.468	0.449	0.425	0.375	0.290	0.198	0.198
155	1.868	1.197	0.736	0.567	0.501	0.482	0.462	0.437	0.386	0.301	0.208	0.198
160	1.898	1.230	0.754	0.584	0.515	0.495	0.475	0.449	0.398	0.312	0.218	0.198
165	1.929	1.264	0.772	0.601	0.530	0.509	0.488	0.462	0.409	0.323	0.228	0.198
170	1.959	1.298	0.790	0.617	0.544	0.523	0.501	0.474	0.420	0.334	0.238	0.198
175	1.990	1.332	0.807	0.634	0.558	0.536	0.514	0.486	0.432	0.345	0.248	0.198
180	2.020	1.366	0.849	0.651	0.573	0.550	0.527	0.498	0.443	0.356	0.258	0.198
185	2.051	1.400	0.896	0.667	0.587	0.564	0.540	0.511	0.455	0.366	0.268	0.198
190	2.082	1.433	0.943	0.684	0.602	0.578	0.553	0.523	0.466	0.377	0.278	0.198
195	2.112	1.467	0.991	0.701	0.616	0.591	0.566	0.535	0.478	0.388	0.288	0.204
200	2.143	1.501	1.038	0.718	0.630	0.605	0.579	0.548	0.489	0.399	0.299	0.213
205	2.173	1.529	1.085	0.734	0.645	0.619	0.592	0.560	0.500	0.410	0.309	0.222
210	2.204	1.558	1.132	0.751	0.659	0.633	0.605	0.572	0.512	0.421	0.319	0.231

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table I2: 4-Sided Columns
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	2.234	1.586	1.180	0.768	0.673	0.646	0.618	0.585	0.523	0.432	0.329	0.240
220	2.265	1.615	1.227	0.784	0.688	0.660	0.631	0.597	0.535	0.443	0.339	0.249
225	2.296	1.643	1.274	0.801	0.702	0.674	0.644	0.609	0.546	0.454	0.349	0.258
230	2.326	1.672	1.321	0.829	0.716	0.687	0.657	0.621	0.557	0.464	0.359	0.267
235	2.357	1.700	1.369	0.875	0.731	0.701	0.670	0.634	0.569	0.475	0.369	0.276
240	2.387	1.729	1.416	0.921	0.745	0.715	0.683	0.646	0.580	0.486	0.379	0.285
245	2.418	1.757	1.463	0.967	0.759	0.729	0.696	0.658	0.592	0.497	0.389	0.294
250	2.448	1.785	1.506	1.013	0.774	0.742	0.709	0.671	0.603	0.508	0.399	0.303
255	2.479	1.814	1.529	1.059	0.788	0.756	0.722	0.683	0.615	0.519	0.409	0.312
260	2.509	1.842	1.551	1.105	0.802	0.770	0.735	0.695	0.626	0.530	0.420	0.321
265	2.540	1.871	1.574	1.151	0.829	0.784	0.748	0.708	0.637	0.541	0.430	0.330
270	2.571	1.899	1.597	1.197	0.875	0.797	0.761	0.720	0.649	0.552	0.440	0.339
275	2.601	1.928	1.620	1.243	0.920	0.811	0.774	0.732	0.660	0.563	0.450	0.348
280	2.632	1.956	1.643	1.289	0.965	0.857	0.788	0.745	0.672	0.573	0.460	0.357
285	2.662	1.985	1.666	1.335	1.011	0.903	0.801	0.757	0.683	0.584	0.470	0.366
290	2.693	2.021	1.689	1.381	1.056	0.949	0.821	0.769	0.695	0.595	0.480	0.376
295	2.723	2.062	1.712	1.427	1.102	0.995	0.870	0.781	0.706	0.606	0.490	0.385
300	2.754	2.104	1.735	1.473	1.147	1.041	0.919	0.794	0.717	0.617	0.500	0.394
305	2.785	2.145	1.758	1.512	1.192	1.087	0.969	0.806	0.729	0.628	0.510	0.403
310	-	2.187	1.781	1.540	1.238	1.133	1.018	0.843	0.740	0.639	0.520	0.412
315	-	2.228	1.804	1.568	1.283	1.179	1.067	0.897	0.752	0.650	0.531	0.421
320	-	2.270	1.826	1.596	1.329	1.225	1.117	0.951	0.763	0.661	0.541	0.430
325	-	2.311	1.849	1.623	1.374	1.271	1.166	1.005	0.774	0.672	0.551	0.439
330	-	2.352	1.872	1.651	1.419	1.317	1.215	1.059	0.786	0.682	0.561	0.448
335	-	2.394	1.895	1.679	1.465	1.363	1.264	1.113	0.797	0.693	0.571	0.457
340	-	2.435	1.918	1.707	1.508	1.409	1.314	1.167	0.809	0.704	0.581	0.466
345	-	2.477	1.941	1.735	1.542	1.455	1.363	1.221	0.855	0.715	0.591	0.475
350	-	2.518	1.964	1.762	1.576	1.501	1.412	1.275	0.910	0.726	0.601	0.484
355	-	2.560	1.987	1.790	1.609	1.537	1.462	1.329	0.964	0.737	0.611	0.493
360	-	2.601	2.038	1.818	1.643	1.574	1.508	1.382	1.019	0.748	0.621	0.502
365	-	2.642	2.108	1.846	1.677	1.610	1.544	1.436	1.074	0.759	0.631	0.511
370	-	2.684	2.178	1.874	1.711	1.647	1.580	1.490	1.129	0.770	0.642	0.520
375	-	2.725	2.247	1.901	1.745	1.683	1.616	1.531	1.183	0.780	0.652	0.529

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I3: 4-Sided Columns
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.555	0.852	0.643	0.484	0.396	0.374	0.345	0.240	0.218	0.198	0.198	0.198
55	1.609	0.953	0.678	0.503	0.413	0.391	0.362	0.259	0.234	0.198	0.198	0.198
60	1.662	1.055	0.713	0.522	0.430	0.408	0.379	0.278	0.249	0.207	0.198	0.198
65	1.716	1.156	0.748	0.540	0.446	0.425	0.395	0.296	0.265	0.220	0.198	0.198
70	1.770	1.257	0.783	0.559	0.463	0.441	0.412	0.315	0.281	0.232	0.198	0.198
75	1.824	1.359	0.818	0.577	0.480	0.458	0.428	0.334	0.296	0.245	0.198	0.198
80	1.878	1.460	0.853	0.596	0.497	0.475	0.445	0.353	0.312	0.258	0.208	0.198
85	1.931	1.518	0.888	0.614	0.513	0.492	0.461	0.371	0.328	0.270	0.220	0.198
90	1.985	1.546	0.924	0.633	0.530	0.509	0.478	0.390	0.344	0.283	0.231	0.198
95	2.021	1.574	0.959	0.651	0.547	0.525	0.494	0.409	0.359	0.295	0.242	0.198
100	2.052	1.602	0.994	0.670	0.564	0.542	0.511	0.428	0.375	0.308	0.254	0.198
105	2.084	1.630	1.029	0.689	0.580	0.559	0.527	0.447	0.391	0.320	0.265	0.198
110	2.115	1.659	1.064	0.707	0.597	0.576	0.544	0.465	0.406	0.333	0.276	0.206
115	2.146	1.687	1.100	0.726	0.614	0.593	0.560	0.484	0.422	0.345	0.288	0.217
120	2.178	1.715	1.135	0.744	0.630	0.609	0.577	0.503	0.438	0.358	0.299	0.227
125	2.209	1.743	1.170	0.763	0.647	0.626	0.593	0.522	0.453	0.370	0.310	0.238
130	2.241	1.771	1.205	0.781	0.664	0.643	0.610	0.541	0.469	0.383	0.322	0.248
135	2.272	1.799	1.240	0.800	0.681	0.660	0.626	0.559	0.485	0.395	0.333	0.259
140	2.303	1.827	1.276	0.829	0.697	0.677	0.643	0.578	0.500	0.408	0.344	0.270
145	2.335	1.855	1.311	0.874	0.714	0.693	0.659	0.597	0.516	0.420	0.356	0.280
150	2.366	1.884	1.346	0.919	0.731	0.710	0.676	0.616	0.532	0.433	0.367	0.291
155	2.397	1.912	1.381	0.963	0.747	0.727	0.692	0.634	0.547	0.445	0.378	0.301
160	2.429	1.940	1.417	1.008	0.764	0.744	0.709	0.653	0.563	0.458	0.390	0.312
165	2.460	1.968	1.452	1.053	0.781	0.761	0.725	0.672	0.579	0.470	0.401	0.322
170	2.491	1.996	1.487	1.098	0.798	0.777	0.742	0.691	0.595	0.483	0.412	0.333
175	2.523	2.035	1.526	1.143	0.822	0.794	0.758	0.710	0.610	0.495	0.424	0.344
180	2.554	2.075	1.567	1.187	0.875	0.811	0.775	0.728	0.626	0.508	0.435	0.354
185	2.585	2.114	1.608	1.232	0.928	0.863	0.791	0.747	0.642	0.520	0.446	0.365
190	2.617	2.154	1.650	1.277	0.981	0.916	0.808	0.766	0.657	0.533	0.458	0.375
195	2.648	2.193	1.691	1.322	1.034	0.968	0.853	0.785	0.673	0.546	0.469	0.386
200	2.679	2.233	1.732	1.367	1.087	1.020	0.907	0.803	0.689	0.558	0.480	0.396
205	2.711	2.272	1.773	1.411	1.140	1.072	0.960	0.842	0.704	0.571	0.492	0.407
210	2.742	2.311	1.815	1.456	1.193	1.125	1.013	0.895	0.720	0.583	0.503	0.418

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I3: 4-Sided Columns
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	2.773	2.351	1.856	1.501	1.246	1.177	1.066	0.947	0.736	0.596	0.514	0.428
220	2.805	2.390	1.897	1.534	1.299	1.229	1.119	0.999	0.751	0.608	0.526	0.439
225	-	2.430	1.938	1.568	1.352	1.281	1.172	1.051	0.767	0.621	0.537	0.449
230	-	2.469	1.980	1.601	1.405	1.334	1.225	1.104	0.783	0.633	0.548	0.460
235	-	2.509	2.019	1.635	1.459	1.386	1.278	1.156	0.798	0.646	0.559	0.471
240	-	2.548	2.056	1.668	1.507	1.438	1.331	1.208	0.822	0.658	0.571	0.481
245	-	2.588	2.094	1.702	1.540	1.491	1.384	1.261	0.876	0.671	0.582	0.492
250	-	2.627	2.131	1.735	1.572	1.526	1.437	1.313	0.930	0.683	0.593	0.502
255	-	2.666	2.169	1.769	1.604	1.558	1.490	1.365	0.984	0.696	0.605	0.513
260	-	2.706	2.207	1.802	1.636	1.590	1.526	1.417	1.037	0.708	0.616	0.523
265	-	2.745	2.244	1.835	1.668	1.622	1.557	1.470	1.091	0.721	0.627	0.534
270	-	2.785	2.282	1.869	1.700	1.653	1.589	1.514	1.145	0.733	0.639	0.545
275	-	-	2.319	1.902	1.732	1.685	1.620	1.547	1.199	0.746	0.650	0.555
280	-	-	2.357	1.936	1.765	1.717	1.651	1.579	1.253	0.758	0.661	0.566
285	-	-	2.395	1.969	1.797	1.749	1.683	1.612	1.307	0.771	0.673	0.576
290	-	-	2.432	2.004	1.829	1.780	1.714	1.644	1.361	0.783	0.684	0.587
295	-	-	2.470	2.045	1.861	1.812	1.745	1.677	1.415	0.796	0.695	0.597
300	-	-	2.508	2.086	1.893	1.844	1.777	1.709	1.469	0.808	0.707	0.608
305	-	-	2.545	2.126	1.925	1.875	1.808	1.742	1.517	0.860	0.718	0.619
310	-	-	2.583	2.167	1.957	1.907	1.839	1.775	1.557	0.922	0.729	0.629
315	-	-	2.620	2.208	1.990	1.939	1.871	1.807	1.597	0.984	0.741	0.640
320	-	-	2.658	2.249	2.031	1.971	1.902	1.840	1.637	1.045	0.752	0.650
325	-	-	2.696	2.289	2.075	2.005	1.933	1.872	1.677	1.107	0.763	0.661
330	-	-	2.733	2.330	2.118	2.049	1.965	1.905	1.717	1.168	0.775	0.671
335	-	-	2.771	2.371	2.162	2.094	1.996	1.937	1.756	1.230	0.786	0.682
340	-	-	-	2.412	2.206	2.138	2.041	1.970	1.796	1.292	0.797	0.693
345	-	-	-	2.452	2.249	2.183	2.087	2.005	1.836	1.353	0.809	0.703
350	-	-	-	2.493	2.293	2.227	2.132	2.047	1.876	1.415	0.859	0.714
355	-	-	-	2.534	2.337	2.272	2.177	2.090	1.916	1.476	0.918	0.724
360	-	-	-	2.575	2.380	2.316	2.222	2.133	1.956	1.536	0.978	0.735
365	-	-	-	2.615	2.424	2.361	2.268	2.176	1.996	1.593	1.037	0.745
370	-	-	-	2.656	2.468	2.405	2.313	2.219	2.032	1.651	1.097	0.756
375	-	-	-	2.697	2.511	2.449	2.358	2.262	2.068	1.708	1.156	0.767

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I4: 4-Sided Columns
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.976	1.540	0.978	0.739	0.644	0.616	0.585	0.547	0.442	0.236	0.199	0.198
55	2.025	1.605	1.097	0.775	0.675	0.645	0.610	0.569	0.458	0.256	0.214	0.198
60	2.074	1.670	1.215	0.811	0.706	0.674	0.635	0.591	0.474	0.276	0.228	0.199
65	2.123	1.735	1.334	0.866	0.737	0.702	0.660	0.614	0.490	0.296	0.243	0.211
70	2.172	1.801	1.453	0.921	0.768	0.731	0.685	0.636	0.506	0.316	0.258	0.223
75	2.221	1.866	1.518	0.975	0.799	0.759	0.710	0.659	0.522	0.337	0.272	0.235
80	2.270	1.931	1.546	1.030	0.830	0.788	0.736	0.681	0.538	0.357	0.287	0.247
85	2.319	1.996	1.574	1.085	0.863	0.818	0.761	0.703	0.554	0.377	0.302	0.259
90	2.368	2.025	1.602	1.140	0.895	0.850	0.786	0.726	0.570	0.397	0.317	0.271
95	2.417	2.055	1.630	1.194	0.927	0.883	0.811	0.748	0.586	0.417	0.331	0.283
100	2.465	2.084	1.659	1.249	0.959	0.916	0.846	0.771	0.602	0.437	0.346	0.295
105	2.514	2.114	1.687	1.304	0.992	0.949	0.880	0.793	0.618	0.457	0.361	0.307
110	2.563	2.143	1.715	1.359	1.024	0.982	0.915	0.818	0.635	0.477	0.375	0.319
115	2.612	2.173	1.743	1.413	1.056	1.015	0.949	0.855	0.651	0.497	0.390	0.331
120	2.661	2.202	1.771	1.468	1.088	1.048	0.984	0.892	0.667	0.517	0.405	0.343
125	2.710	2.232	1.799	1.512	1.121	1.080	1.018	0.928	0.683	0.538	0.420	0.355
130	2.759	2.261	1.827	1.541	1.153	1.113	1.053	0.965	0.699	0.558	0.434	0.367
135	-	2.291	1.855	1.569	1.185	1.146	1.087	1.002	0.715	0.578	0.449	0.379
140	-	2.320	1.884	1.598	1.217	1.179	1.122	1.039	0.731	0.598	0.464	0.391
145	-	2.349	1.912	1.626	1.250	1.212	1.156	1.075	0.747	0.618	0.478	0.403
150	-	2.379	1.940	1.655	1.282	1.245	1.191	1.112	0.763	0.638	0.493	0.415
155	-	2.408	1.968	1.683	1.314	1.278	1.225	1.149	0.779	0.658	0.508	0.427
160	-	2.438	1.996	1.712	1.346	1.310	1.260	1.185	0.795	0.678	0.523	0.439
165	-	2.467	2.043	1.740	1.378	1.343	1.294	1.222	0.811	0.698	0.537	0.451
170	-	2.497	2.090	1.768	1.411	1.376	1.329	1.259	0.866	0.719	0.552	0.463
175	-	2.526	2.137	1.797	1.443	1.409	1.363	1.295	0.921	0.739	0.567	0.475
180	-	2.556	2.184	1.825	1.475	1.442	1.398	1.332	0.975	0.759	0.581	0.487
185	-	2.585	2.231	1.854	1.510	1.475	1.432	1.369	1.030	0.779	0.596	0.499
190	-	2.615	2.278	1.882	1.556	1.510	1.467	1.406	1.085	0.799	0.611	0.511
195	-	2.644	2.325	1.911	1.602	1.552	1.501	1.442	1.140	0.830	0.626	0.523
200	-	2.674	2.372	1.939	1.648	1.595	1.543	1.479	1.194	0.876	0.640	0.535
205	-	2.703	2.419	1.968	1.694	1.638	1.585	1.517	1.249	0.923	0.655	0.547
210	-	2.732	2.466	1.996	1.739	1.680	1.627	1.558	1.304	0.970	0.670	0.559

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SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Smart Protection

**Table I4: 4-Sided Columns
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	2.762	2.513	2.045	1.785	1.723	1.669	1.598	1.359	1.016	0.684	0.571
220	-	2.791	2.560	2.094	1.831	1.766	1.711	1.639	1.413	1.063	0.699	0.583
225	-	-	2.607	2.143	1.877	1.808	1.753	1.680	1.468	1.109	0.714	0.595
230	-	-	2.654	2.192	1.923	1.851	1.795	1.720	1.517	1.156	0.729	0.607
235	-	-	2.701	2.241	1.969	1.894	1.837	1.761	1.558	1.203	0.743	0.619
240	-	-	2.748	2.289	2.014	1.936	1.879	1.801	1.598	1.249	0.758	0.631
245	-	-	2.795	2.338	2.059	1.979	1.920	1.842	1.639	1.296	0.773	0.643
250	-	-	-	2.387	2.105	2.023	1.962	1.882	1.680	1.342	0.787	0.655
255	-	-	-	2.436	2.150	2.067	2.004	1.923	1.720	1.389	0.802	0.667
260	-	-	-	2.485	2.195	2.112	2.043	1.964	1.761	1.436	0.834	0.679
265	-	-	-	2.534	2.241	2.156	2.081	2.003	1.801	1.482	0.892	0.691
270	-	-	-	2.583	2.286	2.200	2.120	2.040	1.842	1.527	0.949	0.703
275	-	-	-	2.632	2.331	2.245	2.159	2.076	1.882	1.570	1.007	0.715
280	-	-	-	2.681	2.376	2.289	2.198	2.113	1.923	1.614	1.064	0.727
285	-	-	-	2.730	2.422	2.334	2.237	2.149	1.964	1.657	1.122	0.739
290	-	-	-	2.778	2.467	2.378	2.275	2.186	2.003	1.701	1.179	0.751
295	-	-	-	-	2.512	2.423	2.314	2.222	2.040	1.744	1.237	0.763
300	-	-	-	-	2.557	2.467	2.353	2.259	2.076	1.788	1.294	0.775
305	-	-	-	-	2.603	2.512	2.392	2.295	2.113	1.831	1.352	0.787
310	-	-	-	-	2.648	2.556	2.431	2.332	2.149	1.874	1.409	0.799
315	-	-	-	-	2.693	2.601	2.469	2.368	2.186	1.918	1.467	0.811
320	-	-	-	-	2.739	2.645	2.508	2.405	2.222	1.961	1.526	0.870
325	-	-	-	-	2.784	2.689	2.547	2.441	2.259	2.003	1.590	0.930
330	-	-	-	-	-	2.734	2.586	2.478	2.295	2.039	1.653	0.989
335	-	-	-	-	-	2.778	2.625	2.514	2.332	2.074	1.717	1.049
340	-	-	-	-	-	-	2.664	2.551	2.368	2.109	1.780	1.108
345	-	-	-	-	-	-	2.702	2.587	2.405	2.145	1.844	1.168
350	-	-	-	-	-	-	2.741	2.624	2.441	2.180	1.907	1.227
355	-	-	-	-	-	-	2.780	2.660	2.478	2.216	1.971	1.287
360	-	-	-	-	-	-	-	2.697	2.514	2.251	2.015	1.346
365	-	-	-	-	-	-	-	2.733	2.551	2.287	2.046	1.406
370	-	-	-	-	-	-	-	2.770	2.587	2.322	2.078	1.465
375	-	-	-	-	-	-	-	-	2.624	2.357	2.109	1.548

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table I5: 4-Sided Columns
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	2.199	1.970	1.559	1.143	0.899	0.844	0.797	0.752	0.662	0.501	0.258	0.198
55	2.274	2.013	1.632	1.255	0.988	0.926	0.869	0.811	0.693	0.533	0.302	0.198
60	2.349	2.056	1.705	1.367	1.076	1.008	0.940	0.870	0.724	0.565	0.347	0.198
65	2.425	2.099	1.778	1.479	1.165	1.090	1.012	0.930	0.755	0.596	0.392	0.198
70	2.500	2.142	1.850	1.531	1.253	1.172	1.084	0.989	0.786	0.628	0.436	0.198
75	2.575	2.185	1.923	1.567	1.342	1.255	1.156	1.049	0.818	0.659	0.481	0.198
80	2.651	2.228	1.996	1.604	1.430	1.337	1.228	1.108	0.851	0.691	0.526	0.207
85	2.726	2.271	2.025	1.641	1.507	1.419	1.300	1.168	0.884	0.723	0.570	0.262
90	2.802	2.313	2.054	1.678	1.535	1.501	1.372	1.227	0.917	0.754	0.615	0.317
95	-	2.356	2.082	1.715	1.563	1.528	1.444	1.287	0.950	0.786	0.659	0.372
100	-	2.399	2.111	1.752	1.591	1.555	1.506	1.346	0.984	0.817	0.704	0.427
105	-	2.442	2.140	1.789	1.619	1.582	1.533	1.406	1.017	0.849	0.749	0.482
110	-	2.485	2.169	1.826	1.647	1.609	1.559	1.465	1.050	0.880	0.793	0.536
115	-	2.528	2.197	1.863	1.675	1.636	1.585	1.511	1.083	0.911	0.827	0.591
120	-	2.571	2.226	1.900	1.704	1.662	1.612	1.537	1.116	0.943	0.853	0.646
125	-	2.614	2.255	1.937	1.732	1.689	1.638	1.563	1.149	0.974	0.879	0.701
130	-	2.657	2.284	1.974	1.760	1.716	1.664	1.589	1.183	1.005	0.905	0.756
135	-	2.699	2.312	2.011	1.788	1.743	1.691	1.614	1.216	1.037	0.931	0.811
140	-	2.742	2.341	2.049	1.816	1.770	1.717	1.640	1.249	1.068	0.957	0.833
145	-	2.785	2.370	2.086	1.844	1.797	1.743	1.666	1.282	1.100	0.984	0.855
150	-	-	2.399	2.124	1.872	1.824	1.770	1.692	1.315	1.131	1.010	0.877
155	-	-	2.427	2.162	1.900	1.851	1.796	1.718	1.348	1.162	1.036	0.899
160	-	-	2.456	2.199	1.929	1.878	1.822	1.743	1.382	1.194	1.062	0.921
165	-	-	2.485	2.237	1.957	1.905	1.849	1.769	1.415	1.225	1.088	0.943
170	-	-	2.514	2.274	1.985	1.931	1.875	1.795	1.448	1.256	1.114	0.965
175	-	-	2.543	2.312	2.026	1.958	1.901	1.821	1.481	1.288	1.140	0.987
180	-	-	2.571	2.350	2.076	1.985	1.928	1.846	1.518	1.319	1.166	1.009
185	-	-	2.600	2.387	2.126	2.029	1.954	1.872	1.560	1.350	1.193	1.031
190	-	-	2.629	2.425	2.176	2.083	1.980	1.898	1.602	1.382	1.219	1.053
195	-	-	2.658	2.462	2.226	2.137	2.018	1.924	1.644	1.413	1.245	1.075
200	-	-	2.686	2.500	2.275	2.192	2.074	1.950	1.686	1.445	1.271	1.097
205	-	-	2.715	2.538	2.325	2.246	2.129	1.975	1.728	1.476	1.297	1.119
210	-	-	2.744	2.575	2.375	2.300	2.185	2.009	1.769	1.510	1.323	1.141

