



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

Sherwin Williams UK Limited
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OX28 4XR
United Kingdom

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

Product Name: FIRETEX Platinum-120

Product Description: Two-component intumescent coating.

FIRETEX Platinum-120 for three and four sided fire exposure of I and H beams and columns including re-entrants, rectangular/square 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	90	330	1.732	8.591
I/H Columns	90	330	1.851	9.158
RHS/SHS & CHS Columns	65	315	1.813	9.472

The test data used for the analysis described in the BRANZ Fire Assessment Report FC20056-01 was taken from the Warringtonfire assessment report WF358376 Issue 3 which has been provided to BRANZ and is retained on file.

Refer to Table 1 to Table 24 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 FC20056-01-1

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. FC20056-01-2-C1

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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 Platinum-120 I/H Beams: Fire Resistance Period 30 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
95	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
100	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
105	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
110	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
115	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
120	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
125	1.765	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
130	1.808	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
135	1.850	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
140	1.893	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
145	1.936	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
150	1.979	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
155	2.022	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
160	2.065	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
165	2.107	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
170	2.150	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
175	2.193	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
180	2.236	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
185	2.279	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
190	2.321	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
195	2.364	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
200	2.407	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
205	2.450	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
210	2.493	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
215	2.536	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
220	2.578	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
225	2.621	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
230	2.664	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
235	2.707	1.758	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
240	2.750	1.803	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
245	2.793	1.847	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
250	2.835	1.892	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
255	2.878	1.937	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
260	2.921	1.981	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
265	2.964	2.026	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
270	3.007	2.071	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
275	3.049	2.115	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
280	3.092	2.160	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
285	3.135	2.205	1.762	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
290	3.178	2.249	1.801	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
295	3.221	2.294	1.840	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
300	3.264	2.339	1.880	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
305	3.306	2.384	1.919	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
310	3.349	2.428	1.958	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
315	3.411	2.473	1.997	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
320	3.475	2.518	2.037	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
325	3.539	2.562	2.076	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
330	3.602	2.607	2.115	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732

