This is to certify that the specimen described below has been examined by BRANZ Ltd on behalf of

Sherwin Williams UK Limited
Avenue One
Station Lane
Witney
Oxfordshire
OX28 4XR
United Kingdom

Test Standard: AS 4100:2020, Section 12 FIRE inc AMD 1-2021, AS 1530.4:2014

Product Name: FIRETEX FX6002

Product Description: Three-component intumescent coating.

FIRETEX FX6002 for three and four sided fire exposure of I and H beams and columns including re-entrants, rectangular and square hollow beams and columns and circular hollow columns for various section factors and dry film thicknesses at design temperatures from 350 °C - 750 °C:

Section Type	Section Factor Range - m^{-1}		Coating Thickness Range - mm	
	Min	Max	Min	Max
I/H Beams	50	400	0.367	5.770
I/H Columns	50	475	0.472	7.520
RHS/SHS Beams	40	350	0.366	5.661
RHS/SHS Columns	50	355	0.369	8.430
CHS Columns	50	330	0.380	8.492

The test data used for the analysis described in the BRANZ Fire Assessment Report FC20006-01 was taken from the Warringtonfire assessment report WF407381 Issue 4 which has been provided to BRANZ and is retained on file.

Refer to Table 1 to Table 46 for the loading tables.

Orientation: Three and Four sided

A full description of the test specimen and the test results are given in BRANZ Test Reports and Assessments:

BRANZ Fire Assessment Report FC20006-01-1

Conditions of laboratory registration by IANZ do not allow assessments by the Registered Laboratory to be covered by IANZ.

Regulatory authorities are advised to examine test reports before approving any product.

The product was assessed in accordance with AS 4100:2020 inc AMD 1-2021, Steel Structures, Section 12.6.1. following the permitted method of assessment in accordance with EN13381-8:2013, to provide an FRL in accordance with AS 1530.4:2014

The assessed results were as follows:

Structural Adequacy up to 150 minutes
FRR/FRL 150/-/-

Certificate Issued: 8 September 2025

Certificate No. FC20006-01-2-C1

This Laboratory is accredited by International Accreditation New Zealand (IANZ).

The National Association of Testing Authorities (NATA) and International Accreditation New Zealand (IANZ) are both signatories of the ILAC Mutual Recognition Agreement.

S Whatham
Fire Testing Engineer
For BRANZ Limited

The following statement is required by the test standard *"This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance."*

Section Factor m^{-1}	Table 1: FIRETEX FX6002 I/H Beams: Fire Resistance Period 15 Minutes									
	Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
55	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
60	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
65	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
70	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
75	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
80	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
85	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
90	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
95	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
100	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
105	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
110	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
115	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
120	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
125	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
130	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
135	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
140	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
145	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
150	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
155	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
160	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
165	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
170	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
175	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
180	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
185	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
190	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
195	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
200	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
205	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
210	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
215	0.375	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
220	0.388	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
225	0.400	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
230	0.413	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
235	0.426	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
240	0.439	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
245	0.451	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
250	0.464	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
255	0.477	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
260	0.490	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
265	0.502	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
270	0.515	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
275	0.528	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
280	0.540	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
285	0.553	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
290	0.566	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
295	0.579	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
300	0.591	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
305	0.604	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
310	0.617	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
315	0.630	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
320	0.642	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
325	0.655	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
330	0.668	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
335	0.681	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
340	0.693	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
345	0.706	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
350	0.719	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
355	0.732	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
360	0.744	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
365	0.757	0.378	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
370	0.770	0.389	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
375	0.783	0.400	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
380	0.795	0.411	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
385	0.808	0.422	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
390	0.821	0.433	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
395	0.834	0.444	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
400	0.846	0.455	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 2: FIRETEX FX6002 I/H Beams: Fire Resistance Period 20 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
55	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
60	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
65	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
70	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
75	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
80	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
85	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
90	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
95	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
100	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
105	0.371	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
110	0.386	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
115	0.401	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
120	0.416	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
125	0.431	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
130	0.446	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
135	0.461	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
140	0.476	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
145	0.491	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
150	0.506	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
155	0.521	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
160	0.535	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
165	0.550	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
170	0.565	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
175	0.580	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
180	0.595	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
185	0.610	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
190	0.625	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
195	0.640	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
200	0.655	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
205	0.670	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
210	0.685	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
215	0.700	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
220	0.715	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
225	0.730	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
230	0.744	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
235	0.759	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
240	0.774	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
245	0.789	0.369	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
250	0.804	0.383	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
255	0.819	0.397	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
260	0.834	0.412	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
265	0.849	0.426	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
270	0.864	0.441	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
275	0.879	0.455	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
280	0.894	0.469	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
285	0.909	0.484	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
290	0.924	0.498	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
295	0.938	0.512	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
300	0.953	0.527	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
305	0.968	0.541	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
310	0.983	0.556	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
315	0.998	0.570	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
320	1.013	0.584	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
325	1.028	0.599	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
330	1.043	0.613	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
335	1.058	0.627	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
340	1.073	0.642	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
345	1.088	0.656	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
350	1.103	0.671	0.373	0.367	0.367	0.367	0.367	0.367	0.367	0.367
355	1.118	0.685	0.386	0.367	0.367	0.367	0.367	0.367	0.367	0.367
360	1.132	0.699	0.399	0.367	0.367	0.367	0.367	0.367	0.367	0.367
365	1.147	0.714	0.411	0.367	0.367	0.367	0.367	0.367	0.367	0.367
370	1.162	0.728	0.424	0.367	0.367	0.367	0.367	0.367	0.367	0.367
375	1.177	0.742	0.437	0.367	0.367	0.367	0.367	0.367	0.367	0.367
380	1.192	0.757	0.449	0.367	0.367	0.367	0.367	0.367	0.367	0.367
385	1.207	0.771	0.462	0.367	0.367	0.367	0.367	0.367	0.367	0.367
390	1.222	0.786	0.475	0.367	0.367	0.367	0.367	0.367	0.367	0.367
395	1.237	0.800	0.487	0.367	0.367	0.367	0.367	0.367	0.367	0.367
400	1.252	0.814	0.500	0.367	0.367	0.367	0.367	0.367	0.367	0.367

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 3: FIRETEX FX6002 I/H Beams: Fire Resistance Period 30 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
55	0.378	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
60	0.408	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
65	0.438	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
70	0.468	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
75	0.498	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
80	0.529	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
85	0.559	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
90	0.589	0.383	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
95	0.619	0.400	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
100	0.649	0.417	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
105	0.679	0.434	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
110	0.709	0.452	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
115	0.739	0.469	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
120	0.769	0.486	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
125	0.799	0.503	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
130	0.829	0.521	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
135	0.859	0.538	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
140	0.889	0.555	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
145	0.919	0.572	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
150	0.949	0.590	0.368	0.367	0.367	0.367	0.367	0.367	0.367	0.367
155	0.979	0.607	0.384	0.367	0.367	0.367	0.367	0.367	0.367	0.367
160	1.009	0.624	0.400	0.367	0.367	0.367	0.367	0.367	0.367	0.367
165	1.039	0.641	0.415	0.367	0.367	0.367	0.367	0.367	0.367	0.367
170	1.069	0.659	0.431	0.367	0.367	0.367	0.367	0.367	0.367	0.367
175	1.099	0.676	0.447	0.367	0.367	0.367	0.367	0.367	0.367	0.367
180	1.129	0.693	0.463	0.367	0.367	0.367	0.367	0.367	0.367	0.367
185	1.159	0.710	0.479	0.367	0.367	0.367	0.367	0.367	0.367	0.367
190	1.189	0.727	0.494	0.367	0.367	0.367	0.367	0.367	0.367	0.367
195	1.219	0.745	0.510	0.367	0.367	0.367	0.367	0.367	0.367	0.367
200	1.249	0.762	0.526	0.367	0.367	0.367	0.367	0.367	0.367	0.367
205	1.279	0.779	0.542	0.367	0.367	0.367	0.367	0.367	0.367	0.367
210	1.309	0.796	0.557	0.367	0.367	0.367	0.367	0.367	0.367	0.367
215	1.339	0.814	0.573	0.367	0.367	0.367	0.367	0.367	0.367	0.367
220	1.369	0.831	0.589	0.367	0.367	0.367	0.367	0.367	0.367	0.367
225	1.400	0.848	0.605	0.367	0.367	0.367	0.367	0.367	0.367	0.367
230	1.430	0.865	0.621	0.367	0.367	0.367	0.367	0.367	0.367	0.367
235	1.460	0.883	0.636	0.367	0.367	0.367	0.367	0.367	0.367	0.367
240	1.490	0.900	0.652	0.367	0.367	0.367	0.367	0.367	0.367	0.367
245	1.517	0.917	0.668	0.367	0.367	0.367	0.367	0.367	0.367	0.367
250	1.536	0.934	0.684	0.367	0.367	0.367	0.367	0.367	0.367	0.367
255	1.554	0.952	0.699	0.367	0.367	0.367	0.367	0.367	0.367	0.367
260	1.573	0.969	0.715	0.367	0.367	0.367	0.367	0.367	0.367	0.367
265	1.592	0.986	0.731	0.367	0.367	0.367	0.367	0.367	0.367	0.367
270	1.610	1.003	0.747	0.367	0.367	0.367	0.367	0.367	0.367	0.367
275	1.629	1.021	0.763	0.367	0.367	0.367	0.367	0.367	0.367	0.367
280	1.647	1.038	0.778	0.370	0.367	0.367	0.367	0.367	0.367	0.367
285	1.666	1.055	0.794	0.388	0.367	0.367	0.367	0.367	0.367	0.367
290	1.685	1.072	0.810	0.406	0.367	0.367	0.367	0.367	0.367	0.367
295	1.703	1.090	0.826	0.424	0.367	0.367	0.367	0.367	0.367	0.367
300	1.722	1.107	0.841	0.442	0.367	0.367	0.367	0.367	0.367	0.367
305	1.740	1.124	0.857	0.460	0.367	0.367	0.367	0.367	0.367	0.367
310	1.759	1.141	0.873	0.478	0.367	0.367	0.367	0.367	0.367	0.367
315	1.778	1.159	0.889	0.496	0.367	0.367	0.367	0.367	0.367	0.367
320	1.796	1.176	0.905	0.514	0.367	0.367	0.367	0.367	0.367	0.367
325	1.815	1.193	0.920	0.532	0.367	0.367	0.367	0.367	0.367	0.367
330	1.834	1.210	0.936	0.550	0.367	0.367	0.367	0.367	0.367	0.367
335	1.852	1.228	0.952	0.568	0.367	0.367	0.367	0.367	0.367	0.367
340	1.871	1.245	0.968	0.585	0.367	0.367	0.367	0.367	0.367	0.367
345	1.889	1.262	0.984	0.603	0.376	0.367	0.367	0.367	0.367	0.367
350	1.908	1.279	0.999	0.621	0.392	0.367	0.367	0.367	0.367	0.367
355	1.927	1.297	1.015	0.639	0.408	0.367	0.367	0.367	0.367	0.367
360	1.945	1.314	1.031	0.657	0.424	0.367	0.367	0.367	0.367	0.367
365	1.964	1.331	1.047	0.675	0.440	0.367	0.367	0.367	0.367	0.367
370	1.982	1.348	1.062	0.693	0.456	0.367	0.367	0.367	0.367	0.367
375	2.001	1.366	1.078	0.711	0.472	0.367	0.367	0.367	0.367	0.367
380	2.020	1.383	1.094	0.729	0.489	0.367	0.367	0.367	0.367	0.367
385	2.038	1.400	1.110	0.747	0.505	0.367	0.367	0.367	0.367	0.367
390	2.057	1.417	1.126	0.765	0.521	0.367	0.367	0.367	0.367	0.367
395	2.075	1.435	1.141	0.783	0.537	0.367	0.367	0.367	0.367	0.367
400	2.094	1.452	1.157	0.801	0.553	0.367	0.367	0.367	0.367	0.367

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 4: FIRETEX FX6002 I/H Beams: Fire Resistance Period 45 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	0.743	0.415	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
55	0.817	0.460	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
60	0.892	0.507	0.367	0.367	0.367	0.367	0.367	0.367	0.367	0.367
65	0.966	0.554	0.371	0.367	0.367	0.367	0.367	0.367	0.367	0.367
70	1.041	0.601	0.399	0.367	0.367	0.367	0.367	0.367	0.367	0.367
75	1.115	0.649	0.426	0.367	0.367	0.367	0.367	0.367	0.367	0.367
80	1.190	0.696	0.453	0.367	0.367	0.367	0.367	0.367	0.367	0.367
85	1.265	0.743	0.480	0.367	0.367	0.367	0.367	0.367	0.367	0.367
90	1.339	0.790	0.507	0.369	0.367	0.367	0.367	0.367	0.367	0.367
95	1.414	0.837	0.534	0.388	0.367	0.367	0.367	0.367	0.367	0.367
100	1.488	0.884	0.562	0.408	0.367	0.367	0.367	0.367	0.367	0.367
105	1.528	0.931	0.589	0.427	0.367	0.367	0.367	0.367	0.367	0.367
110	1.550	0.978	0.616	0.447	0.367	0.367	0.367	0.367	0.367	0.367
115	1.572	1.025	0.643	0.466	0.367	0.367	0.367	0.367	0.367	0.367
120	1.594	1.072	0.670	0.485	0.367	0.367	0.367	0.367	0.367	0.367
125	1.616	1.119	0.698	0.505	0.367	0.367	0.367	0.367	0.367	0.367
130	1.639	1.166	0.725	0.524	0.367	0.367	0.367	0.367	0.367	0.367
135	1.661	1.213	0.752	0.544	0.375	0.367	0.367	0.367	0.367	0.367
140	1.683	1.260	0.779	0.563	0.394	0.367	0.367	0.367	0.367	0.367
145	1.705	1.308	0.806	0.582	0.412	0.367	0.367	0.367	0.367	0.367
150	1.727	1.355	0.833	0.602	0.431	0.367	0.367	0.367	0.367	0.367
155	1.749	1.402	0.861	0.621	0.450	0.367	0.367	0.367	0.367	0.367
160	1.771	1.449	0.888	0.641	0.468	0.367	0.367	0.367	0.367	0.367
165	1.794	1.496	0.915	0.660	0.487	0.367	0.367	0.367	0.367	0.367
170	1.816	1.526	0.942	0.679	0.505	0.367	0.367	0.367	0.367	0.367
175	1.838	1.546	0.969	0.699	0.524	0.367	0.367	0.367	0.367	0.367
180	1.860	1.567	0.997	0.718	0.543	0.367	0.367	0.367	0.367	0.367
185	1.882	1.587	1.024	0.738	0.561	0.367	0.367	0.367	0.367	0.367
190	1.904	1.608	1.051	0.757	0.580	0.367	0.367	0.367	0.367	0.367
195	1.926	1.628	1.078	0.776	0.598	0.367	0.367	0.367	0.367	0.367
200	1.949	1.649	1.105	0.796	0.617	0.367	0.367	0.367	0.367	0.367
205	1.971	1.669	1.133	0.815	0.636	0.367	0.367	0.367	0.367	0.367
210	1.993	1.689	1.160	0.835	0.654	0.367	0.367	0.367	0.367	0.367
215	2.015	1.710	1.187	0.854	0.673	0.384	0.367	0.367	0.367	0.367
220	2.037	1.730	1.214	0.873	0.691	0.405	0.367	0.367	0.367	0.367
225	2.059	1.751	1.241	0.893	0.710	0.425	0.367	0.367	0.367	0.367
230	2.082	1.771	1.268	0.912	0.729	0.445	0.367	0.367	0.367	0.367
235	2.104	1.792	1.296	0.932	0.747	0.465	0.367	0.367	0.367	0.367
240	2.126	1.812	1.323	0.951	0.766	0.486	0.367	0.367	0.367	0.367
245	2.148	1.832	1.350	0.970	0.784	0.506	0.367	0.367	0.367	0.367
250	2.170	1.853	1.377	0.990	0.803	0.526	0.367	0.367	0.367	0.367
255	2.192	1.873	1.404	1.009	0.821	0.547	0.367	0.367	0.367	0.367
260	2.214	1.894	1.432	1.029	0.840	0.567	0.367	0.367	0.367	0.367
265	2.237	1.914	1.459	1.048	0.859	0.587	0.373	0.367	0.367	0.367
270	2.259	1.935	1.486	1.067	0.877	0.607	0.396	0.367	0.367	0.367
275	2.281	1.955	1.513	1.087	0.896	0.628	0.419	0.367	0.367	0.367
280	2.303	1.976	1.536	1.106	0.914	0.648	0.442	0.367	0.367	0.367
285	2.325	1.996	1.559	1.126	0.933	0.668	0.465	0.367	0.367	0.367
290	2.347	2.016	1.582	1.145	0.952	0.688	0.488	0.367	0.367	0.367
295	2.369	2.037	1.605	1.164	0.970	0.709	0.510	0.367	0.367	0.367
300	2.392	2.057	1.628	1.184	0.989	0.729	0.533	0.367	0.367	0.367
305	2.414	2.078	1.651	1.203	1.007	0.749	0.556	0.390	0.367	0.367
310	2.436	2.098	1.673	1.223	1.026	0.770	0.579	0.413	0.367	0.367
315	2.458	2.119	1.696	1.242	1.045	0.790	0.602	0.437	0.367	0.367
320	2.480	2.139	1.719	1.261	1.063	0.810	0.624	0.461	0.367	0.367
325	2.502	2.159	1.742	1.281	1.082	0.830	0.647	0.485	0.367	0.367
330	2.524	2.180	1.765	1.300	1.100	0.851	0.670	0.509	0.367	0.367
335	2.547	2.200	1.788	1.319	1.119	0.871	0.693	0.533	0.367	0.367
340	2.569	2.221	1.811	1.339	1.138	0.891	0.716	0.557	0.367	0.367
345	2.591	2.241	1.834	1.358	1.156	0.911	0.739	0.581	0.367	0.367
350	2.613	2.262	1.857	1.378	1.175	0.932	0.761	0.605	0.367	0.367
355	2.635	2.282	1.880	1.397	1.193	0.952	0.784	0.628	0.368	0.367
360	2.657	2.302	1.902	1.416	1.212	0.972	0.807	0.652	0.391	0.367
365	2.680	2.323	1.925	1.436	1.230	0.992	0.830	0.676	0.414	0.367
370	2.702	2.343	1.948	1.455	1.249	1.013	0.853	0.700	0.436	0.367
375	2.724	2.364	1.971	1.475	1.268	1.033	0.875	0.724	0.459	0.367
380	2.769	2.384	1.994	1.494	1.286	1.053	0.898	0.748	0.481	0.367
385	2.816	2.405	2.017	1.514	1.305	1.074	0.921	0.772	0.504	0.367
390	2.864	2.425	2.040	1.540	1.323	1.094	0.944	0.796	0.527	0.382
395	2.911	2.445	2.063	1.566	1.342	1.114	0.967	0.820	0.549	0.399
400	2.958	2.466	2.086	1.592	1.361	1.134	0.990	0.843	0.572	0.416

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 5: FIRETEX FX6002I/H Beams: Fire Resistance Period 60 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	1.177	0.769	0.494	0.367	0.367	0.367	0.367	0.367	0.367	0.367
55	1.296	0.851	0.549	0.367	0.367	0.367	0.367	0.367	0.367	0.367
60	1.414	0.934	0.609	0.403	0.367	0.367	0.367	0.367	0.367	0.367
65	1.523	1.016	0.669	0.447	0.367	0.367	0.367	0.367	0.367	0.367
70	1.588	1.099	0.729	0.492	0.367	0.367	0.367	0.367	0.367	0.367
75	1.652	1.182	0.789	0.537	0.389	0.367	0.367	0.367	0.367	0.367
80	1.717	1.264	0.849	0.582	0.421	0.367	0.367	0.367	0.367	0.367
85	1.782	1.347	0.909	0.627	0.452	0.367	0.367	0.367	0.367	0.367
90	1.846	1.430	0.969	0.672	0.484	0.367	0.367	0.367	0.367	0.367
95	1.911	1.512	1.029	0.717	0.516	0.382	0.367	0.367	0.367	0.367
100	1.975	1.543	1.089	0.762	0.548	0.405	0.367	0.367	0.367	0.367
105	2.040	1.574	1.149	0.807	0.579	0.428	0.378	0.367	0.367	0.367
110	2.104	1.605	1.209	0.852	0.611	0.451	0.399	0.367	0.367	0.367
115	2.169	1.636	1.268	0.897	0.643	0.474	0.421	0.367	0.367	0.367
120	2.234	1.666	1.328	0.942	0.675	0.497	0.442	0.367	0.367	0.367
125	2.298	1.697	1.388	0.987	0.706	0.520	0.464	0.375	0.367	0.367
130	2.363	1.728	1.448	1.032	0.738	0.543	0.485	0.397	0.367	0.367
135	2.427	1.759	1.508	1.077	0.770	0.566	0.507	0.419	0.367	0.367
140	2.492	1.789	1.534	1.122	0.802	0.589	0.528	0.441	0.367	0.367
145	2.557	1.820	1.557	1.166	0.833	0.612	0.549	0.463	0.367	0.367
150	2.621	1.851	1.580	1.211	0.865	0.635	0.571	0.485	0.367	0.367
155	2.686	1.882	1.603	1.256	0.897	0.658	0.592	0.507	0.367	0.367
160	2.740	1.912	1.626	1.301	0.929	0.681	0.614	0.529	0.367	0.367
165	2.778	1.943	1.649	1.346	0.960	0.704	0.635	0.551	0.367	0.367
170	2.816	1.974	1.672	1.391	0.992	0.727	0.657	0.573	0.367	0.367
175	2.853	2.005	1.695	1.436	1.024	0.750	0.678	0.595	0.367	0.367
180	2.891	2.035	1.718	1.481	1.055	0.773	0.700	0.617	0.382	0.367
185	2.929	2.066	1.740	1.519	1.087	0.796	0.721	0.639	0.405	0.367
190	2.967	2.097	1.763	1.542	1.119	0.819	0.742	0.661	0.429	0.367
195	3.005	2.128	1.786	1.564	1.151	0.842	0.764	0.683	0.453	0.367
200	3.042	2.158	1.809	1.586	1.182	0.865	0.785	0.705	0.476	0.367
205	3.080	2.189	1.832	1.609	1.214	0.888	0.807	0.727	0.500	0.367
210	3.118	2.220	1.855	1.631	1.246	0.911	0.828	0.749	0.523	0.368
215	3.156	2.251	1.878	1.653	1.278	0.934	0.850	0.771	0.547	0.390
220	3.193	2.281	1.901	1.676	1.309	0.957	0.871	0.793	0.571	0.411
225	3.231	2.312	1.924	1.698	1.341	0.980	0.892	0.815	0.594	0.433
230	3.269	2.343	1.947	1.720	1.373	1.003	0.914	0.837	0.618	0.455
235	3.307	2.374	1.970	1.743	1.405	1.026	0.935	0.859	0.641	0.477
240	3.344	2.404	1.993	1.765	1.436	1.049	0.957	0.881	0.665	0.499
245	3.382	2.435	2.016	1.787	1.468	1.072	0.978	0.903	0.689	0.520
250	3.420	2.466	2.038	1.810	1.500	1.095	1.000	0.925	0.712	0.542
255	3.458	2.497	2.061	1.832	1.527	1.118	1.021	0.947	0.736	0.564
260	3.496	2.527	2.084	1.854	1.550	1.141	1.042	0.969	0.759	0.586
265	3.532	2.558	2.107	1.877	1.573	1.164	1.064	0.991	0.783	0.607
270	3.566	2.589	2.130	1.899	1.596	1.187	1.085	1.013	0.806	0.629
275	3.600	2.620	2.153	1.922	1.619	1.210	1.107	1.035	0.830	0.651
280	3.633	2.650	2.176	1.944	1.643	1.233	1.128	1.057	0.854	0.673
285	3.667	2.681	2.199	1.966	1.666	1.256	1.150	1.079	0.877	0.695
290	3.701	2.712	2.222	1.989	1.689	1.279	1.171	1.101	0.901	0.716
295	3.734	2.744	2.245	2.011	1.712	1.302	1.193	1.123	0.924	0.738
300	3.768	2.777	2.268	2.033	1.736	1.325	1.214	1.145	0.948	0.760
305	3.802	2.810	2.291	2.056	1.759	1.348	1.235	1.167	0.972	0.782
310	3.835	2.843	2.313	2.078	1.782	1.371	1.257	1.189	0.995	0.804
315	3.869	2.876	2.336	2.100	1.805	1.394	1.278	1.211	1.019	0.825
320	3.903	2.909	2.359	2.123	1.828	1.417	1.300	1.233	1.042	0.847
325	3.936	2.942	2.382	2.145	1.852	1.440	1.321	1.255	1.066	0.869
330	3.970	2.975	2.405	2.167	1.875	1.463	1.343	1.277	1.089	0.891
335	4.004	3.008	2.428	2.190	1.898	1.486	1.364	1.299	1.113	0.912
340	4.037	3.041	2.451	2.212	1.921	1.509	1.385	1.321	1.137	0.934
345	4.071	3.074	2.474	2.234	1.945	1.534	1.407	1.343	1.160	0.956
350	4.104	3.107	2.497	2.257	1.968	1.560	1.428	1.365	1.184	0.978
355	4.138	3.140	2.520	2.279	1.991	1.587	1.450	1.387	1.207	1.000
360	4.172	3.173	2.543	2.301	2.014	1.613	1.471	1.409	1.231	1.021
365	4.205	3.206	2.566	2.324	2.037	1.639	1.493	1.431	1.255	1.043
370	4.239	3.239	2.589	2.346	2.061	1.665	1.514	1.453	1.278	1.065
375	4.273	3.272	2.611	2.368	2.084	1.691	1.541	1.475	1.302	1.087
380	4.306	3.305	2.634	2.391	2.107	1.717	1.567	1.497	1.325	1.108
385	4.340	3.338	2.657	2.413	2.130	1.743	1.594	1.520	1.349	1.130
390	4.374	3.371	2.680	2.435	2.153	1.769	1.620	1.544	1.373	1.152
395	4.407	3.404	2.703	2.458	2.177	1.795	1.647	1.568	1.396	1.174
400	4.441	3.437	2.726	2.480	2.200	1.821	1.673	1.592	1.420	1.196

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 6: FIRETEX FX6002 I/H Beams: Fire Resistance Period 75 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	1.660	1.124	0.795	0.564	0.381	0.367	0.367	0.367	0.367	0.367
55	1.773	1.242	0.883	0.626	0.423	0.367	0.367	0.367	0.367	0.367
60	1.886	1.360	0.974	0.700	0.483	0.367	0.367	0.367	0.367	0.367
65	1.998	1.479	1.064	0.773	0.543	0.401	0.367	0.367	0.367	0.367
70	2.111	1.566	1.155	0.847	0.603	0.450	0.398	0.367	0.367	0.367
75	2.224	1.640	1.245	0.920	0.663	0.498	0.443	0.367	0.367	0.367
80	2.336	1.714	1.336	0.994	0.723	0.547	0.488	0.407	0.367	0.367
85	2.449	1.789	1.426	1.068	0.783	0.596	0.533	0.449	0.367	0.367
90	2.562	1.863	1.515	1.141	0.843	0.645	0.578	0.490	0.367	0.367
95	2.674	1.937	1.561	1.215	0.903	0.694	0.622	0.532	0.380	0.367
100	2.826	2.012	1.607	1.288	0.963	0.743	0.667	0.574	0.415	0.367
105	3.010	2.086	1.652	1.362	1.023	0.791	0.712	0.616	0.449	0.367
110	3.195	2.160	1.698	1.435	1.083	0.840	0.757	0.657	0.484	0.388
115	3.380	2.235	1.744	1.509	1.143	0.889	0.802	0.699	0.518	0.413
120	3.531	2.309	1.790	1.537	1.203	0.938	0.847	0.741	0.553	0.438
125	3.562	2.383	1.836	1.563	1.263	0.987	0.892	0.783	0.588	0.464
130	3.593	2.458	1.881	1.589	1.324	1.036	0.937	0.824	0.622	0.489
135	3.624	2.532	1.927	1.615	1.384	1.085	0.982	0.866	0.657	0.514
140	3.655	2.606	1.973	1.641	1.444	1.133	1.027	0.908	0.692	0.539
145	3.686	2.681	2.019	1.667	1.504	1.182	1.072	0.950	0.726	0.564
150	3.717	2.747	2.065	1.693	1.533	1.231	1.116	0.991	0.761	0.590
155	3.749	2.801	2.111	1.718	1.556	1.280	1.161	1.033	0.795	0.615
160	3.780	2.855	2.156	1.744	1.580	1.329	1.206	1.075	0.830	0.640
165	3.811	2.909	2.202	1.770	1.603	1.378	1.251	1.117	0.865	0.665
170	3.842	2.963	2.248	1.796	1.626	1.426	1.296	1.158	0.899	0.690
175	3.873	3.016	2.294	1.822	1.650	1.475	1.341	1.200	0.934	0.716
180	3.904	3.070	2.340	1.848	1.673	1.518	1.386	1.242	0.969	0.741
185	3.935	3.124	2.385	1.874	1.697	1.541	1.431	1.284	1.003	0.766
190	3.966	3.178	2.431	1.899	1.720	1.563	1.476	1.326	1.038	0.791
195	3.997	3.232	2.477	1.925	1.744	1.585	1.517	1.367	1.072	0.817
200	4.028	3.286	2.523	1.951	1.767	1.608	1.539	1.409	1.107	0.842
205	4.060	3.340	2.569	1.977	1.791	1.630	1.561	1.451	1.142	0.867
210	4.091	3.394	2.614	2.003	1.814	1.653	1.583	1.493	1.176	0.892
215	4.122	3.447	2.660	2.029	1.837	1.675	1.606	1.524	1.211	0.917
220	4.153	3.501	2.706	2.055	1.861	1.698	1.628	1.546	1.246	0.943
225	4.184	3.541	2.741	2.080	1.884	1.720	1.650	1.567	1.280	0.968
230	4.215	3.570	2.768	2.106	1.908	1.742	1.672	1.589	1.315	0.993
235	4.246	3.599	2.795	2.132	1.931	1.765	1.694	1.611	1.349	1.018
240	4.277	3.628	2.821	2.158	1.955	1.787	1.717	1.632	1.384	1.043
245	4.308	3.657	2.848	2.184	1.978	1.810	1.739	1.654	1.419	1.069
250	4.339	3.686	2.875	2.210	2.001	1.832	1.761	1.676	1.453	1.094
255	4.371	3.716	2.902	2.236	2.025	1.855	1.783	1.697	1.488	1.119
260	4.402	3.745	2.928	2.261	2.048	1.877	1.806	1.719	1.520	1.144
265	4.433	3.774	2.955	2.287	2.072	1.900	1.828	1.741	1.546	1.169
270	4.464	3.803	2.982	2.313	2.095	1.922	1.850	1.762	1.572	1.195
275	4.497	3.832	3.009	2.339	2.119	1.944	1.872	1.784	1.598	1.220
280	4.556	3.861	3.035	2.365	2.142	1.967	1.894	1.806	1.624	1.245
285	4.615	3.890	3.062	2.391	2.165	1.989	1.917	1.827	1.650	1.270
290	4.674	3.919	3.089	2.417	2.189	2.012	1.939	1.849	1.676	1.295
295	4.733	3.948	3.116	2.442	2.212	2.034	1.961	1.871	1.702	1.321
300	4.792	3.978	3.142	2.468	2.236	2.057	1.983	1.893	1.728	1.346
305	4.851	4.007	3.169	2.494	2.259	2.079	2.005	1.914	1.754	1.371
310	4.910	4.036	3.196	2.520	2.283	2.102	2.028	1.936	1.781	1.396
315	4.969	4.065	3.222	2.546	2.306	2.124	2.050	1.958	1.807	1.421
320	5.028	4.094	3.249	2.572	2.329	2.146	2.072	1.979	1.833	1.447
325	5.087	4.123	3.276	2.598	2.353	2.169	2.094	2.001	1.859	1.472
330	5.146	4.152	3.303	2.624	2.376	2.191	2.116	2.023	1.885	1.497
335	5.205	4.181	3.329	2.649	2.400	2.214	2.139	2.044	1.911	1.523
340	5.264	4.210	3.356	2.675	2.423	2.236	2.161	2.066	1.937	1.550
345	5.323	4.240	3.383	2.701	2.447	2.259	2.183	2.088	1.963	1.577
350	5.382	4.269	3.410	2.728	2.470	2.281	2.205	2.109	1.989	1.604
355	5.441	4.298	3.436	2.793	2.494	2.303	2.227	2.131	2.015	1.630
360	5.500	4.327	3.463	2.857	2.517	2.326	2.250	2.153	2.041	1.657
365	5.559	4.356	3.490	2.922	2.540	2.348	2.272	2.174	2.067	1.684
370	5.618	4.385	3.517	2.986	2.564	2.371	2.294	2.196	2.093	1.711
375	5.677	4.414	3.575	3.051	2.587	2.393	2.316	2.218	2.119	1.738
380	5.736	4.443	3.644	3.115	2.611	2.416	2.339	2.239	2.145	1.765
385	-	4.472	3.714	3.180	2.634	2.438	2.361	2.261	2.171	1.792
390	-	4.524	3.784	3.244	2.658	2.461	2.383	2.283	2.197	1.819
395	-	4.631	3.854	3.309	2.681	2.483	2.405	2.304	2.223	1.846
400	-	4.738	3.924	3.373	2.704	2.505	2.427	2.326	2.249	1.872