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I5: 4-Sided Columns
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	2.773	2.613	2.425	2.355	2.241	2.071	1.811	1.553	1.349	1.163
220	-	-	2.801	2.651	2.475	2.409	2.296	2.134	1.853	1.597	1.376	1.185
225	-	-	-	2.688	2.525	2.463	2.352	2.197	1.895	1.640	1.402	1.207
230	-	-	-	2.726	2.575	2.518	2.407	2.259	1.937	1.683	1.428	1.229
235	-	-	-	2.763	2.625	2.572	2.463	2.322	1.979	1.727	1.454	1.250
240	-	-	-	2.801	2.675	2.626	2.518	2.385	2.029	1.770	1.480	1.272
245	-	-	-	-	2.725	2.681	2.574	2.447	2.083	1.814	1.510	1.294
250	-	-	-	-	2.774	2.735	2.629	2.510	2.137	1.857	1.557	1.316
255	-	-	-	-	-	2.789	2.685	2.573	2.192	1.900	1.604	1.338
260	-	-	-	-	-	-	2.741	2.635	2.246	1.944	1.650	1.360
265	-	-	-	-	-	-	2.796	2.698	2.300	1.987	1.697	1.382
270	-	-	-	-	-	-	-	2.761	2.355	2.026	1.744	1.404
275	-	-	-	-	-	-	-	-	2.409	2.063	1.791	1.426
280	-	-	-	-	-	-	-	-	2.463	2.100	1.837	1.448
285	-	-	-	-	-	-	-	-	2.518	2.137	1.884	1.470
290	-	-	-	-	-	-	-	-	2.572	2.174	1.931	1.492
295	-	-	-	-	-	-	-	-	2.626	2.211	1.977	1.543
300	-	-	-	-	-	-	-	-	2.681	2.248	2.018	1.614
305	-	-	-	-	-	-	-	-	2.735	2.285	2.054	1.685
310	-	-	-	-	-	-	-	-	2.789	2.322	2.089	1.756
315	-	-	-	-	-	-	-	-	-	2.359	2.125	1.826
320	-	-	-	-	-	-	-	-	-	2.396	2.161	1.897
325	-	-	-	-	-	-	-	-	-	2.433	2.197	1.968
330	-	-	-	-	-	-	-	-	-	2.470	2.233	2.018
335	-	-	-	-	-	-	-	-	-	2.507	2.269	2.054
340	-	-	-	-	-	-	-	-	-	2.544	2.305	2.089
345	-	-	-	-	-	-	-	-	-	2.581	2.341	2.125
350	-	-	-	-	-	-	-	-	-	2.618	2.377	2.161
355	-	-	-	-	-	-	-	-	-	2.655	2.413	2.197
360	-	-	-	-	-	-	-	-	-	2.692	2.449	2.233
365	-	-	-	-	-	-	-	-	-	2.730	2.485	2.269
370	-	-	-	-	-	-	-	-	-	2.767	2.521	2.305
375	-	-	-	-	-	-	-	-	-	2.804	2.557	2.341

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table IG: 4-Sided Columns
Fire Resistance Period: 120 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	2.485	2.149	1.962	1.584	1.453	1.289	1.233	1.149	0.895	0.719	0.535	0.400
55	-	2.211	2.004	1.666	1.513	1.432	1.355	1.259	0.979	0.761	0.590	0.444
60	-	2.273	2.047	1.749	1.573	1.532	1.477	1.369	1.063	0.803	0.645	0.496
65	-	2.336	2.089	1.831	1.634	1.584	1.537	1.479	1.148	0.849	0.700	0.549
70	-	2.398	2.131	1.914	1.694	1.635	1.582	1.531	1.232	0.896	0.756	0.601
75	-	2.460	2.173	1.996	1.755	1.687	1.627	1.569	1.316	0.943	0.811	0.654
80	-	2.522	2.215	2.025	1.815	1.738	1.672	1.606	1.400	0.991	0.839	0.706
85	-	2.585	2.257	2.054	1.875	1.790	1.717	1.644	1.484	1.038	0.868	0.759
90	-	2.647	2.300	2.082	1.936	1.841	1.762	1.681	1.522	1.085	0.896	0.811
95	-	2.709	2.342	2.111	1.996	1.893	1.807	1.719	1.548	1.132	0.924	0.836
100	-	2.772	2.384	2.140	2.026	1.944	1.852	1.756	1.574	1.180	0.952	0.860
105	-	-	2.426	2.169	2.056	1.996	1.897	1.794	1.600	1.227	0.981	0.885
110	-	-	2.468	2.197	2.085	2.028	1.942	1.831	1.626	1.274	1.009	0.910
115	-	-	2.510	2.226	2.115	2.060	1.987	1.869	1.652	1.321	1.037	0.934
120	-	-	2.552	2.255	2.145	2.091	2.023	1.906	1.678	1.369	1.066	0.959
125	-	-	2.595	2.284	2.175	2.123	2.056	1.944	1.704	1.416	1.094	0.984
130	-	-	2.637	2.312	2.205	2.155	2.090	1.981	1.730	1.463	1.122	1.008
135	-	-	2.679	2.341	2.235	2.187	2.123	2.019	1.756	1.506	1.150	1.033
140	-	-	2.721	2.370	2.264	2.218	2.157	2.056	1.782	1.533	1.179	1.057
145	-	-	2.763	2.399	2.294	2.250	2.190	2.094	1.808	1.560	1.207	1.082
150	-	-	2.805	2.427	2.324	2.282	2.224	2.131	1.834	1.587	1.235	1.107
155	-	-	-	2.456	2.354	2.314	2.257	2.169	1.861	1.614	1.263	1.131
160	-	-	-	2.485	2.384	2.345	2.291	2.207	1.887	1.641	1.292	1.156
165	-	-	-	2.514	2.413	2.377	2.324	2.244	1.913	1.668	1.320	1.181
170	-	-	-	2.543	2.443	2.409	2.358	2.282	1.939	1.695	1.348	1.205
175	-	-	-	2.571	2.473	2.441	2.391	2.319	1.965	1.722	1.377	1.230
180	-	-	-	2.600	2.503	2.472	2.425	2.357	1.991	1.749	1.405	1.255
185	-	-	-	2.629	2.533	2.504	2.458	2.395	2.046	1.775	1.433	1.279
190	-	-	-	2.658	2.563	2.536	2.492	2.432	2.109	1.802	1.461	1.304
195	-	-	-	2.686	2.592	2.568	2.525	2.470	2.172	1.829	1.490	1.329
200	-	-	-	2.715	2.622	2.599	2.559	2.508	2.234	1.856	1.527	1.353
205	-	-	-	2.744	2.652	2.631	2.592	2.545	2.297	1.883	1.570	1.378
210	-	-	-	2.773	2.682	2.663	2.626	2.583	2.360	1.910	1.614	1.402

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table I6: 4-Sided Columns
Fire Resistance Period: 120 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	-	2.801	2.712	2.695	2.659	2.620	2.422	1.937	1.657	1.427
220	-	-	-	-	2.741	2.726	2.693	2.658	2.485	1.964	1.701	1.452
225	-	-	-	-	2.771	2.758	2.726	2.696	2.548	1.991	1.744	1.476
230	-	-	-	-	2.801	2.790	2.760	2.733	2.610	2.063	1.788	1.501
235	-	-	-	-	-	-	2.793	2.771	2.673	2.148	1.831	1.552
240	-	-	-	-	-	-	-	-	2.736	2.232	1.874	1.602
245	-	-	-	-	-	-	-	-	2.798	2.316	1.918	1.653
250	-	-	-	-	-	-	-	-	-	2.401	1.961	1.703
255	-	-	-	-	-	-	-	-	-	2.485	2.007	1.754
260	-	-	-	-	-	-	-	-	-	2.569	2.061	1.804
265	-	-	-	-	-	-	-	-	-	2.654	2.116	1.855
270	-	-	-	-	-	-	-	-	-	2.738	2.170	1.905
275	-	-	-	-	-	-	-	-	-	-	2.224	1.956
280	-	-	-	-	-	-	-	-	-	-	2.279	2.004
285	-	-	-	-	-	-	-	-	-	-	2.333	2.046
290	-	-	-	-	-	-	-	-	-	-	2.387	2.087
295	-	-	-	-	-	-	-	-	-	-	2.442	2.129
300	-	-	-	-	-	-	-	-	-	-	2.496	2.170
305	-	-	-	-	-	-	-	-	-	-	2.550	2.211
310	-	-	-	-	-	-	-	-	-	-	2.605	2.253
315	-	-	-	-	-	-	-	-	-	-	2.659	2.294
320	-	-	-	-	-	-	-	-	-	-	2.713	2.336
325	-	-	-	-	-	-	-	-	-	-	2.768	2.377
330	-	-	-	-	-	-	-	-	-	-	-	2.419
335	-	-	-	-	-	-	-	-	-	-	-	2.460
340	-	-	-	-	-	-	-	-	-	-	-	2.502
345	-	-	-	-	-	-	-	-	-	-	-	2.543
350	-	-	-	-	-	-	-	-	-	-	-	2.584
355	-	-	-	-	-	-	-	-	-	-	-	2.626
360	-	-	-	-	-	-	-	-	-	-	-	2.667
365	-	-	-	-	-	-	-	-	-	-	-	2.709
370	-	-	-	-	-	-	-	-	-	-	-	2.750
375	-	-	-	-	-	-	-	-	-	-	-	2.792

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

Table I7: 4-Sided Beams
Fire Resistance Period: 15 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
115	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
120	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
125	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
130	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
135	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
140	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
145	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
150	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
155	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
160	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
165	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
170	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
175	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
180	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
185	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
190	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
195	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
200	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
205	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
210	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
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Nullifire
Smart Protection

Table I7: 4-Sided Beams
Fire Resistance Period: 15 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
220	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
225	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
230	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
235	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
240	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
245	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
250	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
255	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
260	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
265	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
270	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
275	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
280	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
285	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
290	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
295	0.201	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
300	0.213	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
305	0.225	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
310	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
315	0.250	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
320	0.262	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
325	0.274	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
330	0.286	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
335	0.299	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
340	0.311	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
345	0.323	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
350	0.335	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
355	0.347	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
360	0.360	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
365	0.372	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
370	0.384	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
375	0.396	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
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Table I8: 4-Sided Beams
Fire Resistance Period: 30 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.222	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.237	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.252	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.267	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.282	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.297	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.313	0.219	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.328	0.231	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.343	0.242	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
115	0.358	0.254	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
120	0.373	0.266	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
125	0.388	0.278	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
130	0.403	0.289	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
135	0.418	0.301	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
140	0.433	0.313	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
145	0.448	0.325	0.200	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
150	0.464	0.336	0.211	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
155	0.479	0.348	0.221	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
160	0.494	0.360	0.232	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
165	0.509	0.372	0.242	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
170	0.524	0.383	0.253	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
175	0.539	0.395	0.263	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
180	0.554	0.407	0.273	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
185	0.569	0.419	0.284	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
190	0.584	0.430	0.294	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
195	0.600	0.442	0.305	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
200	0.615	0.454	0.315	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
205	0.630	0.466	0.325	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
210	0.645	0.477	0.336	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



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Fire Resistance Period: 30 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	0.660	0.489	0.346	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
220	0.675	0.501	0.357	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
225	0.690	0.513	0.367	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
230	0.705	0.524	0.378	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
235	0.720	0.536	0.388	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
240	0.735	0.548	0.398	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
245	0.751	0.560	0.409	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
250	0.766	0.571	0.419	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
255	0.781	0.583	0.430	0.205	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
260	0.796	0.595	0.440	0.216	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
265	0.811	0.607	0.450	0.227	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
270	0.840	0.618	0.461	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
275	0.870	0.630	0.471	0.249	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
280	0.899	0.642	0.482	0.260	0.205	0.198	0.198	0.198	0.198	0.198	0.198	0.198
285	0.929	0.654	0.492	0.271	0.215	0.201	0.198	0.198	0.198	0.198	0.198	0.198
290	0.958	0.665	0.503	0.282	0.225	0.210	0.198	0.198	0.198	0.198	0.198	0.198
295	0.988	0.677	0.513	0.293	0.234	0.220	0.203	0.198	0.198	0.198	0.198	0.198
300	1.017	0.689	0.523	0.303	0.244	0.229	0.211	0.198	0.198	0.198	0.198	0.198
305	1.047	0.701	0.534	0.314	0.254	0.238	0.220	0.198	0.198	0.198	0.198	0.198
310	1.076	0.712	0.544	0.325	0.263	0.247	0.229	0.203	0.198	0.198	0.198	0.198
315	1.106	0.724	0.555	0.336	0.273	0.257	0.238	0.211	0.198	0.198	0.198	0.198
320	1.135	0.736	0.565	0.347	0.282	0.266	0.247	0.220	0.198	0.198	0.198	0.198
325	1.165	0.748	0.576	0.358	0.292	0.275	0.256	0.228	0.198	0.198	0.198	0.198
330	1.194	0.759	0.586	0.369	0.302	0.284	0.265	0.237	0.198	0.198	0.198	0.198
335	1.224	0.771	0.596	0.380	0.311	0.294	0.274	0.245	0.198	0.198	0.198	0.198
340	1.253	0.783	0.607	0.391	0.321	0.303	0.283	0.254	0.198	0.198	0.198	0.198
345	1.283	0.795	0.617	0.402	0.331	0.312	0.292	0.262	0.204	0.198	0.198	0.198
350	1.312	0.806	0.628	0.413	0.340	0.322	0.301	0.270	0.211	0.198	0.198	0.198
355	1.342	0.826	0.638	0.424	0.350	0.331	0.310	0.279	0.218	0.198	0.198	0.198
360	1.371	0.852	0.648	0.435	0.360	0.340	0.319	0.287	0.226	0.198	0.198	0.198
365	1.401	0.878	0.659	0.446	0.369	0.349	0.327	0.296	0.233	0.198	0.198	0.198
370	1.430	0.904	0.669	0.457	0.379	0.359	0.336	0.304	0.240	0.198	0.198	0.198
375	1.460	0.929	0.680	0.468	0.389	0.368	0.345	0.313	0.247	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I9: 4-Sided Beams
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.415	0.218	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.436	0.236	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
60	0.457	0.254	0.207	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
65	0.477	0.273	0.221	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
70	0.498	0.291	0.234	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
75	0.518	0.309	0.248	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
80	0.539	0.327	0.262	0.203	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
85	0.560	0.345	0.276	0.214	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
90	0.580	0.363	0.290	0.226	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
95	0.601	0.381	0.303	0.238	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
100	0.621	0.399	0.317	0.249	0.203	0.198	0.198	0.198	0.198	0.198	0.198	0.198
105	0.642	0.417	0.331	0.261	0.214	0.198	0.198	0.198	0.198	0.198	0.198	0.198
110	0.663	0.435	0.345	0.272	0.225	0.208	0.198	0.198	0.198	0.198	0.198	0.198
115	0.683	0.453	0.359	0.284	0.236	0.218	0.198	0.198	0.198	0.198	0.198	0.198
120	0.704	0.471	0.372	0.296	0.247	0.229	0.201	0.198	0.198	0.198	0.198	0.198
125	0.724	0.489	0.386	0.307	0.257	0.240	0.212	0.198	0.198	0.198	0.198	0.198
130	0.745	0.507	0.400	0.319	0.268	0.251	0.223	0.200	0.198	0.198	0.198	0.198
135	0.766	0.526	0.414	0.331	0.279	0.262	0.234	0.211	0.198	0.198	0.198	0.198
140	0.786	0.544	0.428	0.342	0.290	0.272	0.244	0.221	0.198	0.198	0.198	0.198
145	0.807	0.562	0.441	0.354	0.301	0.283	0.255	0.232	0.198	0.198	0.198	0.198
150	0.845	0.580	0.455	0.365	0.312	0.294	0.266	0.242	0.198	0.198	0.198	0.198
155	0.887	0.598	0.469	0.377	0.323	0.305	0.277	0.253	0.198	0.198	0.198	0.198
160	0.929	0.616	0.483	0.389	0.334	0.315	0.288	0.263	0.198	0.198	0.198	0.198
165	0.971	0.634	0.497	0.400	0.345	0.326	0.298	0.274	0.198	0.198	0.198	0.198
170	1.013	0.652	0.510	0.412	0.356	0.337	0.309	0.284	0.202	0.198	0.198	0.198
175	1.055	0.670	0.524	0.423	0.366	0.348	0.320	0.295	0.212	0.198	0.198	0.198
180	1.097	0.688	0.538	0.435	0.377	0.359	0.331	0.305	0.222	0.198	0.198	0.198
185	1.139	0.706	0.552	0.447	0.388	0.369	0.342	0.316	0.232	0.198	0.198	0.198
190	1.181	0.724	0.565	0.458	0.399	0.380	0.352	0.326	0.242	0.198	0.198	0.198
195	1.223	0.742	0.579	0.470	0.410	0.391	0.363	0.337	0.252	0.198	0.198	0.198
200	1.265	0.760	0.593	0.481	0.421	0.402	0.374	0.347	0.262	0.198	0.198	0.198
205	1.307	0.778	0.607	0.493	0.432	0.412	0.385	0.358	0.272	0.198	0.198	0.198
210	1.350	0.797	0.621	0.505	0.443	0.423	0.396	0.368	0.282	0.198	0.198	0.198

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table I9: 4-Sided Beams
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	1.392	0.819	0.634	0.516	0.454	0.434	0.407	0.379	0.292	0.198	0.198	0.198
220	1.434	0.856	0.648	0.528	0.464	0.445	0.417	0.389	0.303	0.198	0.198	0.198
225	1.476	0.894	0.662	0.539	0.475	0.455	0.428	0.400	0.313	0.198	0.198	0.198
230	1.509	0.931	0.676	0.551	0.486	0.466	0.439	0.410	0.323	0.204	0.198	0.198
235	1.527	0.969	0.690	0.563	0.497	0.477	0.450	0.421	0.333	0.213	0.198	0.198
240	1.546	1.006	0.703	0.574	0.508	0.488	0.461	0.431	0.343	0.223	0.198	0.198
245	1.565	1.044	0.717	0.586	0.519	0.499	0.471	0.442	0.353	0.232	0.198	0.198
250	1.584	1.081	0.731	0.597	0.530	0.509	0.482	0.452	0.363	0.242	0.198	0.198
255	1.602	1.119	0.745	0.609	0.541	0.520	0.493	0.463	0.373	0.251	0.198	0.198
260	1.621	1.156	0.759	0.621	0.552	0.531	0.504	0.473	0.383	0.261	0.198	0.198
265	1.640	1.194	0.772	0.632	0.563	0.542	0.515	0.484	0.393	0.271	0.198	0.198
270	1.659	1.231	0.786	0.644	0.573	0.552	0.526	0.494	0.403	0.280	0.198	0.198
275	1.677	1.269	0.800	0.655	0.584	0.563	0.536	0.505	0.414	0.290	0.202	0.198
280	1.696	1.306	0.818	0.667	0.595	0.574	0.547	0.515	0.424	0.299	0.210	0.198
285	1.715	1.344	0.854	0.679	0.606	0.585	0.558	0.526	0.434	0.309	0.218	0.198
290	1.734	1.381	0.890	0.690	0.617	0.596	0.569	0.536	0.444	0.319	0.226	0.198
295	1.752	1.419	0.926	0.702	0.628	0.606	0.580	0.546	0.454	0.328	0.234	0.198
300	1.771	1.456	0.962	0.714	0.639	0.617	0.590	0.557	0.464	0.338	0.242	0.198
305	1.790	1.494	0.998	0.725	0.650	0.628	0.601	0.567	0.474	0.347	0.250	0.198
310	1.809	1.516	1.034	0.737	0.661	0.639	0.612	0.578	0.484	0.357	0.258	0.198
315	1.827	1.536	1.070	0.748	0.672	0.649	0.623	0.588	0.494	0.366	0.266	0.198
320	1.846	1.555	1.106	0.760	0.682	0.660	0.634	0.599	0.504	0.376	0.273	0.198
325	1.865	1.574	1.142	0.772	0.693	0.671	0.644	0.609	0.514	0.386	0.281	0.198
330	1.884	1.593	1.178	0.783	0.704	0.682	0.655	0.620	0.524	0.395	0.289	0.204
335	1.902	1.612	1.214	0.795	0.715	0.692	0.666	0.630	0.535	0.405	0.297	0.211
340	1.921	1.631	1.249	0.806	0.726	0.703	0.677	0.641	0.545	0.414	0.305	0.217
345	1.940	1.651	1.285	0.835	0.737	0.714	0.688	0.651	0.555	0.424	0.313	0.224
350	1.959	1.670	1.321	0.874	0.748	0.725	0.699	0.662	0.565	0.434	0.321	0.230
355	1.977	1.689	1.357	0.914	0.759	0.736	0.709	0.672	0.575	0.443	0.329	0.236
360	1.996	1.708	1.393	0.954	0.770	0.746	0.720	0.683	0.585	0.453	0.337	0.243
365	2.078	1.727	1.429	0.993	0.780	0.757	0.731	0.693	0.595	0.462	0.345	0.249
370	2.159	1.747	1.465	1.033	0.791	0.768	0.742	0.704	0.605	0.472	0.353	0.255
375	-	1.766	1.501	1.073	0.802	0.779	0.753	0.714	0.615	0.481	0.361	0.262