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 Platinum-120 I/H Beams: Fire Resistance Period 45 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	2.400	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
95	2.505	1.773	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
100	2.609	1.833	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
105	2.713	1.892	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
110	2.818	1.952	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
115	2.922	2.011	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
120	3.026	2.071	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
125	3.130	2.130	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
130	3.235	2.189	1.754	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
135	3.339	2.249	1.797	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
140	3.416	2.308	1.840	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
145	3.489	2.368	1.882	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
150	3.562	2.427	1.925	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
155	3.634	2.487	1.968	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
160	3.707	2.546	2.010	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
165	3.780	2.606	2.053	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
170	3.853	2.665	2.096	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
175	3.926	2.725	2.138	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
180	3.999	2.784	2.181	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
185	4.072	2.844	2.224	1.764	1.732	1.732	1.732	1.732	1.732	1.732	1.732
190	4.145	2.903	2.267	1.810	1.732	1.732	1.732	1.732	1.732	1.732	1.732
195	4.218	2.962	2.309	1.855	1.732	1.732	1.732	1.732	1.732	1.732	1.732
200	4.291	3.022	2.352	1.901	1.732	1.732	1.732	1.732	1.732	1.732	1.732
205	4.364	3.081	2.395	1.947	1.732	1.732	1.732	1.732	1.732	1.732	1.732
210	4.436	3.141	2.437	1.992	1.732	1.732	1.732	1.732	1.732	1.732	1.732
215	4.509	3.200	2.480	2.038	1.732	1.732	1.732	1.732	1.732	1.732	1.732
220	4.582	3.260	2.523	2.083	1.732	1.732	1.732	1.732	1.732	1.732	1.732
225	4.645	3.319	2.565	2.129	1.732	1.732	1.732	1.732	1.732	1.732	1.732
230	4.708	3.375	2.608	2.174	1.732	1.732	1.732	1.732	1.732	1.732	1.732
235	4.770	3.426	2.651	2.220	1.732	1.732	1.732	1.732	1.732	1.732	1.732
240	4.832	3.477	2.693	2.266	1.732	1.732	1.732	1.732	1.732	1.732	1.732
245	4.894	3.528	2.736	2.311	1.780	1.732	1.732	1.732	1.732	1.732	1.732
250	4.956	3.579	2.779	2.357	1.828	1.732	1.732	1.732	1.732	1.732	1.732
255	5.018	3.630	2.822	2.402	1.877	1.732	1.732	1.732	1.732	1.732	1.732
260	5.080	3.681	2.864	2.448	1.926	1.763	1.732	1.732	1.732	1.732	1.732
265	5.142	3.733	2.907	2.493	1.975	1.810	1.732	1.732	1.732	1.732	1.732
270	5.204	3.784	2.950	2.539	2.024	1.857	1.732	1.732	1.732	1.732	1.732
275	5.267	3.835	2.992	2.585	2.072	1.904	1.773	1.732	1.732	1.732	1.732
280	5.329	3.886	3.035	2.630	2.121	1.950	1.816	1.732	1.732	1.732	1.732
285	5.391	3.937	3.078	2.676	2.170	1.997	1.858	1.732	1.732	1.732	1.732
290	5.453	3.988	3.120	2.721	2.219	2.044	1.901	1.732	1.732	1.732	1.732
295	5.515	4.039	3.163	2.767	2.268	2.091	1.944	1.735	1.732	1.732	1.732
300	5.577	4.090	3.206	2.812	2.316	2.138	1.986	1.777	1.732	1.732	1.732
305	5.639	4.141	3.249	2.858	2.365	2.185	2.029	1.820	1.732	1.732	1.732
310	5.701	4.192	3.291	2.904	2.414	2.232	2.072	1.863	1.732	1.732	1.732
315	5.766	4.243	3.334	2.949	2.463	2.279	2.114	1.906	1.732	1.732	1.732
320	5.882	4.294	3.386	2.995	2.512	2.326	2.157	1.949	1.732	1.732	1.732
325	5.997	4.346	3.445	3.040	2.560	2.373	2.200	1.992	1.732	1.732	1.732
330	6.112	4.397	3.504	3.086	2.609	2.420	2.242	2.035	1.732	1.732	1.732

