

## Appendix 2

Certificate Number: 1109a (1) Issue: 11

Issued to: **INTERNATIONAL PAINT LIMITED**

For: **Interchar 1190**

Required Intumescent Dry Film Thickness (dft) in millimetres (mm) of Interchar 1190 for I- and H- section columns, with 4 sided exposure

This appendix forms part of Certificate Number 1109a (1), Issue 11, issued to:

**INTERNATIONAL PAINT LIMITED**  
**Stoneygate lane**  
**Felling**  
**Gateshead**  
**Tyne & Wear**  
**NE10 0JY**

on 10 August 2020

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**Table 1** Required thickness of Interchar 1190 (mm) for a fire resistance period of 15 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
55	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
60	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
65	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
70	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
75	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
80	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
85	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
90	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
95	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
100	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
105	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
110	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
115	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
120	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
125	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
130	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
135	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
140	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
145	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
150	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
155	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
160	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
170	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
175	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
180	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
185	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
190	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
195	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
200	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
205	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
210	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
215	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
220	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
225	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
230	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
235	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
240	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
245	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
250	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
255	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
260	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
265	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
270	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
275	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
280	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
290	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
295	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
300	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
305	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
310	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
315	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
320	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
325	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
330	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
335	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
340	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
345	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
350	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
355	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
360	0.612	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
365	0.624	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608

**Table 2** Required thickness (mm) of Interchar 1190 for a fire resistance period of 30 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
55	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
60	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
65	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
70	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
75	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
80	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
85	0.623	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
90	0.643	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
95	0.664	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
100	0.684	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
105	0.705	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
110	0.725	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
115	0.746	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
120	0.766	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
125	0.787	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
130	0.807	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
135	0.827	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
140	0.848	0.615	0.608	0.608	0.608	0.608	0.608	0.608	0.608
145	0.868	0.633	0.608	0.608	0.608	0.608	0.608	0.608	0.608
150	0.889	0.652	0.608	0.608	0.608	0.608	0.608	0.608	0.608
155	0.909	0.670	0.608	0.608	0.608	0.608	0.608	0.608	0.608
160	0.930	0.689	0.608	0.608	0.608	0.608	0.608	0.608	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	0.950	0.707	0.608	0.608	0.608	0.608	0.608	0.608	0.608
170	0.971	0.726	0.608	0.608	0.608	0.608	0.608	0.608	0.608
175	0.991	0.744	0.608	0.608	0.608	0.608	0.608	0.608	0.608
180	1.011	0.762	0.608	0.608	0.608	0.608	0.608	0.608	0.608
185	1.032	0.781	0.608	0.608	0.608	0.608	0.608	0.608	0.608
190	1.052	0.799	0.608	0.608	0.608	0.608	0.608	0.608	0.608
195	1.073	0.818	0.608	0.608	0.608	0.608	0.608	0.608	0.608
200	1.093	0.836	0.608	0.608	0.608	0.608	0.608	0.608	0.608
205	1.114	0.855	0.608	0.608	0.608	0.608	0.608	0.608	0.608
210	1.134	0.873	0.608	0.608	0.608	0.608	0.608	0.608	0.608
215	1.155	0.892	0.608	0.608	0.608	0.608	0.608	0.608	0.608
220	1.175	0.910	0.608	0.608	0.608	0.608	0.608	0.608	0.608
225	1.195	0.928	0.608	0.608	0.608	0.608	0.608	0.608	0.608
230	1.216	0.947	0.608	0.608	0.608	0.608	0.608	0.608	0.608
235	1.236	0.965	0.608	0.608	0.608	0.608	0.608	0.608	0.608
240	1.257	0.984	0.608	0.608	0.608	0.608	0.608	0.608	0.608
245	1.277	1.002	0.608	0.608	0.608	0.608	0.608	0.608	0.608
250	1.298	1.021	0.608	0.608	0.608	0.608	0.608	0.608	0.608
255	1.318	1.039	0.608	0.608	0.608	0.608	0.608	0.608	0.608
260	1.339	1.057	0.608	0.608	0.608	0.608	0.608	0.608	0.608
265	1.359	1.076	0.608	0.608	0.608	0.608	0.608	0.608	0.608
270	1.379	1.094	0.608	0.608	0.608	0.608	0.608	0.608	0.608
275	1.400	1.113	0.608	0.608	0.608	0.608	0.608	0.608	0.608
280	1.420	1.131	0.608	0.608	0.608	0.608	0.608	0.608	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	1.441	1.150	0.608	0.608	0.608	0.608	0.608	0.608	0.608
290	1.461	1.168	0.608	0.608	0.608	0.608	0.608	0.608	0.608
295	1.482	1.187	0.625	0.608	0.608	0.608	0.608	0.608	0.608
300	1.502	1.205	0.645	0.608	0.608	0.608	0.608	0.608	0.608
305	1.523	1.223	0.665	0.608	0.608	0.608	0.608	0.608	0.608
310	1.543	1.242	0.686	0.608	0.608	0.608	0.608	0.608	0.608
315	1.563	1.260	0.706	0.608	0.608	0.608	0.608	0.608	0.608
320	1.584	1.279	0.726	0.608	0.608	0.608	0.608	0.608	0.608
325	1.604	1.297	0.746	0.608	0.608	0.608	0.608	0.608	0.608
330	1.625	1.316	0.766	0.608	0.608	0.608	0.608	0.608	0.608
335	1.645	1.334	0.786	0.608	0.608	0.608	0.608	0.608	0.608
340	1.666	1.352	0.806	0.608	0.608	0.608	0.608	0.608	0.608
345	1.686	1.371	0.827	0.608	0.608	0.608	0.608	0.608	0.608
350	1.706	1.389	0.847	0.621	0.608	0.608	0.608	0.608	0.608
355	1.727	1.408	0.867	0.640	0.608	0.608	0.608	0.608	0.608
360	1.747	1.426	0.887	0.658	0.608	0.608	0.608	0.608	0.608
365	1.768	1.445	0.907	0.676	0.608	0.608	0.608	0.608	0.608