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SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 20: 4-Sided Beams
Fire Resistance Period: 60 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	0.730	0.540	0.362	0.217	0.200	0.198	0.198	0.198	0.198	0.198	0.198	0.198
55	0.811	0.568	0.380	0.233	0.214	0.207	0.201	0.198	0.198	0.198	0.198	0.198
60	0.897	0.596	0.398	0.250	0.229	0.221	0.214	0.203	0.198	0.198	0.198	0.198
65	0.984	0.625	0.416	0.267	0.243	0.235	0.227	0.215	0.198	0.198	0.198	0.198
70	1.070	0.653	0.433	0.283	0.257	0.248	0.240	0.228	0.198	0.198	0.198	0.198
75	1.156	0.681	0.451	0.300	0.272	0.262	0.253	0.240	0.203	0.198	0.198	0.198
80	1.242	0.709	0.469	0.317	0.286	0.276	0.266	0.252	0.215	0.198	0.198	0.198
85	1.329	0.738	0.487	0.333	0.300	0.289	0.279	0.265	0.226	0.198	0.198	0.198
90	1.415	0.766	0.505	0.350	0.315	0.303	0.292	0.277	0.238	0.198	0.198	0.198
95	1.501	0.794	0.522	0.367	0.329	0.317	0.305	0.289	0.249	0.198	0.198	0.198
100	1.532	0.825	0.540	0.384	0.343	0.331	0.318	0.302	0.261	0.198	0.198	0.198
105	1.562	0.858	0.558	0.400	0.358	0.344	0.331	0.314	0.272	0.198	0.198	0.198
110	1.593	0.892	0.576	0.417	0.372	0.358	0.344	0.326	0.283	0.203	0.198	0.198
115	1.623	0.926	0.594	0.434	0.386	0.372	0.357	0.338	0.295	0.214	0.198	0.198
120	1.654	0.960	0.612	0.450	0.401	0.385	0.370	0.351	0.306	0.225	0.198	0.198
125	1.684	0.994	0.629	0.467	0.415	0.399	0.383	0.363	0.318	0.236	0.198	0.198
130	1.715	1.027	0.647	0.484	0.429	0.413	0.396	0.375	0.329	0.247	0.198	0.198
135	1.745	1.061	0.665	0.500	0.444	0.427	0.409	0.388	0.340	0.257	0.198	0.198
140	1.776	1.095	0.683	0.517	0.458	0.440	0.423	0.400	0.352	0.268	0.198	0.198
145	1.807	1.129	0.701	0.534	0.472	0.454	0.436	0.412	0.363	0.279	0.198	0.198
150	1.837	1.163	0.718	0.551	0.487	0.468	0.449	0.425	0.375	0.290	0.198	0.198
155	1.868	1.197	0.736	0.567	0.501	0.482	0.462	0.437	0.386	0.301	0.208	0.198
160	1.898	1.230	0.754	0.584	0.515	0.495	0.475	0.449	0.398	0.312	0.218	0.198
165	1.929	1.264	0.772	0.601	0.530	0.509	0.488	0.462	0.409	0.323	0.228	0.198
170	1.959	1.298	0.790	0.617	0.544	0.523	0.501	0.474	0.420	0.334	0.238	0.198
175	1.990	1.332	0.807	0.634	0.558	0.536	0.514	0.486	0.432	0.345	0.248	0.198
180	2.020	1.366	0.849	0.651	0.573	0.550	0.527	0.498	0.443	0.356	0.258	0.198
185	2.051	1.400	0.896	0.667	0.587	0.564	0.540	0.511	0.455	0.366	0.268	0.198
190	2.082	1.433	0.943	0.684	0.602	0.578	0.553	0.523	0.466	0.377	0.278	0.198
195	2.112	1.467	0.991	0.701	0.616	0.591	0.566	0.535	0.478	0.388	0.288	0.204
200	2.143	1.501	1.038	0.718	0.630	0.605	0.579	0.548	0.489	0.399	0.299	0.213
205	2.173	1.529	1.085	0.734	0.645	0.619	0.592	0.560	0.500	0.410	0.309	0.222
210	2.204	1.558	1.132	0.751	0.659	0.633	0.605	0.572	0.512	0.421	0.319	0.231

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 20: 4-Sided Beams
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	1.586	1.180	0.768	0.673	0.646	0.618	0.585	0.523	0.432	0.329	0.240
220	-	1.615	1.227	0.784	0.688	0.660	0.631	0.597	0.535	0.443	0.339	0.249
225	-	1.643	1.274	0.801	0.702	0.674	0.644	0.609	0.546	0.454	0.349	0.258
230	-	1.672	1.321	0.829	0.716	0.687	0.657	0.621	0.557	0.464	0.359	0.267
235	-	1.700	1.369	0.875	0.731	0.701	0.670	0.634	0.569	0.475	0.369	0.276
240	-	1.729	1.416	0.921	0.745	0.715	0.683	0.646	0.580	0.486	0.379	0.285
245	-	1.757	1.463	0.967	0.759	0.729	0.696	0.658	0.592	0.497	0.389	0.294
250	-	1.785	1.506	1.013	0.774	0.742	0.709	0.671	0.603	0.508	0.399	0.303
255	-	1.814	1.529	1.059	0.788	0.756	0.722	0.683	0.615	0.519	0.409	0.312
260	-	1.842	1.551	1.105	0.802	0.770	0.735	0.695	0.626	0.530	0.420	0.321
265	-	1.871	1.574	1.151	0.829	0.784	0.748	0.708	0.637	0.541	0.430	0.330
270	-	1.899	1.597	1.197	0.875	0.797	0.761	0.720	0.649	0.552	0.440	0.339
275	-	1.928	1.620	1.243	0.920	0.811	0.774	0.732	0.660	0.563	0.450	0.348
280	-	1.956	1.643	1.289	0.965	0.857	0.788	0.745	0.672	0.573	0.460	0.357
285	-	1.985	1.666	1.335	1.011	0.903	0.801	0.757	0.683	0.584	0.470	0.366
290	-	2.021	1.689	1.381	1.056	0.949	0.821	0.769	0.695	0.595	0.480	0.376
295	-	2.062	1.712	1.427	1.102	0.995	0.870	0.781	0.706	0.606	0.490	0.385
300	-	2.104	1.735	1.473	1.147	1.041	0.919	0.794	0.717	0.617	0.500	0.394
305	-	2.145	1.758	1.512	1.192	1.087	0.969	0.806	0.729	0.628	0.510	0.403
310	-	2.187	1.781	1.540	1.238	1.133	1.018	0.843	0.740	0.639	0.520	0.412
315	-		1.804	1.568	1.283	1.179	1.067	0.897	0.752	0.650	0.531	0.421
320	-	-	1.826	1.596	1.329	1.225	1.117	0.951	0.763	0.661	0.541	0.430
325	-	-	1.849	1.623	1.374	1.271	1.166	1.005	0.774	0.672	0.551	0.439
330	-	-	1.872	1.651	1.419	1.317	1.215	1.059	0.786	0.682	0.561	0.448
335	-	-	1.895	1.679	1.465	1.363	1.264	1.113	0.797	0.693	0.571	0.457
340	-	-	1.918	1.707	1.508	1.409	1.314	1.167	0.809	0.704	0.581	0.466
345	-	-	1.941	1.735	1.542	1.455	1.363	1.221	0.855	0.715	0.591	0.475
350	-	-	1.964	1.762	1.576	1.501	1.412	1.275	0.910	0.726	0.601	0.484
355	-	-	1.987	1.790	1.609	1.537	1.462	1.329	0.964	0.737	0.611	0.493
360	-	-	2.038	1.818	1.643	1.574	1.508	1.382	1.019	0.748	0.621	0.502
365	-	-	2.108	1.846	1.677	1.610	1.544	1.436	1.074	0.759	0.631	0.511
370	-	-	2.178	1.874	1.711	1.647	1.580	1.490	1.129	0.770	0.642	0.520
375	-	-	-	1.901	1.745	1.683	1.616	1.531	1.183	0.780	0.652	0.529

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Smart Protection

Table 2I: 4-Sided Beams
Fire Resistance Period: 75 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.555	0.852	0.643	0.484	0.396	0.374	0.345	0.240	0.218	0.198	0.198	0.198
55	1.609	0.953	0.678	0.503	0.413	0.391	0.362	0.259	0.234	0.198	0.198	0.198
60	1.662	1.055	0.713	0.522	0.430	0.408	0.379	0.278	0.249	0.207	0.198	0.198
65	1.716	1.156	0.748	0.540	0.446	0.425	0.395	0.296	0.265	0.220	0.198	0.198
70	1.770	1.257	0.783	0.559	0.463	0.441	0.412	0.315	0.281	0.232	0.198	0.198
75	1.824	1.359	0.818	0.577	0.480	0.458	0.428	0.334	0.296	0.245	0.198	0.198
80	1.878	1.460	0.853	0.596	0.497	0.475	0.445	0.353	0.312	0.258	0.208	0.198
85	1.931	1.518	0.888	0.614	0.513	0.492	0.461	0.371	0.328	0.270	0.220	0.198
90	1.985	1.546	0.924	0.633	0.530	0.509	0.478	0.390	0.344	0.283	0.231	0.198
95	2.021	1.574	0.959	0.651	0.547	0.525	0.494	0.409	0.359	0.295	0.242	0.198
100	2.052	1.602	0.994	0.670	0.564	0.542	0.511	0.428	0.375	0.308	0.254	0.198
105	2.084	1.630	1.029	0.689	0.580	0.559	0.527	0.447	0.391	0.320	0.265	0.198
110	2.115	1.659	1.064	0.707	0.597	0.576	0.544	0.465	0.406	0.333	0.276	0.206
115	2.146	1.687	1.100	0.726	0.614	0.593	0.560	0.484	0.422	0.345	0.288	0.217
120	2.178	1.715	1.135	0.744	0.630	0.609	0.577	0.503	0.438	0.358	0.299	0.227
125	2.209	1.743	1.170	0.763	0.647	0.626	0.593	0.522	0.453	0.370	0.310	0.238
130	-	1.771	1.205	0.781	0.664	0.643	0.610	0.541	0.469	0.383	0.322	0.248
135	-	1.799	1.240	0.800	0.681	0.660	0.626	0.559	0.485	0.395	0.333	0.259
140	-	1.827	1.276	0.829	0.697	0.677	0.643	0.578	0.500	0.408	0.344	0.270
145	-	1.855	1.311	0.874	0.714	0.693	0.659	0.597	0.516	0.420	0.356	0.280
150	-	1.884	1.346	0.919	0.731	0.710	0.676	0.616	0.532	0.433	0.367	0.291
155	-	1.912	1.381	0.963	0.747	0.727	0.692	0.634	0.547	0.445	0.378	0.301
160	-	1.940	1.417	1.008	0.764	0.744	0.709	0.653	0.563	0.458	0.390	0.312
165	-	1.968	1.452	1.053	0.781	0.761	0.725	0.672	0.579	0.470	0.401	0.322
170	-	1.996	1.487	1.098	0.798	0.777	0.742	0.691	0.595	0.483	0.412	0.333
175	-	2.035	1.526	1.143	0.822	0.794	0.758	0.710	0.610	0.495	0.424	0.344
180	-	2.075	1.567	1.187	0.875	0.811	0.775	0.728	0.626	0.508	0.435	0.354
185	-	2.114	1.608	1.232	0.928	0.863	0.791	0.747	0.642	0.520	0.446	0.365
190	-	2.154	1.650	1.277	0.981	0.916	0.808	0.766	0.657	0.533	0.458	0.375
195	-	2.193	1.691	1.322	1.034	0.968	0.853	0.785	0.673	0.546	0.469	0.386
200	-	-	1.732	1.367	1.087	1.020	0.907	0.803	0.689	0.558	0.480	0.396
205	-	-	1.773	1.411	1.140	1.072	0.960	0.842	0.704	0.571	0.492	0.407
210	-	-	1.815	1.456	1.193	1.125	1.013	0.895	0.720	0.583	0.503	0.418

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 2I: 4-Sided Beams
Fire Resistance Period: 75 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	1.856	1.501	1.246	1.177	1.066	0.947	0.736	0.596	0.514	0.428
220	-	-	1.897	1.534	1.299	1.229	1.119	0.999	0.751	0.608	0.526	0.439
225	-	-	1.938	1.568	1.352	1.281	1.172	1.051	0.767	0.621	0.537	0.449
230	-	-	1.980	1.601	1.405	1.334	1.225	1.104	0.783	0.633	0.548	0.460
235	-	-	2.019	1.635	1.459	1.386	1.278	1.156	0.798	0.646	0.559	0.471
240	-	-	2.056	1.668	1.507	1.438	1.331	1.208	0.822	0.658	0.571	0.481
245	-	-	2.094	1.702	1.540	1.491	1.384	1.261	0.876	0.671	0.582	0.492
250	-	-	2.131	1.735	1.572	1.526	1.437	1.313	0.930	0.683	0.593	0.502
255	-	-	2.169	1.769	1.604	1.558	1.490	1.365	0.984	0.696	0.605	0.513
260	-	-	2.207	1.802	1.636	1.590	1.526	1.417	1.037	0.708	0.616	0.523
265	-	-	-	1.835	1.668	1.622	1.557	1.470	1.091	0.721	0.627	0.534
270	-	-	-	1.869	1.700	1.653	1.589	1.514	1.145	0.733	0.639	0.545
275	-	-	-	1.902	1.732	1.685	1.620	1.547	1.199	0.746	0.650	0.555
280	-	-	-	1.936	1.765	1.717	1.651	1.579	1.253	0.758	0.661	0.566
285	-	-	-	1.969	1.797	1.749	1.683	1.612	1.307	0.771	0.673	0.576
290	-	-	-	2.004	1.829	1.780	1.714	1.644	1.361	0.783	0.684	0.587
295	-	-	-	2.045	1.861	1.812	1.745	1.677	1.415	0.796	0.695	0.597
300	-	-	-	2.086	1.893	1.844	1.777	1.709	1.469	0.808	0.707	0.608
305	-	-	-	2.126	1.925	1.875	1.808	1.742	1.517	0.860	0.718	0.619
310	-	-	-	2.167	1.957	1.907	1.839	1.775	1.557	0.922	0.729	0.629
315	-	-	-	2.208	1.990	1.939	1.871	1.807	1.597	0.984	0.741	0.640
320	-	-	-	-	2.031	1.971	1.902	1.840	1.637	1.045	0.752	0.650
325	-	-	-	-	2.075	2.005	1.933	1.872	1.677	1.107	0.763	0.661
330	-	-	-	-	2.118	2.049	1.965	1.905	1.717	1.168	0.775	0.671
335	-	-	-	-	2.162	2.094	1.996	1.937	1.756	1.230	0.786	0.682
340	-	-	-	-	2.206	2.138	2.041	1.970	1.796	1.292	0.797	0.693
345	-	-	-	-	-	2.183	2.087	2.005	1.836	1.353	0.809	0.703
350	-	-	-	-	-	-	2.132	2.047	1.876	1.415	0.859	0.714
355	-	-	-	-	-	-	2.177	2.090	1.916	1.476	0.918	0.724
360	-	-	-	-	-	-	2.222	2.133	1.956	1.536	0.978	0.735
365	-	-	-	-	-	-	-	2.176	1.996	1.593	1.037	0.745
370	-	-	-	-	-	-	-	2.219	2.032	1.651	1.097	0.756
375	-	-	-	-	-	-	-	-	2.068	1.708	1.156	0.767

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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Table 22: 4-Sided Beams
Fire Resistance Period: 90 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	1.976	1.540	0.978	0.739	0.644	0.616	0.585	0.547	0.442	0.236	0.199	0.198
55	2.025	1.605	1.097	0.775	0.675	0.645	0.610	0.569	0.458	0.256	0.214	0.198
60	2.074	1.670	1.215	0.811	0.706	0.674	0.635	0.591	0.474	0.276	0.228	0.199
65	2.123	1.735	1.334	0.866	0.737	0.702	0.660	0.614	0.490	0.296	0.243	0.211
70	2.172	1.801	1.453	0.921	0.768	0.731	0.685	0.636	0.506	0.316	0.258	0.223
75	2.221	1.866	1.518	0.975	0.799	0.759	0.710	0.659	0.522	0.337	0.272	0.235
80	-	1.931	1.546	1.030	0.830	0.788	0.736	0.681	0.538	0.357	0.287	0.247
85	-	1.996	1.574	1.085	0.863	0.818	0.761	0.703	0.554	0.377	0.302	0.259
90	-	2.025	1.602	1.140	0.895	0.850	0.786	0.726	0.570	0.397	0.317	0.271
95	-	2.055	1.630	1.194	0.927	0.883	0.811	0.748	0.586	0.417	0.331	0.283
100	-	2.084	1.659	1.249	0.959	0.916	0.846	0.771	0.602	0.437	0.346	0.295
105	-	2.114	1.687	1.304	0.992	0.949	0.880	0.793	0.618	0.457	0.361	0.307
110	-	2.143	1.715	1.359	1.024	0.982	0.915	0.818	0.635	0.477	0.375	0.319
115	-	2.173	1.743	1.413	1.056	1.015	0.949	0.855	0.651	0.497	0.390	0.331
120	-	2.202	1.771	1.468	1.088	1.048	0.984	0.892	0.667	0.517	0.405	0.343
125	-	-	1.799	1.512	1.121	1.080	1.018	0.928	0.683	0.538	0.420	0.355
130	-	-	1.827	1.541	1.153	1.113	1.053	0.965	0.699	0.558	0.434	0.367
135	-	-	1.855	1.569	1.185	1.146	1.087	1.002	0.715	0.578	0.449	0.379
140	-	-	1.884	1.598	1.217	1.179	1.122	1.039	0.731	0.598	0.464	0.391
145	-	-	1.912	1.626	1.250	1.212	1.156	1.075	0.747	0.618	0.478	0.403
150	-	-	1.940	1.655	1.282	1.245	1.191	1.112	0.763	0.638	0.493	0.415
155	-	-	1.968	1.683	1.314	1.278	1.225	1.149	0.779	0.658	0.508	0.427
160	-	-	1.996	1.712	1.346	1.310	1.260	1.185	0.795	0.678	0.523	0.439
165	-	-	2.043	1.740	1.378	1.343	1.294	1.222	0.811	0.698	0.537	0.451
170	-	-	2.090	1.768	1.411	1.376	1.329	1.259	0.866	0.719	0.552	0.463
175	-	-	2.137	1.797	1.443	1.409	1.363	1.295	0.921	0.739	0.567	0.475
180	-	-	2.184	1.825	1.475	1.442	1.398	1.332	0.975	0.759	0.581	0.487
185	-	-	-	1.854	1.510	1.475	1.432	1.369	1.030	0.779	0.596	0.499
190	-	-	-	1.882	1.556	1.510	1.467	1.406	1.085	0.799	0.611	0.511
195	-	-	-	1.911	1.602	1.552	1.501	1.442	1.140	0.830	0.626	0.523
200	-	-	-	1.939	1.648	1.595	1.543	1.479	1.194	0.876	0.640	0.535
205	-	-	-	1.968	1.694	1.638	1.585	1.517	1.249	0.923	0.655	0.547
210	-	-	-	1.996	1.739	1.680	1.627	1.558	1.304	0.970	0.670	0.559

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Smart Protection

Table 22: 4-Sided Beams
Fire Resistance Period: 90 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	-	2.045	1.785	1.723	1.669	1.598	1.359	1.016	0.684	0.571
220	-	-	-	2.094	1.831	1.766	1.711	1.639	1.413	1.063	0.699	0.583
225	-	-	-	2.143	1.877	1.808	1.753	1.680	1.468	1.109	0.714	0.595
230	-	-	-	2.192	1.923	1.851	1.795	1.720	1.517	1.156	0.729	0.607
235	-	-	-	-	1.969	1.894	1.837	1.761	1.558	1.203	0.743	0.619
240	-	-	-	-	2.014	1.936	1.879	1.801	1.598	1.249	0.758	0.631
245	-	-	-	-	2.059	1.979	1.920	1.842	1.639	1.296	0.773	0.643
250	-	-	-	-	2.105	2.023	1.962	1.882	1.680	1.342	0.787	0.655
255	-	-	-	-	2.150	2.067	2.004	1.923	1.720	1.389	0.802	0.667
260	-	-	-	-	2.195	2.112	2.043	1.964	1.761	1.436	0.834	0.679
265	-	-	-	-	-	2.156	2.081	2.003	1.801	1.482	0.892	0.691
270	-	-	-	-	-	2.200	2.120	2.040	1.842	1.527	0.949	0.703
275	-	-	-	-	-	-	2.159	2.076	1.882	1.570	1.007	0.715
280	-	-	-	-	-	-	2.198	2.113	1.923	1.614	1.064	0.727
285	-	-	-	-	-	-	-	2.149	1.964	1.657	1.122	0.739
290	-	-	-	-	-	-	-	2.186	2.003	1.701	1.179	0.751
295	-	-	-	-	-	-	-	2.222	2.040	1.744	1.237	0.763
300	-	-	-	-	-	-	-	-	2.076	1.788	1.294	0.775
305	-	-	-	-	-	-	-	-	2.113	1.831	1.352	0.787
310	-	-	-	-	-	-	-	-	2.149	1.874	1.409	0.799
315	-	-	-	-	-	-	-	-	2.186	1.918	1.467	0.811
320	-	-	-	-	-	-	-	-	2.222	1.961	1.526	0.870
325	-	-	-	-	-	-	-	-	-	2.003	1.590	0.930
330	-	-	-	-	-	-	-	-	-	2.039	1.653	0.989
335	-	-	-	-	-	-	-	-	-	2.074	1.717	1.049
340	-	-	-	-	-	-	-	-	-	2.109	1.780	1.108
345	-	-	-	-	-	-	-	-	-	2.145	1.844	1.168
350	-	-	-	-	-	-	-	-	-	2.180	1.907	1.227
355	-	-	-	-	-	-	-	-	-	2.216	1.971	1.287
360	-	-	-	-	-	-	-	-	-	-	2.015	1.346
365	-	-	-	-	-	-	-	-	-	-	2.046	1.406
370	-	-	-	-	-	-	-	-	-	-	2.078	1.465
375	-	-	-	-	-	-	-	-	-	-	2.109	1.548

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Smart Protection

Table 23: 4-Sided Beams
Fire Resistance Period: IO5 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	2.199	1.970	1.559	1.143	0.899	0.844	0.797	0.752	0.662	0.501	0.258	0.198
55	-	2.013	1.632	1.255	0.988	0.926	0.869	0.811	0.693	0.533	0.302	0.198
60	-	2.056	1.705	1.367	1.076	1.008	0.940	0.870	0.724	0.565	0.347	0.198
65	-	2.099	1.778	1.479	1.165	1.090	1.012	0.930	0.755	0.596	0.392	0.198
70	-	2.142	1.850	1.531	1.253	1.172	1.084	0.989	0.786	0.628	0.436	0.198
75	-	2.185	1.923	1.567	1.342	1.255	1.156	1.049	0.818	0.659	0.481	0.198
80	-	-	1.996	1.604	1.430	1.337	1.228	1.108	0.851	0.691	0.526	0.207
85	-	-	2.025	1.641	1.507	1.419	1.300	1.168	0.884	0.723	0.570	0.262
90	-	-	2.054	1.678	1.535	1.501	1.372	1.227	0.917	0.754	0.615	0.317
95	-	-	2.082	1.715	1.563	1.528	1.444	1.287	0.950	0.786	0.659	0.372
100	-	-	2.111	1.752	1.591	1.555	1.506	1.346	0.984	0.817	0.704	0.427
105	-	-	2.140	1.789	1.619	1.582	1.533	1.406	1.017	0.849	0.749	0.482
110	-	-	2.169	1.826	1.647	1.609	1.559	1.465	1.050	0.880	0.793	0.536
115	-	-	2.197	1.863	1.675	1.636	1.585	1.511	1.083	0.911	0.827	0.591
120	-	-	-	1.900	1.704	1.662	1.612	1.537	1.116	0.943	0.853	0.646
125	-	-	-	1.937	1.732	1.689	1.638	1.563	1.149	0.974	0.879	0.701
130	-	-	-	1.974	1.760	1.716	1.664	1.589	1.183	1.005	0.905	0.756
135	-	-	-	2.011	1.788	1.743	1.691	1.614	1.216	1.037	0.931	0.811
140	-	-	-	2.049	1.816	1.770	1.717	1.640	1.249	1.068	0.957	0.833
145	-	-	-	2.086	1.844	1.797	1.743	1.666	1.282	1.100	0.984	0.855
150	-	-	-	2.124	1.872	1.824	1.770	1.692	1.315	1.131	1.010	0.877
155	-	-	-	2.162	1.900	1.851	1.796	1.718	1.348	1.162	1.036	0.899
160	-	-	-	2.199	1.929	1.878	1.822	1.743	1.382	1.194	1.062	0.921
165	-	-	-	-	1.957	1.905	1.849	1.769	1.415	1.225	1.088	0.943
170	-	-	-	-	1.985	1.931	1.875	1.795	1.448	1.256	1.114	0.965
175	-	-	-	-	2.026	1.958	1.901	1.821	1.481	1.288	1.140	0.987
180	-	-	-	-	2.076	1.985	1.928	1.846	1.518	1.319	1.166	1.009
185	-	-	-	-	2.126	2.029	1.954	1.872	1.560	1.350	1.193	1.031
190	-	-	-	-	2.176	2.083	1.980	1.898	1.602	1.382	1.219	1.053
195	-	-	-	-	-	2.137	2.018	1.924	1.644	1.413	1.245	1.075
200	-	-	-	-	-	2.192	2.074	1.950	1.686	1.445	1.271	1.097
205	-	-	-	-	-	-	2.129	1.975	1.728	1.476	1.297	1.119
210	-	-	-	-	-	-	2.185	2.009	1.769	1.510	1.323	1.141