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 7: FIRETEX FX6002 I/H Beams: Fire Resistance Period 90 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	2.094	1.528	1.098	0.835	0.632	0.469	0.411	0.367	0.367	0.367
55	2.250	1.650	1.219	0.927	0.701	0.521	0.456	0.375	0.367	0.367
60	2.406	1.772	1.339	1.028	0.787	0.596	0.527	0.441	0.367	0.367
65	2.562	1.893	1.460	1.129	0.872	0.671	0.597	0.508	0.376	0.367
70	2.718	2.015	1.563	1.230	0.957	0.746	0.668	0.575	0.434	0.367
75	3.308	2.137	1.651	1.331	1.043	0.821	0.739	0.641	0.491	0.385
80	3.573	2.259	1.739	1.432	1.128	0.895	0.809	0.708	0.548	0.431
85	3.648	2.381	1.827	1.525	1.213	0.970	0.880	0.774	0.606	0.477
90	3.723	2.503	1.915	1.584	1.299	1.045	0.951	0.841	0.663	0.523
95	3.799	2.625	2.004	1.644	1.384	1.120	1.021	0.908	0.720	0.569
100	3.874	2.757	2.092	1.703	1.470	1.195	1.092	0.974	0.778	0.614
105	3.949	2.938	2.180	1.762	1.532	1.270	1.163	1.041	0.835	0.660
110	4.025	3.118	2.268	1.822	1.570	1.345	1.233	1.107	0.892	0.706
115	4.100	3.298	2.356	1.881	1.608	1.420	1.304	1.174	0.950	0.752
120	4.175	3.479	2.444	1.941	1.646	1.494	1.375	1.241	1.007	0.798
125	4.250	3.550	2.533	2.000	1.684	1.531	1.445	1.307	1.065	0.844
130	4.326	3.584	2.621	2.060	1.722	1.556	1.514	1.374	1.122	0.890
135	4.401	3.619	2.709	2.119	1.760	1.580	1.538	1.441	1.179	0.935
140	4.476	3.653	2.798	2.178	1.798	1.605	1.562	1.507	1.237	0.981
145	4.538	3.688	2.887	2.238	1.836	1.629	1.586	1.534	1.294	1.027
150	4.597	3.722	2.977	2.297	1.874	1.654	1.610	1.557	1.351	1.073
155	4.655	3.757	3.066	2.357	1.912	1.678	1.634	1.581	1.409	1.119
160	4.713	3.791	3.155	2.416	1.950	1.703	1.658	1.604	1.466	1.165
165	4.772	3.826	3.244	2.476	1.988	1.727	1.682	1.627	1.518	1.210
170	4.830	3.860	3.334	2.535	2.026	1.752	1.706	1.650	1.544	1.256
175	4.889	3.895	3.423	2.595	2.064	1.776	1.730	1.673	1.570	1.302
180	4.947	3.929	3.512	2.654	2.102	1.801	1.753	1.697	1.596	1.348
185	5.005	3.964	3.547	2.713	2.140	1.825	1.777	1.720	1.622	1.394
190	5.064	3.998	3.573	2.764	2.178	1.850	1.801	1.743	1.648	1.440
195	5.122	4.032	3.599	2.812	2.216	1.874	1.825	1.766	1.674	1.486
200	5.181	4.067	3.625	2.860	2.254	1.898	1.849	1.789	1.700	1.523
205	5.239	4.101	3.652	2.909	2.292	1.923	1.873	1.812	1.726	1.547
210	5.297	4.136	3.678	2.957	2.330	1.947	1.897	1.836	1.752	1.572
215	5.356	4.170	3.704	3.005	2.368	1.972	1.921	1.859	1.778	1.596
220	5.414	4.205	3.730	3.053	2.406	1.996	1.945	1.882	1.803	1.621
225	5.472	4.239	3.756	3.101	2.444	2.021	1.969	1.905	1.829	1.646
230	5.531	4.274	3.783	3.150	2.481	2.045	1.993	1.928	1.855	1.670
235	5.589	4.308	3.809	3.198	2.519	2.070	2.017	1.952	1.881	1.695
240	5.648	4.343	3.835	3.246	2.557	2.094	2.041	1.975	1.907	1.719
245	5.706	4.377	3.861	3.294	2.595	2.119	2.065	1.998	1.933	1.744
250	5.764	4.412	3.887	3.342	2.633	2.143	2.089	2.021	1.959	1.768
255	-	4.446	3.914	3.391	2.671	2.168	2.113	2.044	1.985	1.793
260	-	4.481	3.940	3.439	2.709	2.192	2.137	2.068	2.011	1.817
265	-	4.532	3.966	3.487	2.746	2.217	2.161	2.091	2.037	1.842
270	-	4.594	3.992	3.532	2.782	2.241	2.184	2.114	2.063	1.866
275	-	4.655	4.018	3.566	2.817	2.266	2.208	2.137	2.089	1.891
280	-	4.716	4.045	3.599	2.853	2.290	2.232	2.160	2.115	1.915
285	-	4.778	4.071	3.633	2.889	2.315	2.256	2.184	2.141	1.940
290	-	4.839	4.097	3.667	2.924	2.339	2.280	2.207	2.167	1.965
295	-	4.900	4.123	3.701	2.960	2.363	2.304	2.230	2.193	1.989
300	-	4.962	4.149	3.735	2.996	2.388	2.328	2.253	2.219	2.014
305	-	5.023	4.176	3.768	3.031	2.412	2.352	2.276	2.245	2.038
310	-	5.084	4.202	3.802	3.067	2.437	2.376	2.300	2.271	2.063
315	-	5.146	4.228	3.836	3.103	2.461	2.400	2.323	2.297	2.087
320	-	5.207	4.254	3.870	3.138	2.486	2.424	2.346	2.323	2.112
325	-	5.269	4.280	3.903	3.174	2.510	2.448	2.369	2.349	2.136
330	-	5.330	4.307	3.937	3.210	2.535	2.472	2.392	2.375	2.161
335	-	5.391	4.333	3.971	3.245	2.559	2.496	2.415	2.401	2.185
340	-	5.453	4.359	4.005	3.281	2.584	2.520	2.439	2.427	2.210
345	-	5.514	4.385	4.039	3.317	2.608	2.544	2.462	2.453	2.235
350	-	5.575	4.411	4.072	3.352	2.633	2.568	2.485	2.479	2.259
355	-	5.637	4.438	4.106	3.388	2.657	2.592	2.508	2.505	2.284
360	-	5.698	4.464	4.140	3.424	2.682	2.616	2.531	2.531	2.308
365	-	5.759	4.490	4.174	3.459	2.706	2.639	2.557	2.557	2.333
370	-	-	4.617	4.207	3.495	2.746	2.663	2.583	2.583	2.357
375	-	-	4.758	4.241	3.535	2.855	2.687	2.609	2.609	2.382
380	-	-	4.898	4.275	3.592	2.963	2.711	2.635	2.635	2.406
385	-	-	5.038	4.309	3.650	3.071	2.769	2.661	2.661	2.431
390	-	-	5.178	4.343	3.707	3.180	2.882	2.687	2.687	2.455
395	-	-	5.318	4.376	3.764	3.288	2.995	2.713	2.713	2.480
400	-	-	5.458	4.410	3.822	3.397	3.108	2.774	2.774	2.505

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 8: FIRETEX FX6002 I/H Beams: Fire Resistance Period 105 Minutes									
	Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	2.457	1.931	1.428	1.106	0.882	0.708	0.643	0.555	0.423	0.367
55	2.730	2.093	1.564	1.228	0.980	0.786	0.714	0.616	0.469	0.367
60	3.608	2.255	1.699	1.357	1.090	0.885	0.808	0.706	0.549	0.426
65	3.735	2.417	1.834	1.485	1.201	0.984	0.902	0.796	0.629	0.493
70	3.862	2.580	1.969	1.591	1.312	1.083	0.996	0.886	0.709	0.560
75	3.988	2.770	2.105	1.691	1.422	1.182	1.090	0.976	0.790	0.628
80	4.115	3.219	2.240	1.791	1.526	1.281	1.184	1.066	0.870	0.695
85	4.241	3.549	2.375	1.891	1.597	1.380	1.278	1.155	0.950	0.762
90	4.368	3.629	2.511	1.991	1.668	1.479	1.372	1.245	1.030	0.829
95	4.494	3.708	2.646	2.091	1.740	1.546	1.466	1.335	1.110	0.896
100	4.612	3.787	2.818	2.191	1.811	1.595	1.535	1.425	1.190	0.964
105	4.729	3.866	3.043	2.291	1.882	1.645	1.578	1.514	1.270	1.031
110	4.847	3.945	3.268	2.391	1.954	1.695	1.621	1.549	1.350	1.098
115	4.964	4.025	3.493	2.491	2.025	1.744	1.663	1.584	1.430	1.165
120	5.082	4.104	3.562	2.591	2.096	1.794	1.706	1.619	1.510	1.233
125	5.199	4.183	3.607	2.691	2.167	1.844	1.749	1.654	1.552	1.300
130	5.317	4.262	3.652	2.813	2.239	1.893	1.792	1.689	1.593	1.367
135	5.434	4.341	3.696	2.946	2.310	1.943	1.835	1.724	1.633	1.434
140	5.552	4.421	3.741	3.078	2.381	1.993	1.878	1.759	1.674	1.502
145	5.670	4.499	3.785	3.211	2.452	2.042	1.921	1.794	1.714	1.535
150	-	4.571	3.830	3.344	2.524	2.092	1.964	1.829	1.755	1.561
155	-	4.643	3.875	3.477	2.595	2.142	2.007	1.864	1.795	1.588
160	-	4.714	3.919	3.540	2.666	2.191	2.050	1.899	1.836	1.614
165	-	4.786	3.964	3.565	2.739	2.241	2.093	1.934	1.877	1.641
170	-	4.858	4.008	3.590	2.823	2.291	2.136	1.969	1.917	1.667
175	-	4.930	4.053	3.615	2.906	2.340	2.179	2.004	1.958	1.694
180	-	5.001	4.097	3.640	2.989	2.390	2.221	2.039	1.998	1.720
185	-	5.073	4.142	3.664	3.073	2.439	2.264	2.074	2.039	1.747
190	-	5.145	4.187	3.689	3.156	2.489	2.307	2.109	2.079	1.773
195	-	5.217	4.231	3.714	3.239	2.539	2.350	2.144	2.120	1.800
200	-	5.288	4.276	3.739	3.323	2.588	2.393	2.179	2.160	1.826
205	-	5.360	4.320	3.764	3.406	2.638	2.436	2.214	2.201	1.853
210	-	5.432	4.365	3.789	3.489	2.688	2.479	2.249	2.241	1.879
215	-	5.503	4.410	3.814	3.540	2.739	2.522	2.284	2.282	1.906
220	-	5.575	4.454	3.838	3.567	2.795	2.565	2.322	2.322	1.932
225	-	5.647	4.500	3.863	3.594	2.851	2.608	2.363	2.363	1.959
230	-	5.719	4.554	3.888	3.621	2.907	2.651	2.403	2.403	1.985
235	-	-	4.609	3.913	3.649	2.962	2.694	2.444	2.444	2.012
240	-	-	4.663	3.938	3.676	3.018	2.738	2.485	2.485	2.038
245	-	-	4.718	3.963	3.703	3.074	2.785	2.525	2.525	2.064
250	-	-	4.772	3.988	3.730	3.130	2.832	2.566	2.566	2.091
255	-	-	4.826	4.012	3.757	3.186	2.879	2.606	2.606	2.117
260	-	-	4.881	4.037	3.784	3.242	2.926	2.647	2.647	2.144
265	-	-	4.935	4.062	3.812	3.298	2.974	2.687	2.687	2.170
270	-	-	4.990	4.087	3.839	3.354	3.021	2.728	2.728	2.197
275	-	-	5.044	4.112	3.866	3.410	3.068	2.769	2.769	2.223
280	-	-	5.098	4.137	3.893	3.466	3.115	2.810	2.810	2.250
285	-	-	5.153	4.162	3.920	3.521	3.162	2.851	2.851	2.276
290	-	-	5.207	4.186	3.948	3.560	3.210	2.899	2.892	2.303
295	-	-	5.262	4.211	3.975	3.598	3.257	2.972	2.933	2.329
300	-	-	5.316	4.236	4.002	3.635	3.304	3.045	2.973	2.356
305	-	-	5.370	4.261	4.029	3.673	3.351	3.118	3.014	2.382
310	-	-	5.425	4.286	4.056	3.711	3.399	3.191	3.055	2.409
315	-	-	5.479	4.311	4.083	3.748	3.446	3.264	3.096	2.435
320	-	-	5.533	4.336	4.111	3.786	3.493	3.337	3.137	2.462
325	-	-	5.588	4.360	4.138	3.824	3.542	3.410	3.178	2.488
330	-	-	5.642	4.385	4.165	3.862	3.594	3.483	3.219	2.515
335	-	-	5.697	4.410	4.192	3.899	3.647	3.549	3.260	2.541
340	-	-	5.751	4.435	4.219	3.937	3.699	3.608	3.301	2.567
345	-	-	-	4.460	4.246	3.975	3.752	3.666	3.342	2.594
350	-	-	-	4.485	4.274	4.012	3.804	3.725	3.383	2.620
355	-	-	-	4.641	4.301	4.050	3.857	3.783	3.424	2.647
360	-	-	-	4.863	4.328	4.088	3.909	3.841	3.465	2.673
365	-	-	-	5.084	4.355	4.125	3.962	3.900	3.506	2.700
370	-	-	-	5.306	4.382	4.163	4.014	3.958	3.556	2.727
375	-	-	-	5.528	4.410	4.201	4.067	4.016	3.613	2.840
380	-	-	-	5.750	4.437	4.238	4.119	4.075	3.670	2.953
385	-	-	-	-	4.464	4.276	4.172	4.133	3.726	3.065
390	-	-	-	-	4.491	4.314	4.224	4.191	3.783	3.178
395	-	-	-	-	4.759	4.351	4.277	4.250	3.840	3.290
400	-	-	-	-	5.045	4.389	4.329	4.308	3.897	3.403

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 9: FIRETEX FX6002 I/H Beams: Fire Resistance Period 120 Minutes									
	Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
50	3.764	2.334	1.806	1.389	1.133	0.947	0.875	0.780	0.635	0.507
55	3.933	2.536	1.980	1.534	1.258	1.052	0.971	0.866	0.705	0.562
60	4.103	2.791	2.153	1.679	1.394	1.175	1.089	0.979	0.806	0.650
65	4.272	3.563	2.326	1.824	1.527	1.298	1.206	1.092	0.908	0.737
70	4.441	3.696	2.499	1.969	1.637	1.421	1.324	1.204	1.010	0.825
75	4.620	3.830	2.672	2.114	1.747	1.534	1.441	1.317	1.111	0.913
80	4.803	3.963	3.048	2.259	1.857	1.616	1.542	1.430	1.213	1.000
85	4.986	4.097	3.515	2.404	1.967	1.698	1.615	1.530	1.314	1.088
90	5.169	4.230	3.614	2.549	2.077	1.780	1.689	1.593	1.416	1.175
95	5.353	4.363	3.706	2.694	2.187	1.863	1.763	1.657	1.516	1.263
100	5.536	4.497	3.798	2.940	2.296	1.945	1.836	1.720	1.588	1.350
105	5.719	4.626	3.891	3.215	2.406	2.027	1.910	1.784	1.660	1.438
110	-	4.756	3.983	3.489	2.516	2.109	1.984	1.847	1.731	1.520
115	-	4.886	4.075	3.570	2.626	2.192	2.057	1.911	1.803	1.569
120	-	5.015	4.167	3.622	2.743	2.274	2.131	1.975	1.875	1.619
125	-	5.145	4.259	3.674	2.925	2.356	2.205	2.038	1.947	1.669
130	-	5.275	4.351	3.727	3.106	2.438	2.278	2.102	2.018	1.718
135	-	5.404	4.443	3.779	3.288	2.520	2.352	2.165	2.090	1.768
140	-	5.534	4.538	3.832	3.469	2.603	2.425	2.229	2.162	1.818
145	-	5.664	4.637	3.884	3.541	2.685	2.499	2.292	2.234	1.867
150	-	-	4.735	3.936	3.566	2.795	2.573	2.356	2.305	1.917
155	-	-	4.834	3.989	3.590	2.935	2.646	2.420	2.377	1.966
160	-	-	4.933	4.041	3.614	3.074	2.720	2.483	2.449	2.016
165	-	-	5.031	4.093	3.639	3.214	2.842	2.547	2.521	2.066
170	-	-	5.130	4.146	3.663	3.353	2.968	2.610	2.592	2.115
175	-	-	5.229	4.198	3.688	3.492	3.094	2.674	2.664	2.165
180	-	-	5.327	4.251	3.712	3.544	3.220	2.764	2.740	2.214
185	-	-	5.426	4.303	3.737	3.571	3.346	2.979	2.839	2.264
190	-	-	5.524	4.355	3.761	3.597	3.472	3.194	2.939	2.314
195	-	-	5.623	4.408	3.785	3.624	3.541	3.409	3.039	2.363
200	-	-	5.722	4.460	3.810	3.650	3.570	3.538	3.139	2.413
205	-	-	-	4.527	3.834	3.677	3.598	3.568	3.238	2.462
210	-	-	-	4.617	3.859	3.703	3.627	3.598	3.338	2.512
215	-	-	-	4.708	3.883	3.729	3.656	3.627	3.438	2.562
220	-	-	-	4.798	3.908	3.756	3.685	3.657	3.528	2.611
225	-	-	-	4.889	3.932	3.782	3.713	3.687	3.556	2.661
230	-	-	-	4.979	3.956	3.809	3.742	3.717	3.585	2.710
235	-	-	-	5.069	3.981	3.835	3.771	3.747	3.613	2.765
240	-	-	-	5.160	4.005	3.862	3.800	3.777	3.642	2.823
245	-	-	-	5.250	4.030	3.888	3.828	3.806	3.670	2.881
250	-	-	-	5.341	4.054	3.915	3.857	3.836	3.698	2.938
255	-	-	-	5.431	4.079	3.941	3.886	3.866	3.727	2.996
260	-	-	-	5.522	4.103	3.967	3.915	3.896	3.755	3.053
265	-	-	-	5.612	4.127	3.994	3.943	3.926	3.784	3.111
270	-	-	-	5.703	4.152	4.020	3.972	3.956	3.812	3.169
275	-	-	-	-	4.176	4.047	4.001	3.986	3.840	3.226
280	-	-	-	-	4.201	4.073	4.030	4.015	3.869	3.284
285	-	-	-	-	4.225	4.100	4.058	4.045	3.897	3.341
290	-	-	-	-	4.250	4.126	4.087	4.075	3.926	3.399
295	-	-	-	-	4.274	4.153	4.116	4.105	3.954	3.457
300	-	-	-	-	4.298	4.179	4.145	4.135	3.983	3.514
305	-	-	-	-	4.323	4.205	4.173	4.165	4.011	3.565
310	-	-	-	-	4.347	4.232	4.202	4.194	4.039	3.615
315	-	-	-	-	4.372	4.258	4.231	4.224	4.068	3.665
320	-	-	-	-	4.396	4.285	4.260	4.254	4.096	3.715
325	-	-	-	-	4.421	4.311	4.288	4.284	4.125	3.765
330	-	-	-	-	4.445	4.338	4.317	4.314	4.153	3.815
335	-	-	-	-	4.470	4.364	4.346	4.344	4.182	3.865
340	-	-	-	-	4.506	4.390	4.375	4.374	4.210	3.915
345	-	-	-	-	4.834	4.417	4.403	4.403	4.238	3.965
350	-	-	-	-	5.163	4.443	4.433	4.433	4.267	4.015
355	-	-	-	-	5.492	4.470	4.463	4.463	4.295	4.065
360	-	-	-	-	-	4.522	4.493	4.493	4.324	4.115
365	-	-	-	-	-	4.763	4.648	4.617	4.352	4.165
370	-	-	-	-	-	5.004	4.824	4.742	4.381	4.215
375	-	-	-	-	-	5.244	5.000	4.867	4.409	4.265
380	-	-	-	-	-	5.485	5.176	4.991	4.437	4.314
385	-	-	-	-	-	5.725	5.352	5.116	4.466	4.364
390	-	-	-	-	-	-	5.528	5.241	4.500	4.414
395	-	-	-	-	-	-	5.704	5.365	4.648	4.464
400	-	-	-	-	-	-	-	5.490	4.797	4.540

Thickness is intumescent only.
Results apply to I/H beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 10: FIRETEX FX6002 I/H Columns: Fire Resistance Period 15 Minutes									
	Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
55	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
60	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
65	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
70	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
75	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
80	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
85	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
90	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
95	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
100	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
105	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
110	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
115	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
120	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
125	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
130	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
135	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
140	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
145	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
150	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
155	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
160	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
165	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
170	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
175	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
180	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
185	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
190	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
195	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
200	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
205	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
210	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
215	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
220	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
225	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
230	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
235	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
240	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
245	0.486	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
250	0.509	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
255	0.532	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
260	0.555	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
265	0.578	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
270	0.601	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
275	0.624	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
280	0.647	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
285	0.670	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
290	0.693	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
295	0.716	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
300	0.739	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
305	0.762	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
310	0.786	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
315	0.809	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
320	0.832	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
325	0.855	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
330	0.878	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
335	0.901	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
340	0.924	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
345	0.947	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
350	0.970	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
355	0.993	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
360	1.016	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
365	1.039	0.487	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
370	1.062	0.505	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
375	1.085	0.522	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
380	1.108	0.540	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
385	1.131	0.557	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
390	1.154	0.575	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
395	1.177	0.592	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
400	1.200	0.609	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
405	1.223	0.627	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
410	1.246	0.644	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
415	1.269	0.662	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
420	1.292	0.679	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
425	1.315	0.696	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
430	1.338	0.714	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
435	1.361	0.731	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
440	1.385	0.749	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
445	1.408	0.766	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
450	1.431	0.783	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
455	1.454	0.801	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
460	1.477	0.818	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
465	1.500	0.836	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
470	1.523	0.853	0.475	0.472	0.472	0.472	0.472	0.472	0.472	0.472
475	1.541	0.870	0.489	0.472	0.472	0.472	0.472	0.472	0.472	0.472

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 11: FIRETEX FX6002 I/H Columns: Fire Resistance Period 20 Minutes									
	Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
55	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
60	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
65	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
70	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
75	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
80	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
85	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
90	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
95	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
100	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
105	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
110	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
115	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
120	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
125	0.477	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
130	0.501	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
135	0.524	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
140	0.548	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
145	0.572	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
150	0.595	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
155	0.619	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
160	0.643	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
165	0.666	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
170	0.690	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
175	0.714	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
180	0.737	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
185	0.761	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
190	0.785	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
195	0.809	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
200	0.832	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
205	0.856	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
210	0.880	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
215	0.903	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
220	0.927	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
225	0.951	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
230	0.974	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
235	0.998	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
240	1.022	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
245	1.046	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
250	1.069	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
255	1.093	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
260	1.117	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
265	1.140	0.480	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
270	1.164	0.504	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
275	1.188	0.528	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
280	1.211	0.551	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
285	1.235	0.575	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
290	1.259	0.599	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
295	1.282	0.623	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
300	1.306	0.647	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
305	1.330	0.671	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
310	1.354	0.694	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
315	1.377	0.718	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
320	1.401	0.742	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
325	1.425	0.766	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
330	1.448	0.790	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
335	1.472	0.814	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
340	1.496	0.837	0.479	0.472	0.472	0.472	0.472	0.472	0.472	0.472
345	1.519	0.861	0.498	0.472	0.472	0.472	0.472	0.472	0.472	0.472
350	1.542	0.885	0.517	0.472	0.472	0.472	0.472	0.472	0.472	0.472
355	1.561	0.909	0.536	0.472	0.472	0.472	0.472	0.472	0.472	0.472
360	1.581	0.933	0.555	0.472	0.472	0.472	0.472	0.472	0.472	0.472
365	1.601	0.957	0.574	0.472	0.472	0.472	0.472	0.472	0.472	0.472
370	1.620	0.980	0.593	0.472	0.472	0.472	0.472	0.472	0.472	0.472
375	1.640	1.004	0.612	0.472	0.472	0.472	0.472	0.472	0.472	0.472
380	1.660	1.028	0.631	0.472	0.472	0.472	0.472	0.472	0.472	0.472
385	1.680	1.052	0.649	0.472	0.472	0.472	0.472	0.472	0.472	0.472
390	1.699	1.076	0.668	0.472	0.472	0.472	0.472	0.472	0.472	0.472
395	1.719	1.100	0.687	0.472	0.472	0.472	0.472	0.472	0.472	0.472
400	1.739	1.123	0.706	0.472	0.472	0.472	0.472	0.472	0.472	0.472
405	1.758	1.147	0.725	0.472	0.472	0.472	0.472	0.472	0.472	0.472
410	1.778	1.171	0.744	0.472	0.472	0.472	0.472	0.472	0.472	0.472
415	1.798	1.195	0.763	0.476	0.472	0.472	0.472	0.472	0.472	0.472
420	1.817	1.219	0.782	0.492	0.472	0.472	0.472	0.472	0.472	0.472
425	1.837	1.243	0.801	0.507	0.472	0.472	0.472	0.472	0.472	0.472
430	1.857	1.266	0.820	0.523	0.472	0.472	0.472	0.472	0.472	0.472
435	1.877	1.290	0.838	0.539	0.472	0.472	0.472	0.472	0.472	0.472
440	1.896	1.314	0.857	0.555	0.472	0.472	0.472	0.472	0.472	0.472
445	1.916	1.338	0.876	0.570	0.472	0.472	0.472	0.472	0.472	0.472
450	1.936	1.362	0.895	0.586	0.472	0.472	0.472	0.472	0.472	0.472
455	1.955	1.386	0.914	0.602	0.472	0.472	0.472	0.472	0.472	0.472
460	1.975	1.409	0.933	0.617	0.472	0.472	0.472	0.472	0.472	0.472
465	1.995	1.433	0.952	0.633	0.472	0.472	0.472	0.472	0.472	0.472
470	2.015	1.457	0.971	0.649	0.472	0.472	0.472	0.472	0.472	0.472
475	2.034	1.481	0.990	0.665	0.472	0.472	0.472	0.472	0.472	0.472