**Table 3** Required thickness (mm) of Interchar 1190 for a fire resistance period of 45 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	0.679	0.608	0.608	0.608	0.608	0.608	0.608	0.608	0.608
55	0.709	0.618	0.608	0.608	0.608	0.608	0.608	0.608	0.608
60	0.739	0.644	0.608	0.608	0.608	0.608	0.608	0.608	0.608
65	0.768	0.670	0.608	0.608	0.608	0.608	0.608	0.608	0.608
70	0.798	0.695	0.608	0.608	0.608	0.608	0.608	0.608	0.608
75	0.828	0.721	0.608	0.608	0.608	0.608	0.608	0.608	0.608
80	0.858	0.747	0.630	0.608	0.608	0.608	0.608	0.608	0.608
85	0.887	0.772	0.653	0.608	0.608	0.608	0.608	0.608	0.608
90	0.917	0.798	0.677	0.608	0.608	0.608	0.608	0.608	0.608
95	0.947	0.824	0.700	0.608	0.608	0.608	0.608	0.608	0.608
100	0.976	0.850	0.724	0.608	0.608	0.608	0.608	0.608	0.608
105	1.006	0.875	0.747	0.608	0.608	0.608	0.608	0.608	0.608
110	1.036	0.901	0.770	0.612	0.608	0.608	0.608	0.608	0.608
115	1.065	0.927	0.794	0.634	0.608	0.608	0.608	0.608	0.608
120	1.095	0.952	0.817	0.656	0.608	0.608	0.608	0.608	0.608
125	1.125	0.978	0.841	0.678	0.608	0.608	0.608	0.608	0.608
130	1.155	1.004	0.864	0.700	0.608	0.608	0.608	0.608	0.608
135	1.184	1.029	0.888	0.722	0.608	0.608	0.608	0.608	0.608
140	1.214	1.055	0.911	0.744	0.608	0.608	0.608	0.608	0.608
145	1.244	1.081	0.935	0.766	0.608	0.608	0.608	0.608	0.608
150	1.273	1.106	0.958	0.788	0.608	0.608	0.608	0.608	0.608
155	1.303	1.132	0.982	0.811	0.608	0.608	0.608	0.608	0.608
160	1.333	1.158	1.005	0.833	0.608	0.608	0.608	0.608	0.608



Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	1.363	1.183	1.028	0.855	0.608	0.608	0.608	0.608	0.608
170	1.392	1.209	1.052	0.877	0.628	0.608	0.608	0.608	0.608
175	1.422	1.235	1.075	0.899	0.649	0.608	0.608	0.608	0.608
180	1.452	1.260	1.099	0.921	0.671	0.608	0.608	0.608	0.608
185	1.481	1.286	1.122	0.943	0.692	0.608	0.608	0.608	0.608
190	1.511	1.312	1.146	0.965	0.714	0.608	0.608	0.608	0.608
195	1.541	1.337	1.169	0.987	0.735	0.608	0.608	0.608	0.608
200	1.571	1.363	1.193	1.009	0.757	0.608	0.608	0.608	0.608
205	1.600	1.389	1.216	1.031	0.778	0.608	0.608	0.608	0.608
210	1.630	1.414	1.240	1.053	0.800	0.608	0.608	0.608	0.608
215	1.660	1.440	1.263	1.075	0.821	0.608	0.608	0.608	0.608
220	1.689	1.466	1.286	1.097	0.843	0.608	0.608	0.608	0.608
225	1.719	1.491	1.310	1.119	0.864	0.608	0.608	0.608	0.608
230	1.749	1.517	1.333	1.141	0.885	0.608	0.608	0.608	0.608
235	1.779	1.543	1.357	1.163	0.907	0.608	0.608	0.608	0.608
240	1.808	1.568	1.380	1.185	0.928	0.608	0.608	0.608	0.608
245	1.838	1.594	1.404	1.207	0.950	0.608	0.608	0.608	0.608
250	1.868	1.620	1.427	1.229	0.971	0.608	0.608	0.608	0.608
255	1.897	1.645	1.451	1.251	0.993	0.608	0.608	0.608	0.608
260	1.927	1.671	1.474	1.273	1.014	0.608	0.608	0.608	0.608
265	1.957	1.697	1.498	1.295	1.036	0.608	0.608	0.608	0.608
270	1.987	1.723	1.521	1.317	1.057	0.608	0.608	0.608	0.608
275	2.016	1.748	1.544	1.339	1.079	0.608	0.608	0.608	0.608
280	2.046	1.774	1.568	1.361	1.100	0.608	0.608	0.608	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	2.076	1.800	1.591	1.383	1.121	0.608	0.608	0.608	0.608
290	2.105	1.825	1.615	1.406	1.143	0.628	0.608	0.608	0.608
295	2.135	1.851	1.638	1.428	1.164	0.652	0.608	0.608	0.608
300	2.165	1.877	1.662	1.450	1.186	0.676	0.608	0.608	0.608
305	2.195	1.902	1.685	1.472	1.207	0.700	0.608	0.608	0.608
310	2.224	1.928	1.709	1.494	1.229	0.723	0.608	0.608	0.608
315	2.254	1.954	1.732	1.516	1.250	0.747	0.608	0.608	0.608
320	2.284	1.979	1.756	1.538	1.272	0.771	0.614	0.608	0.608
325	2.313	2.005	1.779	1.560	1.293	0.794	0.635	0.608	0.608
330	2.343	2.031	1.802	1.582	1.315	0.818	0.655	0.608	0.608
335	2.373	2.056	1.826	1.604	1.336	0.842	0.676	0.608	0.608
340	2.402	2.082	1.849	1.626	1.357	0.866	0.697	0.608	0.608
345	2.432	2.108	1.873	1.648	1.379	0.889	0.717	0.608	0.608
350	2.462	2.133	1.896	1.670	1.400	0.913	0.738	0.608	0.608
355	2.492	2.159	1.920	1.692	1.422	0.937	0.758	0.608	0.608
360	2.521	2.185	1.943	1.714	1.443	0.961	0.779	0.613	0.608
365	2.551	2.210	1.967	1.736	1.465	0.984	0.799	0.631	0.608