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 23: 4-Sided Beams
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	-	-	-	-	-	2.071	1.811	1.553	1.349	1.163
220	-	-	-	-	-	-	-	2.134	1.853	1.597	1.376	1.185
225	-	-	-	-	-	-	-	2.197	1.895	1.640	1.402	1.207
230	-	-	-	-	-	-	-	-	1.937	1.683	1.428	1.229
235	-	-	-	-	-	-	-	-	1.979	1.727	1.454	1.250
240	-	-	-	-	-	-	-	-	2.029	1.770	1.480	1.272
245	-	-	-	-	-	-	-	-	2.083	1.814	1.510	1.294
250	-	-	-	-	-	-	-	-	2.137	1.857	1.557	1.316
255	-	-	-	-	-	-	-	-	2.192	1.900	1.604	1.338
260	-	-	-	-	-	-	-	-	-	1.944	1.650	1.360
265	-	-	-	-	-	-	-	-	-	1.987	1.697	1.382
270	-	-	-	-	-	-	-	-	-	2.026	1.744	1.404
275	-	-	-	-	-	-	-	-	-	2.063	1.791	1.426
280	-	-	-	-	-	-	-	-	-	2.100	1.837	1.448
285	-	-	-	-	-	-	-	-	-	2.137	1.884	1.470
290	-	-	-	-	-	-	-	-	-	2.174	1.931	1.492
295	-	-	-	-	-	-	-	-	-	2.211	1.977	1.543
300	-	-	-	-	-	-	-	-	-	-	2.018	1.614
305	-	-	-	-	-	-	-	-	-	-	2.054	1.685
310	-	-	-	-	-	-	-	-	-	-	2.089	1.756
315	-	-	-	-	-	-	-	-	-	-	2.125	1.826
320	-	-	-	-	-	-	-	-	-	-	2.161	1.897
325	-	-	-	-	-	-	-	-	-	-	2.197	1.968
330	-	-	-	-	-	-	-	-	-	-	-	2.018
335	-	-	-	-	-	-	-	-	-	-	-	2.054
340	-	-	-	-	-	-	-	-	-	-	-	2.089
345	-	-	-	-	-	-	-	-	-	-	-	2.125
350	-	-	-	-	-	-	-	-	-	-	-	2.161
355	-	-	-	-	-	-	-	-	-	-	-	2.197
360	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 24: 4-Sided Beams
Fire Resistance Period: 120 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
50	-	2.149	1.962	1.584	1.453	1.289	1.233	1.149	0.895	0.719	0.535	0.400
55	-	2.211	2.004	1.666	1.513	1.432	1.355	1.259	0.979	0.761	0.590	0.444
60	-	-	2.047	1.749	1.573	1.532	1.477	1.369	1.063	0.803	0.645	0.496
65	-	-	2.089	1.831	1.634	1.584	1.537	1.479	1.148	0.849	0.700	0.549
70	-	-	2.131	1.914	1.694	1.635	1.582	1.531	1.232	0.896	0.756	0.601
75	-	-	2.173	1.996	1.755	1.687	1.627	1.569	1.316	0.943	0.811	0.654
80	-	-	2.215	2.025	1.815	1.738	1.672	1.606	1.400	0.991	0.839	0.706
85	-	-	-	2.054	1.875	1.790	1.717	1.644	1.484	1.038	0.868	0.759
90	-	-	-	2.082	1.936	1.841	1.762	1.681	1.522	1.085	0.896	0.811
95	-	-	-	2.111	1.996	1.893	1.807	1.719	1.548	1.132	0.924	0.836
100	-	-	-	2.140	2.026	1.944	1.852	1.756	1.574	1.180	0.952	0.860
105	-	-	-	2.169	2.056	1.996	1.897	1.794	1.600	1.227	0.981	0.885
110	-	-	-	2.197	2.085	2.028	1.942	1.831	1.626	1.274	1.009	0.910
115	-	-	-	-	2.115	2.060	1.987	1.869	1.652	1.321	1.037	0.934
120	-	-	-	-	2.145	2.091	2.023	1.906	1.678	1.369	1.066	0.959
125	-	-	-	-	2.175	2.123	2.056	1.944	1.704	1.416	1.094	0.984
130	-	-	-	-	2.205	2.155	2.090	1.981	1.730	1.463	1.122	1.008
135	-	-	-	-	-	2.187	2.123	2.019	1.756	1.506	1.150	1.033
140	-	-	-	-	-	2.218	2.157	2.056	1.782	1.533	1.179	1.057
145	-	-	-	-	-	-	2.190	2.094	1.808	1.560	1.207	1.082
150	-	-	-	-	-	-	2.224	2.131	1.834	1.587	1.235	1.107
155	-	-	-	-	-	-	-	2.169	1.861	1.614	1.263	1.131
160	-	-	-	-	-	-	-	2.207	1.887	1.641	1.292	1.156
165	-	-	-	-	-	-	-	-	1.913	1.668	1.320	1.181
170	-	-	-	-	-	-	-	-	1.939	1.695	1.348	1.205
175	-	-	-	-	-	-	-	-	1.965	1.722	1.377	1.230
180	-	-	-	-	-	-	-	-	1.991	1.749	1.405	1.255
185	-	-	-	-	-	-	-	-	2.046	1.775	1.433	1.279
190	-	-	-	-	-	-	-	-	2.109	1.802	1.461	1.304
195	-	-	-	-	-	-	-	-	2.172	1.829	1.490	1.329
200	-	-	-	-	-	-	-	-	-	1.856	1.527	1.353
205	-	-	-	-	-	-	-	-	-	1.883	1.570	1.378
210	-	-	-	-	-	-	-	-	-	1.910	1.614	1.402

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Table 24: 4-Sided Beams
Fire Resistance Period: 120 Minutes

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ⁴	350°C	400°C	450°C	500°C	530°C	539°C	550°C	563°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
215	-	-	-	-	-	-	-	-	-	1.937	1.657	1.427
220	-	-	-	-	-	-	-	-	-	1.964	1.701	1.452
225	-	-	-	-	-	-	-	-	-	1.991	1.744	1.476
230	-	-	-	-	-	-	-	-	-	2.063	1.788	1.501
235	-	-	-	-	-	-	-	-	-	2.148	1.831	1.552
240	-	-	-	-	-	-	-	-	-	-	1.874	1.602
245	-	-	-	-	-	-	-	-	-	-	1.918	1.653
250	-	-	-	-	-	-	-	-	-	-	1.961	1.703
255	-	-	-	-	-	-	-	-	-	-	2.007	1.754
260	-	-	-	-	-	-	-	-	-	-	2.061	1.804
265	-	-	-	-	-	-	-	-	-	-	2.116	1.855
270	-	-	-	-	-	-	-	-	-	-	2.170	1.905
275	-	-	-	-	-	-	-	-	-	-	2.224	1.956
280	-	-	-	-	-	-	-	-	-	-	-	2.004
285	-	-	-	-	-	-	-	-	-	-	-	2.046
290	-	-	-	-	-	-	-	-	-	-	-	2.087
295	-	-	-	-	-	-	-	-	-	-	-	2.129
300	-	-	-	-	-	-	-	-	-	-	-	2.170
305	-	-	-	-	-	-	-	-	-	-	-	2.211
310	-	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 25: 4-Sided Hollow Columns
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	0.759	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
45	0.770	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
50	0.781	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
55	0.791	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
60	0.802	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
65	0.813	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
70	0.824	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
75	0.834	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
80	0.845	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
85	0.856	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
90	0.866	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
95	0.877	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
100	0.888	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
105	0.898	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
110	0.909	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
115	0.920	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
120	0.931	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
125	0.941	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
130	0.952	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
135	0.963	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
140	0.973	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
145	0.984	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
150	0.995	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
155	1.006	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
160	1.016	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
165	1.027	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
170	1.038	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
175	1.048	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
180	1.059	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
185	1.070	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
190	1.080	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
195	1.091	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
200	1.102	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
205	1.113	0.164	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
210	1.123	0.194	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
215	1.134	0.223	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
220	1.145	0.253	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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Smart Protection

**Table 25: 4-Sided Hollow Columns
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	1.155	0.283	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
230	1.166	0.312	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
235	1.177	0.342	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
240	1.187	0.371	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
245	1.198	0.401	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
250	1.209	0.430	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
255	1.220	0.460	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
260	1.230	0.489	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
265	1.241	0.519	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
270	1.252	0.548	0.164	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
275	1.262	0.578	0.194	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
280	1.273	0.607	0.225	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
285	1.284	0.637	0.255	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
290	1.294	0.667	0.286	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
295	1.305	0.696	0.316	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
300	1.316	0.726	0.347	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
305	1.327	0.755	0.377	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
310	1.337	0.785	0.408	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
315	1.348	0.814	0.438	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
320	1.359	0.844	0.469	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
325	1.369	0.873	0.499	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
330	1.380	0.903	0.530	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
335	1.391	0.932	0.560	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
340	1.402	0.962	0.591	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
345	1.412	0.991	0.621	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
350	1.423	1.021	0.652	0.188	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
355	1.434	1.051	0.682	0.222	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
360	1.444	1.080	0.713	0.256	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
365	1.455	1.110	0.744	0.290	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
370	1.466	1.139	0.774	0.324	0.181	0.175	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
375	1.476	1.169	0.805	0.358	0.216	0.207	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
380	1.487	1.198	0.835	0.391	0.250	0.239	0.168	0.168	0.158	0.158	0.158	0.158	0.158	0.158
385	1.498	1.228	0.866	0.425	0.284	0.271	0.201	0.201	0.158	0.158	0.158	0.158	0.158	0.158
390	1.509	1.257	0.896	0.459	0.319	0.302	0.234	0.234	0.158	0.158	0.158	0.158	0.158	0.158
395	1.519	1.287	0.927	0.493	0.353	0.334	0.268	0.268	0.158	0.158	0.158	0.158	0.158	0.158
400	1.530	1.316	0.957	0.527	0.388	0.366	0.301	0.301	0.158	0.158	0.158	0.158	0.158	0.158
405	1.541	1.346	0.988	0.561	0.422	0.397	0.334	0.334	0.158	0.158	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 26: 4-Sided Hollow Columns
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.323	0.211	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
45	1.323	0.248	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
50	1.323	0.286	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
55	1.323	0.324	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
60	1.323	0.361	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
65	1.323	0.399	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
70	1.323	0.437	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
75	1.323	0.475	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
80	1.323	0.512	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
85	1.323	0.550	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
90	1.323	0.588	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
95	1.323	0.625	0.188	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
100	1.323	0.663	0.233	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
105	1.323	0.701	0.278	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
110	1.323	0.739	0.323	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
115	1.323	0.776	0.369	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
120	1.323	0.814	0.414	0.179	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
125	1.323	0.852	0.459	0.225	0.170	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
130	1.323	0.889	0.504	0.270	0.215	0.179	0.158	0.161	0.158	0.158	0.158	0.158	0.158	0.158
135	1.323	0.927	0.549	0.316	0.261	0.224	0.197	0.206	0.158	0.158	0.158	0.158	0.158	0.158
140	1.323	0.965	0.594	0.362	0.307	0.270	0.243	0.252	0.158	0.158	0.158	0.158	0.158	0.158
145	1.339	1.002	0.639	0.408	0.353	0.315	0.289	0.298	0.158	0.158	0.158	0.158	0.158	0.158
150	1.361	1.040	0.685	0.454	0.399	0.361	0.336	0.344	0.158	0.158	0.158	0.158	0.158	0.158
155	1.383	1.078	0.730	0.499	0.444	0.406	0.382	0.389	0.158	0.158	0.158	0.158	0.158	0.158
160	1.405	1.116	0.775	0.545	0.490	0.452	0.428	0.435	0.198	0.158	0.158	0.158	0.158	0.158
165	1.426	1.153	0.820	0.591	0.536	0.497	0.474	0.481	0.248	0.209	0.158	0.158	0.158	0.158
170	1.448	1.191	0.865	0.637	0.582	0.543	0.520	0.527	0.298	0.260	0.158	0.158	0.158	0.158
175	1.470	1.229	0.910	0.682	0.628	0.588	0.566	0.573	0.348	0.312	0.158	0.158	0.158	0.158
180	1.492	1.266	0.955	0.728	0.673	0.634	0.612	0.618	0.398	0.364	0.158	0.158	0.158	0.158
185	1.514	1.304	1.001	0.774	0.719	0.679	0.658	0.664	0.448	0.415	0.158	0.158	0.158	0.158
190	1.535	1.342	1.046	0.820	0.765	0.724	0.704	0.710	0.498	0.467	0.158	0.158	0.158	0.158
195	1.557	1.380	1.091	0.866	0.811	0.770	0.751	0.756	0.549	0.519	0.158	0.158	0.158	0.158
200	1.579	1.417	1.136	0.911	0.856	0.815	0.797	0.802	0.599	0.571	0.158	0.158	0.158	0.158
205	1.601	1.455	1.181	0.957	0.902	0.861	0.843	0.847	0.649	0.622	0.158	0.158	0.158	0.158
210	1.623	1.482	1.226	1.003	0.948	0.906	0.889	0.893	0.699	0.674	0.158	0.158	0.158	0.158
215	1.644	1.501	1.271	1.049	0.994	0.952	0.935	0.939	0.749	0.726	0.158	0.158	0.158	0.158
220	1.666	1.521	1.317	1.095	1.040	0.997	0.981	0.985	0.799	0.777	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 26: 4-Sided Hollow Columns
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	1.688	1.541	1.362	1.140	1.085	1.043	1.027	1.030	0.849	0.829	0.158	0.158	0.158	0.158
230	1.710	1.561	1.407	1.186	1.131	1.088	1.073	1.076	0.899	0.881	0.203	0.158	0.158	0.158
235	1.732	1.580	1.452	1.232	1.177	1.134	1.120	1.122	0.949	0.932	0.278	0.158	0.158	0.158
240	1.753	1.600	1.481	1.278	1.223	1.179	1.166	1.168	0.999	0.984	0.354	0.158	0.158	0.158
245	1.775	1.620	1.499	1.323	1.269	1.225	1.212	1.214	1.049	1.036	0.429	0.158	0.158	0.158
250	1.797	1.639	1.518	1.369	1.314	1.270	1.258	1.259	1.099	1.087	0.505	0.158	0.158	0.158
255	1.819	1.659	1.536	1.415	1.360	1.315	1.304	1.305	1.150	1.139	0.580	0.202	0.158	0.158
260	1.841	1.679	1.554	1.461	1.406	1.361	1.350	1.351	1.200	1.191	0.656	0.270	0.158	0.158
265	1.862	1.698	1.572	1.483	1.452	1.406	1.396	1.397	1.250	1.243	0.731	0.338	0.158	0.158
270	1.884	1.718	1.591	1.499	1.479	1.452	1.442	1.443	1.300	1.294	0.806	0.406	0.158	0.158
275	1.906	1.738	1.609	1.515	1.495	1.479	1.476	1.476	1.350	1.346	0.882	0.474	0.158	0.158
280	1.928	1.757	1.627	1.531	1.511	1.495	1.491	1.491	1.400	1.398	0.957	0.543	0.158	0.158
285	1.950	1.777	1.646	1.547	1.526	1.511	1.507	1.507	1.450	1.449	1.033	0.611	0.158	0.158
290	1.971	1.797	1.664	1.563	1.542	1.527	1.522	1.522	1.479	1.479	1.108	0.679	0.158	0.158
295	1.993	1.816	1.682	1.579	1.557	1.542	1.537	1.537	1.493	1.493	1.183	0.747	0.158	0.158
300	2.015	1.836	1.700	1.595	1.573	1.558	1.552	1.552	1.508	1.507	1.259	0.815	0.158	0.158
305	2.037	1.856	1.719	1.611	1.589	1.574	1.568	1.568	1.522	1.522	1.334	0.884	0.158	0.158
310	2.059	1.875	1.737	1.627	1.604	1.589	1.583	1.583	1.536	1.536	1.410	0.952	0.158	0.158
315	2.080	1.895	1.755	1.643	1.620	1.605	1.598	1.598	1.551	1.551	1.472	1.020	0.158	0.158
320	2.102	1.915	1.774	1.659	1.635	1.621	1.613	1.613	1.565	1.565	1.484	1.088	0.158	0.158
325	2.124	1.934	1.792	1.675	1.651	1.637	1.628	1.628	1.580	1.580	1.496	1.156	0.158	0.158
330	2.146	1.954	1.810	1.691	1.667	1.652	1.644	1.644	1.594	1.594	1.509	1.225	0.158	0.158
335	2.168	1.974	1.829	1.707	1.682	1.668	1.659	1.659	1.609	1.608	1.521	1.293	0.158	0.158
340	2.189	1.994	1.847	1.723	1.698	1.684	1.674	1.674	1.623	1.623	1.533	1.361	0.158	0.158
345	2.211	2.013	1.865	1.739	1.713	1.699	1.689	1.689	1.638	1.637	1.545	1.429	0.158	0.158
350	2.233	2.033	1.883	1.755	1.729	1.715	1.705	1.705	1.652	1.652	1.557	1.474	0.158	0.158
355	2.255	2.053	1.902	1.771	1.745	1.731	1.720	1.720	1.667	1.666	1.569	1.484	0.158	0.158
360	2.277	2.072	1.920	1.787	1.760	1.747	1.735	1.735	1.681	1.681	1.581	1.494	0.158	0.158
365	2.298	2.092	1.938	1.803	1.776	1.762	1.750	1.750	1.695	1.695	1.593	1.504	0.158	0.158
370	2.320	2.112	1.957	1.819	1.791	1.778	1.766	1.766	1.710	1.709	1.605	1.514	0.158	0.158
375	2.342	2.131	1.975	1.835	1.807	1.794	1.781	1.781	1.724	1.724	1.617	1.525	0.158	0.158
380	2.364	2.151	1.993	1.851	1.823	1.809	1.796	1.796	1.739	1.738	1.629	1.535	0.254	0.158
385	2.386	2.171	2.011	1.867	1.838	1.825	1.811	1.811	1.753	1.753	1.641	1.545	0.418	0.158
390	2.407	2.190	2.030	1.884	1.854	1.841	1.827	1.827	1.768	1.767	1.653	1.555	0.582	0.158
395	2.429	2.210	2.048	1.900	1.869	1.857	1.842	1.842	1.782	1.781	1.665	1.565	0.747	0.158
400	2.451	2.230	2.066	1.916	1.885	1.872	1.857	1.857	1.797	1.796	1.677	1.575	0.911	0.158
405	2.473	2.249	2.085	1.932	1.901	1.888	1.872	1.872	1.811	1.810	1.689	1.585	1.076	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 27: 4-Sided Hollow Columns
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.323	0.646	0.451	0.291	0.390	0.345	0.363	0.282	0.158	0.158	0.158	0.158	0.158	0.158
45	1.323	0.706	0.499	0.337	0.430	0.387	0.403	0.325	0.158	0.158	0.158	0.158	0.158	0.158
50	1.323	0.766	0.547	0.383	0.470	0.428	0.443	0.367	0.158	0.158	0.158	0.158	0.158	0.158
55	1.323	0.825	0.594	0.429	0.511	0.469	0.483	0.410	0.160	0.160	0.158	0.158	0.158	0.158
60	1.323	0.885	0.642	0.476	0.551	0.511	0.522	0.453	0.207	0.207	0.158	0.158	0.158	0.158
65	1.347	0.945	0.689	0.522	0.591	0.552	0.562	0.496	0.254	0.254	0.158	0.158	0.158	0.158
70	1.415	1.004	0.737	0.568	0.631	0.593	0.602	0.538	0.302	0.301	0.158	0.158	0.158	0.158
75	1.484	1.064	0.785	0.614	0.672	0.635	0.642	0.581	0.349	0.348	0.158	0.158	0.158	0.158
80	1.552	1.124	0.832	0.660	0.712	0.676	0.682	0.624	0.397	0.395	0.197	0.158	0.158	0.158
85	1.620	1.183	0.880	0.706	0.752	0.717	0.722	0.667	0.444	0.443	0.242	0.158	0.158	0.158
90	1.688	1.243	0.927	0.752	0.793	0.759	0.761	0.709	0.492	0.490	0.287	0.158	0.158	0.158
95	1.756	1.303	0.975	0.798	0.833	0.800	0.801	0.752	0.539	0.537	0.331	0.158	0.158	0.158
100	1.824	1.363	1.023	0.844	0.873	0.841	0.841	0.795	0.587	0.584	0.376	0.158	0.158	0.158
105	1.893	1.422	1.070	0.890	0.914	0.883	0.881	0.838	0.634	0.631	0.421	0.158	0.158	0.158
110	1.961	1.476	1.118	0.936	0.954	0.924	0.921	0.880	0.682	0.678	0.466	0.158	0.158	0.158
115	2.029	1.507	1.165	0.982	0.994	0.965	0.960	0.923	0.729	0.725	0.511	0.158	0.158	0.158
120	2.097	1.538	1.213	1.028	1.035	1.007	1.000	0.966	0.777	0.772	0.556	0.158	0.158	0.158
125	2.165	1.570	1.261	1.074	1.075	1.048	1.040	1.008	0.824	0.820	0.600	0.167	0.158	0.158
130	2.233	1.601	1.308	1.120	1.115	1.090	1.080	1.051	0.872	0.867	0.645	0.220	0.158	0.158
135	2.302	1.632	1.356	1.166	1.156	1.131	1.120	1.094	0.919	0.914	0.690	0.273	0.158	0.158
140	2.370	1.663	1.403	1.212	1.196	1.172	1.159	1.137	0.967	0.961	0.735	0.327	0.158	0.158
145	2.438	1.694	1.451	1.258	1.236	1.214	1.199	1.179	1.014	1.008	0.780	0.380	0.158	0.158
150	2.506	1.725	1.486	1.304	1.276	1.255	1.239	1.222	1.062	1.055	0.825	0.434	0.158	0.158
155	2.574	1.756	1.514	1.350	1.317	1.296	1.279	1.265	1.109	1.102	0.869	0.487	0.158	0.158
160	2.642	1.788	1.541	1.396	1.357	1.338	1.319	1.308	1.157	1.150	0.914	0.541	0.158	0.158
165	2.710	1.819	1.568	1.442	1.397	1.379	1.359	1.350	1.204	1.197	0.959	0.594	0.158	0.158
170	2.773	1.850	1.595	1.480	1.438	1.420	1.398	1.393	1.252	1.244	1.004	0.647	0.158	0.158
175	2.815	1.881	1.622	1.505	1.475	1.462	1.438	1.436	1.299	1.291	1.049	0.701	0.158	0.158
180	2.856	1.912	1.650	1.530	1.500	1.490	1.475	1.475	1.347	1.338	1.093	0.754	0.158	0.158
185	2.898	1.943	1.677	1.555	1.524	1.514	1.499	1.499	1.394	1.385	1.138	0.808	0.158	0.158
190	2.939	1.974	1.704	1.580	1.549	1.539	1.523	1.523	1.442	1.432	1.183	0.861	0.158	0.158
195	2.981	2.005	1.731	1.604	1.573	1.564	1.548	1.548	1.480	1.475	1.228	0.914	0.219	0.158
200	3.022	2.037	1.758	1.629	1.598	1.589	1.572	1.572	1.503	1.499	1.273	0.968	0.297	0.158
205	3.063	2.068	1.786	1.654	1.623	1.613	1.596	1.596	1.527	1.522	1.318	1.021	0.376	0.158
210	3.105	2.099	1.813	1.679	1.647	1.638	1.620	1.620	1.551	1.546	1.362	1.075	0.454	0.158
215	3.146	2.130	1.840	1.704	1.672	1.663	1.645	1.645	1.575	1.570	1.407	1.128	0.532	0.158
220	3.188	2.161	1.867	1.729	1.697	1.687	1.669	1.669	1.599	1.594	1.452	1.182	0.610	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: $69\% \pm 3\%$