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 12: FIRETEX FX6002 I/H Columns: Fire Resistance Period 30 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
55	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
60	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
65	0.500	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
70	0.549	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
75	0.598	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
80	0.647	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
85	0.696	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
90	0.746	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
95	0.795	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
100	0.844	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
105	0.893	0.486	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
110	0.942	0.513	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
115	0.992	0.540	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
120	1.041	0.567	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
125	1.090	0.594	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
130	1.139	0.621	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
135	1.188	0.648	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
140	1.238	0.675	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
145	1.287	0.702	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
150	1.336	0.729	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
155	1.385	0.756	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
160	1.434	0.783	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
165	1.484	0.810	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
170	1.533	0.837	0.492	0.472	0.472	0.472	0.472	0.472	0.472	0.472
175	1.557	0.864	0.515	0.472	0.472	0.472	0.472	0.472	0.472	0.472
180	1.581	0.891	0.538	0.472	0.472	0.472	0.472	0.472	0.472	0.472
185	1.604	0.918	0.561	0.472	0.472	0.472	0.472	0.472	0.472	0.472
190	1.628	0.945	0.584	0.472	0.472	0.472	0.472	0.472	0.472	0.472
195	1.651	0.972	0.607	0.472	0.472	0.472	0.472	0.472	0.472	0.472
200	1.675	0.999	0.630	0.472	0.472	0.472	0.472	0.472	0.472	0.472
205	1.699	1.025	0.653	0.472	0.472	0.472	0.472	0.472	0.472	0.472
210	1.722	1.052	0.676	0.472	0.472	0.472	0.472	0.472	0.472	0.472
215	1.746	1.079	0.699	0.472	0.472	0.472	0.472	0.472	0.472	0.472
220	1.769	1.106	0.722	0.472	0.472	0.472	0.472	0.472	0.472	0.472
225	1.793	1.133	0.745	0.472	0.472	0.472	0.472	0.472	0.472	0.472
230	1.817	1.160	0.767	0.472	0.472	0.472	0.472	0.472	0.472	0.472
235	1.840	1.187	0.790	0.472	0.472	0.472	0.472	0.472	0.472	0.472
240	1.864	1.214	0.813	0.472	0.472	0.472	0.472	0.472	0.472	0.472
245	1.887	1.241	0.836	0.472	0.472	0.472	0.472	0.472	0.472	0.472
250	1.911	1.268	0.859	0.472	0.472	0.472	0.472	0.472	0.472	0.472
255	1.934	1.295	0.882	0.472	0.472	0.472	0.472	0.472	0.472	0.472
260	1.958	1.322	0.905	0.472	0.472	0.472	0.472	0.472	0.472	0.472
265	1.982	1.349	0.928	0.493	0.472	0.472	0.472	0.472	0.472	0.472
270	2.005	1.376	0.951	0.518	0.472	0.472	0.472	0.472	0.472	0.472
275	2.029	1.403	0.974	0.543	0.472	0.472	0.472	0.472	0.472	0.472
280	2.052	1.430	0.997	0.568	0.472	0.472	0.472	0.472	0.472	0.472
285	2.076	1.457	1.019	0.593	0.472	0.472	0.472	0.472	0.472	0.472
290	2.100	1.484	1.042	0.618	0.472	0.472	0.472	0.472	0.472	0.472
295	2.123	1.511	1.065	0.643	0.472	0.472	0.472	0.472	0.472	0.472
300	2.147	1.537	1.088	0.668	0.472	0.472	0.472	0.472	0.472	0.472
305	2.170	1.561	1.111	0.693	0.475	0.472	0.472	0.472	0.472	0.472
310	2.194	1.584	1.134	0.718	0.495	0.472	0.472	0.472	0.472	0.472
315	2.218	1.608	1.157	0.743	0.515	0.472	0.472	0.472	0.472	0.472
320	2.241	1.631	1.180	0.767	0.536	0.472	0.472	0.472	0.472	0.472
325	2.265	1.655	1.203	0.792	0.556	0.472	0.472	0.472	0.472	0.472
330	2.288	1.678	1.226	0.817	0.577	0.482	0.472	0.472	0.472	0.472
335	2.312	1.702	1.249	0.842	0.597	0.500	0.472	0.472	0.472	0.472
340	2.336	1.725	1.272	0.867	0.617	0.517	0.472	0.472	0.472	0.472
345	2.359	1.749	1.294	0.892	0.638	0.535	0.477	0.472	0.472	0.472
350	2.383	1.773	1.317	0.917	0.658	0.553	0.493	0.472	0.472	0.472
355	2.406	1.796	1.340	0.942	0.678	0.570	0.509	0.472	0.472	0.472
360	2.430	1.820	1.363	0.967	0.699	0.588	0.525	0.472	0.472	0.472
365	2.454	1.843	1.386	0.992	0.719	0.605	0.541	0.472	0.472	0.472
370	2.477	1.867	1.409	1.017	0.740	0.623	0.557	0.472	0.472	0.472
375	2.501	1.890	1.432	1.042	0.760	0.641	0.573	0.472	0.472	0.472
380	2.524	1.914	1.455	1.067	0.780	0.658	0.589	0.472	0.472	0.472
385	2.548	1.937	1.478	1.092	0.801	0.676	0.604	0.472	0.472	0.472
390	2.572	1.961	1.501	1.117	0.821	0.693	0.620	0.472	0.472	0.472
395	2.595	1.984	1.524	1.142	0.841	0.711	0.636	0.479	0.472	0.472
400	2.619	2.008	1.547	1.167	0.862	0.728	0.652	0.491	0.472	0.472
405	2.642	2.031	1.570	1.192	0.882	0.746	0.668	0.504	0.472	0.472
410	2.666	2.055	1.593	1.216	0.903	0.764	0.684	0.516	0.472	0.472
415	2.690	2.078	1.617	1.241	0.923	0.781	0.700	0.528	0.472	0.472
420	2.713	2.102	1.640	1.266	0.943	0.799	0.716	0.540	0.472	0.472
425	2.737	2.125	1.663	1.291	0.964	0.816	0.732	0.553	0.472	0.472
430	2.760	2.149	1.686	1.316	0.984	0.834	0.748	0.565	0.472	0.472
435	2.784	2.172	1.710	1.341	1.004	0.852	0.764	0.577	0.472	0.472
440	2.811	2.196	1.733	1.366	1.025	0.869	0.779	0.589	0.472	0.472
445	2.846	2.219	1.756	1.391	1.045	0.887	0.795	0.602	0.472	0.472
450	2.882	2.243	1.779	1.416	1.066	0.904	0.811	0.614	0.472	0.472
455	2.917	2.267	1.803	1.441	1.086	0.922	0.827	0.626	0.472	0.472
460	2.952	2.290	1.826	1.466	1.106	0.940	0.843	0.638	0.472	0.472
465	2.988	2.314	1.849	1.491	1.127	0.957	0.859	0.651	0.472	0.472
470	3.023	2.337	1.872	1.516	1.147	0.975	0.875	0.663	0.480	0.472
475	3.058	2.361	1.896	1.540	1.167	0.992	0.891	0.675	0.489	0.472

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 13: FIRETEX FX6002 I/H Columns: Fire Resistance Period 45 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	0.755	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
55	0.838	0.514	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
60	0.928	0.576	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
65	1.017	0.637	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
70	1.107	0.698	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472
75	1.196	0.760	0.483	0.472	0.472	0.472	0.472	0.472	0.472	0.472
80	1.286	0.821	0.525	0.472	0.472	0.472	0.472	0.472	0.472	0.472
85	1.376	0.883	0.568	0.472	0.472	0.472	0.472	0.472	0.472	0.472
90	1.465	0.944	0.611	0.472	0.472	0.472	0.472	0.472	0.472	0.472
95	1.544	1.005	0.654	0.472	0.472	0.472	0.472	0.472	0.472	0.472
100	1.589	1.067	0.696	0.472	0.472	0.472	0.472	0.472	0.472	0.472
105	1.633	1.128	0.739	0.493	0.472	0.472	0.472	0.472	0.472	0.472
110	1.678	1.189	0.782	0.523	0.472	0.472	0.472	0.472	0.472	0.472
115	1.722	1.251	0.825	0.554	0.472	0.472	0.472	0.472	0.472	0.472
120	1.767	1.312	0.868	0.584	0.472	0.472	0.472	0.472	0.472	0.472
125	1.811	1.373	0.910	0.615	0.472	0.472	0.472	0.472	0.472	0.472
130	1.856	1.435	0.953	0.646	0.472	0.472	0.472	0.472	0.472	0.472
135	1.901	1.496	0.996	0.676	0.472	0.472	0.472	0.472	0.472	0.472
140	1.945	1.544	1.039	0.707	0.494	0.472	0.472	0.472	0.472	0.472
145	1.990	1.571	1.082	0.737	0.518	0.472	0.472	0.472	0.472	0.472
150	2.034	1.598	1.124	0.768	0.542	0.472	0.472	0.472	0.472	0.472
155	2.079	1.625	1.167	0.798	0.566	0.473	0.472	0.472	0.472	0.472
160	2.123	1.652	1.210	0.829	0.590	0.496	0.472	0.472	0.472	0.472
165	2.168	1.679	1.253	0.860	0.614	0.518	0.472	0.472	0.472	0.472
170	2.212	1.706	1.295	0.890	0.638	0.540	0.479	0.472	0.472	0.472
175	2.257	1.733	1.338	0.921	0.662	0.563	0.500	0.472	0.472	0.472
180	2.301	1.760	1.381	0.951	0.686	0.585	0.522	0.472	0.472	0.472
185	2.346	1.787	1.424	0.982	0.710	0.607	0.543	0.472	0.472	0.472
190	2.390	1.814	1.467	1.012	0.733	0.630	0.564	0.472	0.472	0.472
195	2.435	1.841	1.509	1.043	0.757	0.652	0.586	0.472	0.472	0.472
200	2.480	1.868	1.545	1.074	0.781	0.674	0.607	0.472	0.472	0.472
205	2.524	1.895	1.572	1.104	0.805	0.697	0.628	0.472	0.472	0.472
210	2.569	1.922	1.599	1.135	0.829	0.719	0.649	0.485	0.472	0.472
215	2.613	1.949	1.625	1.165	0.853	0.741	0.671	0.504	0.472	0.472
220	2.658	1.976	1.652	1.196	0.877	0.764	0.692	0.523	0.472	0.472
225	2.702	2.003	1.679	1.226	0.901	0.786	0.713	0.542	0.472	0.472
230	2.747	2.030	1.705	1.257	0.925	0.808	0.735	0.561	0.472	0.472
235	2.791	2.057	1.732	1.288	0.949	0.831	0.756	0.580	0.472	0.472
240	2.833	2.084	1.759	1.318	0.973	0.853	0.777	0.598	0.472	0.472
245	2.874	2.111	1.785	1.349	0.997	0.876	0.799	0.617	0.472	0.472
250	2.915	2.138	1.812	1.379	1.020	0.898	0.820	0.636	0.472	0.472
255	2.955	2.165	1.839	1.410	1.044	0.920	0.841	0.655	0.473	0.472
260	2.996	2.192	1.865	1.440	1.068	0.943	0.863	0.674	0.490	0.472
265	3.037	2.219	1.892	1.471	1.092	0.965	0.884	0.693	0.506	0.472
270	3.078	2.246	1.918	1.502	1.116	0.987	0.905	0.711	0.523	0.472
275	3.119	2.273	1.945	1.532	1.140	1.010	0.926	0.730	0.540	0.472
280	3.160	2.300	1.972	1.561	1.164	1.032	0.948	0.749	0.556	0.472
285	3.201	2.327	1.998	1.590	1.188	1.054	0.969	0.768	0.573	0.472
290	3.241	2.354	2.025	1.618	1.212	1.077	0.990	0.787	0.590	0.472
295	3.282	2.381	2.052	1.647	1.236	1.099	1.012	0.806	0.606	0.472
300	3.323	2.408	2.078	1.676	1.260	1.121	1.033	0.824	0.623	0.483
305	3.364	2.435	2.105	1.704	1.283	1.144	1.054	0.843	0.640	0.496
310	3.405	2.462	2.132	1.733	1.307	1.166	1.076	0.862	0.656	0.510
315	3.446	2.489	2.158	1.762	1.331	1.188	1.097	0.881	0.673	0.523
320	3.486	2.516	2.185	1.790	1.355	1.211	1.118	0.900	0.690	0.537
325	3.527	2.543	2.212	1.819	1.379	1.233	1.140	0.919	0.706	0.551
330	3.568	2.570	2.238	1.848	1.403	1.255	1.161	0.937	0.723	0.564
335	3.609	2.597	2.265	1.876	1.427	1.278	1.182	0.956	0.740	0.578
340	3.650	2.624	2.292	1.905	1.451	1.300	1.203	0.975	0.756	0.591
345	3.691	2.651	2.318	1.934	1.475	1.322	1.225	0.994	0.773	0.605
350	3.732	2.678	2.345	1.962	1.499	1.345	1.246	1.013	0.790	0.619
355	3.772	2.705	2.372	1.991	1.523	1.367	1.267	1.032	0.806	0.632
360	3.813	2.732	2.398	2.020	1.550	1.390	1.289	1.050	0.823	0.646
365	3.854	2.759	2.425	2.048	1.581	1.412	1.310	1.069	0.840	0.659
370	3.895	2.786	2.452	2.077	1.611	1.434	1.331	1.088	0.856	0.673
375	3.936	2.828	2.478	2.106	1.642	1.457	1.353	1.107	0.873	0.686
380	3.977	2.889	2.505	2.134	1.672	1.479	1.374	1.126	0.890	0.700
385	4.017	2.949	2.531	2.163	1.703	1.501	1.395	1.145	0.906	0.714
390	4.058	3.010	2.558	2.192	1.733	1.524	1.417	1.163	0.923	0.727
395	4.099	3.070	2.585	2.220	1.764	1.550	1.438	1.182	0.940	0.741
400	4.140	3.131	2.611	2.249	1.795	1.579	1.459	1.201	0.957	0.754
405	4.181	3.191	2.638	2.278	1.825	1.608	1.481	1.220	0.973	0.768
410	4.222	3.252	2.665	2.306	1.856	1.637	1.502	1.239	0.990	0.782
415	4.263	3.312	2.691	2.335	1.886	1.666	1.523	1.258	1.007	0.795
420	4.303	3.373	2.718	2.364	1.917	1.694	1.548	1.276	1.023	0.809
425	4.344	3.433	2.745	2.392	1.947	1.723	1.576	1.295	1.040	0.822
430	4.385	3.494	2.771	2.421	1.978	1.752	1.603	1.314	1.057	0.836
435	4.426	3.554	2.798	2.450	2.009	1.781	1.631	1.333	1.073	0.849
440	4.467	3.615	2.868	2.478	2.039	1.810	1.659	1.352	1.090	0.863
445	4.508	3.675	2.944	2.507	2.070	1.839	1.687	1.371	1.107	0.877
450	4.548	3.736	3.020	2.536	2.100	1.868	1.715	1.389	1.123	0.890
455	4.589	3.796	3.095	2.564	2.131	1.897	1.743	1.408	1.140	0.904
460	4.698	3.857	3.171	2.593	2.161	1.926	1.771	1.427	1.157	0.917
465	4.877	3.917	3.247	2.622	2.192	1.955	1.799	1.446	1.173	0.931
470	5.056	3.978	3.322	2.650	2.223	1.984	1.826	1.465	1.190	0.945
475	5.235	4.038	3.398	2.679	2.253	2.013	1.854	1.484	1.207	0.958

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 14: FIRETEX FX6002 I/H Columns: Fire Resistance Period 60 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	1.152	0.790	0.537	0.472	0.472	0.472	0.472	0.472	0.472	0.472
55	1.280	0.878	0.596	0.472	0.472	0.472	0.472	0.472	0.472	0.472
60	1.410	0.972	0.668	0.472	0.472	0.472	0.472	0.472	0.472	0.472
65	1.538	1.067	0.740	0.505	0.472	0.472	0.472	0.472	0.472	0.472
70	1.635	1.161	0.812	0.562	0.472	0.472	0.472	0.472	0.472	0.472
75	1.733	1.255	0.884	0.620	0.472	0.472	0.472	0.472	0.472	0.472
80	1.830	1.350	0.956	0.677	0.479	0.472	0.472	0.472	0.472	0.472
85	1.927	1.444	1.028	0.735	0.523	0.472	0.472	0.472	0.472	0.472
90	2.025	1.537	1.100	0.792	0.567	0.478	0.472	0.472	0.472	0.472
95	2.122	1.590	1.173	0.850	0.611	0.514	0.472	0.472	0.472	0.472
100	2.219	1.643	1.245	0.907	0.655	0.550	0.496	0.472	0.472	0.472
105	2.317	1.697	1.317	0.965	0.699	0.586	0.527	0.472	0.472	0.472
110	2.414	1.750	1.389	1.022	0.743	0.623	0.559	0.472	0.472	0.472
115	2.511	1.804	1.461	1.080	0.787	0.659	0.590	0.475	0.472	0.472
120	2.609	1.857	1.533	1.137	0.831	0.695	0.621	0.498	0.472	0.472
125	2.706	1.910	1.566	1.194	0.875	0.731	0.652	0.520	0.472	0.472
130	2.802	1.964	1.599	1.252	0.919	0.767	0.683	0.543	0.472	0.472
135	2.860	2.017	1.631	1.309	0.963	0.804	0.715	0.566	0.473	0.472
140	2.917	2.071	1.664	1.367	1.007	0.840	0.746	0.589	0.493	0.472
145	2.974	2.124	1.697	1.424	1.051	0.876	0.777	0.612	0.513	0.472
150	3.031	2.177	1.729	1.482	1.095	0.912	0.808	0.635	0.534	0.472
155	3.089	2.231	1.762	1.537	1.139	0.948	0.839	0.658	0.554	0.472
160	3.146	2.284	1.795	1.567	1.184	0.985	0.871	0.680	0.574	0.472
165	3.203	2.338	1.827	1.597	1.228	1.021	0.902	0.703	0.595	0.477
170	3.260	2.391	1.860	1.627	1.272	1.057	0.933	0.726	0.615	0.496
175	3.318	2.444	1.892	1.657	1.316	1.093	0.964	0.749	0.635	0.514
180	3.375	2.498	1.925	1.687	1.360	1.130	0.996	0.772	0.656	0.533
185	3.432	2.551	1.958	1.717	1.404	1.166	1.027	0.795	0.676	0.551
190	3.489	2.605	1.990	1.747	1.448	1.202	1.058	0.817	0.697	0.570
195	3.547	2.658	2.023	1.777	1.492	1.238	1.089	0.840	0.717	0.588
200	3.604	2.711	2.056	1.807	1.535	1.274	1.120	0.863	0.737	0.606
205	3.661	2.765	2.088	1.837	1.565	1.311	1.152	0.886	0.758	0.625
210	3.718	2.818	2.121	1.867	1.595	1.347	1.183	0.909	0.778	0.643
215	3.776	2.870	2.153	1.897	1.624	1.383	1.214	0.932	0.798	0.662
220	3.833	2.922	2.186	1.927	1.654	1.419	1.245	0.954	0.819	0.680
225	3.890	2.974	2.219	1.957	1.684	1.455	1.277	0.977	0.839	0.699
230	3.947	3.025	2.251	1.987	1.714	1.492	1.308	1.000	0.859	0.717
235	4.005	3.077	2.284	2.016	1.743	1.528	1.339	1.023	0.880	0.735
240	4.062	3.129	2.317	2.046	1.773	1.559	1.370	1.046	0.900	0.754
245	4.119	3.181	2.349	2.076	1.803	1.590	1.401	1.069	0.921	0.772
250	4.176	3.233	2.382	2.106	1.832	1.620	1.433	1.092	0.941	0.791
255	4.234	3.285	2.415	2.136	1.862	1.651	1.464	1.114	0.961	0.809
260	4.291	3.337	2.447	2.166	1.892	1.681	1.495	1.137	0.982	0.828
265	4.348	3.389	2.480	2.196	1.922	1.712	1.526	1.160	1.002	0.846
270	4.405	3.441	2.512	2.226	1.951	1.742	1.558	1.183	1.022	0.864
275	4.463	3.493	2.545	2.256	1.981	1.772	1.590	1.206	1.043	0.883
280	4.520	3.545	2.578	2.286	2.011	1.803	1.621	1.229	1.063	0.901
285	4.577	3.597	2.610	2.316	2.041	1.833	1.653	1.251	1.083	0.920
290	4.631	3.649	2.643	2.346	2.070	1.864	1.685	1.274	1.104	0.938
295	4.681	3.701	2.676	2.376	2.100	1.894	1.716	1.297	1.124	0.956
300	4.731	3.753	2.708	2.406	2.130	1.925	1.748	1.320	1.145	0.975
305	4.780	3.805	2.741	2.436	2.159	1.955	1.780	1.343	1.165	0.993
310	4.830	3.857	2.774	2.466	2.189	1.986	1.811	1.366	1.185	1.012
315	4.880	3.909	2.816	2.496	2.219	2.016	1.843	1.389	1.206	1.030
320	4.929	3.961	2.907	2.526	2.249	2.047	1.875	1.411	1.226	1.049
325	4.979	4.013	2.999	2.556	2.278	2.077	1.907	1.434	1.246	1.067
330	5.029	4.065	3.090	2.586	2.308	2.108	1.938	1.457	1.267	1.085
335	5.078	4.117	3.182	2.616	2.338	2.138	1.970	1.480	1.287	1.104
340	5.128	4.169	3.273	2.646	2.368	2.168	2.002	1.503	1.307	1.122
345	5.178	4.221	3.365	2.676	2.397	2.199	2.033	1.526	1.328	1.141
350	5.227	4.272	3.457	2.706	2.427	2.229	2.065	1.600	1.348	1.159
355	5.277	4.324	3.548	2.736	2.457	2.260	2.097	1.706	1.369	1.178
360	5.327	4.376	3.640	2.766	2.487	2.290	2.128	1.811	1.389	1.196
365	5.377	4.428	3.731	2.796	2.516	2.321	2.160	1.916	1.409	1.214
370	5.426	4.480	3.823	2.920	2.546	2.351	2.192	2.021	1.430	1.233
375	5.476	4.532	3.914	3.062	2.576	2.382	2.223	2.126	1.450	1.251
380	5.527	4.584	4.006	3.204	2.605	2.412	2.255	2.231	1.470	1.270
385	5.578	4.667	4.098	3.346	2.635	2.443	2.336	2.336	1.491	1.288
390	5.628	4.779	4.189	3.488	2.665	2.473	2.441	2.441	1.511	1.307
395	5.679	4.891	4.281	3.630	2.695	2.547	2.547	2.547	1.531	1.325
400	5.730	5.004	4.372	3.772	2.724	2.652	2.652	2.652	1.637	1.343
405	5.781	5.116	4.464	3.913	2.757	2.757	2.757	2.757	1.754	1.362
410	5.832	5.229	4.555	4.055	2.862	2.862	2.862	2.862	1.871	1.380
415	5.883	5.341	4.649	4.197	2.967	2.967	2.967	2.967	1.988	1.399
420	5.934	5.453	4.745	4.339	3.174	3.072	3.072	3.072	2.105	1.417
425	5.985	5.514	4.841	4.481	3.436	3.177	3.177	3.177	2.223	1.436
430	6.035	5.558	4.938	4.616	3.698	3.282	3.282	3.282	2.340	1.454
435	6.086	5.603	5.034	4.687	3.960	3.387	3.387	3.387	2.457	1.472
440	6.137	5.647	5.130	4.757	4.222	3.493	3.493	3.493	2.574	1.491
445	6.188	5.691	5.227	4.828	4.484	3.598	3.598	3.598	2.692	1.509
450	6.239	5.735	5.323	4.898	4.639	3.703	3.703	3.703	2.809	1.528
455	6.290	5.779	5.419	4.969	4.694	4.121	3.808	3.808	2.926	1.616
460	6.341	5.823	5.496	5.039	4.749	4.618	3.913	3.913	3.043	1.740
465	6.391	5.867	5.538	5.110	4.804	4.666	4.018	4.018	3.160	1.864
470	6.442	5.912	5.579	5.180	4.860	4.715	4.123	4.123	3.278	1.988
475	6.493	5.956	5.621	5.251	4.915	4.763	4.228	4.228	3.395	2.113

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 15: FIRETEX FX6002 I/H Columns: Fire Resistance Period 75 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	1.602	1.117	0.817	0.595	0.472	0.472	0.472	0.472	0.472	0.472
55	1.754	1.241	0.908	0.660	0.472	0.472	0.472	0.472	0.472	0.472
60	1.905	1.369	1.008	0.744	0.531	0.472	0.472	0.472	0.472	0.472
65	2.057	1.496	1.108	0.827	0.600	0.504	0.472	0.472	0.472	0.472
70	2.208	1.605	1.209	0.910	0.670	0.565	0.508	0.472	0.472	0.472
75	2.360	1.706	1.309	0.994	0.739	0.626	0.563	0.472	0.472	0.472
80	2.511	1.807	1.409	1.077	0.809	0.687	0.619	0.488	0.472	0.472
85	2.663	1.907	1.510	1.160	0.878	0.748	0.674	0.530	0.472	0.472
90	2.810	2.008	1.588	1.244	0.948	0.809	0.729	0.572	0.472	0.472
95	2.909	2.109	1.659	1.327	1.017	0.870	0.785	0.613	0.495	0.472
100	3.009	2.210	1.730	1.410	1.087	0.931	0.840	0.655	0.526	0.472
105	3.108	2.310	1.800	1.493	1.156	0.992	0.895	0.697	0.557	0.472
110	3.208	2.411	1.871	1.560	1.226	1.053	0.950	0.739	0.588	0.479
115	3.307	2.512	1.942	1.610	1.295	1.113	1.006	0.781	0.618	0.502
120	3.407	2.613	2.013	1.660	1.365	1.174	1.061	0.823	0.649	0.525
125	3.506	2.713	2.084	1.710	1.435	1.235	1.116	0.865	0.680	0.548
130	3.606	2.810	2.155	1.759	1.504	1.296	1.172	0.907	0.711	0.572
135	3.706	2.880	2.226	1.809	1.553	1.357	1.227	0.949	0.741	0.595
140	3.805	2.951	2.297	1.859	1.586	1.418	1.282	0.991	0.772	0.618
145	3.905	3.021	2.367	1.909	1.620	1.479	1.337	1.033	0.803	0.642
150	4.004	3.092	2.438	1.959	1.653	1.537	1.393	1.075	0.834	0.665
155	4.104	3.162	2.509	2.009	1.686	1.569	1.448	1.117	0.864	0.688
160	4.203	3.232	2.580	2.059	1.719	1.601	1.503	1.159	0.895	0.712
165	4.303	3.303	2.651	2.109	1.753	1.632	1.548	1.201	0.926	0.735
170	4.403	3.373	2.722	2.159	1.786	1.664	1.579	1.243	0.957	0.758
175	4.502	3.443	2.793	2.209	1.819	1.696	1.611	1.285	0.988	0.781
180	4.602	3.514	2.851	2.259	1.853	1.728	1.642	1.327	1.018	0.805
185	4.648	3.584	2.908	2.309	1.886	1.760	1.673	1.369	1.049	0.828
190	4.689	3.654	2.965	2.359	1.919	1.792	1.705	1.411	1.080	0.851
195	4.730	3.725	3.021	2.409	1.953	1.823	1.736	1.453	1.111	0.875
200	4.771	3.795	3.078	2.459	1.986	1.855	1.767	1.495	1.141	0.898
205	4.812	3.865	3.135	2.509	2.019	1.887	1.799	1.540	1.172	0.921
210	4.853	3.936	3.192	2.559	2.052	1.919	1.830	1.616	1.203	0.945
215	4.895	4.006	3.248	2.609	2.086	1.951	1.861	1.692	1.234	0.968
220	4.936	4.076	3.305	2.658	2.119	1.983	1.893	1.768	1.264	0.991
225	4.977	4.147	3.362	2.708	2.152	2.014	1.924	1.844	1.295	1.014
230	5.018	4.217	3.418	2.758	2.186	2.046	1.955	1.920	1.326	1.038
235	5.059	4.287	3.475	2.812	2.219	2.078	1.996	1.996	1.357	1.061
240	5.100	4.358	3.532	2.884	2.252	2.110	2.073	2.073	1.388	1.084
245	5.141	4.428	3.589	2.956	2.285	2.149	2.149	2.149	1.418	1.108
250	5.182	4.498	3.645	3.028	2.319	2.225	2.225	2.225	1.449	1.131
255	5.224	4.569	3.702	3.100	2.352	2.301	2.301	2.301	1.480	1.154
260	5.265	4.628	3.759	3.171	2.385	2.377	2.377	2.377	1.511	1.178
265	5.306	4.671	3.816	3.243	2.453	2.453	2.453	2.453	1.558	1.201
270	5.347	4.715	3.872	3.315	2.529	2.529	2.529	2.529	1.658	1.224
275	5.388	4.758	3.929	3.387	2.605	2.605	2.605	2.605	1.757	1.247
280	5.429	4.801	3.986	3.459	2.681	2.681	2.681	2.681	1.857	1.271
285	5.470	4.845	4.043	3.531	2.757	2.757	2.757	2.757	1.957	1.294
290	5.525	4.888	4.099	3.603	2.833	2.833	2.833	2.833	2.057	1.317
295	5.583	4.931	4.156	3.675	2.909	2.909	2.909	2.909	2.157	1.341
300	5.642	4.974	4.213	3.747	2.985	2.985	2.985	2.985	2.256	1.364
305	5.701	5.018	4.270	3.819	3.061	3.061	3.061	3.061	2.356	1.387
310	5.760	5.061	4.326	3.891	3.137	3.137	3.137	3.137	2.456	1.411
315	5.818	5.104	4.383	3.963	3.214	3.214	3.214	3.214	2.556	1.434
320	5.877	5.148	4.440	4.035	3.290	3.290	3.290	3.290	2.656	1.457
325	5.936	5.191	4.497	4.107	3.366	3.366	3.366	3.366	2.755	1.481
330	5.995	5.234	4.553	4.179	3.442	3.442	3.442	3.442	2.855	1.504
335	6.054	5.278	4.610	4.251	3.518	3.518	3.518	3.518	2.955	1.527
340	6.112	5.321	4.697	4.323	3.594	3.594	3.594	3.594	3.055	1.652
345	6.171	5.364	4.783	4.395	3.670	3.670	3.670	3.670	3.154	1.818
350	6.230	5.408	4.870	4.467	3.746	3.746	3.746	3.746	3.254	1.985
355	6.289	5.451	4.957	4.539	3.845	3.822	3.822	3.822	3.354	2.152
360	6.347	5.501	5.043	4.612	4.006	3.898	3.898	3.898	3.454	2.319
365	6.406	5.564	5.130	4.712	4.166	3.974	3.974	3.974	3.554	2.485
370	6.465	5.628	5.217	4.812	4.326	4.050	4.050	4.050	3.653	2.652
375	6.524	5.692	5.303	4.913	4.486	4.126	4.126	4.126	3.753	2.819
380	6.582	5.756	5.390	5.013	4.635	4.231	4.202	4.202	3.853	2.986
385	6.641	5.820	5.476	5.113	4.744	4.459	4.278	4.278	3.953	3.152
390	6.700	5.884	5.537	5.214	4.853	4.644	4.361	4.355	4.053	3.319
395	6.759	5.948	5.596	5.314	4.962	4.744	4.628	4.431	4.152	3.486
400	6.818	6.011	5.655	5.414	5.072	4.845	4.716	4.507	4.252	3.653
405	6.876	6.075	5.714	5.499	5.181	4.946	4.804	4.583	4.352	3.819
410	6.935	6.139	5.773	5.553	5.290	5.047	4.893	4.650	4.452	3.986
415	6.994	6.203	5.832	5.607	5.399	5.147	4.981	4.713	4.552	4.153
420	7.053	6.267	5.891	5.661	5.493	5.248	5.069	4.775	4.628	4.320
425	7.111	6.331	5.950	5.715	5.542	5.349	5.157	4.838	4.670	4.486
430	7.170	6.395	6.010	5.769	5.591	5.450	5.246	4.900	4.713	4.618
435	7.229	6.458	6.069	5.823	5.640	5.513	5.334	4.963	4.756	4.647
440	7.288	6.522	6.128	5.877	5.688	5.560	5.422	5.025	4.799	4.676
445	7.346	6.586	6.187	5.931	5.737	5.606	5.496	5.088	4.841	4.705
450	7.405	6.650	6.246	5.985	5.786	5.652	5.542	5.150	4.884	4.734
455	7.464	6.714	6.305	6.039	5.835	5.699	5.587	5.213	4.927	4.763
460	-	6.778	6.364	6.093	5.884	5.745	5.633	5.275	4.969	4.793
465	-	6.842	6.423	6.147	5.932	5.792	5.679	5.338	5.012	4.822
470	-	6.905	6.482	6.201	5.981	5.838	5.724	5.400	5.055	4.851
475	-	6.969	6.541	6.255	6.030	5.885	5.770	5.463	5.097	4.880