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 Platinum-120 I/H Beams: Fire Resistance Period 60 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	3.590	2.570	2.028	1.732	1.732	1.732	1.732	1.732	1.732	1.732	1.732
95	3.751	2.678	2.110	1.736	1.732	1.732	1.732	1.732	1.732	1.732	1.732
100	3.913	2.786	2.191	1.799	1.732	1.732	1.732	1.732	1.732	1.732	1.732
105	4.075	2.894	2.272	1.863	1.732	1.732	1.732	1.732	1.732	1.732	1.732
110	4.236	3.002	2.354	1.926	1.732	1.732	1.732	1.732	1.732	1.732	1.732
115	4.398	3.110	2.435	1.990	1.732	1.732	1.732	1.732	1.732	1.732	1.732
120	4.559	3.218	2.517	2.054	1.758	1.732	1.732	1.732	1.732	1.732	1.732
125	4.725	3.326	2.598	2.117	1.805	1.732	1.732	1.732	1.732	1.732	1.732
130	4.891	3.415	2.680	2.181	1.853	1.732	1.732	1.732	1.732	1.732	1.732
135	5.058	3.499	2.761	2.244	1.900	1.761	1.732	1.732	1.732	1.732	1.732
140	5.225	3.583	2.843	2.308	1.947	1.806	1.732	1.732	1.732	1.732	1.732
145	5.391	3.666	2.924	2.372	1.994	1.851	1.741	1.732	1.732	1.732	1.732
150	5.558	3.750	3.005	2.435	2.042	1.896	1.784	1.732	1.732	1.732	1.732
155	5.724	3.834	3.087	2.499	2.089	1.941	1.827	1.732	1.732	1.732	1.732
160	5.830	3.917	3.168	2.562	2.136	1.986	1.870	1.732	1.732	1.732	1.732
165	5.919	4.001	3.250	2.626	2.183	2.030	1.913	1.732	1.732	1.732	1.732
170	6.007	4.085	3.331	2.689	2.231	2.075	1.955	1.732	1.732	1.732	1.732
175	6.096	4.168	3.385	2.753	2.278	2.120	1.998	1.739	1.732	1.732	1.732
180	6.185	4.252	3.428	2.817	2.325	2.165	2.041	1.786	1.732	1.732	1.732
185	6.274	4.335	3.472	2.880	2.372	2.210	2.084	1.833	1.732	1.732	1.732
190	6.363	4.419	3.516	2.944	2.419	2.255	2.127	1.880	1.732	1.732	1.732
195	6.452	4.503	3.559	3.007	2.467	2.300	2.170	1.926	1.732	1.732	1.732
200	6.541	4.586	3.603	3.071	2.514	2.344	2.213	1.973	1.732	1.732	1.732
205	6.629	4.646	3.647	3.135	2.561	2.389	2.256	2.020	1.732	1.732	1.732
210	6.718	4.706	3.690	3.198	2.608	2.434	2.299	2.067	1.732	1.732	1.732
215	6.807	4.765	3.734	3.262	2.656	2.479	2.342	2.113	1.732	1.732	1.732
220	6.896	4.824	3.778	3.325	2.703	2.524	2.385	2.160	1.732	1.732	1.732
225	6.985	4.883	3.822	3.379	2.750	2.569	2.428	2.207	1.732	1.732	1.732
230	7.074	4.942	3.865	3.425	2.797	2.613	2.471	2.254	1.732	1.732	1.732
235	7.169	5.001	3.909	3.472	2.845	2.658	2.514	2.301	1.780	1.732	1.732
240	7.263	5.060	3.953	3.518	2.892	2.703	2.556	2.347	1.842	1.732	1.732
245	7.357	5.119	3.996	3.564	2.939	2.748	2.599	2.394	1.903	1.732	1.732
250	7.452	5.178	4.040	3.611	2.986	2.793	2.642	2.441	1.964	1.732	1.732
255	7.546	5.237	4.084	3.657	3.034	2.838	2.685	2.488	2.025	1.732	1.732
260	7.640	5.296	4.127	3.704	3.081	2.882	2.728	2.534	2.086	1.732	1.732
265	7.735	5.355	4.171	3.750	3.128	2.927	2.771	2.581	2.148	1.778	1.732
270	7.829	5.414	4.215	3.796	3.175	2.972	2.814	2.628	2.209	1.841	1.732
275	7.923	5.473	4.258	3.843	3.223	3.017	2.857	2.675	2.270	1.904	1.732
280	8.018	5.532	4.302	3.889	3.270	3.062	2.900	2.722	2.331	1.967	1.732
285	8.112	5.591	4.346	3.935	3.317	3.107	2.943	2.768	2.393	2.030	1.732
290	8.206	5.650	4.390	3.982	3.367	3.152	2.986	2.815	2.454	2.093	1.732
295	8.301	5.709	4.433	4.028	3.425	3.196	3.029	2.862	2.515	2.156	1.732
300	8.395	5.786	4.477	4.075	3.483	3.241	3.072	2.909	2.576	2.219	1.783
305	8.489	5.973	4.521	4.121	3.540	3.286	3.115	2.955	2.638	2.282	1.846
310	8.584	6.160	4.564	4.167	3.598	3.331	3.157	3.002	2.699	2.345	1.909
315	-	6.348	4.644	4.214	3.656	3.383	3.200	3.049	2.760	2.408	1.972
320	-	6.535	4.776	4.260	3.714	3.443	3.243	3.096	2.821	2.471	2.035
325	-	6.723	4.908	4.306	3.772	3.502	3.286	3.143	2.883	2.534	2.098
330	-	6.910	5.039	4.353	3.829	3.562	3.329	3.189	2.944	2.597	2.161