**Table 4** Required thickness (mm) of Interchar 1190 for a fire resistance period of 60 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	1.165	0.873	0.660	0.608	0.608	0.608	0.608	0.608	0.608
55	1.199	0.904	0.690	0.616	0.608	0.608	0.608	0.608	0.608
60	1.233	0.936	0.721	0.643	0.608	0.608	0.608	0.608	0.608
65	1.267	0.967	0.751	0.671	0.608	0.608	0.608	0.608	0.608
70	1.301	0.999	0.781	0.699	0.608	0.608	0.608	0.608	0.608
75	1.335	1.030	0.812	0.727	0.634	0.608	0.608	0.608	0.608
80	1.370	1.062	0.842	0.755	0.660	0.608	0.608	0.608	0.608
85	1.404	1.093	0.873	0.783	0.686	0.608	0.608	0.608	0.608
90	1.438	1.124	0.903	0.811	0.712	0.613	0.608	0.608	0.608
95	1.472	1.156	0.933	0.839	0.737	0.637	0.608	0.608	0.608
100	1.506	1.187	0.964	0.866	0.763	0.662	0.608	0.608	0.608
105	1.540	1.219	0.994	0.894	0.789	0.686	0.608	0.608	0.608
110	1.574	1.250	1.025	0.922	0.815	0.710	0.608	0.608	0.608
115	1.608	1.281	1.055	0.950	0.841	0.734	0.608	0.608	0.608
120	1.642	1.313	1.085	0.978	0.867	0.759	0.614	0.608	0.608
125	1.677	1.344	1.116	1.006	0.892	0.783	0.636	0.608	0.608
130	1.711	1.376	1.146	1.034	0.918	0.807	0.659	0.608	0.608
135	1.745	1.407	1.177	1.062	0.944	0.832	0.681	0.608	0.608
140	1.779	1.439	1.207	1.090	0.970	0.856	0.704	0.608	0.608
145	1.813	1.470	1.237	1.117	0.996	0.880	0.727	0.608	0.608
150	1.847	1.501	1.268	1.145	1.022	0.905	0.749	0.608	0.608
155	1.881	1.533	1.298	1.173	1.047	0.929	0.772	0.608	0.608
160	1.915	1.564	1.329	1.201	1.073	0.953	0.794	0.614	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	1.949	1.596	1.359	1.229	1.099	0.977	0.817	0.635	0.608
170	1.983	1.627	1.389	1.257	1.125	1.002	0.840	0.657	0.608
175	2.018	1.658	1.420	1.285	1.151	1.026	0.862	0.678	0.608
180	2.052	1.690	1.450	1.313	1.177	1.050	0.885	0.699	0.608
185	2.086	1.721	1.481	1.341	1.202	1.075	0.907	0.720	0.608
190	2.120	1.753	1.511	1.368	1.228	1.099	0.930	0.742	0.608
195	2.154	1.784	1.541	1.396	1.254	1.123	0.953	0.763	0.608
200	2.188	1.816	1.572	1.424	1.280	1.148	0.975	0.784	0.608
205	2.222	1.847	1.602	1.452	1.306	1.172	0.998	0.805	0.608
210	2.256	1.878	1.633	1.480	1.332	1.196	1.020	0.827	0.608
215	2.290	1.910	1.663	1.508	1.357	1.221	1.043	0.848	0.608
220	2.324	1.941	1.693	1.536	1.383	1.245	1.066	0.869	0.608
225	2.359	1.973	1.724	1.564	1.409	1.269	1.088	0.890	0.608
230	2.393	2.004	1.754	1.591	1.435	1.293	1.111	0.912	0.608
235	2.427	2.035	1.785	1.619	1.461	1.318	1.133	0.933	0.608
240	2.461	2.067	1.815	1.647	1.487	1.342	1.156	0.954	0.608
245	2.495	2.098	1.845	1.675	1.512	1.366	1.179	0.976	0.608
250	2.529	2.130	1.876	1.703	1.538	1.391	1.201	0.997	0.608
255	2.563	2.161	1.906	1.731	1.564	1.415	1.224	1.018	0.608
260	2.597	2.193	1.937	1.759	1.590	1.439	1.246	1.039	0.608
265	2.631	2.224	1.967	1.787	1.616	1.464	1.269	1.061	0.608
270	2.666	2.255	1.997	1.815	1.642	1.488	1.292	1.082	0.608
275	2.700	2.287	2.028	1.842	1.667	1.512	1.314	1.103	0.608
280	2.734	2.318	2.058	1.870	1.693	1.537	1.337	1.124	0.608