Nullifire
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**Table 27: 4-Sided Hollow Columns
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	3.229	2.192	1.894	1.754	1.721	1.712	1.693	1.693	1.622	1.618	1.483	1.235	0.688	0.158
230	3.271	2.223	1.922	1.779	1.746	1.737	1.717	1.717	1.646	1.641	1.504	1.288	0.766	0.158
235	3.312	2.254	1.949	1.804	1.770	1.762	1.742	1.742	1.670	1.665	1.526	1.342	0.845	0.158
240	3.353	2.286	1.976	1.829	1.795	1.786	1.766	1.766	1.694	1.689	1.547	1.395	0.923	0.158
245	3.395	2.317	2.003	1.854	1.820	1.811	1.790	1.790	1.718	1.713	1.568	1.449	1.001	0.158
250	3.436	2.348	2.030	1.878	1.844	1.836	1.814	1.814	1.741	1.737	1.590	1.481	1.079	0.158
255	3.478	2.379	2.058	1.903	1.869	1.860	1.839	1.839	1.765	1.760	1.611	1.501	1.157	0.158
260	3.519	2.410	2.085	1.928	1.893	1.885	1.863	1.863	1.789	1.784	1.632	1.520	1.235	0.158
265	3.561	2.441	2.112	1.953	1.918	1.910	1.887	1.887	1.813	1.808	1.654	1.539	1.314	0.161
270	3.602	2.472	2.139	1.978	1.943	1.935	1.911	1.911	1.837	1.832	1.675	1.558	1.392	0.295
275	3.644	2.504	2.166	2.003	1.967	1.959	1.936	1.936	1.860	1.856	1.697	1.577	1.470	0.428
280	3.685	2.535	2.194	2.028	1.992	1.984	1.960	1.960	1.884	1.879	1.718	1.596	1.486	0.562
285	3.726	2.566	2.221	2.053	2.017	2.009	1.984	1.984	1.908	1.903	1.739	1.616	1.502	0.695
290	3.768	2.597	2.248	2.078	2.041	2.033	2.008	2.008	1.932	1.927	1.761	1.635	1.518	0.829
295	3.809	2.628	2.275	2.103	2.066	2.058	2.033	2.033	1.956	1.951	1.782	1.654	1.533	0.963
300	3.851	2.659	2.303	2.127	2.090	2.083	2.057	2.057	1.979	1.975	1.803	1.673	1.549	1.096
305	3.892	2.690	2.330	2.152	2.115	2.108	2.081	2.081	2.003	1.998	1.825	1.692	1.565	1.230
310	3.934	2.721	2.357	2.177	2.140	2.132	2.105	2.105	2.027	2.022	1.846	1.711	1.581	1.363
315	3.975	2.753	2.384	2.202	2.164	2.157	2.130	2.130	2.051	2.046	1.867	1.731	1.597	1.472
320	4.017	2.851	2.411	2.227	2.189	2.182	2.154	2.154	2.075	2.070	1.889	1.750	1.613	1.484
325	4.058	2.995	2.439	2.252	2.214	2.206	2.178	2.178	2.098	2.094	1.910	1.769	1.629	1.495
330	4.099	3.138	2.466	2.277	2.238	2.231	2.202	2.202	2.122	2.118	1.932	1.788	1.645	1.506
335	4.141	3.282	2.493	2.302	2.263	2.256	2.227	2.227	2.146	2.141	1.953	1.807	1.660	1.518
340	4.182	3.426	2.520	2.327	2.287	2.281	2.251	2.251	2.170	2.165	1.974	1.826	1.676	1.529
345	4.224	3.569	2.547	2.352	2.312	2.305	2.275	2.275	2.194	2.189	1.996	1.845	1.692	1.540
350	4.265	3.713	2.575	2.377	2.337	2.330	2.299	2.299	2.217	2.213	2.017	1.865	1.708	1.552
355	4.307	3.856	2.602	2.401	2.361	2.355	2.324	2.324	2.241	2.237	2.038	1.884	1.724	1.563
360	-	4.000	2.629	2.426	2.386	2.379	2.348	2.348	2.265	2.260	2.060	1.903	1.740	1.574
365	-	4.144	2.656	2.451	2.410	2.404	2.372	2.372	2.289	2.284	2.081	1.922	1.756	1.586
370	-	4.287	2.683	2.476	2.435	2.429	2.396	2.396	2.313	2.308	2.103	1.941	1.772	1.597
375	-	-	2.711	2.501	2.460	2.454	2.421	2.421	2.337	2.332	2.124	1.960	1.787	1.608
380	-	-	2.738	2.526	2.484	2.478	2.445	2.445	2.360	2.356	2.145	1.980	1.803	1.620
385	-	-	2.765	2.551	2.509	2.503	2.469	2.469	2.384	2.379	2.167	1.999	1.819	1.631
390	-	-	-	2.576	2.534	2.528	2.493	2.493	2.408	2.403	2.188	2.018	1.835	1.642
395	-	-	-	2.601	2.558	2.552	2.518	2.518	2.432	2.427	2.209	2.037	1.851	1.654
400	-	-	-	2.626	2.583	2.577	2.542	2.542	2.456	2.451	2.231	2.056	1.867	1.665
405	-	-	-	2.650	2.607	2.602	2.566	2.566	2.479	2.475	2.252	2.075	1.883	1.676

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 28: 4-Sided Hollow Columns
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.446	1.071	0.837	0.651	0.610	0.598	0.578	0.578	0.509	0.510	0.352	0.158	0.158	0.158
45	1.568	1.196	0.930	0.724	0.677	0.664	0.643	0.643	0.562	0.561	0.400	0.158	0.158	0.158
50	1.690	1.320	1.023	0.797	0.744	0.730	0.707	0.707	0.615	0.612	0.449	0.158	0.158	0.158
55	1.812	1.445	1.116	0.870	0.811	0.796	0.772	0.772	0.668	0.663	0.498	0.158	0.158	0.158
60	1.934	1.578	1.209	0.944	0.879	0.862	0.837	0.837	0.720	0.715	0.546	0.209	0.158	0.158
65	2.056	1.713	1.302	1.017	0.946	0.929	0.901	0.901	0.773	0.766	0.595	0.262	0.158	0.158
70	2.179	1.848	1.396	1.090	1.013	0.995	0.966	0.966	0.826	0.817	0.644	0.315	0.179	0.158
75	2.301	1.983	1.500	1.163	1.080	1.061	1.031	1.031	0.879	0.868	0.692	0.368	0.225	0.158
80	2.423	2.118	1.651	1.236	1.147	1.127	1.095	1.095	0.932	0.919	0.741	0.421	0.270	0.158
85	2.545	2.252	1.801	1.309	1.215	1.193	1.160	1.160	0.984	0.970	0.789	0.474	0.316	0.158
90	2.667	2.387	1.952	1.382	1.282	1.259	1.224	1.224	1.037	1.021	0.838	0.527	0.362	0.158
95	2.778	2.522	2.102	1.455	1.349	1.325	1.289	1.289	1.090	1.072	0.887	0.580	0.408	0.158
100	2.843	2.657	2.253	1.561	1.416	1.391	1.354	1.354	1.143	1.123	0.935	0.633	0.454	0.158
105	2.908	2.775	2.404	1.674	1.490	1.457	1.418	1.418	1.196	1.174	0.984	0.686	0.499	0.158
110	2.973	2.824	2.554	1.788	1.590	1.552	1.486	1.486	1.248	1.225	1.032	0.739	0.545	0.158
115	3.038	2.873	2.705	1.902	1.689	1.655	1.567	1.567	1.301	1.276	1.081	0.792	0.591	0.158
120	3.103	2.922	2.789	2.015	1.789	1.758	1.648	1.648	1.354	1.327	1.130	0.845	0.637	0.158
125	3.168	2.971	2.830	2.129	1.888	1.861	1.729	1.729	1.407	1.378	1.178	0.898	0.682	0.158
130	3.233	3.020	2.871	2.242	1.988	1.963	1.810	1.810	1.459	1.429	1.227	0.951	0.728	0.200
135	3.298	3.069	2.911	2.356	2.088	2.066	1.891	1.891	1.507	1.479	1.276	1.004	0.774	0.257
140	3.363	3.118	2.952	2.470	2.187	2.169	1.972	1.972	1.553	1.524	1.324	1.057	0.820	0.315
145	3.428	3.167	2.993	2.583	2.287	2.272	2.053	2.053	1.599	1.568	1.373	1.110	0.866	0.373
150	3.493	3.216	3.033	2.697	2.386	2.374	2.134	2.134	1.645	1.613	1.421	1.163	0.911	0.431
155	3.558	3.265	3.074	2.780	2.486	2.477	2.215	2.215	1.690	1.658	1.470	1.216	0.957	0.488
160	3.623	3.314	3.114	2.817	2.586	2.580	2.296	2.296	1.736	1.702	1.499	1.269	1.003	0.546
165	3.688	3.363	3.155	2.854	2.685	2.683	2.377	2.377	1.782	1.747	1.528	1.322	1.049	0.604
170	3.753	3.412	3.196	2.891	2.772	2.772	2.457	2.457	1.828	1.792	1.556	1.375	1.095	0.662
175	3.818	3.461	3.236	2.929	2.808	2.808	2.538	2.538	1.874	1.836	1.585	1.428	1.140	0.719
180	3.883	3.510	3.277	2.966	2.844	2.844	2.619	2.619	1.920	1.881	1.614	1.475	1.186	0.777
185	3.948	3.559	3.318	3.003	2.879	2.879	2.700	2.700	1.966	1.925	1.643	1.503	1.232	0.835
190	4.013	3.608	3.358	3.040	2.915	2.915	2.773	2.773	2.012	1.970	1.671	1.530	1.278	0.893
195	4.078	3.657	3.399	3.077	2.951	2.951	2.812	2.812	2.058	2.015	1.700	1.558	1.323	0.950
200	4.143	3.706	3.439	3.115	2.986	2.986	2.851	2.851	2.104	2.059	1.729	1.585	1.369	1.008
205	4.208	3.755	3.480	3.152	3.022	3.022	2.890	2.890	2.150	2.104	1.758	1.613	1.415	1.066
210	4.273	3.804	3.521	3.189	3.058	3.058	2.929	2.929	2.196	2.149	1.787	1.640	1.461	1.124
215	-	3.853	3.561	3.226	3.093	3.093	2.968	2.968	2.241	2.193	1.815	1.668	1.490	1.181
220	-	3.902	3.602	3.263	3.129	3.129	3.007	3.007	2.287	2.238	1.844	1.695	1.515	1.239

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 28: 4-Sided Hollow Columns
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	3.951	3.643	3.301	3.165	3.165	3.046	3.046	2.333	2.283	1.873	1.722	1.539	1.297
230	-	4.000	3.683	3.338	3.200	3.200	3.085	3.085	2.379	2.327	1.902	1.750	1.564	1.355
235	-	4.049	3.724	3.375	3.236	3.236	3.125	3.125	2.425	2.372	1.930	1.777	1.589	1.412
240	-	4.098	3.764	3.412	3.272	3.272	3.164	3.164	2.471	2.417	1.959	1.805	1.614	1.470
245	-	4.147	3.805	3.449	3.308	3.308	3.203	3.203	2.517	2.461	1.988	1.832	1.639	1.489
250	-	4.196	3.846	3.487	3.343	3.343	3.242	3.242	2.563	2.506	2.017	1.860	1.664	1.508
255	-	4.245	3.886	3.524	3.379	3.379	3.281	3.281	2.609	2.551	2.046	1.887	1.688	1.527
260	-	4.294	3.927	3.561	3.415	3.415	3.320	3.320	2.655	2.595	2.074	1.914	1.713	1.546
265	-	-	3.968	3.598	3.450	3.450	3.359	3.359	2.701	2.640	2.103	1.942	1.738	1.565
270	-	-	4.008	3.635	3.486	3.486	3.398	3.398	2.747	2.685	2.132	1.969	1.763	1.584
275	-	-	4.049	3.673	3.522	3.522	3.437	3.437	2.793	2.729	2.161	1.997	1.788	1.603
280	-	-	4.089	3.710	3.557	3.557	3.476	3.476	2.838	2.781	2.189	2.024	1.812	1.621
285	-	-	4.130	3.747	3.593	3.593	3.515	3.515	2.884	2.861	2.218	2.052	1.837	1.640
290	-	-	4.171	3.784	3.629	3.629	3.554	3.554	2.930	2.930	2.247	2.079	1.862	1.659
295	-	-	4.211	3.821	3.664	3.664	3.594	3.594	2.976	2.976	2.276	2.107	1.887	1.678
300	-	-	4.252	3.859	3.700	3.700	3.633	3.633	3.022	3.022	2.305	2.134	1.912	1.697
305	-	-	4.293	3.896	3.736	3.736	3.672	3.672	3.068	3.068	2.333	2.161	1.936	1.716
310	-	-	-	3.933	3.772	3.772	3.711	3.711	3.114	3.114	2.362	2.189	1.961	1.735
315	-	-	-	3.970	3.807	3.807	3.750	3.750	3.160	3.160	2.391	2.216	1.986	1.754
320	-	-	-	4.007	3.843	3.843	3.789	3.789	3.206	3.206	2.420	2.244	2.011	1.773
325	-	-	-	4.045	3.879	3.879	3.828	3.828	3.252	3.252	2.448	2.271	2.036	1.792
330	-	-	-	4.082	3.914	3.914	3.867	3.867	3.298	3.298	2.477	2.299	2.060	1.811
335	-	-	-	4.119	3.950	3.950	3.906	3.906	3.344	3.344	2.506	2.326	2.085	1.830
340	-	-	-	4.156	3.986	3.986	3.945	3.945	3.390	3.390	2.535	2.353	2.110	1.849
345	-	-	-	4.193	4.021	4.021	3.984	3.984	3.435	3.435	2.564	2.381	2.135	1.868
350	-	-	-	4.231	4.057	4.057	4.023	4.023	3.481	3.481	2.592	2.408	2.160	1.887
355	-	-	-	4.268	4.093	4.093	4.063	4.063	3.527	3.527	2.621	2.436	2.184	1.905
360	-	-	-	4.305	4.128	4.128	4.102	4.102	3.573	3.573	2.650	2.463	2.209	1.924
365	-	-	-	-	4.164	4.164	4.141	4.141	3.619	3.619	2.679	2.491	2.234	1.943
370	-	-	-	-	4.200	4.200	4.180	4.180	3.665	3.665	2.707	2.518	2.259	1.962
375	-	-	-	-	4.236	4.236	4.219	4.219	3.711	3.711	2.735	2.546	2.284	1.981
380	-	-	-	-	4.271	4.271	4.258	4.258	3.757	3.757	2.763	2.573	2.309	2.000
385	-	-	-	-	4.307	4.307	4.297	4.297	3.803	3.803	2.791	2.600	2.333	2.019
390	-	-	-	-	-	-	-	-	-	-	-	2.628	2.358	2.038
395	-	-	-	-	-	-	-	-	-	-	-	2.655	2.383	2.057
400	-	-	-	-	-	-	-	-	-	-	-	2.683	2.408	2.076
405	-	-	-	-	-	-	-	-	-	-	-	2.710	2.433	2.095

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 29: 4-Sided Hollow Columns
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	-	0.837	1.181	0.995	0.940	0.929	0.904	0.904	0.815	0.817	0.643	0.522	0.388	0.158
45	-	0.930	1.387	1.120	1.060	1.047	1.017	1.017	0.911	0.910	0.717	0.574	0.435	0.158
50	-	1.023	1.578	1.245	1.181	1.164	1.130	1.130	1.008	1.004	0.790	0.626	0.481	0.158
55	-	1.116	1.758	1.370	1.301	1.282	1.244	1.244	1.104	1.097	0.864	0.678	0.528	0.158
60	-	1.209	1.938	1.506	1.422	1.399	1.357	1.357	1.200	1.190	0.938	0.730	0.575	0.208
65	-	1.302	2.118	1.686	1.581	1.546	1.470	1.470	1.297	1.283	1.012	0.782	0.621	0.259
70	-	1.396	2.297	1.866	1.766	1.737	1.660	1.660	1.393	1.377	1.086	0.834	0.668	0.310
75	-	1.500	2.477	2.046	1.951	1.927	1.851	1.851	1.508	1.470	1.160	0.886	0.714	0.361
80	-	1.651	2.657	2.225	2.136	2.118	2.041	2.041	1.699	1.660	1.234	0.939	0.761	0.412
85	-	1.801	2.789	2.405	2.321	2.308	2.232	2.232	1.889	1.851	1.307	0.991	0.808	0.463
90	-	1.952	2.849	2.585	2.506	2.498	2.422	2.422	2.079	2.041	1.381	1.043	0.854	0.514
95	-	2.102	2.909	2.765	2.691	2.689	2.613	2.613	2.270	2.232	1.455	1.095	0.901	0.564
100	-	2.253	2.969	2.817	2.794	2.794	2.774	2.774	2.460	2.422	1.627	1.147	0.948	0.615
105	-	2.404	3.029	2.869	2.842	2.842	2.821	2.821	2.651	2.613	1.823	1.199	0.994	0.666
110	-	2.554	3.089	2.921	2.890	2.889	2.868	2.868	2.782	2.774	2.019	1.251	1.041	0.717
115	-	2.705	3.149	2.973	2.939	2.937	2.915	2.915	2.825	2.816	2.216	1.303	1.088	0.768
120	-	2.789	3.209	3.024	2.987	2.985	2.961	2.961	2.867	2.859	2.412	1.355	1.134	0.819
125	-	2.830	3.269	3.076	3.035	3.033	3.008	3.008	2.910	2.902	2.608	1.407	1.181	0.870
130	-	2.871	3.329	3.128	3.083	3.081	3.055	3.055	2.952	2.945	2.773	1.460	1.227	0.921
135	-	2.911	3.388	3.180	3.132	3.129	3.102	3.102	2.995	2.988	2.810	1.528	1.274	0.971
140	-	2.952	3.448	3.232	3.180	3.177	3.149	3.149	3.038	3.031	2.848	1.601	1.321	1.022
145	-	2.993	3.508	3.284	3.228	3.225	3.195	3.195	3.080	3.074	2.885	1.674	1.367	1.073
150	-	3.033	3.568	3.336	3.276	3.272	3.242	3.242	3.123	3.117	2.923	1.746	1.414	1.124
155	-	3.074	3.628	3.388	3.325	3.320	3.289	3.289	3.165	3.160	2.961	1.819	1.461	1.175
160	-	3.114	3.688	3.440	3.373	3.368	3.336	3.336	3.208	3.202	2.998	1.892	1.495	1.226
165	-	3.155	3.748	3.491	3.421	3.416	3.383	3.383	3.250	3.245	3.036	1.965	1.527	1.277
170	-	3.196	3.808	3.543	3.469	3.464	3.429	3.429	3.293	3.288	3.074	2.037	1.559	1.328
175	-	3.236	3.868	3.595	3.518	3.512	3.476	3.476	3.336	3.331	3.111	2.110	1.591	1.378
180	-	3.277	3.928	3.647	3.566	3.560	3.523	3.523	3.378	3.374	3.149	2.183	1.622	1.429
185	-	3.318	3.988	3.699	3.614	3.607	3.570	3.570	3.421	3.417	3.187	2.256	1.654	1.475
190	-	3.358	4.048	3.751	3.662	3.655	3.616	3.616	3.463	3.460	3.224	2.328	1.686	1.501
195	-	3.399	4.108	3.803	3.711	3.703	3.663	3.663	3.506	3.503	3.262	2.401	1.718	1.527
200	-	3.439	4.168	3.855	3.759	3.751	3.710	3.710	3.549	3.545	3.300	2.474	1.749	1.553
205	-	3.480	4.228	3.907	3.807	3.799	3.757	3.757	3.591	3.588	3.337	2.547	1.781	1.579
210	-	3.521	4.288	3.958	3.855	3.847	3.804	3.804	3.634	3.631	3.375	2.619	1.813	1.605
215	-	-	-	4.010	3.904	3.895	3.850	3.850	3.676	3.674	3.413	2.692	1.845	1.631
220	-	-	-	4.062	3.952	3.943	3.897	3.897	3.719	3.717	3.450	2.765	1.876	1.656