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 16: FIRETEX FX6002 I/H Columns: Fire Resistance Period 90 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	2.072	1.472	1.097	0.846	0.648	0.553	0.495	0.472	0.472	0.472
55	2.271	1.624	1.219	0.940	0.720	0.614	0.550	0.472	0.472	0.472
60	2.469	1.775	1.348	1.048	0.813	0.699	0.629	0.481	0.472	0.472
65	2.668	1.927	1.477	1.157	0.906	0.783	0.708	0.547	0.472	0.472
70	2.836	2.079	1.598	1.266	0.999	0.867	0.787	0.613	0.489	0.472
75	2.944	2.231	1.714	1.375	1.092	0.952	0.866	0.679	0.542	0.472
80	3.051	2.383	1.830	1.483	1.185	1.036	0.945	0.745	0.595	0.472
85	3.159	2.534	1.946	1.581	1.278	1.121	1.024	0.811	0.649	0.513
90	3.266	2.686	2.062	1.669	1.372	1.205	1.103	0.877	0.702	0.555
95	3.374	2.826	2.178	1.757	1.465	1.290	1.182	0.943	0.755	0.598
100	3.481	2.931	2.294	1.845	1.551	1.374	1.261	1.009	0.808	0.640
105	3.589	3.035	2.410	1.933	1.615	1.459	1.341	1.075	0.861	0.683
110	3.696	3.139	2.526	2.021	1.680	1.540	1.420	1.141	0.914	0.725
115	3.804	3.243	2.642	2.108	1.745	1.593	1.499	1.207	0.968	0.768
120	3.911	3.347	2.758	2.196	1.810	1.646	1.559	1.273	1.021	0.811
125	4.019	3.451	2.854	2.284	1.875	1.699	1.605	1.339	1.074	0.853
130	4.126	3.556	2.938	2.372	1.940	1.752	1.651	1.405	1.127	0.896
135	4.234	3.660	3.021	2.460	2.005	1.805	1.697	1.471	1.180	0.938
140	4.342	3.764	3.105	2.548	2.070	1.858	1.742	1.535	1.234	0.981
145	4.449	3.868	3.189	2.636	2.134	1.911	1.788	1.568	1.287	1.023
150	4.557	3.972	3.273	2.724	2.199	1.964	1.834	1.601	1.340	1.066
155	4.711	4.076	3.356	2.810	2.264	2.017	1.879	1.633	1.393	1.109
160	4.913	4.181	3.440	2.880	2.329	2.070	1.925	1.666	1.446	1.151
165	5.114	4.285	3.524	2.950	2.394	2.123	1.971	1.698	1.499	1.194
170	5.316	4.389	3.608	3.020	2.459	2.176	2.017	1.731	1.545	1.236
175	5.495	4.493	3.691	3.090	2.524	2.229	2.062	1.763	1.576	1.279
180	5.570	4.597	3.775	3.160	2.589	2.282	2.108	1.796	1.607	1.321
185	5.645	4.650	3.859	3.231	2.653	2.335	2.154	1.828	1.637	1.364
190	5.721	4.696	3.943	3.301	2.718	2.388	2.200	1.861	1.668	1.407
195	5.796	4.742	4.026	3.371	2.783	2.441	2.245	1.894	1.699	1.449
200	5.871	4.788	4.110	3.441	2.849	2.494	2.291	1.926	1.730	1.492
205	5.947	4.834	4.194	3.511	2.915	2.547	2.337	1.959	1.761	1.534
210	6.022	4.879	4.278	3.582	2.982	2.600	2.383	1.991	1.792	1.615
215	6.098	4.925	4.361	3.652	3.048	2.653	2.428	2.024	1.823	1.695
220	6.173	4.971	4.445	3.722	3.114	2.706	2.474	2.056	1.854	1.776
225	6.248	5.017	4.529	3.792	3.180	2.759	2.520	2.089	1.885	1.856
230	6.324	5.063	4.611	3.862	3.246	2.817	2.566	2.121	1.937	1.937
235	6.399	5.108	4.651	3.932	3.313	2.895	2.611	2.154	2.017	2.017
240	6.474	5.154	4.690	4.003	3.379	2.973	2.657	2.187	2.098	2.098
245	6.550	5.200	4.729	4.073	3.445	3.051	2.703	2.219	2.178	2.178
250	6.625	5.246	4.769	4.143	3.511	3.129	2.748	2.258	2.258	2.258
255	6.700	5.292	4.808	4.213	3.578	3.207	2.794	2.339	2.339	2.339
260	6.776	5.338	4.848	4.283	3.644	3.285	2.881	2.419	2.419	2.419
265	6.851	5.383	4.887	4.354	3.710	3.363	2.975	2.500	2.500	2.500
270	6.927	5.429	4.926	4.424	3.776	3.442	3.069	2.580	2.580	2.580
275	7.002	5.475	4.966	4.494	3.843	3.520	3.162	2.661	2.661	2.661
280	7.077	5.545	5.005	4.564	3.909	3.598	3.256	2.741	2.741	2.741
285	7.153	5.618	5.044	4.630	3.975	3.676	3.350	2.821	2.821	2.821
290	7.228	5.692	5.084	4.687	4.041	3.754	3.444	2.902	2.902	2.902
295	7.303	5.765	5.123	4.744	4.107	3.832	3.538	2.982	2.982	2.982
300	7.379	5.839	5.163	4.801	4.174	3.910	3.631	3.063	3.063	3.063
305	7.454	5.912	5.202	4.858	4.240	3.988	3.725	3.143	3.143	3.143
310	-	5.986	5.241	4.915	4.306	4.066	3.819	3.224	3.224	3.224
315	-	6.059	5.281	4.971	4.372	4.144	3.913	3.304	3.304	3.304
320	-	6.133	5.320	5.028	4.439	4.222	4.007	3.384	3.384	3.384
325	-	6.206	5.359	5.085	4.505	4.300	4.100	3.465	3.465	3.465
330	-	6.280	5.399	5.142	4.571	4.378	4.194	3.545	3.545	3.545
335	-	6.353	5.438	5.199	4.651	4.456	4.288	3.626	3.626	3.626
340	-	6.427	5.478	5.256	4.751	4.534	4.382	3.706	3.706	3.706
345	-	6.500	5.558	5.313	4.851	4.613	4.476	3.787	3.787	3.787
350	-	6.574	5.642	5.370	4.951	4.719	4.570	3.867	3.867	3.867
355	-	6.647	5.726	5.427	5.051	4.825	4.672	3.947	3.947	3.947
360	-	6.721	5.810	5.485	5.150	4.931	4.781	4.159	4.028	4.028
365	-	6.794	5.894	5.564	5.250	5.037	4.890	4.423	4.108	4.108
370	-	6.868	5.978	5.643	5.350	5.142	4.999	4.643	4.189	4.189
375	-	6.941	6.062	5.722	5.450	5.248	5.108	4.757	4.269	4.269
380	-	7.015	6.146	5.801	5.531	5.354	5.217	4.870	4.350	4.350
385	-	7.088	6.230	5.880	5.604	5.460	5.326	4.984	4.656	4.430
390	-	7.161	6.314	5.959	5.677	5.536	5.436	5.097	4.767	4.510
395	-	7.235	6.398	6.038	5.750	5.605	5.519	5.211	4.879	4.591
400	-	7.308	6.482	6.117	5.823	5.673	5.585	5.324	4.990	4.662
405	-	7.382	6.567	6.196	5.895	5.742	5.651	5.438	5.101	4.729
410	-	7.455	6.651	6.275	5.968	5.811	5.717	5.517	5.213	4.797
415	-	-	6.735	6.354	6.041	5.879	5.783	5.575	5.324	4.865
420	-	-	6.819	6.433	6.114	5.948	5.849	5.633	5.436	4.932
425	-	-	6.903	6.512	6.187	6.017	5.914	5.690	5.510	5.000
430	-	-	6.987	6.591	6.260	6.085	5.980	5.748	5.559	5.068
435	-	-	7.071	6.670	6.332	6.154	6.046	5.806	5.608	5.135
440	-	-	7.155	6.749	6.405	6.222	6.112	5.864	5.657	5.203
445	-	-	7.239	6.828	6.478	6.291	6.178	5.922	5.706	5.271
450	-	-	7.323	6.907	6.551	6.360	6.244	5.980	5.754	5.339
455	-	-	7.407	6.985	6.624	6.428	6.310	6.038	5.803	5.406
460	-	-	7.491	7.064	6.697	6.497	6.375	6.096	5.852	5.474
465	-	-	-	7.143	6.769	6.566	6.441	6.154	5.901	5.519
470	-	-	-	7.222	6.842	6.634	6.507	6.212	5.950	5.562
475	-	-	-	7.301	6.915	6.703	6.573	6.269	5.999	5.605

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 17: FIRETEX FX6002 I/H Columns: Fire Resistance Period 105 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	2.542	1.889	1.378	1.097	0.881	0.777	0.714	0.572	0.472	0.472
55	2.788	2.083	1.531	1.219	0.979	0.863	0.793	0.635	0.484	0.472
60	2.907	2.276	1.697	1.353	1.096	0.970	0.894	0.723	0.560	0.472
65	3.019	2.470	1.862	1.487	1.212	1.077	0.995	0.810	0.637	0.489
70	3.131	2.664	2.028	1.619	1.329	1.184	1.097	0.898	0.714	0.555
75	3.243	2.834	2.194	1.750	1.445	1.291	1.198	0.986	0.790	0.620
80	3.355	2.946	2.360	1.881	1.558	1.398	1.299	1.074	0.867	0.685
85	3.467	3.058	2.526	2.012	1.660	1.505	1.400	1.162	0.944	0.750
90	3.579	3.171	2.692	2.143	1.762	1.597	1.502	1.250	1.020	0.815
95	3.691	3.283	2.840	2.274	1.863	1.683	1.586	1.338	1.097	0.881
100	3.802	3.396	2.954	2.405	1.965	1.770	1.663	1.426	1.173	0.946
105	3.914	3.508	3.067	2.536	2.066	1.856	1.740	1.514	1.250	1.011
110	4.026	3.621	3.181	2.667	2.168	1.942	1.817	1.577	1.327	1.076
115	4.138	3.733	3.295	2.797	2.269	2.029	1.894	1.634	1.403	1.141
120	4.250	3.846	3.408	2.894	2.371	2.115	1.971	1.690	1.480	1.207
125	4.362	3.958	3.522	2.990	2.472	2.201	2.047	1.747	1.546	1.272
130	4.474	4.070	3.636	3.085	2.574	2.287	2.124	1.803	1.584	1.337
135	4.586	4.183	3.749	3.181	2.676	2.374	2.201	1.859	1.623	1.402
140	5.129	4.295	3.863	3.277	2.777	2.460	2.278	1.916	1.662	1.467
145	5.540	4.408	3.977	3.372	2.864	2.546	2.355	1.972	1.701	1.533
150	5.667	4.520	4.090	3.468	2.946	2.632	2.432	2.029	1.740	1.566
155	5.794	4.645	4.204	3.563	3.028	2.719	2.509	2.085	1.778	1.599
160	5.921	4.821	4.318	3.659	3.110	2.804	2.585	2.142	1.817	1.631
165	6.048	4.996	4.431	3.755	3.192	2.880	2.662	2.198	1.856	1.664
170	6.175	5.171	4.545	3.850	3.274	2.955	2.739	2.254	1.895	1.696
175	6.302	5.346	4.633	3.946	3.356	3.030	2.815	2.311	1.934	1.729
180	6.429	5.504	4.686	4.042	3.438	3.105	2.886	2.367	1.972	1.762
185	6.556	5.604	4.739	4.137	3.520	3.180	2.957	2.424	2.011	1.794
190	6.683	5.704	4.793	4.233	3.602	3.255	3.028	2.480	2.050	1.827
195	6.810	5.803	4.846	4.328	3.684	3.330	3.099	2.536	2.089	1.860
200	6.937	5.903	4.899	4.424	3.766	3.405	3.170	2.593	2.128	1.892
205	7.064	6.003	4.953	4.520	3.848	3.480	3.242	2.649	2.167	1.925
210	7.190	6.102	5.006	4.612	3.930	3.556	3.313	2.706	2.205	1.957
215	7.317	6.202	5.059	4.656	4.012	3.631	3.384	2.762	2.244	1.990
220	7.444	6.302	5.112	4.700	4.094	3.706	3.455	2.825	2.283	2.023
225	-	6.401	5.166	4.745	4.175	3.781	3.526	2.901	2.322	2.055
230	-	6.501	5.219	4.789	4.257	3.856	3.597	2.978	2.361	2.088
235	-	6.601	5.272	4.833	4.339	3.931	3.668	3.054	2.399	2.120
240	-	6.700	5.326	4.877	4.421	4.006	3.739	3.130	2.438	2.153
245	-	6.800	5.379	4.921	4.503	4.081	3.811	3.207	2.477	2.186
250	-	6.900	5.432	4.965	4.585	4.156	3.882	3.283	2.516	2.258
255	-	6.999	5.491	5.009	4.644	4.232	3.953	3.360	2.555	2.339
260	-	7.099	5.602	5.053	4.692	4.307	4.024	3.436	2.593	2.419
265	-	7.199	5.714	5.097	4.740	4.382	4.095	3.512	2.632	2.500
270	-	7.299	5.826	5.141	4.788	4.457	4.166	3.589	2.671	2.580
275	-	7.398	5.938	5.185	4.836	4.532	4.237	3.665	2.710	2.661
280	-	7.498	6.050	5.229	4.884	4.607	4.308	3.742	2.749	2.741
285	-	-	6.162	5.273	4.932	4.668	4.379	3.818	2.821	2.821
290	-	-	6.274	5.317	4.980	4.729	4.451	3.894	2.902	2.902
295	-	-	6.385	5.361	5.028	4.790	4.522	3.971	3.025	2.982
300	-	-	6.497	5.405	5.076	4.851	4.593	4.047	3.161	3.063
305	-	-	6.609	5.449	5.124	4.911	4.668	4.124	3.297	3.143
310	-	-	6.721	5.512	5.173	4.972	4.744	4.200	3.433	3.224
315	-	-	6.833	5.625	5.221	5.033	4.820	4.276	3.569	3.304
320	-	-	6.945	5.739	5.269	5.093	4.896	4.353	3.704	3.384
325	-	-	7.056	5.852	5.317	5.154	4.973	4.429	3.840	3.465
330	-	-	7.168	5.966	5.365	5.215	5.049	4.506	3.976	3.545
335	-	-	7.280	6.079	5.413	5.276	5.125	4.582	4.112	3.626
340	-	-	7.392	6.193	5.461	5.336	5.201	4.684	4.247	3.706
345	-	-	7.504	6.306	5.543	5.397	5.278	4.800	4.383	3.787
350	-	-	-	6.420	5.648	5.458	5.354	4.917	4.519	3.867
355	-	-	-	6.533	5.754	5.543	5.430	5.034	4.649	3.947
360	-	-	-	6.647	5.859	5.644	5.513	5.150	4.767	4.074
365	-	-	-	6.760	5.965	5.745	5.611	5.267	4.885	4.382
370	-	-	-	6.874	6.070	5.845	5.708	5.384	5.003	4.640
375	-	-	-	6.987	6.176	5.946	5.806	5.495	5.122	4.756
380	-	-	-	7.101	6.281	6.047	5.903	5.582	5.240	4.873
385	-	-	-	7.214	6.387	6.147	6.000	5.670	5.358	4.989
390	-	-	-	7.328	6.492	6.248	6.098	5.757	5.476	5.106
395	-	-	-	7.442	6.598	6.349	6.195	5.844	5.552	5.222
400	-	-	-	-	6.703	6.449	6.293	5.931	5.626	5.339
405	-	-	-	-	6.809	6.550	6.390	6.018	5.701	5.455
410	-	-	-	-	6.914	6.651	6.487	6.105	5.775	5.527
415	-	-	-	-	7.020	6.752	6.585	6.192	5.849	5.586
420	-	-	-	-	7.125	6.852	6.682	6.279	5.923	5.645
425	-	-	-	-	7.231	6.953	6.780	6.366	5.997	5.704
430	-	-	-	-	7.336	7.054	6.877	6.453	6.071	5.763
435	-	-	-	-	7.442	7.154	6.975	6.541	6.146	5.822
440	-	-	-	-	-	7.255	7.072	6.628	6.220	5.881
445	-	-	-	-	-	7.356	7.169	6.715	6.294	5.940
450	-	-	-	-	-	7.456	7.267	6.802	6.368	6.000
455	-	-	-	-	-	-	7.364	6.889	6.442	6.059
460	-	-	-	-	-	-	7.462	6.976	6.516	6.118
465	-	-	-	-	-	-	-	7.063	6.591	6.177
470	-	-	-	-	-	-	-	7.150	6.665	6.236
475	-	-	-	-	-	-	-	7.237	6.739	6.295

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 18: FIRETEX FX6002 I/H Columns: Fire Resistance Period 120 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	3.308	2.307	1.762	1.349	1.114	1.001	0.933	0.781	0.637	0.478
55	3.455	2.542	1.958	1.499	1.238	1.112	1.036	0.867	0.708	0.530
60	3.602	2.777	2.163	1.672	1.378	1.241	1.160	0.976	0.805	0.618
65	3.749	2.906	2.368	1.850	1.518	1.371	1.283	1.085	0.902	0.705
70	3.896	3.023	2.573	2.027	1.660	1.501	1.407	1.194	0.999	0.793
75	4.043	3.140	2.778	2.205	1.802	1.626	1.530	1.303	1.096	0.880
80	4.190	3.257	2.906	2.382	1.944	1.749	1.642	1.412	1.193	0.968
85	4.337	3.374	3.024	2.560	2.086	1.872	1.754	1.521	1.290	1.056
90	4.484	3.491	3.142	2.737	2.228	1.995	1.865	1.611	1.387	1.143
95	4.658	3.607	3.260	2.877	2.369	2.119	1.977	1.698	1.484	1.231
100	4.991	3.724	3.378	2.996	2.511	2.242	2.089	1.785	1.566	1.318
105	5.325	3.841	3.496	3.115	2.653	2.365	2.200	1.872	1.631	1.406
110	5.592	3.958	3.614	3.234	2.795	2.488	2.312	1.959	1.697	1.494
115	5.802	4.075	3.732	3.353	2.900	2.611	2.424	2.046	1.762	1.562
120	6.011	4.192	3.850	3.472	3.003	2.735	2.536	2.133	1.827	1.614
125	6.221	4.309	3.969	3.591	3.106	2.844	2.647	2.219	1.893	1.667
130	6.430	4.426	4.087	3.710	3.209	2.938	2.759	2.306	1.958	1.719
135	6.639	4.542	4.205	3.829	3.312	3.032	2.856	2.393	2.024	1.771
140	6.849	4.963	4.323	3.948	3.414	3.126	2.945	2.480	2.089	1.824
145	7.058	5.536	4.441	4.067	3.517	3.220	3.034	2.567	2.154	1.876
150	7.267	5.681	4.559	4.186	3.620	3.314	3.122	2.654	2.220	1.928
155	7.477	5.827	4.739	4.305	3.723	3.408	3.211	2.741	2.285	1.980
160	-	5.972	4.965	4.424	3.826	3.502	3.299	2.825	2.351	2.033
165	-	6.117	5.191	4.543	3.929	3.596	3.388	2.901	2.416	2.085
170	-	6.262	5.417	4.641	4.032	3.690	3.477	2.977	2.481	2.137
175	-	6.408	5.579	4.713	4.135	3.784	3.565	3.054	2.547	2.189
180	-	6.553	5.716	4.785	4.238	3.878	3.654	3.130	2.612	2.242
185	-	6.698	5.852	4.856	4.341	3.972	3.743	3.206	2.678	2.294
190	-	6.843	5.989	4.928	4.444	4.066	3.831	3.283	2.743	2.346
195	-	6.988	6.126	5.000	4.547	4.160	3.920	3.359	2.809	2.398
200	-	7.134	6.263	5.071	4.631	4.254	4.009	3.435	2.876	2.451
205	-	7.279	6.400	5.143	4.684	4.348	4.097	3.512	2.944	2.503
210	-	7.424	6.536	5.215	4.737	4.442	4.186	3.588	3.012	2.555
215	-	-	6.673	5.287	4.790	4.536	4.275	3.665	3.079	2.608
220	-	-	6.810	5.358	4.843	4.621	4.363	3.741	3.147	2.660
225	-	-	6.947	5.430	4.897	4.670	4.452	3.817	3.215	2.712
230	-	-	7.083	5.534	4.950	4.720	4.540	3.894	3.283	2.764
235	-	-	7.220	5.717	5.003	4.770	4.620	3.970	3.350	2.825
240	-	-	7.357	5.899	5.056	4.820	4.668	4.046	3.418	2.907
245	-	-	7.494	6.081	5.109	4.870	4.716	4.123	3.486	2.988
250	-	-	-	6.264	5.162	4.919	4.764	4.199	3.553	3.069
255	-	-	-	6.446	5.216	4.969	4.812	4.275	3.621	3.150
260	-	-	-	6.629	5.269	5.019	4.860	4.352	3.689	3.232
265	-	-	-	6.811	5.322	5.069	4.907	4.428	3.757	3.313
270	-	-	-	6.994	5.375	5.119	4.955	4.504	3.824	3.394
275	-	-	-	7.176	5.428	5.168	5.003	4.581	3.892	3.475
280	-	-	-	7.359	5.483	5.218	5.051	4.649	3.960	3.557
285	-	-	-	-	5.622	5.268	5.099	4.711	4.027	3.638
290	-	-	-	-	5.761	5.318	5.147	4.774	4.095	3.719
295	-	-	-	-	5.900	5.368	5.194	4.837	4.163	3.800
300	-	-	-	-	6.040	5.417	5.242	4.900	4.231	3.882
305	-	-	-	-	6.179	5.467	5.290	4.962	4.298	3.963
310	-	-	-	-	6.318	5.590	5.338	5.025	4.366	4.044
315	-	-	-	-	6.457	5.740	5.386	5.088	4.434	4.126
320	-	-	-	-	6.596	5.891	5.434	5.151	4.501	4.207
325	-	-	-	-	6.736	6.041	5.483	5.213	4.569	4.288
330	-	-	-	-	6.875	6.192	5.646	5.276	4.660	4.369
335	-	-	-	-	7.014	6.342	5.809	5.339	4.785	4.451
340	-	-	-	-	7.153	6.492	5.972	5.402	4.910	4.532
345	-	-	-	-	7.292	6.643	6.136	5.464	5.035	4.615
350	-	-	-	-	7.432	6.793	6.299	5.582	5.160	4.742
355	-	-	-	-	-	6.944	6.462	5.719	5.285	4.869
360	-	-	-	-	-	7.094	6.625	5.856	5.410	4.996
365	-	-	-	-	-	7.245	6.788	5.993	5.530	5.123
370	-	-	-	-	-	7.395	6.951	6.130	5.642	5.251
375	-	-	-	-	-	-	7.115	6.267	5.755	5.378
380	-	-	-	-	-	-	7.278	6.404	5.867	5.498
385	-	-	-	-	-	-	7.441	6.542	5.980	5.587
390	-	-	-	-	-	-	-	6.679	6.092	5.676
395	-	-	-	-	-	-	-	6.816	6.205	5.765
400	-	-	-	-	-	-	-	6.953	6.317	5.854
405	-	-	-	-	-	-	-	7.090	6.430	5.943
410	-	-	-	-	-	-	-	7.227	6.542	6.032
415	-	-	-	-	-	-	-	7.364	6.655	6.121
420	-	-	-	-	-	-	-	7.501	6.768	6.210
425	-	-	-	-	-	-	-	-	6.880	6.299
430	-	-	-	-	-	-	-	-	6.993	6.388
435	-	-	-	-	-	-	-	-	7.105	6.477
440	-	-	-	-	-	-	-	-	7.218	6.565
445	-	-	-	-	-	-	-	-	7.330	6.654
450	-	-	-	-	-	-	-	-	7.443	6.743
455	-	-	-	-	-	-	-	-	-	6.832
460	-	-	-	-	-	-	-	-	-	6.921
465	-	-	-	-	-	-	-	-	-	7.010
470	-	-	-	-	-	-	-	-	-	7.099
475	-	-	-	-	-	-	-	-	-	7.188

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 19: FIRETEX FX6002 I/H Columns: Fire Resistance Period 150 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	580	600	650	700	750
50	4.456	3.576	2.638	2.054	1.665	1.477	1.371	1.199	1.041	0.869
55	4.816	3.795	2.823	2.282	1.850	1.641	1.523	1.332	1.156	0.965
60	5.177	4.014	3.008	2.534	2.070	1.842	1.711	1.484	1.294	1.093
65	5.545	4.233	3.193	2.785	2.291	2.044	1.900	1.638	1.432	1.220
70	5.948	4.452	3.378	2.923	2.511	2.245	2.089	1.794	1.567	1.347
75	6.352	4.729	3.564	3.052	2.731	2.447	2.278	1.950	1.695	1.475
80	6.755	5.155	3.749	3.182	2.888	2.648	2.467	2.106	1.823	1.593
85	7.158	5.553	3.934	3.312	3.017	2.831	2.656	2.262	1.950	1.704
90	-	5.863	4.119	3.441	3.145	2.957	2.829	2.418	2.078	1.815
95	-	6.172	4.304	3.571	3.273	3.082	2.951	2.574	2.206	1.926
100	-	6.481	4.489	3.701	3.402	3.208	3.073	2.730	2.334	2.037
105	-	6.790	4.912	3.831	3.530	3.333	3.195	2.859	2.461	2.148
110	-	7.100	5.561	3.960	3.658	3.458	3.317	2.966	2.589	2.258
115	-	7.409	5.790	4.090	3.787	3.584	3.439	3.072	2.717	2.369
120	-	-	6.018	4.220	3.915	3.709	3.561	3.179	2.832	2.480
125	-	-	6.247	4.349	4.043	3.835	3.683	3.285	2.923	2.591
130	-	-	6.476	4.479	4.172	3.960	3.805	3.392	3.014	2.702
135	-	-	6.704	4.609	4.300	4.086	3.927	3.498	3.105	2.809
140	-	-	6.933	5.533	4.428	4.211	4.049	3.605	3.196	2.882
145	-	-	7.162	5.707	4.557	4.337	4.171	3.711	3.287	2.955
150	-	-	7.390	5.882	4.804	4.462	4.293	3.818	3.378	3.028
155	-	-	-	6.056	5.136	4.587	4.415	3.924	3.470	3.102
160	-	-	-	6.230	5.468	4.745	4.537	4.031	3.561	3.175
165	-	-	-	6.404	5.654	4.911	4.657	4.137	3.652	3.248
170	-	-	-	6.578	5.834	5.076	4.774	4.244	3.743	3.321
175	-	-	-	6.752	6.014	5.241	4.891	4.350	3.834	3.394
180	-	-	-	6.927	6.194	5.406	5.008	4.457	3.925	3.468
185	-	-	-	7.101	6.374	5.605	5.125	4.563	4.016	3.541
190	-	-	-	7.275	6.553	5.832	5.242	4.736	4.107	3.614
195	-	-	-	7.449	6.733	6.059	5.359	4.960	4.198	3.687
200	-	-	-	-	6.913	6.286	5.476	5.184	4.289	3.760
205	-	-	-	-	7.093	6.513	5.772	5.407	4.380	3.834
210	-	-	-	-	7.273	6.740	6.076	5.631	4.471	3.907
215	-	-	-	-	7.453	6.967	6.380	5.855	4.562	3.980
220	-	-	-	-	-	7.195	6.684	6.079	4.637	4.053
225	-	-	-	-	-	7.422	6.988	6.302	4.695	4.126
230	-	-	-	-	-	-	7.292	6.526	4.753	4.200
235	-	-	-	-	-	-	-	6.750	4.811	4.273
240	-	-	-	-	-	-	-	6.974	4.869	4.346
245	-	-	-	-	-	-	-	7.198	4.926	4.419
250	-	-	-	-	-	-	-	7.421	4.984	4.492
255	-	-	-	-	-	-	-	-	5.042	4.566
260	-	-	-	-	-	-	-	-	5.100	4.632
265	-	-	-	-	-	-	-	-	5.158	4.689
270	-	-	-	-	-	-	-	-	5.215	4.746
275	-	-	-	-	-	-	-	-	5.273	4.803
280	-	-	-	-	-	-	-	-	5.331	4.860
285	-	-	-	-	-	-	-	-	5.389	4.917
290	-	-	-	-	-	-	-	-	5.446	4.974
295	-	-	-	-	-	-	-	-	5.568	5.031
300	-	-	-	-	-	-	-	-	5.784	5.088
305	-	-	-	-	-	-	-	-	6.001	5.145
310	-	-	-	-	-	-	-	-	6.218	5.202
315	-	-	-	-	-	-	-	-	6.434	5.259
320	-	-	-	-	-	-	-	-	6.651	5.316
325	-	-	-	-	-	-	-	-	6.867	5.373
330	-	-	-	-	-	-	-	-	7.084	5.430
335	-	-	-	-	-	-	-	-	7.301	5.509
340	-	-	-	-	-	-	-	-	7.517	5.795
345	-	-	-	-	-	-	-	-	-	6.081
350	-	-	-	-	-	-	-	-	-	6.368
355	-	-	-	-	-	-	-	-	-	6.654
360	-	-	-	-	-	-	-	-	-	6.940
365	-	-	-	-	-	-	-	-	-	7.227
370	-	-	-	-	-	-	-	-	-	7.513
375	-	-	-	-	-	-	-	-	-	-
380	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-
410	-	-	-	-	-	-	-	-	-	-
415	-	-	-	-	-	-	-	-	-	-
420	-	-	-	-	-	-	-	-	-	-
425	-	-	-	-	-	-	-	-	-	-
430	-	-	-	-	-	-	-	-	-	-
435	-	-	-	-	-	-	-	-	-	-
440	-	-	-	-	-	-	-	-	-	-
445	-	-	-	-	-	-	-	-	-	-
450	-	-	-	-	-	-	-	-	-	-
455	-	-	-	-	-	-	-	-	-	-
460	-	-	-	-	-	-	-	-	-	-
465	-	-	-	-	-	-	-	-	-	-
470	-	-	-	-	-	-	-	-	-	-
475	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to I/H columns with four-sided fire exposure.
Results apply to I/H beams exposed on all four sides limited to a maximum thickness of 5.770 mm.