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	2.768	2.350	2.089	1.898	1.719	1.561	1.359	1.146	0.613
290	2.802	2.381	2.119	1.926	1.745	1.585	1.382	1.167	0.634
295	2.883	2.413	2.149	1.954	1.771	1.609	1.405	1.188	0.656
300	2.974	2.444	2.180	1.982	1.797	1.634	1.427	1.209	0.678
305	3.065	2.475	2.210	2.010	1.822	1.658	1.450	1.231	0.699
310	3.157	2.507	2.241	2.038	1.848	1.682	1.472	1.252	0.721
315	3.248	2.538	2.271	2.066	1.874	1.707	1.495	1.273	0.742
320	3.339	2.570	2.301	2.093	1.900	1.731	1.518	1.294	0.764
325	3.431	2.601	2.332	2.121	1.926	1.755	1.540	1.316	0.786
330	3.522	2.632	2.362	2.149	1.952	1.780	1.563	1.337	0.807
335	3.614	2.664	2.393	2.177	1.977	1.804	1.585	1.358	0.829
340	3.705	2.695	2.423	2.205	2.003	1.828	1.608	1.380	0.850
345	3.795	2.727	2.453	2.233	2.029	1.852	1.631	1.401	0.872
350	3.879	2.758	2.484	2.261	2.055	1.877	1.653	1.422	0.894
355	3.964	2.790	2.514	2.289	2.081	1.901	1.676	1.443	0.915
360	4.048	2.866	2.545	2.316	2.107	1.925	1.698	1.465	0.937
365	4.133	3.008	2.575	2.344	2.132	1.950	1.721	1.486	0.958

**Table 5** Required thickness (mm) of Interchar 1190 for a fire resistance period of 75 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	1.621	1.286	1.019	0.713	0.653	0.608	0.608	0.608	0.608
55	1.672	1.324	1.052	0.748	0.685	0.626	0.608	0.608	0.608
60	1.724	1.361	1.085	0.782	0.717	0.655	0.608	0.608	0.608
65	1.775	1.399	1.118	0.816	0.748	0.685	0.608	0.608	0.608
70	1.826	1.437	1.151	0.851	0.780	0.715	0.633	0.608	0.608
75	1.878	1.475	1.184	0.885	0.811	0.744	0.660	0.608	0.608
80	1.929	1.513	1.217	0.920	0.843	0.774	0.687	0.608	0.608
85	1.980	1.551	1.250	0.954	0.875	0.803	0.715	0.620	0.608
90	2.032	1.589	1.283	0.988	0.906	0.833	0.742	0.646	0.608
95	2.083	1.627	1.316	1.023	0.938	0.862	0.769	0.671	0.608
100	2.135	1.665	1.350	1.057	0.970	0.892	0.796	0.697	0.608
105	2.186	1.703	1.383	1.091	1.001	0.921	0.823	0.722	0.608
110	2.237	1.741	1.416	1.126	1.033	0.951	0.851	0.747	0.622
115	2.289	1.779	1.449	1.160	1.064	0.981	0.878	0.773	0.645
120	2.340	1.816	1.482	1.194	1.096	1.010	0.905	0.798	0.668
125	2.391	1.854	1.515	1.229	1.128	1.040	0.932	0.823	0.690
130	2.443	1.892	1.548	1.263	1.159	1.069	0.960	0.849	0.713
135	2.494	1.930	1.581	1.298	1.191	1.099	0.987	0.874	0.736
140	2.545	1.968	1.614	1.332	1.222	1.128	1.014	0.900	0.759
145	2.597	2.006	1.647	1.366	1.254	1.158	1.041	0.925	0.781
150	2.648	2.044	1.681	1.401	1.286	1.188	1.069	0.950	0.804
155	2.699	2.082	1.714	1.435	1.317	1.217	1.096	0.976	0.827
160	2.751	2.120	1.747	1.469	1.349	1.247	1.123	1.001	0.850