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 29: 4-Sided Hollow Columns
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	4.114	4.000	3.990	3.944	3.944	3.762	3.760	3.488	2.813	1.908	1.682
230	-	-	-	4.166	4.048	4.038	3.991	3.991	3.804	3.803	3.526	2.861	1.940	1.708
235	-	-	-	4.218	4.096	4.086	4.037	4.037	3.847	3.846	3.563	2.910	1.971	1.734
240	-	-	-	4.270	4.145	4.134	4.084	4.084	3.889	3.889	3.601	2.958	2.003	1.760
245	-	-	-	-	4.193	4.182	4.131	4.131	3.932	3.931	3.639	3.006	2.035	1.786
250	-	-	-	-	4.241	4.230	4.178	4.178	3.974	3.974	3.676	3.054	2.067	1.812
255	-	-	-	-	4.289	4.278	4.225	4.225	4.017	4.017	3.714	3.103	2.098	1.838
260	-	-	-	-	-	-	4.271	4.271	4.060	4.060	3.751	3.151	2.130	1.864
265	-	-	-	-	-	-	4.318	4.318	4.102	4.103	3.789	3.199	2.162	1.890
270	-	-	-	-	-	-	-	-	4.145	4.146	3.827	3.247	2.194	1.915
275	-	-	-	-	-	-	-	-	4.187	4.189	3.864	3.296	2.225	1.941
280	-	-	-	-	-	-	-	-	4.230	4.232	3.902	3.344	2.257	1.967
285	-	-	-	-	-	-	-	-	4.273	4.274	3.940	3.392	2.289	1.993
290	-	-	-	-	-	-	-	-	4.315	4.317	3.977	3.440	2.321	2.019
295	-	-	-	-	-	-	-	-	-	-	4.015	3.489	2.352	2.045
300	-	-	-	-	-	-	-	-	-	-	4.053	3.537	2.384	2.071
305	-	-	-	-	-	-	-	-	-	-	4.090	3.585	2.416	2.097
310	-	-	-	-	-	-	-	-	-	-	4.128	3.633	2.448	2.123
315	-	-	-	-	-	-	-	-	-	-	4.166	3.682	2.479	2.149
320	-	-	-	-	-	-	-	-	-	-	4.203	3.730	2.511	2.174
325	-	-	-	-	-	-	-	-	-	-	4.241	3.778	2.543	2.200
330	-	-	-	-	-	-	-	-	-	-	4.279	3.826	2.575	2.226
335	-	-	-	-	-	-	-	-	-	-	4.316	3.875	2.606	2.252
340	-	-	-	-	-	-	-	-	-	-	-	3.923	2.638	2.278
345	-	-	-	-	-	-	-	-	-	-	-	3.971	2.670	2.304
350	-	-	-	-	-	-	-	-	-	-	-	4.019	2.702	2.330
355	-	-	-	-	-	-	-	-	-	-	-	4.068	2.733	2.356
360	-	-	-	-	-	-	-	-	-	-	-	4.116	2.765	2.382
365	-	-	-	-	-	-	-	-	-	-	-	4.164	3.537	2.408
370	-	-	-	-	-	-	-	-	-	-	-	4.212	4.212	2.433
375	-	-	-	-	-	-	-	-	-	-	-	4.261	4.261	2.459
380	-	-	-	-	-	-	-	-	-	-	-	4.309	4.309	2.485
385	-	-	-	-	-	-	-	-	-	-	-	-	-	2.511
390	-	-	-	-	-	-	-	-	-	-	-	-	-	2.537
395	-	-	-	-	-	-	-	-	-	-	-	-	-	2.563
400	-	-	-	-	-	-	-	-	-	-	-	-	-	2.589
405	-	-	-	-	-	-	-	-	-	-	-	-	-	2.615

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 30: 4-Sided Hollow Columns
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	-	-	2.616	1.520	1.237	1.225	1.195	1.195	1.117	1.117	0.924	0.778	0.637	0.483
45	-	-	2.684	1.674	1.470	1.470	1.423	1.423	1.264	1.264	1.037	0.866	0.702	0.530
50	-	-	2.751	2.015	1.830	1.830	1.743	1.743	1.411	1.411	1.151	0.955	0.767	0.577
55	-	-	2.819	2.356	2.189	2.189	2.083	2.083	1.655	1.647	1.265	1.044	0.832	0.625
60	-	-	2.887	2.697	2.549	2.549	2.424	2.424	1.963	1.941	1.379	1.133	0.897	0.672
65	-	-	2.955	2.814	2.789	2.788	2.765	2.765	2.272	2.235	1.520	1.221	0.962	0.720
70	-	-	3.023	2.876	2.848	2.847	2.823	2.823	2.580	2.530	1.769	1.310	1.027	0.767
75	-	-	3.091	2.938	2.908	2.905	2.880	2.880	2.787	2.776	2.018	1.399	1.093	0.815
80	-	-	3.159	3.000	2.967	2.963	2.938	2.938	2.842	2.831	2.267	1.518	1.158	0.862
85	-	-	3.226	3.061	3.026	3.021	2.996	2.996	2.896	2.886	2.516	1.758	1.223	0.910
90	-	-	3.294	3.123	3.086	3.080	3.054	3.054	2.951	2.941	2.765	1.998	1.288	0.957
95	-	-	3.362	3.185	3.145	3.138	3.111	3.111	3.005	2.997	2.815	2.237	1.353	1.005
100	-	-	3.430	3.247	3.204	3.196	3.169	3.169	3.060	3.052	2.865	2.477	1.418	1.052
105	-	-	3.498	3.308	3.264	3.254	3.227	3.227	3.115	3.107	2.916	2.717	1.510	1.100
110	-	-	3.566	3.370	3.323	3.313	3.284	3.284	3.169	3.162	2.966	2.800	1.713	1.147
115	-	-	3.634	3.432	3.383	3.371	3.342	3.342	3.224	3.217	3.016	2.843	1.915	1.195
120	-	-	3.701	3.494	3.442	3.429	3.400	3.400	3.279	3.272	3.066	2.886	2.118	1.242
125	-	-	3.769	3.555	3.501	3.487	3.458	3.458	3.333	3.327	3.116	2.929	2.320	1.290
130	-	-	3.837	3.617	3.561	3.546	3.515	3.515	3.388	3.383	3.167	2.972	2.522	1.337
135	-	-	3.905	3.679	3.620	3.604	3.573	3.573	3.443	3.438	3.217	3.015	2.725	1.385
140	-	-	3.973	3.741	3.679	3.662	3.631	3.631	3.497	3.493	3.267	3.059	2.795	1.432
145	-	-	4.041	3.802	3.739	3.720	3.688	3.688	3.552	3.548	3.317	3.102	2.832	1.480
150	-	-	4.109	3.864	3.798	3.779	3.746	3.746	3.607	3.603	3.367	3.145	2.870	1.532
155	-	-	4.176	3.926	3.858	3.837	3.804	3.804	3.661	3.658	3.418	3.188	2.907	1.583
160	-	-	4.244	3.988	3.917	3.895	3.861	3.861	3.716	3.713	3.468	3.231	2.945	1.634
165	-	-	4.312	4.049	3.976	3.953	3.919	3.919	3.770	3.768	3.518	3.275	2.982	1.686
170	-	-	-	4.111	4.036	4.012	3.977	3.977	3.825	3.824	3.568	3.318	3.019	1.737
175	-	-	-	4.173	4.095	4.070	4.035	4.035	3.880	3.879	3.618	3.361	3.057	1.789
180	-	-	-	4.235	4.154	4.128	4.092	4.092	3.934	3.934	3.669	3.404	3.094	1.840
185	-	-	-	4.296	4.214	4.186	4.150	4.150	3.989	3.989	3.719	3.447	3.132	1.891
190	-	-	-	-	4.273	4.245	4.208	4.208	4.044	4.044	3.769	3.490	3.169	1.943
195	-	-	-	-	-	4.303	4.265	4.265	4.098	4.099	3.819	3.534	3.207	1.994
200	-	-	-	-	-	-	-	-	4.153	4.154	3.869	3.577	3.244	2.046
205	-	-	-	-	-	-	-	-	4.208	4.210	3.920	3.620	3.281	2.097
210	-	-	-	-	-	-	-	-	4.262	4.265	3.970	3.663	3.319	2.148
215	-	-	-	-	-	-	-	-	4.317	4.320	4.020	3.706	3.356	2.200
220	-	-	-	-	-	-	-	-	-	-	4.070	3.750	3.394	2.251

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 30: 4-Sided Hollow Columns
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	-	-	-	-	-	-	-	4.120	3.793	3.431	2.303
230	-	-	-	-	-	-	-	-	-	-	4.171	3.836	3.469	2.354
235	-	-	-	-	-	-	-	-	-	-	4.221	3.879	3.506	2.405
240	-	-	-	-	-	-	-	-	-	-	4.271	3.922	3.543	2.457
245	-	-	-	-	-	-	-	-	-	-	-	3.965	3.581	2.508
250	-	-	-	-	-	-	-	-	-	-	-	4.009	3.618	2.559
255	-	-	-	-	-	-	-	-	-	-	-	4.052	3.656	2.611
260	-	-	-	-	-	-	-	-	-	-	-	4.095	3.693	2.662
265	-	-	-	-	-	-	-	-	-	-	-	4.138	3.731	2.714
270	-	-	-	-	-	-	-	-	-	-	-	4.181	3.768	2.765
275	-	-	-	-	-	-	-	-	-	-	-	4.225	3.805	2.837
280	-	-	-	-	-	-	-	-	-	-	-	4.268	3.843	2.909
285	-	-	-	-	-	-	-	-	-	-	-	4.311	3.880	2.980
290	-	-	-	-	-	-	-	-	-	-	-	-	3.918	3.052
295	-	-	-	-	-	-	-	-	-	-	-	-	3.955	3.124
300	-	-	-	-	-	-	-	-	-	-	-	-	3.993	3.196
305	-	-	-	-	-	-	-	-	-	-	-	-	4.030	3.268
310	-	-	-	-	-	-	-	-	-	-	-	-	4.067	3.339
315	-	-	-	-	-	-	-	-	-	-	-	-	4.105	3.411
320	-	-	-	-	-	-	-	-	-	-	-	-	4.142	3.483
325	-	-	-	-	-	-	-	-	-	-	-	-	4.180	3.555
330	-	-	-	-	-	-	-	-	-	-	-	-	4.217	3.627
335	-	-	-	-	-	-	-	-	-	-	-	-	4.254	3.698
340	-	-	-	-	-	-	-	-	-	-	-	-	4.292	3.770
345	-	-	-	-	-	-	-	-	-	-	-	-	-	3.842
350	-	-	-	-	-	-	-	-	-	-	-	-	-	3.914
355	-	-	-	-	-	-	-	-	-	-	-	-	-	3.986
360	-	-	-	-	-	-	-	-	-	-	-	-	-	4.057
365	-	-	-	-	-	-	-	-	-	-	-	-	-	4.129
370	-	-	-	-	-	-	-	-	-	-	-	-	-	4.201
375	-	-	-	-	-	-	-	-	-	-	-	-	-	4.273
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 3I: 4-Sided Hollow Columns
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	-	-	4.000	2.720	2.723	2.725	2.046	2.046	1.470	1.470	1.167	1.032	0.876	0.707
45	-	-	4.000	2.795	2.793	2.792	2.765	2.765	2.189	2.189	1.383	1.161	0.975	0.779
50	-	-	4.000	2.870	2.863	2.859	2.833	2.833	2.778	2.778	1.859	1.289	1.074	0.851
55	-	-	4.000	2.946	2.933	2.926	2.901	2.901	2.841	2.841	2.506	1.418	1.173	0.923
60	-	-	4.000	3.021	3.004	2.993	2.969	2.969	2.904	2.904	2.799	1.729	1.272	0.995
65	-	-	4.000	3.096	3.074	3.060	3.036	3.036	2.967	2.967	2.855	2.161	1.371	1.067
70	-	-	4.000	3.172	3.144	3.127	3.104	3.104	3.030	3.030	2.911	2.592	1.470	1.139
75	-	-	4.000	3.247	3.214	3.195	3.172	3.172	3.093	3.093	2.967	2.796	1.764	1.211
80	-	-	4.000	3.322	3.284	3.262	3.240	3.240	3.156	3.156	3.023	2.847	2.059	1.283
85	-	-	4.000	3.398	3.354	3.329	3.308	3.308	3.219	3.219	3.079	2.899	2.353	1.355
90	-	-	4.000	3.473	3.425	3.396	3.376	3.376	3.282	3.282	3.136	2.950	2.647	1.427
95	-	-	4.000	3.548	3.495	3.463	3.444	3.444	3.345	3.345	3.192	3.002	2.793	1.578
100	-	-	-	3.623	3.565	3.530	3.511	3.511	3.408	3.408	3.248	3.053	2.840	1.848
105	-	-	-	3.699	3.635	3.597	3.579	3.579	3.471	3.471	3.304	3.105	2.888	2.118
110	-	-	-	3.774	3.705	3.664	3.647	3.647	3.534	3.534	3.360	3.156	2.935	2.387
115	-	-	-	3.849	3.775	3.732	3.715	3.715	3.597	3.597	3.416	3.208	2.982	2.657
120	-	-	-	3.925	3.846	3.799	3.783	3.783	3.660	3.660	3.472	3.259	3.029	2.788
125	-	-	-	4.000	3.916	3.866	3.851	3.851	3.723	3.723	3.528	3.310	3.076	2.827
130	-	-	-	4.075	3.986	3.933	3.919	3.919	3.786	3.786	3.585	3.362	3.123	2.865
135	-	-	-	4.151	4.056	4.000	3.986	3.986	3.849	3.849	3.641	3.413	3.170	2.904
140	-	-	-	4.226	4.126	4.067	4.054	4.054	3.912	3.912	3.697	3.465	3.218	2.943
145	-	-	-	4.301	4.196	4.134	4.122	4.122	3.975	3.975	3.753	3.516	3.265	2.981
150	-	-	-	-	4.267	4.201	4.190	4.190	4.038	4.038	3.809	3.568	3.312	3.020
155	-	-	-	-	-	4.268	4.258	4.258	4.101	4.101	3.865	3.619	3.359	3.058
160	-	-	-	-	-	-	-	-	4.164	4.164	3.921	3.671	3.406	3.097
165	-	-	-	-	-	-	-	-	4.227	4.227	3.978	3.722	3.453	3.136
170	-	-	-	-	-	-	-	-	4.290	4.290	4.034	3.774	3.500	3.174
175	-	-	-	-	-	-	-	-	-	-	4.090	3.825	3.547	3.213
180	-	-	-	-	-	-	-	-	-	-	4.146	3.877	3.595	3.251
185	-	-	-	-	-	-	-	-	-	-	4.202	3.928	3.642	3.290
190	-	-	-	-	-	-	-	-	-	-	4.258	3.979	3.689	3.328
195	-	-	-	-	-	-	-	-	-	-	4.314	4.031	3.736	3.367
200	-	-	-	-	-	-	-	-	-	-	-	4.082	3.783	3.406
205	-	-	-	-	-	-	-	-	-	-	-	4.134	3.830	3.444
210	-	-	-	-	-	-	-	-	-	-	-	4.185	3.877	3.483
215	-	-	-	-	-	-	-	-	-	-	-	4.237	3.925	3.521
220	-	-	-	-	-	-	-	-	-	-	-	4.288	3.972	3.560

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 3I: 4-Sided Hollow Columns
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	-	-	-	-	-	-	-	-	-	4.019	3.599
230	-	-	-	-	-	-	-	-	-	-	-	-	4.066	3.637
235	-	-	-	-	-	-	-	-	-	-	-	-	4.113	3.676
240	-	-	-	-	-	-	-	-	-	-	-	-	4.160	3.714
245	-	-	-	-	-	-	-	-	-	-	-	-	4.207	3.753
250	-	-	-	-	-	-	-	-	-	-	-	-	4.255	3.792
255	-	-	-	-	-	-	-	-	-	-	-	-	4.302	3.830
260	-	-	-	-	-	-	-	-	-	-	-	-	-	3.869
265	-	-	-	-	-	-	-	-	-	-	-	-	-	3.907
270	-	-	-	-	-	-	-	-	-	-	-	-	-	3.946
275	-	-	-	-	-	-	-	-	-	-	-	-	-	3.985
280	-	-	-	-	-	-	-	-	-	-	-	-	-	4.023
285	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062
290	-	-	-	-	-	-	-	-	-	-	-	-	-	4.100
295	-	-	-	-	-	-	-	-	-	-	-	-	-	4.139
300	-	-	-	-	-	-	-	-	-	-	-	-	-	4.178
305	-	-	-	-	-	-	-	-	-	-	-	-	-	4.216
310	-	-	-	-	-	-	-	-	-	-	-	-	-	4.255
315	-	-	-	-	-	-	-	-	-	-	-	-	-	4.293
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 32: 4-Sided Hollow Beams
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	0.759	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
45	0.770	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
50	0.781	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
55	0.791	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
60	0.802	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
65	0.813	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
70	0.824	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
75	0.834	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
80	0.845	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
85	0.856	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
90	0.866	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
95	0.877	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
100	0.888	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
105	0.898	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
110	0.909	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
115	0.920	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
120	0.931	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
125	0.941	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
130	0.952	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
135	0.963	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
140	0.973	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
145	0.984	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
150	0.995	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
155	1.006	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
160	1.016	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
165	1.027	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
170	1.038	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
175	1.048	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
180	1.059	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
185	1.070	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
190	1.080	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
195	1.091	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
200	1.102	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
205	1.113	0.164	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
210	1.123	0.194	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
215	1.134	0.223	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
220	1.145	0.253	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 32: 4-Sided Hollow Beams
Fire Resistance Period: 15 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	1.155	0.283	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
230	1.166	0.312	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
235	1.177	0.342	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
240	1.187	0.371	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
245	1.198	0.401	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
250	1.209	0.430	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
255	1.220	0.460	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
260	1.230	0.489	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
265	1.241	0.519	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
270	1.252	0.548	0.164	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
275	1.262	0.578	0.194	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
280	1.273	0.607	0.225	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
285	1.284	0.637	0.255	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
290	1.294	0.667	0.286	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
295	1.305	0.696	0.316	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
300	1.316	0.726	0.347	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
305	1.327	0.755	0.377	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
310	1.337	0.785	0.408	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
315	1.348	0.814	0.438	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
320	1.359	0.844	0.469	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
325	1.369	0.873	0.499	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
330	1.380	0.903	0.530	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
335	1.391	0.932	0.560	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
340	1.402	0.962	0.591	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
345	1.412	0.991	0.621	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
350	1.423	1.021	0.652	0.188	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
355	1.434	1.051	0.682	0.222	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
360	1.444	1.080	0.713	0.256	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
365	1.455	1.110	0.744	0.290	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
370	1.466	1.139	0.774	0.324	0.181	0.175	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
375	1.476	1.169	0.805	0.358	0.216	0.207	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
380	1.487	1.198	0.835	0.391	0.250	0.239	0.168	0.168	0.158	0.158	0.158	0.158	0.158	0.158
385	1.498	1.228	0.866	0.425	0.284	0.271	0.201	0.201	0.158	0.158	0.158	0.158	0.158	0.158
390	1.509	1.257	0.896	0.459	0.319	0.302	0.234	0.234	0.158	0.158	0.158	0.158	0.158	0.158
395	1.519	1.287	0.927	0.493	0.353	0.334	0.268	0.268	0.158	0.158	0.158	0.158	0.158	0.158
400	1.530	1.316	0.957	0.527	0.388	0.366	0.301	0.301	0.158	0.158	0.158	0.158	0.158	0.158
405	1.541	1.346	0.988	0.561	0.422	0.397	0.334	0.334	0.158	0.158	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 33: 4-Sided Hollow Beams
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.323	0.211	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
45	1.323	0.248	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
50	1.323	0.286	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
55	1.323	0.324	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
60	1.323	0.361	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
65	1.323	0.399	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
70	1.323	0.437	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
75	1.323	0.475	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
80	1.323	0.512	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
85	1.323	0.550	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
90	1.323	0.588	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
95	1.323	0.625	0.188	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
100	1.323	0.663	0.233	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
105	1.323	0.701	0.278	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
110	1.323	0.739	0.323	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
115	1.323	0.776	0.369	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
120	1.323	0.814	0.414	0.179	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
125	1.323	0.852	0.459	0.225	0.170	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158
130	1.323	0.889	0.504	0.270	0.215	0.179	0.158	0.161	0.158	0.158	0.158	0.158	0.158	0.158
135	1.323	0.927	0.549	0.316	0.261	0.224	0.197	0.206	0.158	0.158	0.158	0.158	0.158	0.158
140	1.323	0.965	0.594	0.362	0.307	0.270	0.243	0.252	0.158	0.158	0.158	0.158	0.158	0.158
145	1.339	1.002	0.639	0.408	0.353	0.315	0.289	0.298	0.158	0.158	0.158	0.158	0.158	0.158
150	1.361	1.040	0.685	0.454	0.399	0.361	0.336	0.344	0.158	0.158	0.158	0.158	0.158	0.158
155	1.383	1.078	0.730	0.499	0.444	0.406	0.382	0.389	0.158	0.158	0.158	0.158	0.158	0.158
160	1.405	1.116	0.775	0.545	0.490	0.452	0.428	0.435	0.198	0.158	0.158	0.158	0.158	0.158
165	1.426	1.153	0.820	0.591	0.536	0.497	0.474	0.481	0.248	0.209	0.158	0.158	0.158	0.158
170	1.448	1.191	0.865	0.637	0.582	0.543	0.520	0.527	0.298	0.260	0.158	0.158	0.158	0.158
175	1.470	1.229	0.910	0.682	0.628	0.588	0.566	0.573	0.348	0.312	0.158	0.158	0.158	0.158
180	1.492	1.266	0.955	0.728	0.673	0.634	0.612	0.618	0.398	0.364	0.158	0.158	0.158	0.158
185	1.514	1.304	1.001	0.774	0.719	0.679	0.658	0.664	0.448	0.415	0.158	0.158	0.158	0.158
190	1.535	1.342	1.046	0.820	0.765	0.724	0.704	0.710	0.498	0.467	0.158	0.158	0.158	0.158
195	1.557	1.380	1.091	0.866	0.811	0.770	0.751	0.756	0.549	0.519	0.158	0.158	0.158	0.158
200	1.579	1.417	1.136	0.911	0.856	0.815	0.797	0.802	0.599	0.571	0.158	0.158	0.158	0.158
205	1.601	1.455	1.181	0.957	0.902	0.861	0.843	0.847	0.649	0.622	0.158	0.158	0.158	0.158
210	1.623	1.482	1.226	1.003	0.948	0.906	0.889	0.893	0.699	0.674	0.158	0.158	0.158	0.158
215	1.644	1.501	1.271	1.049	0.994	0.952	0.935	0.939	0.749	0.726	0.158	0.158	0.158	0.158
220	1.666	1.521	1.317	1.095	1.040	0.997	0.981	0.985	0.799	0.777	0.158	0.158	0.158	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 33: 4-Sided Hollow Beams
Fire Resistance Period: 30 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	1.688	1.541	1.362	1.140	1.085	1.043	1.027	1.030	0.849	0.829	0.158	0.158	0.158	0.158
230	1.710	1.561	1.407	1.186	1.131	1.088	1.073	1.076	0.899	0.881	0.203	0.158	0.158	0.158
235	1.732	1.580	1.452	1.232	1.177	1.134	1.120	1.122	0.949	0.932	0.278	0.158	0.158	0.158
240	1.753	1.600	1.481	1.278	1.223	1.179	1.166	1.168	0.999	0.984	0.354	0.158	0.158	0.158
245	1.775	1.620	1.499	1.323	1.269	1.225	1.212	1.214	1.049	1.036	0.429	0.158	0.158	0.158
250	1.797	1.639	1.518	1.369	1.314	1.270	1.258	1.259	1.099	1.087	0.505	0.158	0.158	0.158
255	1.819	1.659	1.536	1.415	1.360	1.315	1.304	1.305	1.150	1.139	0.580	0.202	0.158	0.158
260	1.841	1.679	1.554	1.461	1.406	1.361	1.350	1.351	1.200	1.191	0.656	0.270	0.158	0.158
265	1.862	1.698	1.572	1.483	1.452	1.406	1.396	1.397	1.250	1.243	0.731	0.338	0.158	0.158
270	1.884	1.718	1.591	1.499	1.479	1.452	1.442	1.443	1.300	1.294	0.806	0.406	0.158	0.158
275	1.906	1.738	1.609	1.515	1.495	1.479	1.476	1.476	1.350	1.346	0.882	0.474	0.158	0.158
280	1.928	1.757	1.627	1.531	1.511	1.495	1.491	1.491	1.400	1.398	0.957	0.543	0.158	0.158
285	1.950	1.777	1.646	1.547	1.526	1.511	1.507	1.507	1.450	1.449	1.033	0.611	0.158	0.158
290	1.971	1.797	1.664	1.563	1.542	1.527	1.522	1.522	1.479	1.479	1.108	0.679	0.158	0.158
295	1.993	1.816	1.682	1.579	1.557	1.542	1.537	1.537	1.493	1.493	1.183	0.747	0.158	0.158
300	2.015	1.836	1.700	1.595	1.573	1.558	1.552	1.552	1.508	1.507	1.259	0.815	0.158	0.158
305	2.037	1.856	1.719	1.611	1.589	1.574	1.568	1.568	1.522	1.522	1.334	0.884	0.158	0.158
310	2.059	1.875	1.737	1.627	1.604	1.589	1.583	1.583	1.536	1.536	1.410	0.952	0.158	0.158
315	2.080	1.895	1.755	1.643	1.620	1.605	1.598	1.598	1.551	1.551	1.472	1.020	0.158	0.158
320	2.102	1.915	1.774	1.659	1.635	1.621	1.613	1.613	1.565	1.565	1.484	1.088	0.158	0.158
325	2.124	1.934	1.792	1.675	1.651	1.637	1.628	1.628	1.580	1.580	1.496	1.156	0.158	0.158
330	2.146	1.954	1.810	1.691	1.667	1.652	1.644	1.644	1.594	1.594	1.509	1.225	0.158	0.158
335	2.168	1.974	1.829	1.707	1.682	1.668	1.659	1.659	1.609	1.608	1.521	1.293	0.158	0.158
340	2.189	1.994	1.847	1.723	1.698	1.684	1.674	1.674	1.623	1.623	1.533	1.361	0.158	0.158
345	2.211	2.013	1.865	1.739	1.713	1.699	1.689	1.689	1.638	1.637	1.545	1.429	0.158	0.158
350	2.233	2.033	1.883	1.755	1.729	1.715	1.705	1.705	1.652	1.652	1.557	1.474	0.158	0.158
355	2.255	2.053	1.902	1.771	1.745	1.731	1.720	1.720	1.667	1.666	1.569	1.484	0.158	0.158
360	2.277	2.072	1.920	1.787	1.760	1.747	1.735	1.735	1.681	1.681	1.581	1.494	0.158	0.158
365	2.298	2.092	1.938	1.803	1.776	1.762	1.750	1.750	1.695	1.695	1.593	1.504	0.158	0.158
370	2.320	2.112	1.957	1.819	1.791	1.778	1.766	1.766	1.710	1.709	1.605	1.514	0.158	0.158
375	2.342	2.131	1.975	1.835	1.807	1.794	1.781	1.781	1.724	1.724	1.617	1.525	0.158	0.158
380	2.364	2.151	1.993	1.851	1.823	1.809	1.796	1.796	1.739	1.738	1.629	1.535	0.254	0.158
385	2.386	2.171	2.011	1.867	1.838	1.825	1.811	1.811	1.753	1.753	1.641	1.545	0.418	0.158
390	2.407	2.190	2.030	1.884	1.854	1.841	1.827	1.827	1.768	1.767	1.653	1.555	0.582	0.158
395	2.429	2.210	2.048	1.900	1.869	1.857	1.842	1.842	1.782	1.781	1.665	1.565	0.747	0.158
400	2.451	2.230	2.066	1.916	1.885	1.872	1.857	1.857	1.797	1.796	1.677	1.575	0.911	0.158
405	2.473	2.249	2.085	1.932	1.901	1.888	1.872	1.872	1.811	1.810	1.689	1.585	1.076	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 34: 4-Sided Hollow Beams
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.323	0.646	0.451	0.291	0.390	0.345	0.363	0.282	0.158	0.158	0.158	0.158	0.158	0.158
45	1.323	0.706	0.499	0.337	0.430	0.387	0.403	0.325	0.158	0.158	0.158	0.158	0.158	0.158
50	1.323	0.766	0.547	0.383	0.470	0.428	0.443	0.367	0.158	0.158	0.158	0.158	0.158	0.158
55	1.323	0.825	0.594	0.429	0.511	0.469	0.483	0.410	0.160	0.160	0.158	0.158	0.158	0.158
60	1.323	0.885	0.642	0.476	0.551	0.511	0.522	0.453	0.207	0.207	0.158	0.158	0.158	0.158
65	1.347	0.945	0.689	0.522	0.591	0.552	0.562	0.496	0.254	0.254	0.158	0.158	0.158	0.158
70	1.415	1.004	0.737	0.568	0.631	0.593	0.602	0.538	0.302	0.301	0.158	0.158	0.158	0.158
75	1.484	1.064	0.785	0.614	0.672	0.635	0.642	0.581	0.349	0.348	0.158	0.158	0.158	0.158
80	1.552	1.124	0.832	0.660	0.712	0.676	0.682	0.624	0.397	0.395	0.197	0.158	0.158	0.158
85	1.620	1.183	0.880	0.706	0.752	0.717	0.722	0.667	0.444	0.443	0.242	0.158	0.158	0.158
90	1.688	1.243	0.927	0.752	0.793	0.759	0.761	0.709	0.492	0.490	0.287	0.158	0.158	0.158
95	1.756	1.303	0.975	0.798	0.833	0.800	0.801	0.752	0.539	0.537	0.331	0.158	0.158	0.158
100	1.824	1.363	1.023	0.844	0.873	0.841	0.841	0.795	0.587	0.584	0.376	0.158	0.158	0.158
105	1.893	1.422	1.070	0.890	0.914	0.883	0.881	0.838	0.634	0.631	0.421	0.158	0.158	0.158
110	1.961	1.476	1.118	0.936	0.954	0.924	0.921	0.880	0.682	0.678	0.466	0.158	0.158	0.158
115	2.029	1.507	1.165	0.982	0.994	0.965	0.960	0.923	0.729	0.725	0.511	0.158	0.158	0.158
120	2.097	1.538	1.213	1.028	1.035	1.007	1.000	0.966	0.777	0.772	0.556	0.158	0.158	0.158
125	2.165	1.570	1.261	1.074	1.075	1.048	1.040	1.008	0.824	0.820	0.600	0.167	0.158	0.158
130	2.233	1.601	1.308	1.120	1.115	1.090	1.080	1.051	0.872	0.867	0.645	0.220	0.158	0.158
135	2.302	1.632	1.356	1.166	1.156	1.131	1.120	1.094	0.919	0.914	0.690	0.273	0.158	0.158
140	2.370	1.663	1.403	1.212	1.196	1.172	1.159	1.137	0.967	0.961	0.735	0.327	0.158	0.158
145	2.438	1.694	1.451	1.258	1.236	1.214	1.199	1.179	1.014	1.008	0.780	0.380	0.158	0.158
150	2.506	1.725	1.486	1.304	1.276	1.255	1.239	1.222	1.062	1.055	0.825	0.434	0.158	0.158
155	2.574	1.756	1.514	1.350	1.317	1.296	1.279	1.265	1.109	1.102	0.869	0.487	0.158	0.158
160	2.642	1.788	1.541	1.396	1.357	1.338	1.319	1.308	1.157	1.150	0.914	0.541	0.158	0.158
165	2.710	1.819	1.568	1.442	1.397	1.379	1.359	1.350	1.204	1.197	0.959	0.594	0.158	0.158
170	2.773	1.850	1.595	1.480	1.438	1.420	1.398	1.393	1.252	1.244	1.004	0.647	0.158	0.158
175	2.815	1.881	1.622	1.505	1.475	1.462	1.438	1.436	1.299	1.291	1.049	0.701	0.158	0.158
180	2.856	1.912	1.650	1.530	1.500	1.490	1.475	1.475	1.347	1.338	1.093	0.754	0.158	0.158
185	2.898	1.943	1.677	1.555	1.524	1.514	1.499	1.499	1.394	1.385	1.138	0.808	0.158	0.158
190	2.939	1.974	1.704	1.580	1.549	1.539	1.523	1.523	1.442	1.432	1.183	0.861	0.158	0.158
195	2.981	2.005	1.731	1.604	1.573	1.564	1.548	1.548	1.480	1.475	1.228	0.914	0.219	0.158
200	3.022	2.037	1.758	1.629	1.598	1.589	1.572	1.572	1.503	1.499	1.273	0.968	0.297	0.158
205	3.063	2.068	1.786	1.654	1.623	1.613	1.596	1.596	1.527	1.522	1.318	1.021	0.376	0.158
210	3.105	2.099	1.813	1.679	1.647	1.638	1.620	1.620	1.551	1.546	1.362	1.075	0.454	0.158
215	3.146	2.130	1.840	1.704	1.672	1.663	1.645	1.645	1.575	1.570	1.407	1.128	0.532	0.158
220	3.188	2.161	1.867	1.729	1.697	1.687	1.669	1.669	1.599	1.594	1.452	1.182	0.610	0.158