Section Factor m^{-1}	Table 20: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 15 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
45	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
50	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
55	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
60	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
65	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
70	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
75	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
80	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
85	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
90	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
95	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
100	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
105	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
110	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
115	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
120	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
125	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
130	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
135	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
140	0.375	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
145	0.391	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
150	0.407	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
155	0.422	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
160	0.438	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
165	0.453	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
170	0.469	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
175	0.485	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
180	0.500	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
185	0.516	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
190	0.531	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
195	0.547	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
200	0.563	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
205	0.578	0.367	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
210	0.594	0.379	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
215	0.610	0.392	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
220	0.625	0.405	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
225	0.641	0.417	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
230	0.656	0.430	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
235	0.672	0.443	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
240	0.688	0.455	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
245	0.703	0.468	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
250	0.719	0.480	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
255	0.734	0.493	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
260	0.750	0.506	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
265	0.766	0.518	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
270	0.781	0.531	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
275	0.797	0.544	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
280	0.812	0.556	0.378	0.366	0.366	0.366	0.366	0.366	0.366	0.366
285	0.828	0.569	0.405	0.366	0.366	0.366	0.366	0.366	0.366	0.366
290	0.844	0.582	0.433	0.366	0.366	0.366	0.366	0.366	0.366	0.366
295	0.859	0.594	0.460	0.366	0.366	0.366	0.366	0.366	0.366	0.366
300	0.875	0.607	0.488	0.366	0.366	0.366	0.366	0.366	0.366	0.366
305	0.890	0.620	0.516	0.366	0.366	0.366	0.366	0.366	0.366	0.366
310	0.906	0.632	0.543	0.366	0.366	0.366	0.366	0.366	0.366	0.366
315	0.922	0.645	0.571	0.366	0.366	0.366	0.366	0.366	0.366	0.366
320	0.937	0.658	0.599	0.366	0.366	0.366	0.366	0.366	0.366	0.366
325	0.953	0.670	0.626	0.366	0.366	0.366	0.366	0.366	0.366	0.366
330	0.968	0.683	0.654	0.366	0.366	0.366	0.366	0.366	0.366	0.366
335	0.984	0.696	0.681	0.366	0.366	0.366	0.366	0.366	0.366	0.366
340	1.000	0.709	0.709	0.366	0.366	0.366	0.366	0.366	0.366	0.366
345	1.015	0.737	0.737	0.366	0.366	0.366	0.366	0.366	0.366	0.366
350	1.031	0.764	0.764	0.366	0.366	0.366	0.366	0.366	0.366	0.366

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 21: FIRETEX FX 6002 RHS/SHS Beams: Fire Resistance Period 20 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
45	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
50	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
55	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
60	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
65	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
70	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
75	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
80	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
85	0.377	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
90	0.397	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
95	0.418	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
100	0.438	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
105	0.458	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
110	0.478	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
115	0.498	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
120	0.519	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
125	0.539	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
130	0.559	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
135	0.579	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
140	0.599	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
145	0.620	0.376	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
150	0.640	0.394	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
155	0.660	0.411	0.366	0.366	0. 366	0.366	0.366	0.366	0.366	0.366
160	0.680	0.428	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
165	0.700	0.445	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
170	0.721	0.462	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
175	0.741	0.479	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
180	0.761	0.496	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
185	0.781	0.513	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
190	0.801	0.530	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
195	0.822	0.547	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
200	0.842	0.564	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
205	0.862	0.581	0.402	0.366	0.366	0.366	0.366	0.366	0.366	0.366
210	0.882	0.598	0.440	0.366	0.366	0.366	0.366	0.366	0.366	0.366
215	0.902	0.615	0.478	0.366	0.366	0.366	0.366	0.366	0.366	0.366
220	0.923	0.632	0.516	0.366	0.366	0.366	0.366	0.366	0.366	0.366
225	0.943	0.649	0.555	0.366	0.366	0.366	0.366	0.366	0.366	0.366
230	0.963	0.666	0.593	0.366	0.366	0.366	0.366	0.366	0.366	0.366
235	0.983	0.683	0.631	0.366	0.366	0.366	0.366	0.366	0.366	0.366
240	1.003	0.700	0.670	0.366	0.366	0.366	0.366	0.366	0.366	0.366
245	1.023	0.717	0.708	0.366	0.366	0.366	0.366	0.366	0.366	0.366
250	1.044	0.746	0.746	0.375	0.366	0.366	0.366	0.366	0.366	0.366
255	1.064	0.785	0.785	0.413	0.366	0.366	0.366	0.366	0.366	0.366
260	1.084	0.823	0.823	0.452	0.366	0.366	0.366	0.366	0.366	0.366
265	1.104	0.861	0.861	0.490	0.366	0.366	0.366	0.366	0.366	0.366
270	1.124	0.900	0.900	0.529	0.366	0.366	0.366	0.366	0.366	0.366
275	1.145	0.938	0.938	0.567	0.366	0.366	0.366	0.366	0.366	0.366
280	1.165	0.976	0.976	0.606	0.366	0.366	0.366	0.366	0.366	0.366
285	1.185	1.014	1.014	0.644	0.366	0.366	0.366	0.366	0.366	0.366
290	1.205	1.053	1.053	0.683	0.366	0.366	0.366	0.366	0.366	0.366
295	1.225	1.091	1.091	0.721	0.366	0.366	0.366	0.366	0.366	0.366
300	1.246	1.129	1.129	0.760	0.366	0.366	0.366	0.366	0.366	0.366
305	1.266	1.168	1.168	0.798	0.366	0.366	0.366	0.366	0.366	0.366
310	1.286	1.206	1.206	0.837	0.381	0.366	0.366	0.366	0.366	0.366
315	1.306	1.244	1.244	0.875	0.418	0.366	0.366	0.366	0.366	0.366
320	1.326	1.283	1.283	0.914	0.455	0.366	0.366	0.366	0.366	0.366
325	1.347	1.321	1.321	0.953	0.492	0.366	0.366	0.366	0.366	0.366
330	1.367	1.359	1.359	0.991	0.530	0.366	0.366	0.366	0.366	0.366
335	1.398	1.398	1.398	1.030	0.567	0.366	0.366	0.366	0.366	0.366
340	1.436	1.436	1.436	1.068	0.604	0.366	0.366	0.366	0.366	0.366
345	1.474	1.474	1.474	1.107	0.642	0.366	0.366	0.366	0.366	0.366
350	1.512	1.512	1.512	1.145	0.679	0.366	0.366	0.366	0.366	0.366

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 22: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 30 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
45	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
50	0.394	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
55	0.424	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
60	0.454	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
65	0.483	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
70	0.513	0.368	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
75	0.543	0.393	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
80	0.573	0.417	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
85	0.603	0.442	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
90	0.633	0.466	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
95	0.663	0.491	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
100	0.693	0.515	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
105	0.722	0.539	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
110	0.752	0.564	0.406	0.366	0.366	0.366	0.366	0.366	0.366	0.366
115	0.782	0.588	0.462	0.366	0.366	0.366	0.366	0.366	0.366	0.366
120	0.812	0.613	0.518	0.366	0.366	0.366	0.366	0.366	0.366	0.366
125	0.842	0.637	0.573	0.366	0.366	0.366	0.366	0.366	0.366	0.366
130	0.872	0.662	0.629	0.366	0.366	0.366	0.366	0.366	0.366	0.366
135	0.902	0.686	0.685	0.366	0.366	0.366	0.366	0.366	0.366	0.366
140	0.931	0.740	0.740	0.366	0.366	0.366	0.366	0.366	0.366	0.366
145	0.961	0.796	0.796	0.366	0.366	0.366	0.366	0.366	0.366	0.366
150	0.991	0.852	0.852	0.388	0.366	0.366	0.366	0.366	0.366	0.366
155	1.021	0.907	0.907	0.447	0.366	0.366	0.366	0.366	0.366	0.366
160	1.051	0.963	0.963	0.506	0.366	0.366	0.366	0.366	0.366	0.366
165	1.081	1.019	1.019	0.566	0.366	0.366	0.366	0.366	0.366	0.366
170	1.111	1.075	1.075	0.625	0.366	0.366	0.366	0.366	0.366	0.366
175	1.140	1.130	1.130	0.685	0.366	0.366	0.366	0.366	0.366	0.366
180	1.186	1.186	1.186	0.744	0.366	0.366	0.366	0.366	0.366	0.366
185	1.242	1.242	1.242	0.804	0.366	0.366	0.366	0.366	0.366	0.366
190	1.297	1.297	1.297	0.863	0.381	0.366	0.366	0.366	0.366	0.366
195	1.353	1.353	1.353	0.922	0.442	0.366	0.366	0.366	0.366	0.366
200	1.409	1.409	1.409	0.982	0.503	0.366	0.366	0.366	0.366	0.366
205	1.464	1.464	1.464	1.041	0.563	0.366	0.366	0.366	0.366	0.366
210	1.520	1.520	1.520	1.101	0.624	0.366	0.366	0.366	0.366	0.366
215	1.576	1.576	1.576	1.160	0.685	0.366	0.366	0.366	0.366	0.366
220	1.632	1.632	1.632	1.219	0.746	0.366	0.366	0.366	0.366	0.366
225	1.687	1.687	1.687	1.279	0.807	0.366	0.366	0.366	0.366	0.366
230	1.743	1.743	1.743	1.338	0.868	0.390	0.366	0.366	0.366	0.366
235	1.799	1.799	1.799	1.398	0.928	0.450	0.366	0.366	0.366	0.366
240	1.854	1.854	1.854	1.457	0.989	0.510	0.366	0.366	0.366	0.366
245	1.910	1.910	1.910	1.517	1.050	0.569	0.366	0.366	0.366	0.366
250	1.966	1.966	1.966	1.576	1.111	0.629	0.402	0.366	0.366	0.366
255	2.021	2.021	2.021	1.635	1.172	0.689	0.460	0.366	0.366	0.366
260	2.077	2.077	2.077	1.695	1.233	0.748	0.519	0.366	0.366	0.366
265	2.133	2.133	2.133	1.754	1.293	0.808	0.577	0.366	0.366	0.366
270	2.188	2.188	2.188	1.814	1.354	0.867	0.636	0.366	0.366	0.366
275	2.244	2.244	2.244	1.873	1.415	0.927	0.694	0.366	0.366	0.366
280	2.300	2.300	2.300	1.933	1.476	0.987	0.753	0.366	0.366	0.366
285	2.356	2.356	2.356	1.992	1.537	1.046	0.811	0.413	0.366	0.366
290	2.411	2.411	2.411	2.051	1.598	1.106	0.869	0.469	0.366	0.366
295	2.467	2.467	2.467	2.111	1.658	1.166	0.928	0.525	0.366	0.366
300	2.523	2.523	2.523	2.170	1.719	1.225	0.986	0.581	0.395	0.366
305	2.578	2.578	2.578	2.230	1.780	1.285	1.045	0.637	0.439	0.366
310	2.634	2.634	2.634	2.289	1.841	1.345	1.103	0.693	0.483	0.366
315	2.690	2.690	2.690	2.348	1.902	1.404	1.162	0.749	0.526	0.366
320	2.745	2.745	2.745	2.408	1.963	1.464	1.220	0.805	0.570	0.366
325	2.801	2.801	2.801	2.467	2.024	1.523	1.279	0.861	0.614	0.366
330	2.857	2.857	2.857	2.527	2.084	1.583	1.337	0.917	0.657	0.366
335	2.913	2.913	2.913	2.586	2.145	1.643	1.396	0.973	0.701	0.366
340	3.038	2.968	2.968	2.646	2.206	1.702	1.454	1.029	0.745	0.366
345	3.276	3.024	3.024	2.705	2.267	1.762	1.512	1.085	0.788	0.366
350	3.514	3.080	3.080	2.764	2.328	1.822	1.571	1.141	0.832	0.366

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 23: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 45 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	0.644	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
45	0.731	0.409	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
50	0.818	0.463	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
55	0.905	0.517	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
60	0.992	0.572	0.410	0.366	0.366	0.366	0.366	0.366	0.366	0.366
65	1.079	0.626	0.491	0.366	0.366	0.366	0.366	0.366	0.366	0.366
70	1.166	0.681	0.573	0.366	0.366	0.366	0.366	0.366	0.366	0.366
75	1.252	0.735	0.654	0.390	0.366	0.366	0.366	0.366	0.366	0.366
80	1.339	0.789	0.735	0.474	0.366	0.366	0.366	0.366	0.366	0.366
85	1.426	0.844	0.816	0.557	0.366	0.366	0.366	0.366	0.366	0.366
90	1.513	0.898	0.898	0.640	0.366	0.366	0.366	0.366	0.366	0.366
95	1.600	0.979	0.979	0.724	0.400	0.366	0.366	0.366	0.366	0.366
100	1.687	1.060	1.060	0.807	0.484	0.366	0.366	0.366	0.366	0.366
105	1.774	1.141	1.141	0.890	0.569	0.366	0.366	0.366	0.366	0.366
110	1.860	1.222	1.222	0.973	0.653	0.366	0.366	0.366	0.366	0.366
115	1.947	1.304	1.304	1.057	0.738	0.366	0.366	0.366	0.366	0.366
120	2.031	1.385	1.385	1.140	0.822	0.366	0.366	0.366	0.366	0.366
125	2.111	1.466	1.466	1.223	0.907	0.449	0.366	0.366	0.366	0.366
130	2.190	1.547	1.547	1.306	0.992	0.537	0.366	0.366	0.366	0.366
135	2.270	1.629	1.629	1.390	1.076	0.624	0.368	0.366	0.366	0.366
140	2.349	1.710	1.710	1.473	1.161	0.712	0.457	0.366	0.366	0.366
145	2.429	1.791	1.791	1.556	1.245	0.799	0.546	0.366	0.366	0.366
150	2.509	1.872	1.872	1.640	1.330	0.886	0.635	0.366	0.366	0.366
155	2.588	1.953	1.953	1.723	1.414	0.974	0.724	0.366	0.366	0.366
160	2.668	2.035	2.035	1.806	1.499	1.061	0.813	0.366	0.366	0.366
165	2.748	2.116	2.116	1.889	1.584	1.149	0.902	0.435	0.435	0.366
170	2.827	2.197	2.197	1.973	1.668	1.236	0.991	0.514	0.514	0.366
175	2.907	2.278	2.278	2.056	1.753	1.324	1.080	0.592	0.592	0.366
180	2.987	2.360	2.360	2.139	1.837	1.411	1.169	0.675	0.670	0.366
185	3.090	2.441	2.441	2.222	1.922	1.498	1.259	0.768	0.748	0.366
190	3.202	2.522	2.522	2.306	2.006	1.586	1.348	0.861	0.826	0.366
195	3.314	2.603	2.603	2.389	2.091	1.673	1.437	0.954	0.905	0.366
200	3.426	2.684	2.684	2.472	2.176	1.761	1.526	1.048	0.983	0.366
205	3.539	2.766	2.766	2.556	2.260	1.848	1.615	1.141	1.061	0.366
210	3.651	2.847	2.847	2.639	2.345	1.936	1.704	1.234	1.139	0.366
215	3.763	2.928	2.928	2.722	2.429	2.023	1.793	1.328	1.217	0.419
220	3.875	3.009	3.009	2.805	2.514	2.110	1.882	1.421	1.296	0.495
225	3.987	3.091	3.091	2.889	2.598	2.198	1.971	1.514	1.374	0.571
230	4.082	3.172	3.172	2.972	2.683	2.285	2.060	1.607	1.452	0.647
235	4.129	3.253	3.253	3.055	2.768	2.373	2.149	1.701	1.530	0.723
240	4.176	3.334	3.334	3.138	2.852	2.460	2.239	1.794	1.609	0.799
245	4.222	3.415	3.415	3.222	2.937	2.548	2.328	1.887	1.687	0.875
250	4.269	3.529	3.497	3.305	3.021	2.635	2.417	1.980	1.765	0.951
255	4.316	3.659	3.578	3.388	3.106	2.722	2.506	2.074	1.843	1.027
260	4.363	3.789	3.659	3.471	3.190	2.810	2.595	2.167	1.921	1.103
265	4.410	3.919	3.740	3.555	3.275	2.897	2.684	2.260	2.000	1.180
270	4.457	4.048	3.822	3.638	3.360	2.985	2.773	2.354	2.078	1.256
275	4.503	4.108	3.903	3.721	3.444	3.072	2.862	2.447	2.156	1.332
280	4.550	4.154	3.984	3.805	3.529	3.160	2.951	2.540	2.234	1.408
285	4.597	4.200	4.065	3.888	3.613	3.247	3.040	2.633	2.312	1.484
290	4.644	4.247	4.108	3.971	3.698	3.335	3.130	2.727	2.391	1.560
295	4.691	4.293	4.150	4.054	3.782	3.422	3.219	2.820	2.469	1.636
300	4.738	4.339	4.191	4.100	3.867	3.509	3.308	2.913	2.547	1.712
305	4.785	4.386	4.232	4.138	3.952	3.597	3.397	3.006	2.625	1.788
310	4.831	4.432	4.274	4.176	4.036	3.684	3.486	3.100	2.703	1.864
315	4.878	4.478	4.315	4.214	4.090	3.772	3.575	3.193	2.782	1.940
320	4.925	4.524	4.356	4.252	4.125	3.859	3.664	3.286	2.860	2.016
325	4.972	4.571	4.398	4.290	4.159	3.947	3.753	3.380	2.938	2.092
330	5.019	4.617	4.439	4.328	4.194	4.034	3.842	3.473	3.016	2.168
335	5.066	4.663	4.481	4.366	4.228	4.088	3.931	3.566	3.094	2.244
340	5.112	4.709	4.522	4.404	4.263	4.120	4.020	3.659	3.173	2.320
345	5.159	4.756	4.563	4.442	4.297	4.151	4.083	3.753	3.251	2.396
350	5.206	4.802	4.605	4.479	4.332	4.183	4.113	3.846	3.329	2.472

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 24: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 60 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	1.100	0.695	0.366	0.366	0.366	0.366	0.366	0.366	0.366	0.366
45	1.244	0.803	0.473	0.366	0.366	0.366	0.366	0.366	0.366	0.366
50	1.387	0.910	0.556	0.400	0.366	0.366	0.366	0.366	0.366	0.366
55	1.531	1.018	0.639	0.457	0.366	0.366	0.366	0.366	0.366	0.366
60	1.675	1.126	0.722	0.514	0.384	0.366	0.366	0.366	0.366	0.366
65	1.819	1.233	0.805	0.571	0.487	0.366	0.366	0.366	0.366	0.366
70	1.963	1.341	0.888	0.628	0.591	0.366	0.366	0.366	0.366	0.366
75	2.139	1.448	0.971	0.719	0.694	0.426	0.366	0.366	0.366	0.366
80	2.324	1.556	1.054	0.822	0.798	0.529	0.399	0.366	0.366	0.366
85	2.509	1.663	1.137	0.925	0.901	0.632	0.502	0.366	0.366	0.366
90	2.694	1.771	1.220	1.028	1.005	0.735	0.605	0.372	0.366	0.366
95	2.879	1.879	1.303	1.131	1.108	0.838	0.708	0.476	0.407	0.366
100	3.033	1.986	1.387	1.233	1.212	0.941	0.811	0.580	0.505	0.366
105	3.115	2.122	1.470	1.336	1.315	1.044	0.914	0.684	0.603	0.366
110	3.196	2.260	1.553	1.439	1.419	1.147	1.017	0.789	0.701	0.366
115	3.277	2.399	1.636	1.542	1.523	1.250	1.121	0.893	0.800	0.366
120	3.359	2.537	1.719	1.644	1.626	1.353	1.224	0.997	0.898	0.366
125	3.440	2.675	1.802	1.747	1.730	1.456	1.327	1.101	0.996	0.378
130	3.522	2.814	1.885	1.850	1.833	1.559	1.430	1.205	1.094	0.484
135	3.603	2.952	1.968	1.953	1.937	1.662	1.533	1.309	1.192	0.590
140	3.685	3.064	2.065	2.055	2.040	1.765	1.636	1.413	1.290	0.696
145	3.766	3.157	2.169	2.158	2.144	1.868	1.739	1.517	1.388	0.802
150	3.848	3.251	2.274	2.261	2.247	1.971	1.842	1.622	1.486	0.908
155	3.929	3.344	2.378	2.364	2.351	2.074	1.946	1.726	1.584	1.014
160	4.010	3.437	2.482	2.466	2.454	2.177	2.049	1.830	1.683	1.120
165	4.231	3.531	2.587	2.569	2.558	2.280	2.152	1.934	1.781	1.226
170	4.807	3.624	2.691	2.672	2.661	2.383	2.255	2.038	1.879	1.332
175	5.383	3.717	2.795	2.775	2.765	2.486	2.358	2.142	1.977	1.438
180	-	3.810	2.900	2.878	2.868	2.589	2.461	2.246	2.075	1.544
185	-	3.904	3.004	2.980	2.972	2.692	2.564	2.350	2.173	1.649
190	-	3.997	3.211	3.083	3.075	2.795	2.668	2.454	2.271	1.755
195	-	4.089	3.422	3.186	3.179	2.898	2.771	2.559	2.369	1.861
200	-	4.176	3.634	3.289	3.282	3.001	2.874	2.663	2.467	1.967
205	-	4.264	3.846	3.391	3.386	3.104	2.977	2.767	2.566	2.073
210	-	4.351	4.058	3.494	3.489	3.206	3.080	2.871	2.664	2.179
215	-	4.439	4.121	3.597	3.593	3.309	3.183	2.975	2.762	2.285
220	-	4.526	4.177	3.842	3.696	3.412	3.286	3.079	2.860	2.391
225	-	4.614	4.232	4.083	3.800	3.515	3.389	3.183	2.958	2.497
230	-	4.701	4.287	4.136	3.903	3.618	3.493	3.287	3.056	2.603
235	-	4.789	4.343	4.190	4.007	3.721	3.596	3.391	3.154	2.709
240	-	4.876	4.398	4.244	4.089	3.824	3.699	3.496	3.252	2.815
245	-	4.964	4.453	4.298	4.140	3.927	3.802	3.600	3.350	2.921
250	-	5.051	4.508	4.352	4.191	4.030	3.905	3.704	3.449	3.027
255	-	5.139	4.564	4.405	4.241	4.099	4.008	3.808	3.547	3.133
260	-	5.226	4.619	4.459	4.292	4.146	4.088	3.912	3.645	3.239
265	-	5.314	4.674	4.513	4.343	4.194	4.133	4.016	3.743	3.345
270	-	5.401	4.729	4.567	4.394	4.242	4.179	4.090	3.841	3.451
275	-	5.489	4.785	4.621	4.444	4.289	4.225	4.133	3.939	3.557
280	-	5.576	4.840	4.674	4.495	4.337	4.270	4.176	4.037	3.663
285	-	-	4.895	4.728	4.546	4.384	4.316	4.218	4.086	3.769
290	-	-	4.951	4.782	4.596	4.432	4.361	4.261	4.111	3.875
295	-	-	5.006	4.836	4.647	4.480	4.407	4.304	4.136	3.981
300	-	-	5.061	4.889	4.698	4.527	4.453	4.347	4.161	4.073
305	-	-	5.116	4.943	4.749	4.575	4.498	4.390	4.186	4.094
310	-	-	5.172	4.997	4.800	4.622	4.544	4.433	4.211	4.115
315	-	-	5.227	5.051	4.852	4.670	4.590	4.475	4.236	4.136
320	-	-	5.282	5.105	4.903	4.718	4.635	4.518	4.261	4.157
325	-	-	5.338	5.158	4.955	4.765	4.681	4.561	4.286	4.178
330	-	-	5.393	5.212	5.006	4.813	4.727	4.604	4.311	4.199
335	-	-	5.448	5.266	5.057	4.860	4.772	4.647	4.336	4.220
340	-	-	5.503	5.320	5.109	4.908	4.818	4.689	4.362	4.241
345	-	-	5.559	5.374	5.160	4.956	4.863	4.732	4.387	4.263
350	-	-	5.614	5.427	5.212	5.003	4.909	4.775	4.412	4.284

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 25: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 75 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	1.555	1.103	0.750	0.474	0.366	0.366	0.366	0.366	0.366	0.366
45	1.756	1.262	0.881	0.581	0.408	0.366	0.366	0.366	0.366	0.366
50	1.957	1.420	1.012	0.688	0.489	0.372	0.366	0.366	0.366	0.366
55	2.241	1.579	1.143	0.794	0.570	0.431	0.366	0.366	0.366	0.366
60	2.546	1.737	1.274	0.901	0.650	0.490	0.481	0.366	0.366	0.366
65	2.850	1.896	1.405	1.008	0.731	0.599	0.599	0.445	0.366	0.366
70	3.220	2.090	1.536	1.114	0.811	0.717	0.717	0.562	0.473	0.366
75	3.664	2.343	1.667	1.221	0.892	0.835	0.835	0.678	0.584	0.366
80	4.108	2.595	1.798	1.328	0.972	0.953	0.953	0.795	0.694	0.366
85	4.552	2.848	1.929	1.434	1.071	1.071	1.071	0.911	0.805	0.432
90	4.995	3.122	2.100	1.541	1.189	1.189	1.189	1.028	0.915	0.546
95	5.439	3.433	2.310	1.648	1.307	1.307	1.307	1.145	1.025	0.660
100	-	3.744	2.521	1.754	1.425	1.425	1.425	1.261	1.136	0.773
105	-	4.055	2.732	1.861	1.543	1.543	1.543	1.378	1.246	0.887
110	-	4.366	2.943	1.967	1.661	1.661	1.661	1.494	1.357	1.001
115	-	4.677	3.180	2.120	1.779	1.779	1.779	1.611	1.467	1.115
120	-	4.988	3.428	2.287	1.897	1.897	1.897	1.727	1.577	1.228
125	-	5.299	3.677	2.455	2.015	2.015	2.015	1.844	1.688	1.342
130	-	5.609	3.926	2.623	2.133	2.133	2.133	1.961	1.798	1.456
135	-	-	4.175	2.791	2.251	2.251	2.251	2.077	1.908	1.569
140	-	-	4.423	2.959	2.369	2.369	2.369	2.194	2.019	1.683
145	-	-	4.672	3.106	2.487	2.487	2.487	2.310	2.129	1.797
150	-	-	4.921	3.244	2.605	2.605	2.605	2.427	2.240	1.910
155	-	-	5.170	3.382	2.723	2.723	2.723	2.543	2.350	2.024
160	-	-	5.418	3.520	2.841	2.841	2.841	2.660	2.460	2.138
165	-	-	-	3.658	2.959	2.959	2.959	2.777	2.571	2.251
170	-	-	-	3.796	3.077	3.077	3.077	2.893	2.681	2.365
175	-	-	-	3.935	3.195	3.195	3.195	3.010	2.792	2.479
180	-	-	-	4.086	3.313	3.313	3.313	3.126	2.902	2.592
185	-	-	-	4.729	3.431	3.431	3.431	3.243	3.012	2.706
190	-	-	-	5.372	3.708	3.549	3.549	3.359	3.123	2.820
195	-	-	-	-	4.124	3.667	3.667	3.476	3.233	2.933
200	-	-	-	-	4.305	3.785	3.785	3.593	3.344	3.047
205	-	-	-	-	4.485	3.903	3.903	3.709	3.454	3.161
210	-	-	-	-	4.671	4.134	4.021	3.826	3.564	3.275
215	-	-	-	-	4.863	4.230	4.112	3.942	3.675	3.388
220	-	-	-	-	5.055	4.325	4.185	4.059	3.785	3.502
225	-	-	-	-	5.247	4.421	4.258	4.125	3.895	3.616
230	-	-	-	-	5.439	4.516	4.330	4.187	4.006	3.729
235	-	-	-	-	5.568	4.612	4.403	4.249	4.084	3.843
240	-	-	-	-	-	4.707	4.476	4.311	4.120	3.957
245	-	-	-	-	-	4.803	4.549	4.373	4.156	4.069
250	-	-	-	-	-	4.898	4.622	4.435	4.192	4.101
255	-	-	-	-	-	4.994	4.694	4.497	4.228	4.132
260	-	-	-	-	-	5.089	4.767	4.559	4.264	4.163
265	-	-	-	-	-	5.185	4.840	4.620	4.300	4.194
270	-	-	-	-	-	5.280	4.913	4.682	4.336	4.226
275	-	-	-	-	-	5.376	4.985	4.744	4.372	4.257
280	-	-	-	-	-	5.471	5.058	4.806	4.408	4.288
285	-	-	-	-	-	5.567	5.131	4.868	4.444	4.319
290	-	-	-	-	-	-	5.204	4.930	4.480	4.351
295	-	-	-	-	-	-	5.277	4.992	4.516	4.382
300	-	-	-	-	-	-	5.349	5.054	4.552	4.413
305	-	-	-	-	-	-	5.422	5.115	4.588	4.445
310	-	-	-	-	-	-	5.495	5.177	4.624	4.476
315	-	-	-	-	-	-	5.568	5.239	4.660	4.507
320	-	-	-	-	-	-	5.640	5.301	4.696	4.538
325	-	-	-	-	-	-	-	5.363	4.732	4.570
330	-	-	-	-	-	-	-	5.425	4.768	4.601
335	-	-	-	-	-	-	-	5.487	4.804	4.632
340	-	-	-	-	-	-	-	5.548	4.840	4.663
345	-	-	-	-	-	-	-	5.610	4.876	4.695
350	-	-	-	-	-	-	-	-	4.912	4.726

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 26: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 90 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	2.023	1.511	1.127	0.827	0.583	0.366	0.366	0.366	0.366	0.366
45	2.453	1.721	1.305	0.978	0.710	0.485	0.427	0.366	0.366	0.366
50	2.882	1.930	1.483	1.128	0.836	0.591	0.523	0.434	0.388	0.366
55	3.642	2.255	1.661	1.279	0.962	0.697	0.619	0.517	0.446	0.366
60	4.541	2.632	1.839	1.430	1.089	0.803	0.715	0.600	0.504	0.366
65	-	3.009	2.036	1.580	1.215	0.908	0.811	0.684	0.562	0.463
70	-	3.683	2.364	1.731	1.341	1.014	0.907	0.767	0.620	0.590
75	-	4.358	2.692	1.882	1.468	1.120	1.003	0.850	0.716	0.716
80	-	5.033	3.029	2.064	1.594	1.226	1.099	0.933	0.842	0.842
85	-	-	3.588	2.339	1.720	1.332	1.195	1.016	0.969	0.969
90	-	-	4.147	2.614	1.846	1.438	1.291	1.099	1.095	1.095
95	-	-	4.707	2.890	1.973	1.544	1.387	1.221	1.221	1.221
100	-	-	5.266	3.328	2.181	1.649	1.483	1.347	1.347	1.347
105	-	-	-	3.890	2.406	1.755	1.579	1.474	1.474	1.474
110	-	-	-	4.453	2.631	1.861	1.675	1.600	1.600	1.600
115	-	-	-	5.015	2.856	1.967	1.779	1.726	1.726	1.726
120	-	-	-	-	3.198	2.122	1.897	1.853	1.853	1.853
125	-	-	-	-	3.787	2.294	2.015	1.979	1.979	1.979
130	-	-	-	-	4.377	2.466	2.133	2.105	2.105	2.105
135	-	-	-	-	4.966	2.638	2.258	2.232	2.232	2.232
140	-	-	-	-	-	2.811	2.415	2.358	2.358	2.358
145	-	-	-	-	-	2.983	2.573	2.484	2.484	2.484
150	-	-	-	-	-	3.715	2.731	2.610	2.610	2.610
155	-	-	-	-	-	4.548	2.888	2.737	2.737	2.737
160	-	-	-	-	-	5.381	3.241	2.863	2.863	2.863
165	-	-	-	-	-	-	4.233	2.989	2.989	2.989
170	-	-	-	-	-	-	5.226	3.116	3.116	3.116
175	-	-	-	-	-	-	-	3.242	3.242	3.242
180	-	-	-	-	-	-	-	3.368	3.368	3.368
185	-	-	-	-	-	-	-	4.743	3.495	3.495
190	-	-	-	-	-	-	-	-	3.621	3.621
195	-	-	-	-	-	-	-	-	3.747	3.747
200	-	-	-	-	-	-	-	-	4.083	3.873
205	-	-	-	-	-	-	-	-	4.131	4.000
210	-	-	-	-	-	-	-	-	4.179	4.088
215	-	-	-	-	-	-	-	-	4.226	4.130
220	-	-	-	-	-	-	-	-	4.274	4.173
225	-	-	-	-	-	-	-	-	4.322	4.215
230	-	-	-	-	-	-	-	-	4.370	4.258
235	-	-	-	-	-	-	-	-	4.417	4.300
240	-	-	-	-	-	-	-	-	4.465	4.342
245	-	-	-	-	-	-	-	-	4.513	4.385
250	-	-	-	-	-	-	-	-	4.560	4.427
255	-	-	-	-	-	-	-	-	4.608	4.469
260	-	-	-	-	-	-	-	-	4.656	4.512
265	-	-	-	-	-	-	-	-	4.703	4.554
270	-	-	-	-	-	-	-	-	4.751	4.597
275	-	-	-	-	-	-	-	-	4.799	4.639
280	-	-	-	-	-	-	-	-	4.847	4.681
285	-	-	-	-	-	-	-	-	4.894	4.724
290	-	-	-	-	-	-	-	-	4.942	4.766
295	-	-	-	-	-	-	-	-	4.990	4.808
300	-	-	-	-	-	-	-	-	5.037	4.851
305	-	-	-	-	-	-	-	-	5.085	4.893
310	-	-	-	-	-	-	-	-	5.133	4.936
315	-	-	-	-	-	-	-	-	5.180	4.978
320	-	-	-	-	-	-	-	-	5.228	5.020
325	-	-	-	-	-	-	-	-	5.276	5.063
330	-	-	-	-	-	-	-	-	5.324	5.105
335	-	-	-	-	-	-	-	-	5.371	5.147
340	-	-	-	-	-	-	-	-	5.419	5.190
345	-	-	-	-	-	-	-	-	5.467	5.232
350	-	-	-	-	-	-	-	-	5.514	5.275