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	2.802	2.158	1.780	1.504	1.381	1.276	1.150	1.026	0.872
170	2.852	2.196	1.813	1.538	1.412	1.306	1.178	1.052	0.895
175	2.902	2.234	1.846	1.572	1.444	1.335	1.205	1.077	0.918
180	2.952	2.271	1.879	1.607	1.475	1.365	1.232	1.103	0.940
185	3.002	2.309	1.912	1.641	1.507	1.395	1.259	1.128	0.963
190	3.052	2.347	1.945	1.676	1.539	1.424	1.286	1.153	0.986
195	3.102	2.385	1.978	1.710	1.570	1.454	1.314	1.179	1.009
200	3.152	2.423	2.011	1.744	1.602	1.483	1.341	1.204	1.031
205	3.203	2.461	2.045	1.779	1.634	1.513	1.368	1.230	1.054
210	3.253	2.499	2.078	1.813	1.665	1.542	1.395	1.255	1.077
215	3.303	2.537	2.111	1.847	1.697	1.572	1.423	1.280	1.100
220	3.353	2.575	2.144	1.882	1.728	1.602	1.450	1.306	1.122
225	3.403	2.613	2.177	1.916	1.760	1.631	1.477	1.331	1.145
230	3.453	2.651	2.210	1.950	1.792	1.661	1.504	1.356	1.168
235	3.503	2.689	2.243	1.985	1.823	1.690	1.532	1.382	1.190
240	3.553	2.726	2.276	2.019	1.855	1.720	1.559	1.407	1.213
245	3.603	2.764	2.309	2.054	1.887	1.749	1.586	1.433	1.236
250	3.653	2.802	2.342	2.088	1.918	1.779	1.613	1.458	1.259
255	3.703	2.875	2.376	2.122	1.950	1.809	1.641	1.483	1.281
260	3.753	2.954	2.409	2.157	1.981	1.838	1.668	1.509	1.304
265	3.820	3.033	2.442	2.191	2.013	1.868	1.695	1.534	1.327
270	3.905	3.112	2.475	2.225	2.045	1.897	1.722	1.559	1.350
275	3.989	3.192	2.508	2.260	2.076	1.927	1.749	1.585	1.372
280	4.074	3.271	2.541	2.294	2.108	1.956	1.777	1.610	1.395

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	4.158	3.350	2.574	2.328	2.139	1.986	1.804	1.636	1.418
290	4.242	3.429	2.607	2.363	2.171	2.016	1.831	1.661	1.440
295	4.327	3.508	2.640	2.397	2.203	2.045	1.858	1.686	1.463
300	4.411	3.588	2.673	2.432	2.234	2.075	1.886	1.712	1.486
305	4.495	3.667	2.707	2.466	2.266	2.104	1.913	1.737	1.509
310	4.580	3.746	2.740	2.500	2.298	2.134	1.940	1.762	1.531
315	4.664	3.826	2.773	2.535	2.329	2.163	1.967	1.788	1.554
320	4.748	3.907	2.806	2.569	2.361	2.193	1.995	1.813	1.577
325	4.873	3.988	2.971	2.603	2.392	2.222	2.022	1.839	1.600
330	5.002	4.069	3.147	2.638	2.424	2.252	2.049	1.864	1.622
335	5.131	4.150	3.323	2.672	2.456	2.282	2.076	1.889	1.645
340	5.261	4.231	3.499	2.706	2.487	2.311	2.104	1.915	1.668
345	5.390	4.311	3.676	2.741	2.519	2.341	2.131	1.940	1.690
350	5.519	4.392	3.806	2.775	2.551	2.370	2.158	1.966	1.713
355	5.648	4.473	3.874	2.814	2.582	2.400	2.185	1.991	1.736
360	5.777	4.554	3.942	2.976	2.614	2.429	2.212	2.016	1.759
365	5.906	4.635	4.010	3.138	2.645	2.459	2.240	2.042	1.781



**Table 6** Required thickness (mm) of Interchar 1190 for a fire resistance period of 90 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	2.053	1.683	1.389	1.144	0.940	0.706	0.645	0.608	0.608
55	2.147	1.744	1.431	1.182	0.974	0.741	0.677	0.610	0.608
60	2.242	1.805	1.474	1.221	1.008	0.776	0.710	0.640	0.608
65	2.336	1.866	1.517	1.259	1.043	0.812	0.742	0.670	0.608
70	2.431	1.927	1.559	1.298	1.077	0.847	0.775	0.701	0.614
75	2.525	1.988	1.602	1.337	1.111	0.882	0.807	0.731	0.642
80	2.620	2.049	1.645	1.375	1.146	0.917	0.840	0.761	0.669
85	2.714	2.110	1.687	1.414	1.180	0.952	0.872	0.792	0.696
90	2.809	2.171	1.730	1.452	1.214	0.988	0.905	0.822	0.724
95	2.860	2.232	1.773	1.491	1.248	1.023	0.937	0.853	0.751
100	2.912	2.293	1.816	1.530	1.283	1.058	0.970	0.883	0.778
105	2.964	2.354	1.858	1.568	1.317	1.093	1.002	0.913	0.806
110	3.016	2.415	1.901	1.607	1.351	1.129	1.035	0.944	0.833
115	3.067	2.476	1.944	1.645	1.386	1.164	1.067	0.974	0.860
120	3.119	2.537	1.986	1.684	1.420	1.199	1.099	1.004	0.888
125	3.171	2.598	2.029	1.723	1.454	1.234	1.132	1.035	0.915
130	3.223	2.659	2.072	1.761	1.488	1.269	1.164	1.065	0.943
135	3.274	2.720	2.114	1.800	1.523	1.305	1.197	1.095	0.970
140	3.326	2.781	2.157	1.838	1.557	1.340	1.229	1.126	0.997
145	3.378	2.835	2.200	1.877	1.591	1.375	1.262	1.156	1.025
150	3.430	2.885	2.242	1.915	1.626	1.410	1.294	1.186	1.052
155	3.482	2.935	2.285	1.954	1.660	1.446	1.327	1.217	1.079
160	3.533	2.984	2.328	1.993	1.694	1.481	1.359	1.247	1.107