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 34: 4-Sided Hollow Beams
Fire Resistance Period: 45 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	3.229	2.192	1.894	1.754	1.721	1.712	1.693	1.693	1.622	1.618	1.483	1.235	0.688	0.158
230	3.271	2.223	1.922	1.779	1.746	1.737	1.717	1.717	1.646	1.641	1.504	1.288	0.766	0.158
235	3.312	2.254	1.949	1.804	1.770	1.762	1.742	1.742	1.670	1.665	1.526	1.342	0.845	0.158
240	3.353	2.286	1.976	1.829	1.795	1.786	1.766	1.766	1.694	1.689	1.547	1.395	0.923	0.158
245	3.395	2.317	2.003	1.854	1.820	1.811	1.790	1.790	1.718	1.713	1.568	1.449	1.001	0.158
250	3.436	2.348	2.030	1.878	1.844	1.836	1.814	1.814	1.741	1.737	1.590	1.481	1.079	0.158
255	3.478	2.379	2.058	1.903	1.869	1.860	1.839	1.839	1.765	1.760	1.611	1.501	1.157	0.158
260	3.519	2.410	2.085	1.928	1.893	1.885	1.863	1.863	1.789	1.784	1.632	1.520	1.235	0.158
265	3.561	2.441	2.112	1.953	1.918	1.910	1.887	1.887	1.813	1.808	1.654	1.539	1.314	0.161
270	3.602	2.472	2.139	1.978	1.943	1.935	1.911	1.911	1.837	1.832	1.675	1.558	1.392	0.295
275	3.644	2.504	2.166	2.003	1.967	1.959	1.936	1.936	1.860	1.856	1.697	1.577	1.470	0.428
280	3.685	2.535	2.194	2.028	1.992	1.984	1.960	1.960	1.884	1.879	1.718	1.596	1.486	0.562
285	3.726	2.566	2.221	2.053	2.017	2.009	1.984	1.984	1.908	1.903	1.739	1.616	1.502	0.695
290	3.768	2.597	2.248	2.078	2.041	2.033	2.008	2.008	1.932	1.927	1.761	1.635	1.518	0.829
295	3.809	2.628	2.275	2.103	2.066	2.058	2.033	2.033	1.956	1.951	1.782	1.654	1.533	0.963
300	3.851	2.659	2.303	2.127	2.090	2.083	2.057	2.057	1.979	1.975	1.803	1.673	1.549	1.096
305	3.892	2.690	2.330	2.152	2.115	2.108	2.081	2.081	2.003	1.998	1.825	1.692	1.565	1.230
310	3.934	2.721	2.357	2.177	2.140	2.132	2.105	2.105	2.027	2.022	1.846	1.711	1.581	1.363
315	3.975	2.753	2.384	2.202	2.164	2.157	2.130	2.130	2.051	2.046	1.867	1.731	1.597	1.472
320	4.017	2.851	2.411	2.227	2.189	2.182	2.154	2.154	2.075	2.070	1.889	1.750	1.613	1.484
325	4.058	2.995	2.439	2.252	2.214	2.206	2.178	2.178	2.098	2.094	1.910	1.769	1.629	1.495
330	4.099	3.138	2.466	2.277	2.238	2.231	2.202	2.202	2.122	2.118	1.932	1.788	1.645	1.506
335	4.141	3.282	2.493	2.302	2.263	2.256	2.227	2.227	2.146	2.141	1.953	1.807	1.660	1.518
340	4.182	3.426	2.520	2.327	2.287	2.281	2.251	2.251	2.170	2.165	1.974	1.826	1.676	1.529
345	4.224	3.569	2.547	2.352	2.312	2.305	2.275	2.275	2.194	2.189	1.996	1.845	1.692	1.540
350	4.265	3.713	2.575	2.377	2.337	2.330	2.299	2.299	2.217	2.213	2.017	1.865	1.708	1.552
355	4.307	3.856	2.602	2.401	2.361	2.355	2.324	2.324	2.241	2.237	2.038	1.884	1.724	1.563
360	-	4.000	2.629	2.426	2.386	2.379	2.348	2.348	2.265	2.260	2.060	1.903	1.740	1.574
365	-	4.144	2.656	2.451	2.410	2.404	2.372	2.372	2.289	2.284	2.081	1.922	1.756	1.586
370	-	4.287	2.683	2.476	2.435	2.429	2.396	2.396	2.313	2.308	2.103	1.941	1.772	1.597
375	-	-	2.711	2.501	2.460	2.454	2.421	2.421	2.337	2.332	2.124	1.960	1.787	1.608
380	-	-	2.738	2.526	2.484	2.478	2.445	2.445	2.360	2.356	2.145	1.980	1.803	1.620
385	-	-	2.765	2.551	2.509	2.503	2.469	2.469	2.384	2.379	2.167	1.999	1.819	1.631
390	-	-	-	2.576	2.534	2.528	2.493	2.493	2.408	2.403	2.188	2.018	1.835	1.642
395	-	-	-	2.601	2.558	2.552	2.518	2.518	2.432	2.427	2.209	2.037	1.851	1.654
400	-	-	-	2.626	2.583	2.577	2.542	2.542	2.456	2.451	2.231	2.056	1.867	1.665
405	-	-	-	2.650	2.607	2.602	2.566	2.566	2.479	2.475	2.252	2.075	1.883	1.676

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 35: 4-Sided Hollow Beams
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	1.446	1.071	0.837	0.651	0.610	0.598	0.578	0.578	0.509	0.510	0.352	0.158	0.158	0.158
45	1.568	1.196	0.930	0.724	0.677	0.664	0.643	0.643	0.562	0.561	0.400	0.158	0.158	0.158
50	1.690	1.320	1.023	0.797	0.744	0.730	0.707	0.707	0.615	0.612	0.449	0.158	0.158	0.158
55	1.812	1.445	1.116	0.870	0.811	0.796	0.772	0.772	0.668	0.663	0.498	0.158	0.158	0.158
60	1.934	1.578	1.209	0.944	0.879	0.862	0.837	0.837	0.720	0.715	0.546	0.209	0.158	0.158
65	2.056	1.713	1.302	1.017	0.946	0.929	0.901	0.901	0.773	0.766	0.595	0.262	0.158	0.158
70	2.179	1.848	1.396	1.090	1.013	0.995	0.966	0.966	0.826	0.817	0.644	0.315	0.179	0.158
75	2.301	1.983	1.500	1.163	1.080	1.061	1.031	1.031	0.879	0.868	0.692	0.368	0.225	0.158
80	2.423	2.118	1.651	1.236	1.147	1.127	1.095	1.095	0.932	0.919	0.741	0.421	0.270	0.158
85	2.545	2.252	1.801	1.309	1.215	1.193	1.160	1.160	0.984	0.970	0.789	0.474	0.316	0.158
90	2.667	2.387	1.952	1.382	1.282	1.259	1.224	1.224	1.037	1.021	0.838	0.527	0.362	0.158
95	2.778	2.522	2.102	1.455	1.349	1.325	1.289	1.289	1.090	1.072	0.887	0.580	0.408	0.158
100	2.843	2.657	2.253	1.561	1.416	1.391	1.354	1.354	1.143	1.123	0.935	0.633	0.454	0.158
105	2.908	2.775	2.404	1.674	1.490	1.457	1.418	1.418	1.196	1.174	0.984	0.686	0.499	0.158
110	2.973	2.824	2.554	1.788	1.590	1.552	1.486	1.486	1.248	1.225	1.032	0.739	0.545	0.158
115	3.038	2.873	2.705	1.902	1.689	1.655	1.567	1.567	1.301	1.276	1.081	0.792	0.591	0.158
120	3.103	2.922	2.789	2.015	1.789	1.758	1.648	1.648	1.354	1.327	1.130	0.845	0.637	0.158
125	3.168	2.971	2.830	2.129	1.888	1.861	1.729	1.729	1.407	1.378	1.178	0.898	0.682	0.158
130	3.233	3.020	2.871	2.242	1.988	1.963	1.810	1.810	1.459	1.429	1.227	0.951	0.728	0.200
135	3.298	3.069	2.911	2.356	2.088	2.066	1.891	1.891	1.507	1.479	1.276	1.004	0.774	0.257
140	3.363	3.118	2.952	2.470	2.187	2.169	1.972	1.972	1.553	1.524	1.324	1.057	0.820	0.315
145	3.428	3.167	2.993	2.583	2.287	2.272	2.053	2.053	1.599	1.568	1.373	1.110	0.866	0.373
150	3.493	3.216	3.033	2.697	2.386	2.374	2.134	2.134	1.645	1.613	1.421	1.163	0.911	0.431
155	3.558	3.265	3.074	2.780	2.486	2.477	2.215	2.215	1.690	1.658	1.470	1.216	0.957	0.488
160	3.623	3.314	3.114	2.817	2.586	2.580	2.296	2.296	1.736	1.702	1.499	1.269	1.003	0.546
165	3.688	3.363	3.155	2.854	2.685	2.683	2.377	2.377	1.782	1.747	1.528	1.322	1.049	0.604
170	3.753	3.412	3.196	2.891	2.772	2.772	2.457	2.457	1.828	1.792	1.556	1.375	1.095	0.662
175	3.818	3.461	3.236	2.929	2.808	2.808	2.538	2.538	1.874	1.836	1.585	1.428	1.140	0.719
180	3.883	3.510	3.277	2.966	2.844	2.844	2.619	2.619	1.920	1.881	1.614	1.475	1.186	0.777
185	3.948	3.559	3.318	3.003	2.879	2.879	2.700	2.700	1.966	1.925	1.643	1.503	1.232	0.835
190	4.013	3.608	3.358	3.040	2.915	2.915	2.773	2.773	2.012	1.970	1.671	1.530	1.278	0.893
195	4.078	3.657	3.399	3.077	2.951	2.951	2.812	2.812	2.058	2.015	1.700	1.558	1.323	0.950
200	4.143	3.706	3.439	3.115	2.986	2.986	2.851	2.851	2.104	2.059	1.729	1.585	1.369	1.008
205	4.208	3.755	3.480	3.152	3.022	3.022	2.890	2.890	2.150	2.104	1.758	1.613	1.415	1.066
210	4.273	3.804	3.521	3.189	3.058	3.058	2.929	2.929	2.196	2.149	1.787	1.640	1.461	1.124
215	-	3.853	3.561	3.226	3.093	3.093	2.968	2.968	2.241	2.193	1.815	1.668	1.490	1.181
220	-	3.902	3.602	3.263	3.129	3.129	3.007	3.007	2.287	2.238	1.844	1.695	1.515	1.239

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: $69\% \pm 3\%$

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**Table 35: 4-Sided Hollow Beams
Fire Resistance Period: 60 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	3.951	3.643	3.301	3.165	3.165	3.046	3.046	2.333	2.283	1.873	1.722	1.539	1.297
230	-	4.000	3.683	3.338	3.200	3.200	3.085	3.085	2.379	2.327	1.902	1.750	1.564	1.355
235	-	4.049	3.724	3.375	3.236	3.236	3.125	3.125	2.425	2.372	1.930	1.777	1.589	1.412
240	-	4.098	3.764	3.412	3.272	3.272	3.164	3.164	2.471	2.417	1.959	1.805	1.614	1.470
245	-	4.147	3.805	3.449	3.308	3.308	3.203	3.203	2.517	2.461	1.988	1.832	1.639	1.489
250	-	4.196	3.846	3.487	3.343	3.343	3.242	3.242	2.563	2.506	2.017	1.860	1.664	1.508
255	-	4.245	3.886	3.524	3.379	3.379	3.281	3.281	2.609	2.551	2.046	1.887	1.688	1.527
260	-	4.294	3.927	3.561	3.415	3.415	3.320	3.320	2.655	2.595	2.074	1.914	1.713	1.546
265	-	-	3.968	3.598	3.450	3.450	3.359	3.359	2.701	2.640	2.103	1.942	1.738	1.565
270	-	-	4.008	3.635	3.486	3.486	3.398	3.398	2.747	2.685	2.132	1.969	1.763	1.584
275	-	-	4.049	3.673	3.522	3.522	3.437	3.437	2.793	2.729	2.161	1.997	1.788	1.603
280	-	-	4.089	3.710	3.557	3.557	3.476	3.476	2.838	2.781	2.189	2.024	1.812	1.621
285	-	-	4.130	3.747	3.593	3.593	3.515	3.515	2.884	2.861	2.218	2.052	1.837	1.640
290	-	-	4.171	3.784	3.629	3.629	3.554	3.554	2.930	2.930	2.247	2.079	1.862	1.659
295	-	-	4.211	3.821	3.664	3.664	3.594	3.594	2.976	2.976	2.276	2.107	1.887	1.678
300	-	-	4.252	3.859	3.700	3.700	3.633	3.633	3.022	3.022	2.305	2.134	1.912	1.697
305	-	-	4.293	3.896	3.736	3.736	3.672	3.672	3.068	3.068	2.333	2.161	1.936	1.716
310	-	-	-	3.933	3.772	3.772	3.711	3.711	3.114	3.114	2.362	2.189	1.961	1.735
315	-	-	-	3.970	3.807	3.807	3.750	3.750	3.160	3.160	2.391	2.216	1.986	1.754
320	-	-	-	4.007	3.843	3.843	3.789	3.789	3.206	3.206	2.420	2.244	2.011	1.773
325	-	-	-	4.045	3.879	3.879	3.828	3.828	3.252	3.252	2.448	2.271	2.036	1.792
330	-	-	-	4.082	3.914	3.914	3.867	3.867	3.298	3.298	2.477	2.299	2.060	1.811
335	-	-	-	4.119	3.950	3.950	3.906	3.906	3.344	3.344	2.506	2.326	2.085	1.830
340	-	-	-	4.156	3.986	3.986	3.945	3.945	3.390	3.390	2.535	2.353	2.110	1.849
345	-	-	-	4.193	4.021	4.021	3.984	3.984	3.435	3.435	2.564	2.381	2.135	1.868
350	-	-	-	4.231	4.057	4.057	4.023	4.023	3.481	3.481	2.592	2.408	2.160	1.887
355	-	-	-	4.268	4.093	4.093	4.063	4.063	3.527	3.527	2.621	2.436	2.184	1.905
360	-	-	-	4.305	4.128	4.128	4.102	4.102	3.573	3.573	2.650	2.463	2.209	1.924
365	-	-	-	-	4.164	4.164	4.141	4.141	3.619	3.619	2.679	2.491	2.234	1.943
370	-	-	-	-	4.200	4.200	4.180	4.180	3.665	3.665	2.707	2.518	2.259	1.962
375	-	-	-	-	4.236	4.236	4.219	4.219	3.711	3.711	2.735	2.546	2.284	1.981
380	-	-	-	-	4.271	4.271	4.258	4.258	3.757	3.757	2.763	2.573	2.309	2.000
385	-	-	-	-	4.307	4.307	4.297	4.297	3.803	3.803	2.791	2.600	2.333	2.019
390	-	-	-	-	-	-	-	-	-	-	-	2.628	2.358	2.038
395	-	-	-	-	-	-	-	-	-	-	-	2.655	2.383	2.057
400	-	-	-	-	-	-	-	-	-	-	-	2.683	2.408	2.076
405	-	-	-	-	-	-	-	-	-	-	-	2.710	2.433	2.095