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 27: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 105 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	2.846	1.919	1.503	1.179	0.919	0.682	0.590	0.441	0.366	0.366
45	4.077	2.354	1.729	1.374	1.087	0.831	0.731	0.575	0.467	0.366
50	-	2.860	1.954	1.569	1.255	0.979	0.873	0.708	0.571	0.405
55	-	3.856	2.364	1.764	1.423	1.127	1.014	0.841	0.675	0.502
60	-	5.057	2.816	1.959	1.592	1.276	1.155	0.975	0.779	0.598
65	-	-	3.582	2.311	1.760	1.424	1.297	1.108	0.883	0.695
70	-	-	4.583	2.699	1.928	1.572	1.438	1.241	0.986	0.792
75	-	-	-	3.211	2.193	1.721	1.579	1.375	1.090	0.889
80	-	-	-	4.207	2.521	1.869	1.721	1.508	1.194	0.986
85	-	-	-	5.203	2.849	2.036	1.862	1.641	1.298	1.082
90	-	-	-	-	3.530	2.307	2.010	1.775	1.402	1.179
95	-	-	-	-	4.547	2.579	2.265	1.908	1.506	1.276
100	-	-	-	-	-	2.850	2.520	2.074	1.610	1.373
105	-	-	-	-	-	3.518	2.776	2.301	1.714	1.474
110	-	-	-	-	-	4.742	3.120	2.527	1.818	1.600
115	-	-	-	-	-	-	4.405	2.754	1.922	1.726
120	-	-	-	-	-	-	-	2.981	2.053	1.853
125	-	-	-	-	-	-	-	4.952	2.251	1.979
130	-	-	-	-	-	-	-	-	2.448	2.105
135	-	-	-	-	-	-	-	-	2.646	2.232
140	-	-	-	-	-	-	-	-	2.843	2.358
145	-	-	-	-	-	-	-	-	3.039	2.484
150	-	-	-	-	-	-	-	-	3.223	2.610
155	-	-	-	-	-	-	-	-	3.407	2.737
160	-	-	-	-	-	-	-	-	3.591	2.863
165	-	-	-	-	-	-	-	-	3.775	2.989
170	-	-	-	-	-	-	-	-	3.960	3.116
175	-	-	-	-	-	-	-	-	4.163	3.466
180	-	-	-	-	-	-	-	-	4.395	4.029
185	-	-	-	-	-	-	-	-	4.627	4.153
190	-	-	-	-	-	-	-	-	4.859	4.244
195	-	-	-	-	-	-	-	-	5.090	4.335
200	-	-	-	-	-	-	-	-	5.322	4.425
205	-	-	-	-	-	-	-	-	5.554	4.516
210	-	-	-	-	-	-	-	-	-	4.607
215	-	-	-	-	-	-	-	-	-	4.698
220	-	-	-	-	-	-	-	-	-	4.788
225	-	-	-	-	-	-	-	-	-	4.879
230	-	-	-	-	-	-	-	-	-	4.970
235	-	-	-	-	-	-	-	-	-	5.060
240	-	-	-	-	-	-	-	-	-	5.151
245	-	-	-	-	-	-	-	-	-	5.242
250	-	-	-	-	-	-	-	-	-	5.333
255	-	-	-	-	-	-	-	-	-	5.423
260	-	-	-	-	-	-	-	-	-	5.514
265	-	-	-	-	-	-	-	-	-	5.605
270	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 28: FIRETEX FX6002 RHS/SHS Beams: Fire Resistance Period 120 Minutes Thickness (mm) Required for a Design Temperature of									
	350	400	450	500	550	600	620	650	700	750
40	-	2.691	1.880	1.532	1.254	1.010	0.920	0.779	0.630	0.366
45	-	3.926	2.329	1.771	1.464	1.199	1.102	0.955	0.777	0.506
50	-	-	2.908	2.026	1.675	1.388	1.285	1.130	0.924	0.658
55	-	-	4.315	2.531	1.885	1.577	1.467	1.306	1.071	0.809
60	-	-	-	3.090	2.201	1.767	1.650	1.482	1.218	0.961
65	-	-	-	4.630	2.635	1.956	1.833	1.657	1.365	1.113
70	-	-	-	-	3.216	2.293	2.034	1.833	1.512	1.265
75	-	-	-	-	4.730	2.668	2.392	2.020	1.659	1.417
80	-	-	-	-	-	3.157	2.750	2.350	1.806	1.568
85	-	-	-	-	-	4.774	3.446	2.680	1.953	1.720
90	-	-	-	-	-	-	5.039	3.018	2.228	1.872
95	-	-	-	-	-	-	-	5.251	2.554	2.045
100	-	-	-	-	-	-	-	-	2.880	2.310
105	-	-	-	-	-	-	-	-	3.250	2.575
110	-	-	-	-	-	-	-	-	3.649	2.839
115	-	-	-	-	-	-	-	-	4.049	3.122
120	-	-	-	-	-	-	-	-	4.448	3.437
125	-	-	-	-	-	-	-	-	4.848	3.752
130	-	-	-	-	-	-	-	-	5.247	4.067
135	-	-	-	-	-	-	-	-	5.646	4.382
140	-	-	-	-	-	-	-	-	-	4.697
145	-	-	-	-	-	-	-	-	-	5.013
150	-	-	-	-	-	-	-	-	-	5.328
155	-	-	-	-	-	-	-	-	-	5.643
160	-	-	-	-	-	-	-	-	-	-
165	-	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-	-	-	-
190	-	-	-	-	-	-	-	-	-	-
195	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-
205	-	-	-	-	-	-	-	-	-	-
210	-	-	-	-	-	-	-	-	-	-
215	-	-	-	-	-	-	-	-	-	-
220	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	-	-	-	-
230	-	-	-	-	-	-	-	-	-	-
235	-	-	-	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-	-	-	-
245	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-
270	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to rectangular/square hollow beams with concrete slabs with three-sided fire exposure.

Section Factor m^{-1}	Table 29: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 15 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
55	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
60	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
65	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
70	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
75	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
80	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
85	0.382	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
90	0.403	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
95	0.424	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
100	0.445	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
105	0.467	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
110	0.488	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
115	0.509	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
120	0.530	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
125	0.552	0.370	0.369	0.369	0.369	0.369	0.369	0.369	0.369
130	0.573	0.387	0.369	0.369	0.369	0.369	0.369	0.369	0.369
135	0.594	0.403	0.369	0.369	0.369	0.369	0.369	0.369	0.369
140	0.615	0.419	0.369	0.369	0.369	0.369	0.369	0.369	0.369
145	0.637	0.436	0.369	0.369	0.369	0.369	0.369	0.369	0.369
150	0.658	0.452	0.369	0.369	0.369	0.369	0.369	0.369	0.369
155	0.679	0.468	0.369	0.369	0.369	0.369	0.369	0.369	0.369
160	0.700	0.485	0.369	0.369	0.369	0.369	0.369	0.369	0.369
165	0.721	0.501	0.369	0.369	0.369	0.369	0.369	0.369	0.369
170	0.743	0.517	0.369	0.369	0.369	0.369	0.369	0.369	0.369
175	0.764	0.534	0.369	0.369	0.369	0.369	0.369	0.369	0.369
180	0.785	0.550	0.369	0.369	0.369	0.369	0.369	0.369	0.369
185	0.806	0.566	0.369	0.369	0.369	0.369	0.369	0.369	0.369
190	0.828	0.583	0.379	0.369	0.369	0.369	0.369	0.369	0.369
195	0.849	0.599	0.394	0.369	0.369	0.369	0.369	0.369	0.369
200	0.870	0.615	0.408	0.369	0.369	0.369	0.369	0.369	0.369
205	0.891	0.632	0.423	0.369	0.369	0.369	0.369	0.369	0.369
210	0.913	0.648	0.437	0.369	0.369	0.369	0.369	0.369	0.369
215	0.934	0.664	0.452	0.369	0.369	0.369	0.369	0.369	0.369
220	0.955	0.681	0.467	0.369	0.369	0.369	0.369	0.369	0.369
225	0.976	0.697	0.481	0.369	0.369	0.369	0.369	0.369	0.369
230	0.998	0.713	0.496	0.369	0.369	0.369	0.369	0.369	0.369
235	1.019	0.730	0.511	0.369	0.369	0.369	0.369	0.369	0.369
240	1.040	0.746	0.525	0.369	0.369	0.369	0.369	0.369	0.369
245	1.061	0.762	0.540	0.369	0.369	0.369	0.369	0.369	0.369
250	1.083	0.779	0.554	0.369	0.369	0.369	0.369	0.369	0.369
255	1.104	0.795	0.569	0.369	0.369	0.369	0.369	0.369	0.369
260	1.125	0.811	0.584	0.378	0.369	0.369	0.369	0.369	0.369
265	1.146	0.828	0.598	0.391	0.369	0.369	0.369	0.369	0.369
270	1.168	0.844	0.613	0.404	0.369	0.369	0.369	0.369	0.369
275	1.189	0.860	0.628	0.417	0.369	0.369	0.369	0.369	0.369
280	1.210	0.877	0.642	0.430	0.369	0.369	0.369	0.369	0.369
285	1.231	0.893	0.657	0.443	0.369	0.369	0.369	0.369	0.369
290	1.253	0.909	0.671	0.456	0.369	0.369	0.369	0.369	0.369
295	1.274	0.926	0.686	0.469	0.369	0.369	0.369	0.369	0.369
300	1.295	0.942	0.701	0.481	0.369	0.369	0.369	0.369	0.369
305	1.316	0.958	0.715	0.494	0.369	0.369	0.369	0.369	0.369
310	1.337	0.975	0.730	0.507	0.369	0.369	0.369	0.369	0.369
315	1.359	0.991	0.745	0.520	0.369	0.369	0.369	0.369	0.369
320	1.380	1.007	0.759	0.533	0.369	0.369	0.369	0.369	0.369
325	1.401	1.024	0.774	0.546	0.369	0.369	0.369	0.369	0.369
330	1.422	1.040	0.788	0.559	0.369	0.369	0.369	0.369	0.369
335	1.444	1.056	0.803	0.572	0.369	0.369	0.369	0.369	0.369
340	1.465	1.073	0.818	0.584	0.380	0.369	0.369	0.369	0.369
345	1.486	1.089	0.832	0.597	0.391	0.369	0.369	0.369	0.369
350	1.507	1.105	0.847	0.610	0.402	0.369	0.369	0.369	0.369
355	1.529	1.122	0.862	0.623	0.413	0.369	0.369	0.369	0.369

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 30: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 20 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
55	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
60	0.372	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
65	0.401	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
70	0.429	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
75	0.458	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
80	0.487	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
85	0.516	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
90	0.544	0.381	0.369	0.369	0.369	0.369	0.369	0.369	0.369
95	0.573	0.403	0.369	0.369	0.369	0.369	0.369	0.369	0.369
100	0.602	0.425	0.369	0.369	0.369	0.369	0.369	0.369	0.369
105	0.631	0.447	0.369	0.369	0.369	0.369	0.369	0.369	0.369
110	0.659	0.469	0.369	0.369	0.369	0.369	0.369	0.369	0.369
115	0.688	0.492	0.369	0.369	0.369	0.369	0.369	0.369	0.369
120	0.717	0.514	0.369	0.369	0.369	0.369	0.369	0.369	0.369
125	0.746	0.536	0.382	0.369	0.369	0.369	0.369	0.369	0.369
130	0.774	0.558	0.402	0.369	0.369	0.369	0.369	0.369	0.369
135	0.803	0.580	0.422	0.369	0.369	0.369	0.369	0.369	0.369
140	0.832	0.602	0.441	0.369	0.369	0.369	0.369	0.369	0.369
145	0.860	0.624	0.461	0.369	0.369	0.369	0.369	0.369	0.369
150	0.889	0.647	0.481	0.369	0.369	0.369	0.369	0.369	0.369
155	0.918	0.669	0.500	0.369	0.369	0.369	0.369	0.369	0.369
160	0.947	0.691	0.520	0.369	0.369	0.369	0.369	0.369	0.369
165	0.975	0.713	0.540	0.369	0.369	0.369	0.369	0.369	0.369
170	1.004	0.735	0.559	0.382	0.369	0.369	0.369	0.369	0.369
175	1.033	0.757	0.579	0.400	0.369	0.369	0.369	0.369	0.369
180	1.062	0.779	0.599	0.417	0.369	0.369	0.369	0.369	0.369
185	1.090	0.802	0.618	0.435	0.369	0.369	0.369	0.369	0.369
190	1.119	0.824	0.638	0.452	0.369	0.369	0.369	0.369	0.369
195	1.148	0.846	0.658	0.470	0.369	0.369	0.369	0.369	0.369
200	1.177	0.868	0.677	0.488	0.369	0.369	0.369	0.369	0.369
205	1.205	0.890	0.697	0.505	0.369	0.369	0.369	0.369	0.369
210	1.234	0.912	0.717	0.523	0.369	0.369	0.369	0.369	0.369
215	1.263	0.934	0.736	0.541	0.369	0.369	0.369	0.369	0.369
220	1.292	0.957	0.756	0.558	0.369	0.369	0.369	0.369	0.369
225	1.320	0.979	0.776	0.576	0.369	0.369	0.369	0.369	0.369
230	1.349	1.001	0.795	0.594	0.372	0.369	0.369	0.369	0.369
235	1.378	1.023	0.815	0.611	0.388	0.369	0.369	0.369	0.369
240	1.406	1.045	0.835	0.629	0.404	0.369	0.369	0.369	0.369
245	1.435	1.067	0.854	0.647	0.419	0.369	0.369	0.369	0.369
250	1.464	1.090	0.874	0.664	0.435	0.369	0.369	0.369	0.369
255	1.493	1.112	0.894	0.682	0.451	0.369	0.369	0.369	0.369
260	1.521	1.134	0.913	0.700	0.466	0.369	0.369	0.369	0.369
265	1.550	1.156	0.933	0.717	0.482	0.369	0.369	0.369	0.369
270	1.579	1.178	0.953	0.735	0.498	0.369	0.369	0.369	0.369
275	1.608	1.200	0.972	0.752	0.514	0.369	0.369	0.369	0.369
280	1.636	1.222	0.992	0.770	0.529	0.369	0.369	0.369	0.369
285	1.665	1.245	1.012	0.788	0.545	0.369	0.369	0.369	0.369
290	1.694	1.267	1.031	0.805	0.561	0.369	0.369	0.369	0.369
295	1.723	1.289	1.051	0.823	0.576	0.382	0.369	0.369	0.369
300	1.751	1.311	1.071	0.841	0.592	0.407	0.369	0.369	0.369
305	1.780	1.333	1.090	0.858	0.608	0.432	0.369	0.369	0.369
310	1.809	1.355	1.110	0.876	0.624	0.457	0.369	0.369	0.369
315	1.838	1.377	1.130	0.894	0.639	0.482	0.369	0.369	0.369
320	1.866	1.400	1.149	0.911	0.655	0.507	0.369	0.369	0.369
325	1.895	1.422	1.169	0.929	0.671	0.532	0.369	0.369	0.369
330	1.924	1.444	1.189	0.947	0.687	0.557	0.369	0.369	0.369
335	1.952	1.466	1.208	0.964	0.702	0.582	0.369	0.369	0.369
340	1.981	1.488	1.228	0.982	0.718	0.608	0.369	0.369	0.369
345	2.010	1.510	1.248	1.000	0.734	0.633	0.369	0.369	0.369
350	2.039	1.532	1.267	1.017	0.749	0.658	0.369	0.369	0.369
355	2.096	1.555	1.287	1.035	0.765	0.683	0.369	0.369	0.369

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 31: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 30 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.592	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
55	0.655	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369
60	0.718	0.406	0.369	0.369	0.369	0.369	0.369	0.369	0.369
65	0.781	0.443	0.369	0.369	0.369	0.369	0.369	0.369	0.369
70	0.843	0.481	0.369	0.369	0.369	0.369	0.369	0.369	0.369
75	0.906	0.519	0.390	0.369	0.369	0.369	0.369	0.369	0.369
80	0.969	0.556	0.419	0.369	0.369	0.369	0.369	0.369	0.369
85	1.032	0.594	0.449	0.369	0.369	0.369	0.369	0.369	0.369
90	1.095	0.632	0.479	0.369	0.369	0.369	0.369	0.369	0.369
95	1.157	0.669	0.509	0.389	0.369	0.369	0.369	0.369	0.369
100	1.220	0.707	0.539	0.416	0.369	0.369	0.369	0.369	0.369
105	1.283	0.745	0.569	0.443	0.369	0.369	0.369	0.369	0.369
110	1.346	0.782	0.599	0.469	0.369	0.369	0.369	0.369	0.369
115	1.409	0.820	0.629	0.496	0.369	0.369	0.369	0.369	0.369
120	1.471	0.858	0.659	0.523	0.385	0.369	0.369	0.369	0.369
125	1.534	0.895	0.689	0.550	0.409	0.369	0.369	0.369	0.369
130	1.597	0.933	0.719	0.576	0.433	0.369	0.369	0.369	0.369
135	1.660	0.971	0.749	0.603	0.457	0.369	0.369	0.369	0.369
140	1.723	1.008	0.779	0.630	0.481	0.369	0.369	0.369	0.369
145	1.785	1.046	0.809	0.657	0.505	0.369	0.369	0.369	0.369
150	1.848	1.083	0.839	0.684	0.529	0.369	0.369	0.369	0.369
155	1.911	1.121	0.868	0.710	0.553	0.392	0.369	0.369	0.369
160	1.974	1.159	0.898	0.737	0.576	0.433	0.369	0.369	0.369
165	2.037	1.196	0.928	0.764	0.600	0.473	0.369	0.369	0.369
170	2.095	1.234	0.958	0.791	0.624	0.514	0.369	0.369	0.369
175	2.152	1.272	0.988	0.818	0.648	0.555	0.369	0.369	0.369
180	2.210	1.309	1.018	0.844	0.672	0.595	0.369	0.369	0.369
185	2.267	1.347	1.048	0.871	0.696	0.636	0.369	0.369	0.369
190	2.325	1.385	1.078	0.898	0.720	0.677	0.369	0.369	0.369
195	2.382	1.422	1.108	0.925	0.744	0.717	0.369	0.369	0.369
200	2.440	1.460	1.138	0.951	0.768	0.758	0.385	0.369	0.369
205	2.498	1.498	1.168	0.978	0.799	0.799	0.423	0.369	0.369
210	2.555	1.535	1.198	1.005	0.839	0.839	0.460	0.369	0.369
215	2.613	1.573	1.228	1.032	0.880	0.880	0.497	0.369	0.369
220	2.670	1.611	1.258	1.059	0.921	0.921	0.534	0.369	0.369
225	2.728	1.648	1.288	1.085	0.961	0.961	0.571	0.369	0.369
230	2.786	1.686	1.317	1.112	1.002	1.002	0.608	0.369	0.369
235	2.843	1.724	1.347	1.139	1.043	1.043	0.645	0.369	0.369
240	2.901	1.761	1.377	1.166	1.083	1.083	0.682	0.369	0.369
245	2.958	1.799	1.407	1.193	1.124	1.124	0.719	0.369	0.369
250	3.016	1.837	1.437	1.219	1.165	1.165	0.756	0.369	0.369
255	3.074	1.874	1.467	1.246	1.205	1.205	0.793	0.369	0.369
260	3.131	1.912	1.497	1.273	1.246	1.246	0.830	0.398	0.369
265	3.189	1.950	1.527	1.300	1.287	1.287	0.867	0.431	0.369
270	3.246	1.987	1.557	1.327	1.327	1.327	0.904	0.463	0.369
275	3.304	2.025	1.587	1.368	1.368	1.368	0.941	0.496	0.369
280	3.361	2.085	1.617	1.409	1.409	1.409	0.979	0.529	0.369
285	3.419	2.164	1.647	1.449	1.449	1.449	1.016	0.561	0.369
290	3.476	2.244	1.677	1.490	1.490	1.490	1.053	0.594	0.369
295	3.518	2.323	1.707	1.531	1.531	1.531	1.090	0.627	0.369
300	3.560	2.402	1.737	1.571	1.571	1.571	1.127	0.659	0.369
305	3.602	2.481	1.766	1.612	1.612	1.612	1.164	0.692	0.369
310	3.644	2.560	1.796	1.653	1.653	1.653	1.201	0.725	0.369
315	3.686	2.640	1.826	1.693	1.693	1.693	1.238	0.757	0.369
320	3.729	2.719	1.856	1.734	1.734	1.734	1.275	0.790	0.369
325	3.771	2.798	1.886	1.775	1.775	1.775	1.312	0.823	0.369
330	3.813	2.877	1.916	1.815	1.815	1.815	1.349	0.855	0.369
335	3.855	2.956	1.946	1.856	1.856	1.856	1.386	0.888	0.369
340	3.897	3.036	1.976	1.897	1.897	1.897	1.423	0.921	0.369
345	3.939	3.115	2.006	1.937	1.937	1.937	1.460	0.953	0.369
350	3.981	3.194	2.036	1.978	1.978	1.978	1.497	0.986	0.369
355	4.023	3.273	2.159	2.018	2.018	2.018	1.535	1.019	0.369

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 32: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 45 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	1.138	0.716	0.470	0.369	0.369	0.369	0.369	0.369	0.369
55	1.256	0.798	0.537	0.369	0.369	0.369	0.369	0.369	0.369
60	1.373	0.881	0.604	0.419	0.369	0.369	0.369	0.369	0.369
65	1.490	0.963	0.671	0.473	0.369	0.369	0.369	0.369	0.369
70	1.608	1.045	0.738	0.528	0.395	0.369	0.369	0.369	0.369
75	1.725	1.127	0.805	0.582	0.437	0.369	0.369	0.369	0.369
80	1.843	1.210	0.872	0.636	0.479	0.369	0.369	0.369	0.369
85	1.960	1.292	0.939	0.690	0.521	0.402	0.369	0.369	0.369
90	2.081	1.374	1.006	0.744	0.562	0.465	0.369	0.369	0.369
95	2.208	1.456	1.073	0.798	0.604	0.528	0.369	0.369	0.369
100	2.336	1.538	1.140	0.852	0.646	0.591	0.374	0.369	0.369
105	2.463	1.621	1.207	0.906	0.688	0.653	0.432	0.369	0.369
110	2.591	1.703	1.274	0.960	0.730	0.716	0.491	0.369	0.369
115	2.718	1.785	1.341	1.014	0.779	0.779	0.549	0.369	0.369
120	2.846	1.867	1.408	1.068	0.842	0.842	0.608	0.369	0.369
125	2.974	1.949	1.475	1.122	0.905	0.905	0.666	0.403	0.369
130	3.101	2.032	1.542	1.176	0.968	0.968	0.725	0.458	0.369
135	3.229	2.138	1.609	1.230	1.031	1.031	0.783	0.513	0.369
140	3.356	2.248	1.676	1.284	1.094	1.094	0.842	0.569	0.369
145	3.479	2.357	1.743	1.338	1.156	1.156	0.900	0.624	0.369
150	3.540	2.467	1.810	1.392	1.219	1.219	0.959	0.679	0.369
155	3.602	2.577	1.877	1.446	1.282	1.282	1.017	0.734	0.369
160	3.663	2.687	1.944	1.500	1.345	1.345	1.076	0.790	0.369
165	3.725	2.796	2.011	1.554	1.408	1.408	1.134	0.845	0.417
170	3.786	2.906	2.105	1.608	1.471	1.471	1.193	0.900	0.469
175	3.847	3.016	2.224	1.662	1.534	1.534	1.251	0.955	0.521
180	3.909	3.126	2.343	1.716	1.597	1.597	1.310	1.011	0.573
185	3.970	3.235	2.462	1.770	1.660	1.660	1.368	1.066	0.625
190	4.032	3.345	2.581	1.824	1.722	1.722	1.427	1.121	0.677
195	4.093	3.455	2.700	1.878	1.785	1.785	1.485	1.177	0.729
200	4.155	3.502	2.819	1.932	1.848	1.848	1.544	1.232	0.781
205	4.216	3.536	2.937	1.986	1.911	1.911	1.602	1.287	0.833
210	4.278	3.570	3.056	2.040	1.974	1.974	1.661	1.342	0.885
215	4.339	3.604	3.175	2.189	2.037	2.037	1.719	1.398	0.937
220	4.400	3.639	3.294	2.342	2.100	2.100	1.778	1.453	0.989
225	4.462	3.673	3.413	2.496	2.163	2.163	1.836	1.508	1.041
230	4.523	3.707	3.489	2.650	2.226	2.226	1.895	1.563	1.093
235	4.616	3.741	3.521	2.803	2.288	2.288	1.953	1.619	1.145
240	4.712	3.775	3.553	2.957	2.351	2.351	2.012	1.674	1.197
245	4.809	3.809	3.585	3.111	2.414	2.414	2.070	1.729	1.249
250	4.905	3.843	3.617	3.264	2.477	2.477	2.129	1.784	1.301
255	5.001	3.877	3.649	3.418	2.540	2.540	2.187	1.840	1.353
260	5.097	3.911	3.681	3.493	2.603	2.603	2.246	1.895	1.405
265	5.193	3.945	3.713	3.523	2.666	2.666	2.305	1.950	1.457
270	5.289	3.979	3.745	3.553	2.729	2.729	2.363	2.005	1.509
275	5.386	4.014	3.777	3.583	2.792	2.792	2.422	2.061	1.561
280	5.482	4.048	3.809	3.613	2.854	2.854	2.480	2.116	1.613
285	5.578	4.082	3.841	3.643	3.158	2.917	2.539	2.171	1.665
290	5.674	4.116	3.873	3.672	3.467	2.980	2.597	2.227	1.717
295	5.770	4.150	3.905	3.702	3.501	3.043	2.656	2.282	1.770
300	5.866	4.184	3.937	3.732	3.529	3.106	2.714	2.337	1.822
305	5.963	4.218	3.969	3.762	3.557	3.169	2.773	2.392	1.874
310	6.059	4.252	4.001	3.792	3.585	3.232	2.831	2.448	1.926
315	6.133	4.286	4.033	3.822	3.613	3.295	2.890	2.503	1.978
320	6.207	4.320	4.065	3.852	3.641	3.357	2.948	2.558	2.030
325	6.280	4.355	4.097	3.882	3.669	3.420	3.007	2.613	2.082
330	6.354	4.389	4.129	3.912	3.697	3.478	3.065	2.669	2.134
335	6.428	4.423	4.161	3.942	3.725	3.504	3.124	2.724	2.186
340	6.502	4.457	4.193	3.972	3.753	3.530	3.182	2.779	2.238
345	6.575	4.491	4.225	4.002	3.781	3.556	3.241	2.834	2.290
350	6.649	4.525	4.257	4.031	3.808	3.582	3.299	2.890	2.342
355	6.723	4.741	4.289	4.061	3.836	3.608	3.358	2.945	2.394