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	3.585	3.034	2.370	2.031	1.729	1.516	1.392	1.277	1.134
170	3.637	3.083	2.413	2.070	1.763	1.551	1.424	1.308	1.162
175	3.689	3.133	2.456	2.108	1.797	1.587	1.457	1.338	1.189
180	3.740	3.182	2.498	2.147	1.831	1.622	1.489	1.368	1.216
185	3.800	3.232	2.541	2.186	1.866	1.657	1.521	1.399	1.244
190	3.880	3.281	2.584	2.224	1.900	1.692	1.554	1.429	1.271
195	3.960	3.331	2.626	2.263	1.934	1.727	1.586	1.459	1.298
200	4.039	3.380	2.669	2.301	1.969	1.763	1.619	1.490	1.326
205	4.119	3.430	2.712	2.340	2.003	1.798	1.651	1.520	1.353
210	4.199	3.479	2.754	2.378	2.037	1.833	1.684	1.550	1.381
215	4.279	3.529	2.797	2.417	2.071	1.868	1.716	1.581	1.408
220	4.359	3.578	2.861	2.456	2.106	1.904	1.749	1.611	1.435
225	4.438	3.628	2.932	2.494	2.140	1.939	1.781	1.641	1.463
230	4.518	3.677	3.002	2.533	2.174	1.974	1.814	1.672	1.490
235	4.598	3.727	3.073	2.571	2.209	2.009	1.846	1.702	1.517
240	4.678	3.776	3.144	2.610	2.243	2.044	1.879	1.732	1.545
245	4.758	3.851	3.215	2.649	2.277	2.080	1.911	1.763	1.572
250	4.878	3.927	3.286	2.687	2.311	2.115	1.943	1.793	1.599
255	4.998	4.002	3.357	2.726	2.346	2.150	1.976	1.823	1.627
260	5.118	4.078	3.428	2.764	2.380	2.185	2.008	1.854	1.654
265	5.238	4.153	3.499	2.803	2.414	2.221	2.041	1.884	1.682
270	5.357	4.228	3.570	2.887	2.449	2.256	2.073	1.914	1.709
275	5.477	4.304	3.641	2.979	2.483	2.291	2.106	1.945	1.736
280	5.597	4.379	3.712	3.071	2.517	2.326	2.138	1.975	1.764

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	5.717	4.455	3.783	3.163	2.552	2.361	2.171	2.005	1.791
290	5.837	4.530	3.860	3.255	2.586	2.397	2.203	2.036	1.818
295	5.957	4.605	3.937	3.347	2.620	2.432	2.236	2.066	1.846
300	6.076	4.681	4.014	3.439	2.654	2.467	2.268	2.096	1.873
305	6.196	4.757	4.091	3.531	2.689	2.502	2.301	2.127	1.901
310	6.316	4.911	4.168	3.622	2.723	2.538	2.333	2.157	1.928
315	6.436	5.065	4.245	3.714	2.757	2.573	2.365	2.187	1.955
320	6.556	5.220	4.322	3.800	2.792	2.608	2.398	2.218	1.983
325	6.675	5.374	4.399	3.874	2.898	2.643	2.430	2.248	2.010
330	6.795	5.529	4.476	3.948	3.074	2.678	2.463	2.279	2.037
335	6.915	5.683	4.553	4.022	3.250	2.714	2.495	2.309	2.065
340	7.035	5.838	4.630	4.095	3.425	2.749	2.528	2.339	2.092
345	7.155	5.992	4.707	4.169	3.601	2.784	2.560	2.370	2.119
350	7.274	6.147	4.819	4.243	3.777	2.857	2.593	2.400	2.147
355	7.394	6.301	4.987	4.316	3.849	3.014	2.625	2.430	2.174
360	7.514	6.455	5.155	4.390	3.921	3.170	2.658	2.461	2.202
365	-	6.610	5.324	4.464	3.993	3.326	2.690	2.491	2.229

**Table 7** Required thickness (mm) of Interchar 1190 for a fire resistance period of 105 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	2.484	2.065	1.739	1.474	1.245	1.051	0.879	0.694	0.608
55	2.622	2.165	1.813	1.527	1.288	1.091	0.914	0.729	0.638
60	2.760	2.264	1.886	1.580	1.332	1.131	0.950	0.764	0.670
65	2.869	2.363	1.960	1.633	1.376	1.172	0.985	0.799	0.702
70	2.962	2.462	2.033	1.686	1.419	1.212	1.020	0.835	0.735
75	3.055	2.562	2.107	1.739	1.463	1.252	1.055	0.870	0.767
80	3.148	2.661	2.181	1.792	1.507	1.292	1.091	0.905	0.799
85	3.241	2.760	2.254	1.845	1.550	1.333	1.126	0.940	0.831
90	3.335	2.840	2.328	1.898	1.594	1.373	1.161	0.975	0.864
95	3.428	2.902	2.402	1.951	1.637	1.413	1.196	1.011	0.896
100	3.521	2.963	2.475	2.004	1.681	1.453	1.231	1.046	0.928
105	3.614	3.025	2.549	2.057	1.725	1.494	1.267	1.081	0.961
110	3.707	3.087	2.622	2.110	1.768	1.534	1.302	1.116	0.993
115	3.938	3.148	2.696	2.163	1.812	1.574	1.337	1.151	1.025
120	4.581	3.210	2.770	2.216	1.855	1.614	1.372	1.187	1.057
125	5.070	3.271	2.832	2.269	1.899	1.655	1.408	1.222	1.090
130	5.501	3.333	2.881	2.322	1.943	1.695	1.443	1.257	1.122
135	5.933	3.395	2.931	2.375	1.986	1.735	1.478	1.292	1.154
140	6.364	3.456	2.981	2.428	2.030	1.775	1.513	1.328	1.186
145	6.795	3.518	3.030	2.481	2.074	1.816	1.549	1.363	1.219
150	7.226	3.579	3.080	2.534	2.117	1.856	1.584	1.398	1.251
155	-	3.641	3.129	2.587	2.161	1.896	1.619	1.433	1.283
160	-	3.703	3.179	2.640	2.204	1.937	1.654	1.468	1.316