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 Platinum-120 I/H Beams: Fire Resistance Period 75 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	5.271	3.527	2.761	2.300	1.963	1.839	1.782	1.732	1.732	1.732	1.732
95	5.488	3.681	2.883	2.401	2.045	1.913	1.844	1.748	1.732	1.732	1.732
100	5.704	3.835	3.005	2.501	2.126	1.987	1.906	1.805	1.732	1.732	1.732
105	5.920	3.989	3.127	2.601	2.207	2.061	1.968	1.863	1.767	1.732	1.732
110	6.118	4.143	3.249	2.702	2.289	2.135	2.030	1.920	1.818	1.732	1.732
115	6.316	4.297	3.369	2.802	2.370	2.208	2.092	1.977	1.869	1.732	1.732
120	6.514	4.450	3.479	2.902	2.452	2.282	2.155	2.034	1.921	1.732	1.732
125	6.712	4.607	3.588	3.003	2.533	2.356	2.217	2.091	1.972	1.734	1.732
130	6.909	4.789	3.698	3.103	2.615	2.430	2.279	2.148	2.023	1.782	1.732
135	7.084	4.971	3.808	3.203	2.696	2.503	2.341	2.205	2.074	1.830	1.732
140	7.183	5.153	3.917	3.303	2.778	2.577	2.403	2.263	2.126	1.879	1.732
145	7.282	5.335	4.027	3.385	2.859	2.651	2.465	2.320	2.177	1.927	1.732
150	7.380	5.517	4.136	3.450	2.941	2.725	2.528	2.377	2.228	1.975	1.732
155	7.479	5.699	4.246	3.515	3.022	2.799	2.590	2.434	2.279	2.024	1.732
160	7.577	5.842	4.356	3.580	3.104	2.872	2.652	2.491	2.331	2.072	1.732
165	7.676	5.965	4.465	3.645	3.185	2.946	2.714	2.548	2.382	2.120	1.732
170	7.775	6.089	4.575	3.710	3.267	3.020	2.776	2.605	2.433	2.169	1.732
175	7.873	6.213	4.663	3.774	3.348	3.094	2.838	2.663	2.484	2.217	1.745
180	7.972	6.336	4.748	3.839	3.395	3.167	2.900	2.720	2.535	2.265	1.801
185	8.071	6.460	4.832	3.904	3.441	3.241	2.963	2.777	2.587	2.313	1.858
190	8.169	6.584	4.917	3.969	3.486	3.315	3.025	2.834	2.638	2.362	1.915
195	8.268	6.707	5.002	4.034	3.531	3.375	3.087	2.891	2.689	2.410	1.972
200	8.366	6.831	5.086	4.099	3.576	3.421	3.149	2.948	2.740	2.458	2.029
205	8.465	6.955	5.171	4.164	3.622	3.467	3.211	3.005	2.792	2.507	2.086
210	8.564	7.074	5.256	4.228	3.667	3.513	3.273	3.063	2.843	2.555	2.142
215	-	7.162	5.340	4.293	3.712	3.559	3.336	3.120	2.894	2.603	2.199
220	-	7.251	5.425	4.358	3.757	3.605	3.388	3.177	2.945	2.652	2.256
225	-	7.340	5.510	4.423	3.803	3.651	3.437	3.234	2.997	2.700	2.313
230	-	7.429	5.594	4.488	3.848	3.697	3.486	3.291	3.048	2.748	2.370
235	-	7.518	5.679	4.553	3.893	3.743	3.535	3.348	3.099	2.797	2.427
240	-	7.606	5.765	4.620	3.938	3.788	3.584	3.401	3.150	2.845	2.484
245	-	7.695	5.877	4.692	3.984	3.834	3.634	3.454	3.202	2.893	2.540
250	-	7.784	5.989	4.763	4.029	3.880	3.683	3.506	3.253	2.942	2.597
255	-	7.873	6.101	4.834	4.074	3.926	3.732	3.559	3.304	2.990	2.654
260	-	7.962	6.213	4.906	4.119	3.972	3.781	3.611	3.356	3.038	2.711
265	-	8.051	6.325	4.977	4.165	4.018	3.830	3.664	3.414	3.087	2.768
270	-	8.139	6.437	5.049	4.210	4.064	3.879	3.716	3.473	3.135	2.825
275	-	8.228	6.549	5.120	4.255	4.110	3.928	3.769	3.531	3.183	2.881
280	-	8.317	6.661	5.191	4.301	4.156	3.977	3.821	3.589	3.232	2.938
285	-	8.406	6.773	5.263	4.346	4.202	4.026	3.874	3.648	3.280	2.995
290	-	8.495	6.885	5.334	4.391	4.248	4.075	3.926	3.706	3.328	3.052
295	-	8.583	6.997	5.406	4.436	4.294	4.124	3.979	3.765	3.378	3.109
300	-	-	7.151	5.477	4.482	4.340	4.173	4.031	3.823	3.430	3.166
305	-	-	7.364	5.548	4.527	4.386	4.223	4.084	3.882	3.482	3.223
310	-	-	7.576	5.620	4.572	4.432	4.272	4.137	3.940	3.534	3.279
315	-	-	7.789	5.691	4.675	4.478	4.321	4.189	3.998	3.587	3.336
320	-	-	8.001	5.773	4.816	4.524	4.370	4.242	4.057	3.639	3.385
325	-	-	8.214	6.142	4.957	4.570	4.419	4.294	4.115	3.691	3.430
330	-	-	8.427	6.510	5.098	4.666	4.468	4.347	4.174	3.743	3.476