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

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**Table 36: 4-Sided Hollow Beams
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	-	0.837	1.181	0.995	0.940	0.929	0.904	0.904	0.815	0.817	0.643	0.522	0.388	0.158
45	-	0.930	1.387	1.120	1.060	1.047	1.017	1.017	0.911	0.910	0.717	0.574	0.435	0.158
50	-	1.023	1.578	1.245	1.181	1.164	1.130	1.130	1.008	1.004	0.790	0.626	0.481	0.158
55	-	1.116	1.758	1.370	1.301	1.282	1.244	1.244	1.104	1.097	0.864	0.678	0.528	0.158
60	-	1.209	1.938	1.506	1.422	1.399	1.357	1.357	1.200	1.190	0.938	0.730	0.575	0.208
65	-	1.302	2.118	1.686	1.581	1.546	1.470	1.470	1.297	1.283	1.012	0.782	0.621	0.259
70	-	1.396	2.297	1.866	1.766	1.737	1.660	1.660	1.393	1.377	1.086	0.834	0.668	0.310
75	-	1.500	2.477	2.046	1.951	1.927	1.851	1.851	1.508	1.470	1.160	0.886	0.714	0.361
80	-	1.651	2.657	2.225	2.136	2.118	2.041	2.041	1.699	1.660	1.234	0.939	0.761	0.412
85	-	1.801	2.789	2.405	2.321	2.308	2.232	2.232	1.889	1.851	1.307	0.991	0.808	0.463
90	-	1.952	2.849	2.585	2.506	2.498	2.422	2.422	2.079	2.041	1.381	1.043	0.854	0.514
95	-	2.102	2.909	2.765	2.691	2.689	2.613	2.613	2.270	2.232	1.455	1.095	0.901	0.564
100	-	2.253	2.969	2.817	2.794	2.794	2.774	2.774	2.460	2.422	1.627	1.147	0.948	0.615
105	-	2.404	3.029	2.869	2.842	2.842	2.821	2.821	2.651	2.613	1.823	1.199	0.994	0.666
110	-	2.554	3.089	2.921	2.890	2.889	2.868	2.868	2.782	2.774	2.019	1.251	1.041	0.717
115	-	2.705	3.149	2.973	2.939	2.937	2.915	2.915	2.825	2.816	2.216	1.303	1.088	0.768
120	-	2.789	3.209	3.024	2.987	2.985	2.961	2.961	2.867	2.859	2.412	1.355	1.134	0.819
125	-	2.830	3.269	3.076	3.035	3.033	3.008	3.008	2.910	2.902	2.608	1.407	1.181	0.870
130	-	2.871	3.329	3.128	3.083	3.081	3.055	3.055	2.952	2.945	2.773	1.460	1.227	0.921
135	-	2.911	3.388	3.180	3.132	3.129	3.102	3.102	2.995	2.988	2.810	1.528	1.274	0.971
140	-	2.952	3.448	3.232	3.180	3.177	3.149	3.149	3.038	3.031	2.848	1.601	1.321	1.022
145	-	2.993	3.508	3.284	3.228	3.225	3.195	3.195	3.080	3.074	2.885	1.674	1.367	1.073
150	-	3.033	3.568	3.336	3.276	3.272	3.242	3.242	3.123	3.117	2.923	1.746	1.414	1.124
155	-	3.074	3.628	3.388	3.325	3.320	3.289	3.289	3.165	3.160	2.961	1.819	1.461	1.175
160	-	3.114	3.688	3.440	3.373	3.368	3.336	3.336	3.208	3.202	2.998	1.892	1.495	1.226
165	-	3.155	3.748	3.491	3.421	3.416	3.383	3.383	3.250	3.245	3.036	1.965	1.527	1.277
170	-	3.196	3.808	3.543	3.469	3.464	3.429	3.429	3.293	3.288	3.074	2.037	1.559	1.328
175	-	3.236	3.868	3.595	3.518	3.512	3.476	3.476	3.336	3.331	3.111	2.110	1.591	1.378
180	-	3.277	3.928	3.647	3.566	3.560	3.523	3.523	3.378	3.374	3.149	2.183	1.622	1.429
185	-	3.318	3.988	3.699	3.614	3.607	3.570	3.570	3.421	3.417	3.187	2.256	1.654	1.475
190	-	3.358	4.048	3.751	3.662	3.655	3.616	3.616	3.463	3.460	3.224	2.328	1.686	1.501
195	-	3.399	4.108	3.803	3.711	3.703	3.663	3.663	3.506	3.503	3.262	2.401	1.718	1.527
200	-	3.439	4.168	3.855	3.759	3.751	3.710	3.710	3.549	3.545	3.300	2.474	1.749	1.553
205	-	3.480	4.228	3.907	3.807	3.799	3.757	3.757	3.591	3.588	3.337	2.547	1.781	1.579
210	-	3.521	4.288	3.958	3.855	3.847	3.804	3.804	3.634	3.631	3.375	2.619	1.813	1.605
215	-	-	-	4.010	3.904	3.895	3.850	3.850	3.676	3.674	3.413	2.692	1.845	1.631
220	-	-	-	4.062	3.952	3.943	3.897	3.897	3.719	3.717	3.450	2.765	1.876	1.656

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 36: 4-Sided Hollow Beams
Fire Resistance Period: 75 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	4.114	4.000	3.990	3.944	3.944	3.762	3.760	3.488	2.813	1.908	1.682
230	-	-	-	4.166	4.048	4.038	3.991	3.991	3.804	3.803	3.526	2.861	1.940	1.708
235	-	-	-	4.218	4.096	4.086	4.037	4.037	3.847	3.846	3.563	2.910	1.971	1.734
240	-	-	-	4.270	4.145	4.134	4.084	4.084	3.889	3.889	3.601	2.958	2.003	1.760
245	-	-	-	-	4.193	4.182	4.131	4.131	3.932	3.931	3.639	3.006	2.035	1.786
250	-	-	-	-	4.241	4.230	4.178	4.178	3.974	3.974	3.676	3.054	2.067	1.812
255	-	-	-	-	4.289	4.278	4.225	4.225	4.017	4.017	3.714	3.103	2.098	1.838
260	-	-	-	-	-	-	4.271	4.271	4.060	4.060	3.751	3.151	2.130	1.864
265	-	-	-	-	-	-	4.318	4.318	4.102	4.103	3.789	3.199	2.162	1.890
270	-	-	-	-	-	-	-	-	4.145	4.146	3.827	3.247	2.194	1.915
275	-	-	-	-	-	-	-	-	4.187	4.189	3.864	3.296	2.225	1.941
280	-	-	-	-	-	-	-	-	4.230	4.232	3.902	3.344	2.257	1.967
285	-	-	-	-	-	-	-	-	4.273	4.274	3.940	3.392	2.289	1.993
290	-	-	-	-	-	-	-	-	4.315	4.317	3.977	3.440	2.321	2.019
295	-	-	-	-	-	-	-	-	-	-	4.015	3.489	2.352	2.045
300	-	-	-	-	-	-	-	-	-	-	4.053	3.537	2.384	2.071
305	-	-	-	-	-	-	-	-	-	-	4.090	3.585	2.416	2.097
310	-	-	-	-	-	-	-	-	-	-	4.128	3.633	2.448	2.123
315	-	-	-	-	-	-	-	-	-	-	4.166	3.682	2.479	2.149
320	-	-	-	-	-	-	-	-	-	-	4.203	3.730	2.511	2.174
325	-	-	-	-	-	-	-	-	-	-	4.241	3.778	2.543	2.200
330	-	-	-	-	-	-	-	-	-	-	4.279	3.826	2.575	2.226
335	-	-	-	-	-	-	-	-	-	-	4.316	3.875	2.606	2.252
340	-	-	-	-	-	-	-	-	-	-	-	3.923	2.638	2.278
345	-	-	-	-	-	-	-	-	-	-	-	3.971	2.670	2.304
350	-	-	-	-	-	-	-	-	-	-	-	4.019	2.702	2.330
355	-	-	-	-	-	-	-	-	-	-	-	4.068	2.733	2.356
360	-	-	-	-	-	-	-	-	-	-	-	4.116	2.765	2.382
365	-	-	-	-	-	-	-	-	-	-	-	4.164	3.537	2.408
370	-	-	-	-	-	-	-	-	-	-	-	4.212	4.212	2.433
375	-	-	-	-	-	-	-	-	-	-	-	4.261	4.261	2.459
380	-	-	-	-	-	-	-	-	-	-	-	4.309	4.309	2.485
385	-	-	-	-	-	-	-	-	-	-	-	-	-	2.511
390	-	-	-	-	-	-	-	-	-	-	-	-	-	2.537
395	-	-	-	-	-	-	-	-	-	-	-	-	-	2.563
400	-	-	-	-	-	-	-	-	-	-	-	-	-	2.589
405	-	-	-	-	-	-	-	-	-	-	-	-	-	2.615

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: $69\% \pm 3\%$

Nullifire
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**Table 37: 4-Sided Hollow Beams
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ²	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
40	-	-	2.616	1.520	1.237	1.225	1.195	1.195	1.117	1.117	0.924	0.778	0.637	0.483
45	-	-	2.684	1.674	1.470	1.470	1.423	1.423	1.264	1.264	1.037	0.866	0.702	0.530
50	-	-	2.751	2.015	1.830	1.830	1.743	1.743	1.411	1.411	1.151	0.955	0.767	0.577
55	-	-	2.819	2.356	2.189	2.189	2.083	2.083	1.655	1.647	1.265	1.044	0.832	0.625
60	-	-	2.887	2.697	2.549	2.549	2.424	2.424	1.963	1.941	1.379	1.133	0.897	0.672
65	-	-	2.955	2.814	2.789	2.788	2.765	2.765	2.272	2.235	1.520	1.221	0.962	0.720
70	-	-	3.023	2.876	2.848	2.847	2.823	2.823	2.580	2.530	1.769	1.310	1.027	0.767
75	-	-	3.091	2.938	2.908	2.905	2.880	2.880	2.787	2.776	2.018	1.399	1.093	0.815
80	-	-	3.159	3.000	2.967	2.963	2.938	2.938	2.842	2.831	2.267	1.518	1.158	0.862
85	-	-	3.226	3.061	3.026	3.021	2.996	2.996	2.896	2.886	2.516	1.758	1.223	0.910
90	-	-	3.294	3.123	3.086	3.080	3.054	3.054	2.951	2.941	2.765	1.998	1.288	0.957
95	-	-	3.362	3.185	3.145	3.138	3.111	3.111	3.005	2.997	2.815	2.237	1.353	1.005
100	-	-	3.430	3.247	3.204	3.196	3.169	3.169	3.060	3.052	2.865	2.477	1.418	1.052
105	-	-	3.498	3.308	3.264	3.254	3.227	3.227	3.115	3.107	2.916	2.717	1.510	1.100
110	-	-	3.566	3.370	3.323	3.313	3.284	3.284	3.169	3.162	2.966	2.800	1.713	1.147
115	-	-	3.634	3.432	3.383	3.371	3.342	3.342	3.224	3.217	3.016	2.843	1.915	1.195
120	-	-	3.701	3.494	3.442	3.429	3.400	3.400	3.279	3.272	3.066	2.886	2.118	1.242
125	-	-	3.769	3.555	3.501	3.487	3.458	3.458	3.333	3.327	3.116	2.929	2.320	1.290
130	-	-	3.837	3.617	3.561	3.546	3.515	3.515	3.388	3.383	3.167	2.972	2.522	1.337
135	-	-	3.905	3.679	3.620	3.604	3.573	3.573	3.443	3.438	3.217	3.015	2.725	1.385
140	-	-	3.973	3.741	3.679	3.662	3.631	3.631	3.497	3.493	3.267	3.059	2.795	1.432
145	-	-	4.041	3.802	3.739	3.720	3.688	3.688	3.552	3.548	3.317	3.102	2.832	1.480
150	-	-	4.109	3.864	3.798	3.779	3.746	3.746	3.607	3.603	3.367	3.145	2.870	1.532
155	-	-	4.176	3.926	3.858	3.837	3.804	3.804	3.661	3.658	3.418	3.188	2.907	1.583
160	-	-	4.244	3.988	3.917	3.895	3.861	3.861	3.716	3.713	3.468	3.231	2.945	1.634
165	-	-	4.312	4.049	3.976	3.953	3.919	3.919	3.770	3.768	3.518	3.275	2.982	1.686
170	-	-	-	4.111	4.036	4.012	3.977	3.977	3.825	3.824	3.568	3.318	3.019	1.737
175	-	-	-	4.173	4.095	4.070	4.035	4.035	3.880	3.879	3.618	3.361	3.057	1.789
180	-	-	-	4.235	4.154	4.128	4.092	4.092	3.934	3.934	3.669	3.404	3.094	1.840
185	-	-	-	4.296	4.214	4.186	4.150	4.150	3.989	3.989	3.719	3.447	3.132	1.891
190	-	-	-	-	4.273	4.245	4.208	4.208	4.044	4.044	3.769	3.490	3.169	1.943
195	-	-	-	-	-	4.303	4.265	4.265	4.098	4.099	3.819	3.534	3.207	1.994
200	-	-	-	-	-	-	-	-	4.153	4.154	3.869	3.577	3.244	2.046
205	-	-	-	-	-	-	-	-	4.208	4.210	3.920	3.620	3.281	2.097
210	-	-	-	-	-	-	-	-	4.262	4.265	3.970	3.663	3.319	2.148
215	-	-	-	-	-	-	-	-	4.317	4.320	4.020	3.706	3.356	2.200
220	-	-	-	-	-	-	-	-	-	-	4.070	3.750	3.394	2.251

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 37: 4-Sided Hollow Beams
Fire Resistance Period: 90 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	-	-	-	-	-	-	-	4.120	3.793	3.431	2.303
230	-	-	-	-	-	-	-	-	-	-	4.171	3.836	3.469	2.354
235	-	-	-	-	-	-	-	-	-	-	4.221	3.879	3.506	2.405
240	-	-	-	-	-	-	-	-	-	-	4.271	3.922	3.543	2.457
245	-	-	-	-	-	-	-	-	-	-	-	3.965	3.581	2.508
250	-	-	-	-	-	-	-	-	-	-	-	4.009	3.618	2.559
255	-	-	-	-	-	-	-	-	-	-	-	4.052	3.656	2.611
260	-	-	-	-	-	-	-	-	-	-	-	4.095	3.693	2.662
265	-	-	-	-	-	-	-	-	-	-	-	4.138	3.731	2.714
270	-	-	-	-	-	-	-	-	-	-	-	4.181	3.768	2.765
275	-	-	-	-	-	-	-	-	-	-	-	4.225	3.805	2.837
280	-	-	-	-	-	-	-	-	-	-	-	4.268	3.843	2.909
285	-	-	-	-	-	-	-	-	-	-	-	4.311	3.880	2.980
290	-	-	-	-	-	-	-	-	-	-	-	-	3.918	3.052
295	-	-	-	-	-	-	-	-	-	-	-	-	3.955	3.124
300	-	-	-	-	-	-	-	-	-	-	-	-	3.993	3.196
305	-	-	-	-	-	-	-	-	-	-	-	-	4.030	3.268
310	-	-	-	-	-	-	-	-	-	-	-	-	4.067	3.339
315	-	-	-	-	-	-	-	-	-	-	-	-	4.105	3.411
320	-	-	-	-	-	-	-	-	-	-	-	-	4.142	3.483
325	-	-	-	-	-	-	-	-	-	-	-	-	4.180	3.555
330	-	-	-	-	-	-	-	-	-	-	-	-	4.217	3.627
335	-	-	-	-	-	-	-	-	-	-	-	-	4.254	3.698
340	-	-	-	-	-	-	-	-	-	-	-	-	4.292	3.770
345	-	-	-	-	-	-	-	-	-	-	-	-	-	3.842
350	-	-	-	-	-	-	-	-	-	-	-	-	-	3.914
355	-	-	-	-	-	-	-	-	-	-	-	-	-	3.986
360	-	-	-	-	-	-	-	-	-	-	-	-	-	4.057
365	-	-	-	-	-	-	-	-	-	-	-	-	-	4.129
370	-	-	-	-	-	-	-	-	-	-	-	-	-	4.201
375	-	-	-	-	-	-	-	-	-	-	-	-	-	4.273
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
Smart Protection

**Table 38: 4-Sided Hollow Beams
Fire Resistance Period: IO5 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C DFT (mm)	400°C DFT (mm)	450°C DFT (mm)	500°C DFT (mm)	512°C DFT (mm)	515°C DFT (mm)	520°C DFT (mm)	521°C DFT (mm)	547°C DFT (mm)	550°C DFT (mm)	600°C DFT (mm)	650°C DFT (mm)	700°C DFT (mm)	750°C DFT (mm)
40	-	-	4.000	2.720	2.723	2.725	2.046	2.046	1.470	1.470	1.167	1.032	0.876	0.707
45	-	-	4.000	2.795	2.793	2.792	2.765	2.765	2.189	2.189	1.383	1.161	0.975	0.779
50	-	-	4.000	2.870	2.863	2.859	2.833	2.833	2.778	2.778	1.859	1.289	1.074	0.851
55	-	-	4.000	2.946	2.933	2.926	2.901	2.901	2.841	2.841	2.506	1.418	1.173	0.923
60	-	-	4.000	3.021	3.004	2.993	2.969	2.969	2.904	2.904	2.799	1.729	1.272	0.995
65	-	-	4.000	3.096	3.074	3.060	3.036	3.036	2.967	2.967	2.855	2.161	1.371	1.067
70	-	-	4.000	3.172	3.144	3.127	3.104	3.104	3.030	3.030	2.911	2.592	1.470	1.139
75	-	-	4.000	3.247	3.214	3.195	3.172	3.172	3.093	3.093	2.967	2.796	1.764	1.211
80	-	-	4.000	3.322	3.284	3.262	3.240	3.240	3.156	3.156	3.023	2.847	2.059	1.283
85	-	-	4.000	3.398	3.354	3.329	3.308	3.308	3.219	3.219	3.079	2.899	2.353	1.355
90	-	-	4.000	3.473	3.425	3.396	3.376	3.376	3.282	3.282	3.136	2.950	2.647	1.427
95	-	-	4.000	3.548	3.495	3.463	3.444	3.444	3.345	3.345	3.192	3.002	2.793	1.578
100	-	-	-	3.623	3.565	3.530	3.511	3.511	3.408	3.408	3.248	3.053	2.840	1.848
105	-	-	-	3.699	3.635	3.597	3.579	3.579	3.471	3.471	3.304	3.105	2.888	2.118
110	-	-	-	3.774	3.705	3.664	3.647	3.647	3.534	3.534	3.360	3.156	2.935	2.387
115	-	-	-	3.849	3.775	3.732	3.715	3.715	3.597	3.597	3.416	3.208	2.982	2.657
120	-	-	-	3.925	3.846	3.799	3.783	3.783	3.660	3.660	3.472	3.259	3.029	2.788
125	-	-	-	4.000	3.916	3.866	3.851	3.851	3.723	3.723	3.528	3.310	3.076	2.827
130	-	-	-	4.075	3.986	3.933	3.919	3.919	3.786	3.786	3.585	3.362	3.123	2.865
135	-	-	-	4.151	4.056	4.000	3.986	3.986	3.849	3.849	3.641	3.413	3.170	2.904
140	-	-	-	4.226	4.126	4.067	4.054	4.054	3.912	3.912	3.697	3.465	3.218	2.943
145	-	-	-	4.301	4.196	4.134	4.122	4.122	3.975	3.975	3.753	3.516	3.265	2.981
150	-	-	-	-	4.267	4.201	4.190	4.190	4.038	4.038	3.809	3.568	3.312	3.020
155	-	-	-	-	-	4.268	4.258	4.258	4.101	4.101	3.865	3.619	3.359	3.058
160	-	-	-	-	-	-	-	-	4.164	4.164	3.921	3.671	3.406	3.097
165	-	-	-	-	-	-	-	-	4.227	4.227	3.978	3.722	3.453	3.136
170	-	-	-	-	-	-	-	-	4.290	4.290	4.034	3.774	3.500	3.174
175	-	-	-	-	-	-	-	-	-	-	4.090	3.825	3.547	3.213
180	-	-	-	-	-	-	-	-	-	-	4.146	3.877	3.595	3.251
185	-	-	-	-	-	-	-	-	-	-	4.202	3.928	3.642	3.290
190	-	-	-	-	-	-	-	-	-	-	4.258	3.979	3.689	3.328
195	-	-	-	-	-	-	-	-	-	-	4.314	4.031	3.736	3.367
200	-	-	-	-	-	-	-	-	-	-	-	4.082	3.783	3.406
205	-	-	-	-	-	-	-	-	-	-	-	4.134	3.830	3.444
210	-	-	-	-	-	-	-	-	-	-	-	4.185	3.877	3.483
215	-	-	-	-	-	-	-	-	-	-	-	4.237	3.925	3.521
220	-	-	-	-	-	-	-	-	-	-	-	4.288	3.972	3.560

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.



SC804 Loading Tables

SC804
Material Specification
Specific Gravity: 1.38 ± 0.02
Volume Solids: 69% ± 3%

Nullifire
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**Table 38: 4-Sided Hollow Beams
Fire Resistance Period: 105 Minutes**

Thickness (mm) Required for a Design Temperature of

Section Factor up to m ¹	350°C	400°C	450°C	500°C	512°C	515°C	520°C	521°C	547°C	550°C	600°C	650°C	700°C	750°C
	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)	DFT (mm)
225	-	-	-	-	-	-	-	-	-	-	-	-	4.019	3.599
230	-	-	-	-	-	-	-	-	-	-	-	-	4.066	3.637
235	-	-	-	-	-	-	-	-	-	-	-	-	4.113	3.676
240	-	-	-	-	-	-	-	-	-	-	-	-	4.160	3.714
245	-	-	-	-	-	-	-	-	-	-	-	-	4.207	3.753
250	-	-	-	-	-	-	-	-	-	-	-	-	4.255	3.792
255	-	-	-	-	-	-	-	-	-	-	-	-	4.302	3.830
260	-	-	-	-	-	-	-	-	-	-	-	-	-	3.869
265	-	-	-	-	-	-	-	-	-	-	-	-	-	3.907
270	-	-	-	-	-	-	-	-	-	-	-	-	-	3.946
275	-	-	-	-	-	-	-	-	-	-	-	-	-	3.985
280	-	-	-	-	-	-	-	-	-	-	-	-	-	4.023
285	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062
290	-	-	-	-	-	-	-	-	-	-	-	-	-	4.100
295	-	-	-	-	-	-	-	-	-	-	-	-	-	4.139
300	-	-	-	-	-	-	-	-	-	-	-	-	-	4.178
305	-	-	-	-	-	-	-	-	-	-	-	-	-	4.216
310	-	-	-	-	-	-	-	-	-	-	-	-	-	4.255
315	-	-	-	-	-	-	-	-	-	-	-	-	-	4.293
320	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For the protection of RHS and CHS hollow section, Nullifire recommend the use of Nullifire SC801. 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.