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	-	3.764	3.229	2.693	2.248	1.977	1.690	1.504	1.348
170	-	3.829	3.278	2.746	2.292	2.017	1.725	1.539	1.380
175	-	3.894	3.328	2.799	2.335	2.057	1.760	1.574	1.412
180	-	3.959	3.377	2.858	2.379	2.098	1.795	1.609	1.445
185	-	4.025	3.427	2.918	2.423	2.138	1.830	1.644	1.477
190	-	4.090	3.476	2.979	2.466	2.178	1.866	1.680	1.509
195	-	4.155	3.526	3.039	2.510	2.218	1.901	1.715	1.541
200	-	4.221	3.576	3.100	2.553	2.259	1.936	1.750	1.574
205	-	4.286	3.625	3.160	2.597	2.299	1.971	1.785	1.606
210	-	4.352	3.675	3.220	2.641	2.339	2.007	1.820	1.638
215	-	4.417	3.724	3.281	2.684	2.379	2.042	1.856	1.670
220	-	4.482	3.774	3.341	2.728	2.420	2.077	1.891	1.703
225	-	4.548	3.848	3.402	2.771	2.460	2.112	1.926	1.735
230	-	4.613	3.923	3.462	2.819	2.500	2.148	1.961	1.767
235	-	4.678	3.998	3.522	2.890	2.540	2.183	1.996	1.800
240	-	4.744	4.074	3.583	2.960	2.581	2.218	2.032	1.832
245	-	5.471	4.149	3.643	3.031	2.621	2.253	2.067	1.864
250	-	6.348	4.224	3.704	3.101	2.661	2.288	2.102	1.896
255	-	7.224	4.300	3.764	3.172	2.701	2.324	2.137	1.929
260	-	-	4.375	3.830	3.242	2.742	2.359	2.173	1.961
265	-	-	4.450	3.898	3.313	2.782	2.394	2.208	1.993
270	-	-	4.526	3.966	3.383	2.839	2.429	2.243	2.025
275	-	-	4.601	4.034	3.454	2.930	2.465	2.278	2.058
280	-	-	4.676	4.101	3.524	3.020	2.500	2.313	2.090

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	-	-	4.752	4.169	3.595	3.110	2.535	2.349	2.122
290	-	-	4.910	4.237	3.666	3.200	2.570	2.384	2.154
295	-	-	5.073	4.305	3.736	3.290	2.606	2.419	2.187
300	-	-	5.235	4.373	3.812	3.381	2.641	2.454	2.219
305	-	-	5.398	4.441	3.897	3.471	2.676	2.489	2.251
310	-	-	5.561	4.508	3.981	3.561	2.711	2.525	2.284
315	-	-	5.724	4.576	4.066	3.651	2.747	2.560	2.316
320	-	-	5.886	4.644	4.150	3.741	2.782	2.595	2.348
325	-	-	6.049	4.712	4.235	3.829	2.849	2.630	2.380
330	-	-	6.212	4.828	4.319	3.914	3.016	2.665	2.413
335	-	-	6.374	5.033	4.404	4.000	3.182	2.701	2.445
340	-	-	6.537	5.238	4.488	4.086	3.349	2.736	2.477
345	-	-	6.700	5.443	4.573	4.172	3.516	2.771	2.509
350	-	-	6.862	5.648	4.657	4.257	3.682	2.806	2.542
355	-	-	7.025	5.853	4.742	4.343	3.815	2.938	2.574
360	-	-	7.188	6.058	4.935	4.429	3.901	3.076	2.606
365	-	-	7.351	6.263	5.148	4.514	3.988	3.214	2.639