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 33: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 60 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	1.684	1.151	0.853	0.626	0.436	0.369	0.369	0.369	0.369
55	1.856	1.277	0.959	0.715	0.509	0.369	0.369	0.369	0.369
60	2.028	1.402	1.064	0.805	0.585	0.423	0.369	0.369	0.369
65	2.225	1.528	1.169	0.895	0.662	0.488	0.369	0.369	0.369
70	2.424	1.654	1.275	0.985	0.739	0.553	0.417	0.369	0.369
75	2.624	1.779	1.380	1.074	0.816	0.618	0.472	0.369	0.369
80	2.823	1.905	1.485	1.164	0.892	0.684	0.526	0.390	0.369
85	3.022	2.031	1.591	1.254	0.969	0.749	0.581	0.473	0.369
90	3.221	2.196	1.696	1.343	1.046	0.814	0.635	0.557	0.369
95	3.420	2.365	1.801	1.433	1.123	0.879	0.690	0.641	0.369
100	3.595	2.533	1.907	1.523	1.199	0.945	0.744	0.724	0.426
105	3.760	2.702	2.012	1.612	1.276	1.010	0.808	0.808	0.504
110	3.926	2.871	2.162	1.702	1.353	1.075	0.892	0.892	0.582
115	4.091	3.040	2.330	1.792	1.430	1.140	0.976	0.976	0.661
120	4.257	3.209	2.498	1.881	1.506	1.205	1.059	1.059	0.739
125	4.422	3.377	2.666	1.971	1.583	1.271	1.143	1.143	0.818
130	4.569	3.510	2.834	2.080	1.660	1.336	1.227	1.227	0.896
135	4.681	3.595	3.002	2.261	1.737	1.401	1.310	1.310	0.974
140	4.792	3.679	3.170	2.442	1.813	1.466	1.394	1.394	1.053
145	4.904	3.763	3.338	2.623	1.890	1.532	1.478	1.478	1.131
150	5.016	3.848	3.483	2.804	1.967	1.597	1.561	1.561	1.209
155	5.128	3.932	3.530	2.985	2.047	1.662	1.645	1.645	1.288
160	5.240	4.017	3.577	3.166	2.259	1.729	1.729	1.729	1.366
165	5.351	4.101	3.624	3.347	2.471	1.813	1.813	1.813	1.445
170	5.463	4.186	3.671	3.485	2.683	1.896	1.896	1.896	1.523
175	5.575	4.270	3.718	3.520	2.896	1.980	1.980	1.980	1.601
180	5.687	4.354	3.765	3.555	3.108	2.064	2.064	2.064	1.680
185	5.799	4.439	3.812	3.589	3.320	2.147	2.147	2.147	1.758
190	5.910	4.523	3.859	3.624	3.483	2.351	2.231	2.231	1.837
195	6.022	4.605	3.906	3.659	3.516	2.615	2.315	2.315	1.915
200	6.106	4.686	3.953	3.694	3.548	2.878	2.399	2.399	1.993
205	6.176	4.768	4.000	3.729	3.581	3.141	2.482	2.482	2.072
210	6.246	4.849	4.047	3.764	3.613	3.405	2.566	2.566	2.150
215	6.315	4.930	4.093	3.799	3.646	3.496	2.650	2.650	2.228
220	6.385	5.012	4.140	3.834	3.679	3.527	2.733	2.733	2.307
225	6.455	5.093	4.187	3.869	3.711	3.557	2.817	2.817	2.385
230	6.524	5.174	4.234	3.904	3.744	3.588	2.901	2.901	2.464
235	6.594	5.256	4.281	3.939	3.777	3.618	3.237	2.984	2.542
240	6.664	5.337	4.328	3.974	3.809	3.648	3.484	3.068	2.620
245	6.734	5.418	4.375	4.009	3.842	3.679	3.513	3.152	2.699
250	6.803	5.499	4.422	4.044	3.874	3.709	3.541	3.236	2.777
255	6.873	5.581	4.469	4.079	3.907	3.740	3.570	3.319	2.856
260	6.943	5.662	4.516	4.114	3.940	3.770	3.598	3.403	2.934
265	7.013	5.743	4.637	4.149	3.972	3.800	3.627	3.478	3.012
270	7.082	5.825	4.784	4.184	4.005	3.831	3.655	3.508	3.091
275	7.152	5.906	4.932	4.219	4.038	3.861	3.683	3.537	3.169
280	7.222	5.987	5.080	4.254	4.070	3.892	3.712	3.566	3.247
285	7.291	6.070	5.228	4.289	4.103	3.922	3.740	3.595	3.326
290	7.361	6.164	5.376	4.324	4.135	3.952	3.769	3.624	3.404
295	7.431	6.257	5.524	4.359	4.168	3.983	3.797	3.653	3.477
300	7.501	6.350	5.672	4.394	4.201	4.013	3.825	3.682	3.502
305	7.570	6.444	5.820	4.429	4.233	4.044	3.854	3.712	3.528
310	7.640	6.537	5.968	4.464	4.266	4.074	3.882	3.741	3.553
315	7.710	6.630	6.094	4.499	4.299	4.104	3.911	3.770	3.579
320	7.779	6.724	6.184	4.590	4.331	4.135	3.939	3.799	3.604
325	7.849	6.817	6.274	5.003	4.364	4.165	3.968	3.828	3.629
330	7.919	6.911	6.365	5.416	4.396	4.196	3.996	3.857	3.655
335	7.989	7.004	6.455	5.828	4.429	4.226	4.024	3.886	3.680
340	8.058	7.097	6.545	6.098	4.462	4.256	4.053	3.916	3.706
345	8.128	7.191	6.636	6.185	4.494	4.287	4.081	3.945	3.731
350	-	7.284	6.726	6.272	4.527	4.317	4.110	3.974	3.757
355	-	7.377	6.816	6.359	4.979	4.348	4.138	4.003	3.782

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 34: FIRETEX FX6002 RHS/HS Columns: Fire Resistance Period 75 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	2.284	1.586	1.237	0.973	0.754	0.573	0.405	0.369	0.369
55	2.552	1.755	1.380	1.097	0.863	0.668	0.479	0.369	0.369
60	2.819	1.924	1.524	1.221	0.972	0.765	0.569	0.407	0.369
65	3.087	2.111	1.668	1.346	1.081	0.863	0.659	0.487	0.369
70	3.354	2.339	1.812	1.470	1.190	0.961	0.750	0.566	0.395
75	3.650	2.567	1.955	1.594	1.299	1.059	0.840	0.646	0.465
80	3.968	2.795	2.129	1.719	1.408	1.156	0.930	0.725	0.534
85	4.286	3.023	2.347	1.843	1.517	1.254	1.020	0.805	0.603
90	4.636	3.250	2.565	1.967	1.626	1.352	1.110	0.884	0.672
95	5.089	3.479	2.784	2.131	1.735	1.450	1.201	0.964	0.741
100	5.542	3.744	3.002	2.352	1.844	1.547	1.291	1.043	0.810
105	5.995	4.009	3.220	2.573	1.953	1.645	1.381	1.123	0.880
110	6.130	4.274	3.439	2.794	2.085	1.743	1.471	1.202	0.949
115	6.213	4.533	3.595	3.015	2.318	1.841	1.562	1.282	1.018
120	6.295	4.632	3.739	3.236	2.552	1.939	1.652	1.361	1.087
125	6.377	4.731	3.883	3.457	2.785	2.036	1.742	1.441	1.156
130	6.459	4.830	4.027	3.558	3.019	2.269	1.832	1.520	1.225
135	6.542	4.929	4.171	3.648	3.252	2.510	1.922	1.600	1.295
140	6.624	5.028	4.315	3.738	3.477	2.751	2.013	1.679	1.364
145	6.706	5.127	4.459	3.829	3.536	2.991	2.200	1.759	1.433
150	6.788	5.226	4.598	3.919	3.595	3.232	2.435	1.838	1.502
155	6.870	5.325	4.732	4.009	3.654	3.473	2.670	1.917	1.571
160	6.953	5.424	4.867	4.100	3.712	3.512	2.905	1.997	1.640
165	7.035	5.523	5.001	4.190	3.771	3.551	3.140	2.164	1.709
170	7.117	5.622	5.135	4.280	3.830	3.589	3.375	2.445	1.779
175	7.199	5.721	5.270	4.371	3.889	3.627	3.493	2.726	1.848
180	7.281	5.820	5.404	4.461	3.948	3.666	3.527	3.007	1.917
185	7.364	5.919	5.539	4.567	4.006	3.704	3.561	3.288	1.986
190	7.446	6.018	5.673	4.722	4.065	3.742	3.595	3.486	2.144
195	7.528	6.107	5.807	4.877	4.124	3.781	3.628	3.520	2.671
200	7.610	6.189	5.942	5.032	4.183	3.819	3.662	3.555	3.198
205	7.693	6.271	6.068	5.187	4.242	3.857	3.696	3.590	3.489
210	7.775	6.353	6.139	5.342	4.301	3.895	3.730	3.625	3.519
215	7.857	6.435	6.209	5.496	4.359	3.934	3.763	3.660	3.550
220	7.939	6.517	6.279	5.651	4.418	3.972	3.797	3.694	3.581
225	8.021	6.599	6.350	5.806	4.477	4.010	3.831	3.729	3.612
230	-	6.681	6.420	5.961	4.544	4.049	3.864	3.764	3.643
235	-	6.763	6.490	6.087	4.673	4.087	3.898	3.799	3.674
240	-	6.845	6.561	6.162	4.803	4.125	3.932	3.834	3.704
245	-	6.927	6.631	6.237	4.932	4.164	3.966	3.868	3.735
250	-	7.009	6.701	6.313	5.061	4.202	3.999	3.903	3.766
255	-	7.091	6.771	6.388	5.190	4.240	4.033	3.938	3.797
260	-	7.173	6.842	6.463	5.319	4.279	4.067	3.973	3.828
265	-	7.255	6.912	6.538	5.448	4.317	4.100	4.007	3.859
270	-	7.337	6.982	6.613	5.578	4.355	4.134	4.042	3.889
275	-	7.419	7.053	6.689	5.707	4.394	4.168	4.077	3.920
280	-	7.501	7.123	6.764	5.836	4.432	4.202	4.112	3.951
285	-	7.583	7.193	6.839	5.965	4.470	4.235	4.147	3.982
290	-	7.665	7.263	6.914	6.088	4.509	4.269	4.181	4.013
295	-	7.747	7.334	6.990	6.195	4.708	4.303	4.216	4.044
300	-	7.829	7.404	7.065	6.302	5.085	4.336	4.251	4.074
305	-	7.911	7.474	7.140	6.409	5.463	4.370	4.286	4.105
310	-	7.992	7.545	7.215	6.516	5.841	4.404	4.321	4.136
315	-	8.074	7.615	7.290	6.623	6.103	4.438	4.355	4.167
320	-	8.156	7.685	7.366	6.730	6.205	4.471	4.390	4.198
325	-	-	7.755	7.441	6.837	6.306	4.505	4.425	4.229
330	-	-	7.826	7.516	6.944	6.408	4.706	4.460	4.259
335	-	-	7.896	7.591	7.051	6.510	5.320	4.494	4.290
340	-	-	7.966	7.666	7.158	6.612	5.935	4.531	4.321
345	-	-	8.037	7.742	7.265	6.714	6.135	4.744	4.352
350	-	-	8.107	7.817	7.372	6.816	6.229	4.957	4.383
355	-	-	8.177	7.892	7.479	6.918	6.323	5.170	4.413

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 35: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 90 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	2.956	2.015	1.620	1.319	1.076	0.882	0.712	0.540	0.369
55	3.289	2.302	1.802	1.478	1.218	1.011	0.830	0.637	0.405
60	3.705	2.588	1.984	1.637	1.359	1.140	0.952	0.753	0.518
65	4.224	2.875	2.226	1.796	1.500	1.269	1.074	0.869	0.630
70	5.033	3.161	2.495	1.955	1.641	1.398	1.196	0.984	0.742
75	6.072	3.448	2.764	2.162	1.782	1.527	1.318	1.100	0.854
80	6.144	4.184	3.033	2.427	1.924	1.656	1.440	1.216	0.966
85	6.217	4.674	3.302	2.691	2.085	1.785	1.562	1.332	1.079
90	6.289	4.934	3.606	2.955	2.352	1.914	1.684	1.448	1.191
95	6.362	5.194	3.970	3.219	2.620	2.045	1.807	1.563	1.303
100	6.435	5.453	4.334	3.481	2.887	2.305	1.929	1.679	1.415
105	6.507	5.713	4.581	3.698	3.154	2.566	2.059	1.795	1.527
110	6.580	5.973	4.694	3.915	3.422	2.827	2.297	1.911	1.640
115	6.652	6.118	4.806	4.132	3.587	3.088	2.535	2.027	1.752
120	6.725	6.205	4.919	4.348	3.729	3.348	2.773	2.245	1.864
125	6.798	6.293	5.031	4.548	3.870	3.524	3.011	2.479	1.976
130	6.870	6.380	5.143	4.661	4.011	3.620	3.248	2.712	2.154
135	6.943	6.468	5.256	4.774	4.152	3.715	3.477	2.946	2.424
140	7.015	6.555	5.368	4.887	4.293	3.811	3.544	3.180	2.694
145	7.088	6.642	5.481	5.000	4.434	3.907	3.610	3.414	2.964
150	7.161	6.730	5.593	5.114	4.577	4.003	3.677	3.520	3.234
155	7.233	6.817	5.706	5.227	4.722	4.099	3.743	3.582	3.479
160	7.306	6.905	5.818	5.340	4.867	4.195	3.809	3.644	3.520
165	7.378	6.992	5.930	5.453	5.013	4.291	3.876	3.706	3.561
170	7.451	7.079	6.043	5.566	5.158	4.387	3.942	3.768	3.602
175	7.524	7.167	6.173	5.679	5.303	4.482	4.008	3.830	3.643
180	7.596	7.254	6.306	5.793	5.448	4.652	4.075	3.892	3.684
185	7.669	7.342	6.439	5.906	5.593	4.892	4.141	3.954	3.725
190	7.741	7.429	6.572	6.019	5.739	5.132	4.207	4.016	3.766
195	7.814	7.516	6.706	6.128	5.884	5.371	4.274	4.077	3.807
200	7.887	7.604	6.839	6.234	6.029	5.611	4.340	4.139	3.848
205	7.959	7.691	6.972	6.340	6.125	5.851	4.406	4.201	3.889
210	-	7.779	7.105	6.446	6.207	6.069	4.473	4.263	3.930
215	-	7.866	7.238	6.553	6.290	6.141	4.549	4.325	3.971
220	-	7.953	7.371	6.659	6.372	6.213	4.683	4.387	4.012
225	-	8.041	7.505	6.765	6.455	6.285	4.817	4.449	4.053
230	-	8.128	7.638	6.871	6.537	6.357	4.951	4.511	4.094
235	-	-	7.771	6.978	6.620	6.428	5.085	4.604	4.135
240	-	-	7.904	7.084	6.702	6.500	5.219	4.709	4.176
245	-	-	8.037	7.190	6.785	6.572	5.352	4.815	4.217
250	-	-	8.170	7.296	6.867	6.644	5.486	4.921	4.258
255	-	-	8.303	7.403	6.950	6.716	5.620	5.026	4.299
260	-	-	-	7.509	7.032	6.788	5.754	5.132	4.340
265	-	-	-	7.615	7.115	6.860	5.888	5.237	4.381
270	-	-	-	7.721	7.197	6.931	6.021	5.343	4.422
275	-	-	-	7.828	7.280	7.003	6.135	5.448	4.463
280	-	-	-	7.934	7.362	7.075	6.240	5.554	4.504
285	-	-	-	8.040	7.445	7.147	6.344	5.659	4.583
290	-	-	-	8.146	7.527	7.219	6.449	5.765	4.722
295	-	-	-	8.253	7.610	7.291	6.554	5.870	4.861
300	-	-	-	-	7.692	7.362	6.659	5.976	5.000
305	-	-	-	-	7.775	7.434	6.764	6.081	5.139
310	-	-	-	-	7.857	7.506	6.869	6.185	5.278
315	-	-	-	-	7.940	7.578	6.974	6.289	5.417
320	-	-	-	-	8.022	7.650	7.079	6.393	5.556
325	-	-	-	-	8.105	7.722	7.184	6.496	5.694
330	-	-	-	-	8.187	7.794	7.289	6.600	5.833
335	-	-	-	-	-	7.865	7.394	6.704	5.972
340	-	-	-	-	-	7.937	7.498	6.808	6.094
345	-	-	-	-	-	8.009	7.603	6.912	6.186
350	-	-	-	-	-	8.081	7.708	7.015	6.278
355	-	-	-	-	-	8.153	7.813	7.119	6.371

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 36: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 105 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	3.862	2.606	1.985	1.666	1.399	1.195	1.026	0.862	0.671
55	4.528	2.95	2.305	1.86	1.572	1.355	1.18	1.006	0.793
60	5.563	3.293	2.625	2.06	1.745	1.515	1.334	1.155	0.943
65	6.304	4.637	2.946	2.369	1.919	1.675	1.488	1.305	1.093
70	6.772	5.19	3.266	2.677	2.13	1.836	1.642	1.454	1.243
75	7.241	5.742	3.81	2.985	2.435	1.996	1.796	1.603	1.392
80	7.709	6.092	4.64	3.293	2.74	2.248	1.95	1.753	1.542
85	-	6.166	5.092	3.676	3.045	2.538	2.147	1.902	1.692
90	-	6.241	5.543	4.162	3.35	2.828	2.405	2.057	1.842
95	-	6.316	5.994	4.582	3.652	3.118	2.663	2.296	1.992
100	-	6.391	6.129	4.796	3.952	3.408	2.921	2.536	2.211
105	-	6.465	6.21	5.011	4.252	3.63	3.179	2.775	2.466
110	-	6.54	6.29	5.226	4.537	3.831	3.438	3.015	2.721
115	-	6.615	6.371	5.44	4.645	4.033	3.596	3.254	2.975
120	-	6.689	6.452	5.655	4.753	4.234	3.738	3.485	3.23
125	-	6.764	6.533	5.869	4.861	4.436	3.879	3.621	3.478
130	-	6.839	6.613	6.072	4.969	4.593	4.021	3.757	3.575
135	-	6.914	6.694	6.178	5.077	4.711	4.163	3.893	3.673
140	-	6.988	6.775	6.284	5.185	4.829	4.305	4.03	3.77
145	-	7.063	6.856	6.391	5.293	4.947	4.446	4.166	3.867
150	-	7.138	6.936	6.497	5.401	5.065	4.59	4.302	3.964
155	-	7.212	7.017	6.604	5.509	5.184	4.736	4.438	4.061
160	-	7.287	7.098	6.71	5.617	5.302	4.882	4.579	4.158
165	-	7.362	7.178	6.816	5.725	5.42	5.028	4.731	4.256
170	-	7.437	7.259	6.923	5.833	5.538	5.174	4.882	4.353
175	-	7.511	7.34	7.029	5.941	5.656	5.319	5.034	4.45
180	-	7.586	7.421	7.135	6.049	5.775	5.465	5.186	4.543
185	-	7.661	7.501	7.242	6.222	5.893	5.611	5.337	4.618
190	-	7.735	7.582	7.348	6.402	6.011	5.757	5.489	4.693
195	-	7.81	7.663	7.454	6.582	6.133	5.903	5.641	4.768
200	-	7.885	7.744	7.561	6.762	6.259	6.049	5.792	4.843
205	-	7.96	7.824	7.667	6.942	6.384	6.142	5.944	4.918
210	-	-	7.905	7.773	7.122	6.51	6.231	6.077	4.993
215	-	-	7.986	7.88	7.302	6.635	6.32	6.15	5.068
220	-	-	8.066	7.986	7.482	6.761	6.408	6.222	5.144
225	-	-	-	8.093	7.662	6.886	6.497	6.295	5.219
230	-	-	-	8.199	7.842	7.011	6.586	6.368	5.294
235	-	-	-	-	8.022	7.137	6.675	6.44	5.369
240	-	-	-	-	8.202	7.262	6.763	6.513	5.444
245	-	-	-	-	8.382	7.388	6.852	6.585	5.519
250	-	-	-	-	-	7.513	6.941	6.658	5.594
255	-	-	-	-	-	7.639	7.03	6.731	5.669
260	-	-	-	-	-	7.764	7.118	6.803	5.744
265	-	-	-	-	-	7.889	7.207	6.876	5.819
270	-	-	-	-	-	8.015	7.296	6.949	5.894
275	-	-	-	-	-	8.14	7.385	7.021	5.969
280	-	-	-	-	-	8.266	7.473	7.094	6.044
285	-	-	-	-	-	8.391	7.562	7.167	6.148
290	-	-	-	-	-	-	7.651	7.239	6.259
295	-	-	-	-	-	-	7.74	7.312	6.37
300	-	-	-	-	-	-	7.828	7.384	6.481
305	-	-	-	-	-	-	7.917	7.457	6.592
310	-	-	-	-	-	-	8.006	7.53	6.703
315	-	-	-	-	-	-	8.095	7.602	6.814
320	-	-	-	-	-	-	8.183	7.675	6.925
325	-	-	-	-	-	-	-	7.748	7.036
330	-	-	-	-	-	-	-	7.82	7.147
335	-	-	-	-	-	-	-	7.893	7.258
340	-	-	-	-	-	-	-	7.966	7.369
345	-	-	-	-	-	-	-	8.038	7.479
350	-	-	-	-	-	-	-	8.111	7.59
355	-	-	-	-	-	-	-	8.183	7.701

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 37: FIRETEX FX6002 RHS/SHS Columns: Fire Resistance Period 120 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	5.307	4.248	2.531	2.012	1.721	1.507	1.345	1.192	1.023
55	6.185	4.797	2.905	2.344	1.927	1.698	1.531	1.375	1.196
60	6.721	5.345	3.278	2.699	2.193	1.89	1.717	1.558	1.382
65	7.258	5.894	4.674	3.054	2.537	2.109	1.903	1.741	1.569
70	7.794	6.304	5.326	3.408	2.881	2.431	2.114	1.924	1.755
75	-	6.654	5.977	4.452	3.225	2.754	2.398	2.132	1.941
80	-	7.005	6.154	5.213	3.65	3.077	2.682	2.389	2.164
85	-	7.355	6.261	5.945	4.285	3.399	2.966	2.646	2.429
90	-	7.705	6.368	6.127	4.731	3.783	3.25	2.902	2.695
95	-	8.056	6.475	6.207	5.06	4.186	3.532	3.159	2.96
100	-	-	6.582	6.287	5.388	4.554	3.81	3.416	3.226
105	-	-	6.69	6.366	5.717	4.721	4.088	3.686	3.487
110	-	-	6.797	6.446	6.046	4.889	4.365	3.961	3.688
115	-	-	6.904	6.526	6.15	5.056	4.572	4.236	3.888
120	-	-	7.011	6.605	6.244	5.224	4.677	4.511	4.089
125	-	-	7.118	6.685	6.338	5.392	4.783	4.626	4.29
130	-	-	7.226	6.765	6.432	5.559	4.888	4.73	4.49
135	-	-	7.333	6.845	6.526	5.727	4.993	4.834	4.617
140	-	-	7.44	6.924	6.62	5.894	5.098	4.939	4.725
145	-	-	7.547	7.004	6.714	6.062	5.203	5.043	4.833
150	-	-	7.654	7.084	6.808	6.193	5.308	5.147	4.942
155	-	-	7.761	7.164	6.902	6.324	5.414	5.251	5.05
160	-	-	7.869	7.243	6.996	6.455	5.519	5.355	5.159
165	-	-	7.976	7.323	7.09	6.586	5.624	5.459	5.267
170	-	-	8.083	7.403	7.184	6.717	5.729	5.563	5.376
175	-	-	-	7.482	7.278	6.848	5.834	5.668	5.484
180	-	-	-	7.562	7.372	6.98	5.94	5.772	5.593
185	-	-	-	7.642	7.466	7.111	6.045	5.876	5.701
190	-	-	-	7.722	7.56	7.242	6.22	5.98	5.81
195	-	-	-	7.801	7.654	7.373	6.406	6.088	5.918
200	-	-	-	7.881	7.748	7.504	6.593	6.207	6.026
205	-	-	-	7.961	7.842	7.635	6.78	6.325	6.116
210	-	-	-	-	7.936	7.767	6.967	6.444	6.196
215	-	-	-	-	8.03	7.898	7.154	6.563	6.277
220	-	-	-	-	8.124	8.029	7.34	6.682	6.358
225	-	-	-	-	-	8.16	7.527	6.801	6.438
230	-	-	-	-	-	8.291	7.714	6.92	6.519
235	-	-	-	-	-	-	7.901	7.039	6.6
240	-	-	-	-	-	-	8.088	7.158	6.68
245	-	-	-	-	-	-	8.274	7.277	6.761
250	-	-	-	-	-	-	-	7.396	6.841
255	-	-	-	-	-	-	-	7.515	6.922
260	-	-	-	-	-	-	-	7.633	7.003
265	-	-	-	-	-	-	-	7.752	7.083
270	-	-	-	-	-	-	-	7.871	7.164
275	-	-	-	-	-	-	-	7.99	7.245
280	-	-	-	-	-	-	-	8.109	7.325
285	-	-	-	-	-	-	-	8.228	7.406
290	-	-	-	-	-	-	-	8.347	7.487
295	-	-	-	-	-	-	-	-	7.567
300	-	-	-	-	-	-	-	-	7.648
305	-	-	-	-	-	-	-	-	7.729
310	-	-	-	-	-	-	-	-	7.809
315	-	-	-	-	-	-	-	-	7.89
320	-	-	-	-	-	-	-	-	7.97
325	-	-	-	-	-	-	-	-	8.051
330	-	-	-	-	-	-	-	-	8.132
335	-	-	-	-	-	-	-	-	8.212
340	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to rectangular/square hollow columns with four-sided fire exposure.
Results apply to rectangular/square hollow beams exposed on all four sides limited to a maximum thickness of 5.661 mm.

Section Factor m^{-1}	Table 38: FIRETEX FX6002 CHS Columns: Fire Resistance Period 15 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
55	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
60	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
65	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
70	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
75	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
80	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
85	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
90	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
95	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
100	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
105	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
110	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
115	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
120	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
125	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
130	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
135	0.402	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
140	0.428	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
145	0.453	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
150	0.479	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
155	0.505	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
160	0.531	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
165	0.557	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
170	0.583	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
175	0.609	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
180	0.634	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
185	0.660	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
190	0.686	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
195	0.712	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
200	0.738	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
205	0.764	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
210	0.789	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
215	0.815	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
220	0.841	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
225	0.867	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
230	0.893	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
235	0.919	0.406	0.380	0.380	0.380	0.380	0.380	0.380	0.380
240	0.944	0.432	0.380	0.380	0.380	0.380	0.380	0.380	0.380
245	0.970	0.457	0.380	0.380	0.380	0.380	0.380	0.380	0.380
250	0.996	0.483	0.380	0.380	0.380	0.380	0.380	0.380	0.380
255	1.022	0.508	0.380	0.380	0.380	0.380	0.380	0.380	0.380
260	1.048	0.534	0.380	0.380	0.380	0.380	0.380	0.380	0.380
265	1.074	0.559	0.380	0.380	0.380	0.380	0.380	0.380	0.380
270	1.099	0.585	0.380	0.380	0.380	0.380	0.380	0.380	0.380
275	1.125	0.610	0.380	0.380	0.380	0.380	0.380	0.380	0.380
280	1.151	0.636	0.380	0.380	0.380	0.380	0.380	0.380	0.380
285	1.177	0.661	0.380	0.380	0.380	0.380	0.380	0.380	0.380
290	1.203	0.687	0.380	0.380	0.380	0.380	0.380	0.380	0.380
295	1.229	0.712	0.380	0.380	0.380	0.380	0.380	0.380	0.380
300	1.254	0.738	0.380	0.380	0.380	0.380	0.380	0.380	0.380
305	1.280	0.763	0.398	0.380	0.380	0.380	0.380	0.380	0.380
310	1.306	0.789	0.421	0.380	0.380	0.380	0.380	0.380	0.380
315	1.332	0.814	0.445	0.380	0.380	0.380	0.380	0.380	0.380
320	1.358	0.840	0.468	0.380	0.380	0.380	0.380	0.380	0.380
325	1.384	0.865	0.491	0.380	0.380	0.380	0.380	0.380	0.380
330	1.410	0.891	0.514	0.380	0.380	0.380	0.380	0.380	0.380

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 39: FIRETEX FX6002 CHS Columns: Fire Resistance Period 20 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
55	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
60	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
65	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
70	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
75	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
80	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
85	0.390	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
90	0.423	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
95	0.457	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
100	0.490	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
105	0.523	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
110	0.556	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
115	0.590	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
120	0.623	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
125	0.656	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
130	0.689	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
135	0.723	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
140	0.756	0.395	0.380	0.380	0.380	0.380	0.380	0.380	0.380
145	0.789	0.426	0.380	0.380	0.380	0.380	0.380	0.380	0.380
150	0.822	0.457	0.380	0.380	0.380	0.380	0.380	0.380	0.380
155	0.856	0.488	0.380	0.380	0.380	0.380	0.380	0.380	0.380
160	0.889	0.519	0.380	0.380	0.380	0.380	0.380	0.380	0.380
165	0.922	0.550	0.380	0.380	0.380	0.380	0.380	0.380	0.380
170	0.955	0.581	0.380	0.380	0.380	0.380	0.380	0.380	0.380
175	0.989	0.612	0.380	0.380	0.380	0.380	0.380	0.380	0.380
180	1.022	0.643	0.380	0.380	0.380	0.380	0.380	0.380	0.380
185	1.055	0.674	0.380	0.380	0.380	0.380	0.380	0.380	0.380
190	1.088	0.705	0.380	0.380	0.380	0.380	0.380	0.380	0.380
195	1.121	0.736	0.380	0.380	0.380	0.380	0.380	0.380	0.380
200	1.155	0.767	0.380	0.380	0.380	0.380	0.380	0.380	0.380
205	1.188	0.798	0.380	0.380	0.380	0.380	0.380	0.380	0.380
210	1.221	0.829	0.380	0.380	0.380	0.380	0.380	0.380	0.380
215	1.254	0.860	0.380	0.380	0.380	0.380	0.380	0.380	0.380
220	1.288	0.890	0.399	0.380	0.380	0.380	0.380	0.380	0.380
225	1.321	0.921	0.431	0.380	0.380	0.380	0.380	0.380	0.380
230	1.354	0.952	0.463	0.380	0.380	0.380	0.380	0.380	0.380
235	1.387	0.983	0.495	0.380	0.380	0.380	0.380	0.380	0.380
240	1.421	1.014	0.527	0.380	0.380	0.380	0.380	0.380	0.380
245	1.454	1.045	0.559	0.380	0.380	0.380	0.380	0.380	0.380
250	1.487	1.076	0.591	0.380	0.380	0.380	0.380	0.380	0.380
255	1.520	1.107	0.623	0.380	0.380	0.380	0.380	0.380	0.380
260	1.554	1.138	0.655	0.380	0.380	0.380	0.380	0.380	0.380
265	1.587	1.169	0.687	0.380	0.380	0.380	0.380	0.380	0.380
270	1.620	1.200	0.719	0.405	0.380	0.380	0.380	0.380	0.380
275	1.653	1.231	0.751	0.435	0.380	0.380	0.380	0.380	0.380
280	1.687	1.262	0.783	0.464	0.380	0.380	0.380	0.380	0.380
285	1.720	1.293	0.815	0.493	0.380	0.380	0.380	0.380	0.380
290	1.753	1.324	0.847	0.523	0.380	0.380	0.380	0.380	0.380
295	1.786	1.355	0.879	0.552	0.380	0.380	0.380	0.380	0.380
300	1.820	1.386	0.911	0.582	0.380	0.380	0.380	0.380	0.380
305	1.853	1.417	0.943	0.611	0.380	0.380	0.380	0.380	0.380
310	1.886	1.447	0.975	0.641	0.380	0.380	0.380	0.380	0.380
315	1.919	1.478	1.007	0.670	0.380	0.380	0.380	0.380	0.380
320	1.952	1.509	1.039	0.700	0.380	0.380	0.380	0.380	0.380
325	1.986	1.540	1.071	0.729	0.380	0.380	0.380	0.380	0.380
330	2.019	1.571	1.103	0.758	0.395	0.380	0.380	0.380	0.380

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 40: FIRETEX FX6002 CHS Columns: Fire Resistance Period 30 Minutes Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	0.393	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
55	0.467	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
60	0.541	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
65	0.615	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
70	0.689	0.380	0.380	0.380	0.380	0.380	0.380	0.380	0.380
75	0.763	0.398	0.380	0.380	0.380	0.380	0.380	0.380	0.380
80	0.838	0.449	0.380	0.380	0.380	0.380	0.380	0.380	0.380
85	0.912	0.500	0.380	0.380	0.380	0.380	0.380	0.380	0.380
90	0.986	0.551	0.380	0.380	0.380	0.380	0.380	0.380	0.380
95	1.060	0.602	0.380	0.380	0.380	0.380	0.380	0.380	0.380
100	1.134	0.653	0.380	0.380	0.380	0.380	0.380	0.380	0.380
105	1.208	0.704	0.407	0.380	0.380	0.380	0.380	0.380	0.380
110	1.282	0.754	0.448	0.380	0.380	0.380	0.380	0.380	0.380
115	1.356	0.805	0.489	0.380	0.380	0.380	0.380	0.380	0.380
120	1.430	0.856	0.529	0.380	0.380	0.380	0.380	0.380	0.380
125	1.505	0.907	0.570	0.380	0.380	0.380	0.380	0.380	0.380
130	1.579	0.958	0.610	0.380	0.380	0.380	0.380	0.380	0.380
135	1.653	1.009	0.651	0.384	0.380	0.380	0.380	0.380	0.380
140	1.727	1.060	0.691	0.423	0.380	0.380	0.380	0.380	0.380
145	1.801	1.111	0.732	0.462	0.380	0.380	0.380	0.380	0.380
150	1.875	1.162	0.773	0.502	0.380	0.380	0.380	0.380	0.380
155	1.949	1.213	0.813	0.541	0.380	0.380	0.380	0.380	0.380
160	2.023	1.264	0.854	0.580	0.380	0.380	0.380	0.380	0.380
165	2.069	1.315	0.894	0.620	0.380	0.380	0.380	0.380	0.380
170	2.115	1.366	0.935	0.659	0.380	0.380	0.380	0.380	0.380
175	2.161	1.417	0.976	0.698	0.380	0.380	0.380	0.380	0.380
180	2.207	1.468	1.016	0.738	0.380	0.380	0.380	0.380	0.380
185	2.253	1.519	1.057	0.777	0.386	0.380	0.380	0.380	0.380
190	2.299	1.570	1.097	0.816	0.426	0.380	0.380	0.380	0.380
195	2.345	1.621	1.138	0.856	0.465	0.380	0.380	0.380	0.380
200	2.391	1.672	1.178	0.895	0.505	0.380	0.380	0.380	0.380
205	2.437	1.723	1.219	0.934	0.544	0.380	0.380	0.380	0.380
210	2.483	1.774	1.260	0.974	0.584	0.380	0.380	0.380	0.380
215	2.529	1.825	1.300	1.013	0.623	0.380	0.380	0.380	0.380
220	2.575	1.876	1.341	1.052	0.663	0.380	0.380	0.380	0.380
225	2.622	1.927	1.381	1.092	0.702	0.380	0.380	0.380	0.380
230	2.668	1.978	1.422	1.131	0.742	0.380	0.380	0.380	0.380
235	2.714	2.029	1.463	1.170	0.781	0.387	0.380	0.380	0.380
240	2.760	2.080	1.503	1.210	0.821	0.426	0.380	0.380	0.380
245	2.806	2.131	1.544	1.249	0.860	0.464	0.380	0.380	0.380
250	2.852	2.182	1.584	1.288	0.900	0.502	0.380	0.380	0.380
255	2.898	2.233	1.625	1.328	0.939	0.540	0.380	0.380	0.380
260	2.944	2.284	1.665	1.367	0.979	0.579	0.380	0.380	0.380
265	2.990	2.336	1.706	1.406	1.019	0.617	0.380	0.380	0.380
270	3.036	2.387	1.747	1.446	1.058	0.655	0.380	0.380	0.380
275	3.082	2.438	1.787	1.485	1.098	0.693	0.380	0.380	0.380
280	3.128	2.489	1.828	1.525	1.137	0.732	0.401	0.380	0.380
285	3.174	2.540	1.868	1.564	1.177	0.770	0.434	0.380	0.380
290	3.220	2.591	1.909	1.603	1.216	0.808	0.467	0.380	0.380
295	3.266	2.642	1.950	1.643	1.256	0.846	0.500	0.380	0.380
300	3.312	2.693	1.990	1.682	1.295	0.885	0.534	0.380	0.380
305	3.358	2.745	2.032	1.721	1.335	0.923	0.567	0.380	0.380
310	3.404	2.796	2.080	1.761	1.374	0.961	0.600	0.380	0.380
315	3.450	2.847	2.127	1.800	1.414	1.000	0.633	0.380	0.380
320	3.497	2.898	2.175	1.839	1.453	1.038	0.667	0.380	0.380
325	3.543	2.949	2.222	1.879	1.493	1.076	0.700	0.380	0.380
330	3.588	3.000	2.269	1.918	1.532	1.114	0.733	0.380	0.380

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 41: FIRETEX FX6002 CHS Columns: Fire Resistance Period 45 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	1.066	0.568	0.380	0.380	0.380	0.380	0.380	0.380	0.380
55	1.212	0.686	0.380	0.380	0.380	0.380	0.380	0.380	0.380
60	1.358	0.804	0.428	0.380	0.380	0.380	0.380	0.380	0.380
65	1.505	0.922	0.523	0.380	0.380	0.380	0.380	0.380	0.380
70	1.651	1.040	0.618	0.380	0.380	0.380	0.380	0.380	0.380
75	1.797	1.158	0.713	0.448	0.380	0.380	0.380	0.380	0.380
80	1.943	1.276	0.808	0.525	0.380	0.380	0.380	0.380	0.380
85	2.100	1.394	0.903	0.603	0.380	0.380	0.380	0.380	0.380
90	2.267	1.512	0.998	0.680	0.423	0.380	0.380	0.380	0.380
95	2.435	1.631	1.093	0.758	0.485	0.380	0.380	0.380	0.380
100	2.603	1.749	1.188	0.836	0.548	0.380	0.380	0.380	0.380
105	2.770	1.867	1.283	0.913	0.610	0.381	0.380	0.380	0.380
110	2.938	1.985	1.378	0.991	0.673	0.432	0.380	0.380	0.380
115	3.106	2.096	1.473	1.069	0.735	0.482	0.380	0.380	0.380
120	3.273	2.204	1.568	1.146	0.798	0.533	0.380	0.380	0.380
125	3.441	2.312	1.663	1.224	0.861	0.583	0.380	0.380	0.380
130	3.554	2.420	1.758	1.301	0.923	0.634	0.385	0.380	0.380
135	3.601	2.528	1.853	1.379	0.986	0.684	0.430	0.380	0.380
140	3.648	2.636	1.948	1.457	1.048	0.735	0.476	0.380	0.380
145	3.695	2.744	2.033	1.534	1.111	0.785	0.521	0.380	0.380
150	3.742	2.851	2.082	1.612	1.173	0.836	0.567	0.380	0.380
155	3.789	2.959	2.131	1.690	1.236	0.886	0.612	0.380	0.380
160	3.836	3.067	2.181	1.767	1.298	0.937	0.658	0.380	0.380
165	3.883	3.175	2.230	1.845	1.361	0.987	0.703	0.408	0.380
170	3.930	3.283	2.279	1.922	1.423	1.038	0.749	0.451	0.380
175	3.977	3.391	2.329	2.000	1.486	1.088	0.794	0.494	0.380
180	4.024	3.499	2.378	2.058	1.549	1.139	0.839	0.537	0.380
185	4.071	3.556	2.427	2.107	1.611	1.189	0.885	0.581	0.380
190	4.119	3.590	2.477	2.157	1.674	1.240	0.930	0.624	0.380
195	4.166	3.624	2.526	2.206	1.736	1.290	0.976	0.667	0.380
200	4.213	3.658	2.575	2.256	1.799	1.341	1.021	0.711	0.380
205	4.260	3.693	2.624	2.305	1.861	1.391	1.067	0.754	0.380
210	4.307	3.727	2.674	2.355	1.924	1.442	1.112	0.797	0.380
215	4.354	3.761	2.723	2.405	1.986	1.492	1.158	0.840	0.380
220	4.401	3.795	2.772	2.454	2.044	1.543	1.203	0.884	0.380
225	4.500	3.829	2.822	2.504	2.095	1.593	1.249	0.927	0.380
230	4.643	3.864	2.871	2.553	2.147	1.644	1.294	0.970	0.380
235	4.787	3.898	2.920	2.603	2.198	1.694	1.339	1.014	0.407
240	4.931	3.932	2.970	2.652	2.249	1.745	1.385	1.057	0.452
245	5.074	3.966	3.019	2.702	2.301	1.796	1.430	1.100	0.497
250	5.218	4.000	3.068	2.752	2.352	1.846	1.476	1.143	0.542
255	5.361	4.034	3.117	2.801	2.403	1.897	1.521	1.187	0.586
260	5.505	4.069	3.167	2.851	2.454	1.947	1.567	1.230	0.631
265	5.649	4.103	3.216	2.900	2.506	1.998	1.612	1.273	0.676
270	5.792	4.137	3.265	2.950	2.557	2.050	1.658	1.317	0.721
275	5.936	4.171	3.315	2.999	2.608	2.103	1.703	1.360	0.766
280	6.079	4.205	3.364	3.049	2.660	2.157	1.748	1.403	0.811
285	6.219	4.240	3.413	3.099	2.711	2.210	1.794	1.446	0.856
290	6.360	4.274	3.463	3.148	2.762	2.264	1.839	1.490	0.900
295	6.500	4.308	3.512	3.198	2.814	2.318	1.885	1.533	0.945
300	6.640	4.342	3.585	3.247	2.865	2.371	1.930	1.576	0.990
305	6.781	4.376	3.675	3.297	2.916	2.425	1.976	1.620	1.035
310	6.921	4.411	3.765	3.346	2.967	2.478	2.021	1.663	1.080
315	7.061	4.545	3.855	3.396	3.019	2.532	2.072	1.706	1.125
320	7.202	4.735	3.945	3.446	3.070	2.586	2.124	1.749	1.170
325	7.342	4.925	4.035	3.495	3.121	2.639	2.175	1.793	1.214
330	7.482	5.116	4.125	3.558	3.173	2.693	2.227	1.836	1.259

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 42: FIRETEX FX6002 CHS Columns: Fire Resistance Period 60 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	1.767	1.172	0.730	0.463	0.380	0.380	0.380	0.380	0.380
55	1.988	1.355	0.883	0.571	0.380	0.380	0.380	0.380	0.380
60	2.329	1.538	1.036	0.702	0.446	0.380	0.380	0.380	0.380
65	2.690	1.721	1.189	0.833	0.556	0.380	0.380	0.380	0.380
70	3.052	1.904	1.342	0.963	0.666	0.443	0.380	0.380	0.380
75	3.414	2.118	1.495	1.094	0.775	0.537	0.380	0.380	0.380
80	3.630	2.388	1.648	1.225	0.885	0.630	0.408	0.380	0.380
85	3.776	2.658	1.801	1.356	0.995	0.723	0.488	0.380	0.380
90	3.922	2.928	1.954	1.486	1.105	0.817	0.568	0.380	0.380
95	4.068	3.198	2.108	1.617	1.214	0.910	0.647	0.419	0.380
100	4.214	3.468	2.261	1.748	1.324	1.004	0.727	0.486	0.380
105	4.360	3.614	2.415	1.878	1.434	1.097	0.806	0.553	0.380
110	4.468	3.721	2.569	2.009	1.544	1.191	0.886	0.620	0.380
115	4.547	3.828	2.723	2.130	1.653	1.284	0.965	0.687	0.380
120	4.626	3.935	2.876	2.250	1.763	1.377	1.045	0.754	0.380
125	4.705	4.042	3.030	2.371	1.873	1.471	1.125	0.821	0.426
130	4.784	4.149	3.184	2.491	1.983	1.564	1.204	0.888	0.484
135	4.864	4.257	3.337	2.611	2.077	1.658	1.284	0.954	0.541
140	4.943	4.364	3.491	2.731	2.164	1.751	1.363	1.021	0.599
145	5.022	4.460	3.605	2.851	2.251	1.845	1.443	1.088	0.656
150	5.101	4.543	3.704	2.971	2.337	1.938	1.523	1.155	0.714
155	5.180	4.627	3.803	3.091	2.424	2.028	1.602	1.222	0.771
160	5.259	4.710	3.902	3.211	2.510	2.087	1.682	1.289	0.829
165	5.338	4.793	4.002	3.331	2.597	2.147	1.761	1.356	0.886
170	5.418	4.877	4.101	3.452	2.684	2.206	1.841	1.423	0.944
175	5.497	4.960	4.200	3.559	2.770	2.265	1.921	1.490	1.001
180	5.576	5.043	4.299	3.642	2.857	2.324	2.000	1.557	1.059
185	5.655	5.126	4.399	3.725	2.943	2.384	2.060	1.623	1.116
190	5.734	5.210	4.534	3.807	3.030	2.443	2.113	1.690	1.174
195	5.813	5.293	4.681	3.890	3.117	2.502	2.166	1.757	1.231
200	5.892	5.376	4.828	3.972	3.203	2.561	2.219	1.824	1.289
205	5.971	5.460	4.975	4.055	3.290	2.621	2.271	1.891	1.346
210	6.051	5.543	5.122	4.138	3.376	2.680	2.324	1.958	1.404
215	6.268	5.626	5.270	4.220	3.463	2.739	2.377	2.024	1.461
220	6.485	5.709	5.417	4.303	3.577	2.798	2.430	2.075	1.519
225	6.703	5.793	5.564	4.386	3.797	2.858	2.482	2.126	1.576
230	6.921	5.876	5.711	4.565	4.017	2.917	2.535	2.178	1.634
235	7.139	5.959	5.858	4.825	4.237	2.976	2.588	2.229	1.691
240	7.356	6.043	6.005	5.084	4.458	3.035	2.641	2.280	1.749
245	7.574	6.194	6.124	5.344	4.678	3.095	2.693	2.331	1.806
250	7.792	6.353	6.230	5.604	4.898	3.154	2.746	2.382	1.864
255	8.010	6.512	6.336	5.863	5.118	3.213	2.799	2.433	1.921
260	8.227	6.672	6.442	6.079	5.338	3.272	2.851	2.484	1.979
265	8.445	6.831	6.548	6.178	5.559	3.332	2.904	2.535	2.034
270	-	6.990	6.654	6.277	5.779	3.391	2.957	2.586	2.084
275	-	7.149	6.760	6.376	5.999	3.450	3.010	2.637	2.133
280	-	7.308	6.867	6.475	6.117	3.509	3.062	2.689	2.183
285	-	7.467	6.973	6.574	6.203	3.600	3.115	2.740	2.232
290	-	7.627	7.079	6.674	6.289	3.711	3.168	2.791	2.282
295	-	7.786	7.185	6.773	6.376	3.822	3.221	2.842	2.331
300	-	7.945	7.291	6.872	6.462	3.932	3.273	2.893	2.381
305	-	8.104	7.397	6.971	6.548	4.043	3.326	2.944	2.430
310	-	8.263	7.503	7.070	6.634	4.154	3.379	2.995	2.480
315	-	8.422	7.609	7.169	6.721	4.264	3.432	3.046	2.529
320	-	-	7.715	7.269	6.807	4.375	3.484	3.097	2.578
325	-	-	7.821	7.368	6.893	4.524	3.548	3.148	2.628
330	-	-	7.927	7.467	6.979	4.702	3.710	3.200	2.677

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 43: FIRETEX FX6002 CHS Columns: Fire Resistance Period 75 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	3.043	1.797	1.268	0.914	0.641	0.446	0.380	0.380	0.380
55	3.547	2.071	1.479	1.096	0.789	0.554	0.380	0.380	0.380
60	3.828	2.554	1.691	1.278	0.945	0.691	0.473	0.380	0.380
65	4.109	3.036	1.902	1.460	1.101	0.828	0.594	0.388	0.380
70	4.390	3.519	2.153	1.642	1.257	0.965	0.714	0.493	0.380
75	4.580	3.744	2.456	1.824	1.414	1.102	0.835	0.599	0.380
80	4.758	3.963	2.760	2.006	1.570	1.239	0.955	0.704	0.380
85	4.937	4.181	3.063	2.247	1.726	1.375	1.075	0.809	0.460
90	5.115	4.399	3.367	2.493	1.882	1.512	1.196	0.914	0.554
95	5.293	4.493	3.634	2.740	2.041	1.649	1.316	1.019	0.648
100	5.472	4.572	3.857	2.986	2.229	1.786	1.437	1.124	0.742
105	5.650	4.651	4.080	3.232	2.416	1.923	1.557	1.229	0.835
110	5.828	4.730	4.304	3.479	2.603	2.061	1.678	1.335	0.929
115	6.006	4.809	4.467	3.694	2.790	2.200	1.798	1.440	1.023
120	6.185	4.888	4.562	3.900	2.977	2.340	1.918	1.545	1.117
125	6.363	4.968	4.657	4.107	3.164	2.479	2.037	1.650	1.211
130	6.541	5.047	4.753	4.314	3.351	2.619	2.144	1.755	1.305
135	6.720	5.126	4.848	4.471	3.539	2.758	2.251	1.860	1.398
140	6.898	5.205	4.943	4.573	3.729	2.898	2.358	1.965	1.492
145	7.076	5.284	5.038	4.675	3.920	3.038	2.465	2.057	1.586
150	7.254	5.363	5.133	4.776	4.111	3.177	2.572	2.133	1.680
155	7.433	5.442	5.228	4.878	4.302	3.317	2.679	2.210	1.774
160	7.611	5.521	5.323	4.980	4.465	3.456	2.787	2.286	1.867
165	7.789	5.600	5.418	5.082	4.581	3.609	2.894	2.362	1.961
170	7.968	5.679	5.513	5.183	4.697	3.777	3.001	2.438	2.041
175	8.146	5.758	5.608	5.285	4.813	3.945	3.108	2.514	2.094
180	8.324	5.837	5.703	5.387	4.928	4.114	3.215	2.591	2.147
185	-	5.916	5.798	5.489	5.044	4.282	3.322	2.667	2.200
190	-	5.995	5.893	5.590	5.160	4.447	3.429	2.743	2.254
195	-	6.169	5.988	5.692	5.275	4.596	3.537	2.819	2.307
200	-	6.576	6.101	5.794	5.391	4.746	3.664	2.895	2.360
205	-	6.982	6.249	5.896	5.507	4.895	3.791	2.972	2.413
210	-	7.388	6.396	5.997	5.623	5.044	3.919	3.048	2.466
215	-	7.795	6.543	6.117	5.738	5.194	4.046	3.124	2.520
220	-	8.201	6.691	6.256	5.854	5.343	4.173	3.200	2.573
225	-	-	6.838	6.395	5.970	5.492	4.301	3.276	2.626
230	-	-	6.986	6.535	6.088	5.641	4.433	3.353	2.679
235	-	-	7.133	6.674	6.213	5.791	4.692	3.429	2.732
240	-	-	7.281	6.813	6.337	5.940	4.952	3.505	2.786
245	-	-	7.428	6.953	6.462	6.080	5.211	3.593	2.839
250	-	-	7.575	7.092	6.586	6.192	5.470	3.688	2.892
255	-	-	7.723	7.231	6.711	6.304	5.730	3.784	2.945
260	-	-	7.870	7.370	6.835	6.416	5.989	3.879	2.998
265	-	-	8.018	7.510	6.960	6.528	6.128	3.974	3.052
270	-	-	8.165	7.649	7.084	6.641	6.229	4.069	3.105
275	-	-	8.313	7.788	7.209	6.753	6.330	4.164	3.158
280	-	-	8.460	7.928	7.333	6.865	6.431	4.259	3.211
285	-	-	-	8.067	7.458	6.977	6.532	4.354	3.264
290	-	-	-	8.206	7.582	7.089	6.633	4.470	3.318
295	-	-	-	8.345	7.707	7.201	6.734	4.644	3.371
300	-	-	-	8.485	7.831	7.313	6.835	4.818	3.424
305	-	-	-	-	7.956	7.426	6.936	4.992	3.477
310	-	-	-	-	8.080	7.538	7.037	5.166	3.530
315	-	-	-	-	8.205	7.650	7.138	5.340	3.732
320	-	-	-	-	8.329	7.762	7.239	5.514	3.938
325	-	-	-	-	8.454	7.874	7.340	5.688	4.145
330	-	-	-	-	-	7.986	7.441	5.862	4.351

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 44: FIRETEX FX6002 CHS Columns: Fire Resistance Period 90 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	-	3.082	1.824	1.400	1.063	0.810	0.606	0.426	0.380
55	-	3.626	2.154	1.635	1.266	0.989	0.751	0.533	0.380
60	-	3.979	2.646	1.870	1.469	1.169	0.911	0.677	0.380
65	-	4.331	3.138	2.166	1.672	1.348	1.072	0.820	0.495
70	-	4.570	3.608	2.575	1.875	1.528	1.233	0.964	0.626
75	-	4.768	3.987	2.983	2.109	1.708	1.393	1.108	0.756
80	-	4.966	4.365	3.391	2.427	1.887	1.554	1.251	0.887
85	-	5.164	4.569	3.776	2.744	2.084	1.715	1.395	1.017
90	-	5.362	4.742	4.150	3.062	2.330	1.876	1.538	1.148
95	-	5.560	4.915	4.448	3.380	2.577	2.040	1.682	1.278
100	-	5.758	5.087	4.542	3.725	2.824	2.240	1.826	1.409
105	-	5.956	5.260	4.636	4.096	3.070	2.439	1.969	1.539
110	-	6.154	5.433	4.729	4.434	3.317	2.639	2.119	1.670
115	-	6.352	5.605	4.823	4.529	3.576	2.839	2.273	1.800
120	-	6.551	5.778	4.917	4.625	3.919	3.039	2.427	1.931
125	-	6.749	5.951	5.010	4.720	4.262	3.239	2.580	2.055
130	-	6.947	6.123	5.104	4.815	4.476	3.438	2.734	2.166
135	-	7.145	6.296	5.198	4.910	4.576	3.675	2.888	2.278
140	-	7.343	6.469	5.291	5.006	4.675	3.944	3.041	2.389
145	-	7.541	6.641	5.385	5.101	4.775	4.213	3.195	2.500
150	-	7.739	6.814	5.479	5.196	4.875	4.446	3.349	2.611
155	-	7.937	6.987	5.573	5.292	4.975	4.554	3.503	2.723
160	-	8.135	7.159	5.666	5.387	5.074	4.662	3.708	2.834
165	-	8.333	7.332	5.760	5.482	5.174	4.770	3.926	2.945
170	-	-	7.505	5.854	5.577	5.274	4.877	4.144	3.056
175	-	-	7.677	5.947	5.673	5.373	4.985	4.361	3.168
180	-	-	7.850	6.041	5.768	5.473	5.093	4.511	3.279
185	-	-	8.023	6.367	5.863	5.573	5.200	4.633	3.390
190	-	-	8.195	6.720	5.958	5.673	5.308	4.755	3.501
195	-	-	8.368	7.074	6.057	5.772	5.416	4.877	3.655
200	-	-	-	7.427	6.263	5.872	5.523	4.999	3.826
205	-	-	-	7.781	6.469	5.972	5.631	5.121	3.996
210	-	-	-	8.135	6.674	6.083	5.739	5.243	4.166
215	-	-	-	8.488	6.880	6.238	5.846	5.365	4.337
220	-	-	-	-	7.086	6.394	5.954	5.488	4.510
225	-	-	-	-	7.292	6.549	6.065	5.610	4.686
230	-	-	-	-	7.498	6.704	6.210	5.732	4.862
235	-	-	-	-	7.704	6.860	6.354	5.854	5.038
240	-	-	-	-	7.909	7.015	6.498	5.976	5.215
245	-	-	-	-	8.115	7.171	6.642	6.102	5.391
250	-	-	-	-	8.321	7.326	6.787	6.235	5.567
255	-	-	-	-	-	7.481	6.931	6.368	5.743
260	-	-	-	-	-	7.637	7.075	6.500	5.920
265	-	-	-	-	-	7.792	7.219	6.633	6.083
270	-	-	-	-	-	7.948	7.363	6.766	6.209
275	-	-	-	-	-	8.103	7.508	6.898	6.335
280	-	-	-	-	-	8.258	7.652	7.031	6.461
285	-	-	-	-	-	8.414	7.796	7.164	6.586
290	-	-	-	-	-	-	7.940	7.296	6.712
295	-	-	-	-	-	-	8.085	7.429	6.838
300	-	-	-	-	-	-	8.229	7.562	6.964
305	-	-	-	-	-	-	8.373	7.694	7.090
310	-	-	-	-	-	-	-	7.827	7.216
315	-	-	-	-	-	-	-	7.960	7.341
320	-	-	-	-	-	-	-	8.092	7.467
325	-	-	-	-	-	-	-	8.225	7.593
330	-	-	-	-	-	-	-	8.358	7.719

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 45: FIRETEX FX6002 CHS Columns: Fire Resistance Period 105 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	-	-	2.916	1.901	1.504	1.212	0.963	0.741	0.473
55	-	-	3.539	2.372	1.755	1.435	1.164	0.919	0.599
60	-	-	4.096	2.973	2.006	1.658	1.366	1.100	0.766
65	-	-	4.517	3.573	2.466	1.881	1.567	1.282	0.933
70	-	-	4.744	4.149	2.941	2.162	1.768	1.463	1.100
75	-	-	4.972	4.532	3.415	2.539	1.970	1.645	1.267
80	-	-	5.200	4.741	3.985	2.916	2.256	1.827	1.435
85	-	-	5.427	4.949	4.473	3.294	2.572	2.008	1.602
90	-	-	5.655	5.157	4.655	3.742	2.887	2.257	1.769
95	-	-	5.883	5.366	4.838	4.312	3.203	2.511	1.936
100	-	-	6.110	5.574	5.020	4.498	3.519	2.765	2.117
105	-	-	6.338	5.782	5.203	4.592	3.962	3.019	2.313
110	-	-	6.565	5.990	5.386	4.686	4.411	3.273	2.508
115	-	-	6.793	6.199	5.568	4.779	4.514	3.527	2.704
120	-	-	7.021	6.407	5.751	4.873	4.608	3.898	2.899
125	-	-	7.248	6.615	5.933	4.967	4.702	4.272	3.095
130	-	-	7.476	6.823	6.116	5.060	4.796	4.479	3.290
135	-	-	7.704	7.032	6.298	5.154	4.890	4.574	3.486
140	-	-	7.931	7.240	6.481	5.248	4.984	4.668	3.773
145	-	-	8.159	7.448	6.663	5.341	5.078	4.763	4.090
150	-	-	8.386	7.657	6.846	5.435	5.171	4.857	4.406
155	-	-	-	7.865	7.028	5.528	5.265	4.952	4.520
160	-	-	-	8.073	7.211	5.622	5.359	5.047	4.622
165	-	-	-	8.281	7.393	5.716	5.453	5.141	4.725
170	-	-	-	8.490	7.576	5.809	5.547	5.236	4.827
175	-	-	-	-	7.759	5.903	5.641	5.330	4.930
180	-	-	-	-	7.941	5.997	5.735	5.425	5.032
185	-	-	-	-	8.124	6.231	5.828	5.519	5.135
190	-	-	-	-	8.306	6.660	5.922	5.614	5.237
195	-	-	-	-	8.489	7.090	6.016	5.708	5.339
200	-	-	-	-	-	7.519	6.222	5.803	5.442
205	-	-	-	-	-	7.949	6.494	5.898	5.544
210	-	-	-	-	-	8.378	6.767	5.992	5.647
215	-	-	-	-	-	-	7.039	6.121	5.749
220	-	-	-	-	-	-	7.311	6.306	5.851
225	-	-	-	-	-	-	7.583	6.491	5.954
230	-	-	-	-	-	-	7.855	6.676	6.060
235	-	-	-	-	-	-	8.128	6.862	6.241
240	-	-	-	-	-	-	8.400	7.047	6.422
245	-	-	-	-	-	-	-	7.232	6.604
250	-	-	-	-	-	-	-	7.417	6.785
255	-	-	-	-	-	-	-	7.602	6.966
260	-	-	-	-	-	-	-	7.788	7.147
265	-	-	-	-	-	-	-	7.973	7.328
270	-	-	-	-	-	-	-	8.158	7.509
275	-	-	-	-	-	-	-	8.343	7.690
280	-	-	-	-	-	-	-	-	7.871
285	-	-	-	-	-	-	-	-	8.052
290	-	-	-	-	-	-	-	-	8.233
295	-	-	-	-	-	-	-	-	8.414
300	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.

Section Factor m^{-1}	Table 46: FIRETEX FX6002 CHS Columns: Fire Resistance Period 120 Minutes								
	Thickness (mm) Required for a Design Temperature of								
	350	400	450	500	550	600	650	700	750
50	-	-	-	3.100	1.957	1.623	1.345	1.092	0.778
55	-	-	-	3.780	2.534	1.891	1.587	1.313	0.975
60	-	-	-	-	3.189	2.292	1.830	1.533	1.179
65	-	-	-	-	3.950	2.821	2.117	1.753	1.383
70	-	-	-	-	4.530	3.349	2.570	1.973	1.588
75	-	-	-	-	4.760	4.085	3.022	2.315	1.792
80	-	-	-	-	4.990	4.548	3.475	2.690	1.996
85	-	-	-	-	5.221	4.756	4.108	3.066	2.285
90	-	-	-	-	5.451	4.963	4.521	3.441	2.586
95	-	-	-	-	5.682	5.171	4.709	3.952	2.887
100	-	-	-	-	5.912	5.379	4.897	4.437	3.188
105	-	-	-	-	6.143	5.587	5.085	4.527	3.490
110	-	-	-	-	6.373	5.795	5.273	4.617	3.954
115	-	-	-	-	6.603	6.003	5.461	4.706	4.427
120	-	-	-	-	6.834	6.211	5.648	4.796	4.519
125	-	-	-	-	7.064	6.419	5.836	4.886	4.611
130	-	-	-	-	7.295	6.627	6.024	4.976	4.702
135	-	-	-	-	7.525	6.835	6.212	5.066	4.794
140	-	-	-	-	7.756	7.043	6.400	5.156	4.886
145	-	-	-	-	7.986	7.250	6.588	5.246	4.978
150	-	-	-	-	8.217	7.458	6.776	5.336	5.069
155	-	-	-	-	8.447	7.666	6.964	5.426	5.161
160	-	-	-	-	-	7.874	7.151	5.516	5.253
165	-	-	-	-	-	8.082	7.339	5.606	5.344
170	-	-	-	-	-	8.290	7.527	5.696	5.436
175	-	-	-	-	-	-	7.715	5.786	5.528
180	-	-	-	-	-	-	7.903	5.876	5.620
185	-	-	-	-	-	-	8.091	5.966	5.711
190	-	-	-	-	-	-	8.279	6.084	5.803
195	-	-	-	-	-	-	8.467	6.705	5.895
200	-	-	-	-	-	-	-	7.327	5.987
205	-	-	-	-	-	-	-	7.949	6.174
210	-	-	-	-	-	-	-	-	6.586
215	-	-	-	-	-	-	-	-	6.998
220	-	-	-	-	-	-	-	-	7.410
225	-	-	-	-	-	-	-	-	7.822
230	-	-	-	-	-	-	-	-	8.234
235	-	-	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-	-	-
245	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-
270	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.
Results apply to circular hollow columns exposed on all sides.