**Table 8** Required thickness (mm) of Interchar 1190 for a fire resistance period of 120 minutes

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
50	2.890	2.448	2.086	1.789	1.538	1.321	1.145	0.945	0.686
55	3.027	2.586	2.194	1.874	1.603	1.373	1.190	0.985	0.723
60	3.164	2.723	2.302	1.958	1.668	1.426	1.235	1.025	0.760
65	3.301	2.846	2.410	2.042	1.734	1.478	1.279	1.066	0.798
70	3.438	2.947	2.519	2.127	1.799	1.530	1.324	1.106	0.835
75	3.575	3.047	2.627	2.211	1.864	1.583	1.369	1.146	0.872
80	3.711	3.147	2.735	2.296	1.929	1.635	1.414	1.187	0.910
85	3.876	3.247	2.832	2.380	1.994	1.687	1.459	1.227	0.947
90	4.065	3.348	2.906	2.465	2.059	1.740	1.504	1.267	0.984
95	4.254	3.448	2.980	2.549	2.124	1.792	1.548	1.308	1.021
100	4.443	3.548	3.054	2.634	2.189	1.844	1.593	1.348	1.059
105	4.632	3.648	3.128	2.718	2.254	1.897	1.638	1.388	1.096
110	5.316	3.749	3.201	2.802	2.319	1.949	1.683	1.429	1.133
115	6.922	4.129	3.275	2.858	2.384	2.001	1.728	1.469	1.170
120	-	4.622	3.349	2.911	2.449	2.054	1.773	1.510	1.208
125	-	5.114	3.423	2.965	2.514	2.106	1.817	1.550	1.245
130	-	5.607	3.497	3.018	2.579	2.159	1.862	1.590	1.282
135	-	6.100	3.571	3.071	2.644	2.211	1.907	1.631	1.319
140	-	6.592	3.644	3.125	2.709	2.263	1.952	1.671	1.357
145	-	7.085	3.718	3.178	2.774	2.316	1.997	1.711	1.394
150	-	7.577	3.845	3.231	2.835	2.368	2.041	1.752	1.431
155	-	-	4.189	3.285	2.890	2.420	2.086	1.792	1.469
160	-	-	4.532	3.338	2.945	2.473	2.131	1.832	1.506

Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
165	-	-	4.875	3.391	3.001	2.525	2.176	1.873	1.543
170	-	-	5.218	3.445	3.056	2.577	2.221	1.913	1.580
175	-	-	5.561	3.498	3.111	2.630	2.266	1.953	1.618
180	-	-	5.904	3.552	3.166	2.682	2.310	1.994	1.655
185	-	-	6.247	3.605	3.222	2.734	2.355	2.034	1.692
190	-	-	6.590	3.658	3.277	2.787	2.400	2.075	1.729
195	-	-	6.933	3.712	3.332	2.846	2.445	2.115	1.767
200	-	-	7.277	3.765	3.387	2.910	2.490	2.155	1.804
205	-	-	7.620	3.837	3.443	2.975	2.535	2.196	1.841
210	-	-	-	3.914	3.498	3.039	2.579	2.236	1.878
215	-	-	-	3.991	3.553	3.103	2.624	2.276	1.916
220	-	-	-	4.069	3.609	3.167	2.669	2.317	1.953
225	-	-	-	4.146	3.664	3.231	2.714	2.357	1.990
230	-	-	-	4.223	3.719	3.296	2.759	2.397	2.028
235	-	-	-	4.301	3.774	3.360	2.803	2.438	2.065
240	-	-	-	4.378	3.845	3.424	2.870	2.478	2.102
245	-	-	-	4.455	3.916	3.488	2.939	2.518	2.139
250	-	-	-	4.533	3.988	3.553	3.009	2.559	2.177
255	-	-	-	4.610	4.059	3.617	3.078	2.599	2.214
260	-	-	-	4.687	4.131	3.681	3.147	2.640	2.251
265	-	-	-	4.774	4.202	3.745	3.217	2.680	2.288
270	-	-	-	4.936	4.274	3.817	3.286	2.720	2.326
275	-	-	-	5.098	4.345	3.896	3.355	2.761	2.363
280	-	-	-	5.260	4.417	3.976	3.424	2.801	2.400



Section factor (m <sup>-1</sup> )	Design temperature (°C)								
	350	400	450	500	550	600	650	700	750
285	-	-	-	5.422	4.488	4.055	3.494	2.886	2.437
290	-	-	-	5.584	4.559	4.134	3.563	2.980	2.475
295	-	-	-	5.747	4.631	4.213	3.632	3.075	2.512
300	-	-	-	5.909	4.702	4.292	3.702	3.169	2.549
305	-	-	-	6.071	4.811	4.372	3.771	3.264	2.586
310	-	-	-	6.233	5.028	4.451	3.868	3.359	2.624
315	-	-	-	6.395	5.245	4.530	3.969	3.453	2.661
320	-	-	-	6.557	5.462	4.609	4.069	3.548	2.698
325	-	-	-	6.719	5.679	4.688	4.169	3.643	2.736
330	-	-	-	6.881	5.896	4.795	4.269	3.737	2.773
335	-	-	-	7.043	6.113	5.060	4.370	3.837	2.818
340	-	-	-	7.205	6.330	5.324	4.470	3.941	3.024
345	-	-	-	7.367	6.547	5.588	4.570	4.045	3.230
350	-	-	-	7.529	6.764	5.852	4.671	4.149	3.436
355	-	-	-	-	6.981	6.117	4.800	4.252	3.642
360	-	-	-	-	7.198	6.381	5.093	4.356	3.822
365	-	-	-	-	7.415	6.645	5.385	4.460	3.953

## Notes:

1. Results from analysis of I- or H -sections are directly applicable to angles, channels and T- sections for the same section factor, whether used as individual elements or as bracing.
2. The results of the analysis for columns can be applied to I- and H- section beams exposed on all four sides up to the maximum dry film thickness of 4.366 mm.