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 Platinum-120 I/H Beams: Fire Resistance Period 90 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	4.681	3.692	2.945	2.537	2.385	2.278	2.164	2.051	1.926	1.824
95	-	5.014	3.880	3.081	2.650	2.489	2.367	2.248	2.124	1.992	1.884
100	-	5.346	4.067	3.218	2.764	2.593	2.457	2.331	2.198	2.058	1.944
105	-	5.678	4.254	3.355	2.878	2.697	2.547	2.414	2.272	2.124	2.004
110	-	5.916	4.442	3.507	2.991	2.801	2.636	2.498	2.345	2.190	2.064
115	-	6.122	4.634	3.660	3.105	2.905	2.726	2.581	2.419	2.255	2.125
120	-	6.328	4.843	3.813	3.218	3.009	2.815	2.665	2.492	2.321	2.185
125	-	6.534	5.053	3.966	3.332	3.113	2.905	2.748	2.566	2.387	2.245
130	-	6.740	5.262	4.118	3.434	3.217	2.994	2.832	2.639	2.453	2.305
135	-	6.946	5.472	4.271	3.533	3.321	3.084	2.915	2.713	2.518	2.366
140	-	7.104	5.681	4.424	3.632	3.409	3.173	2.999	2.786	2.584	2.426
145	-	7.198	5.860	4.577	3.731	3.490	3.263	3.082	2.860	2.650	2.486
150	-	7.293	6.020	4.708	3.831	3.571	3.352	3.166	2.933	2.716	2.546
155	-	7.388	6.180	4.838	3.930	3.652	3.420	3.249	3.007	2.781	2.606
160	-	7.483	6.340	4.967	4.029	3.733	3.488	3.333	3.080	2.847	2.667
165	-	7.578	6.501	5.096	4.128	3.814	3.556	3.397	3.154	2.913	2.727
170	-	7.673	6.661	5.226	4.228	3.895	3.624	3.456	3.227	2.979	2.787
175	-	7.768	6.821	5.355	4.327	3.976	3.692	3.515	3.301	3.045	2.847
180	-	7.863	6.981	5.485	4.426	4.057	3.760	3.575	3.369	3.110	2.908
185	-	7.958	7.111	5.614	4.525	4.138	3.827	3.634	3.424	3.176	2.968
190	-	8.053	7.209	5.744	4.618	4.219	3.895	3.693	3.479	3.242	3.028
195	-	8.148	7.307	5.872	4.697	4.300	3.963	3.752	3.535	3.308	3.088
200	-	8.242	7.405	6.001	4.776	4.381	4.031	3.811	3.590	3.367	3.148
205	-	8.337	7.503	6.129	4.855	4.462	4.099	3.870	3.645	3.413	3.209
210	-	8.432	7.602	6.258	4.934	4.543	4.167	3.929	3.701	3.459	3.269
215	-	8.527	7.700	6.387	5.013	4.617	4.235	3.988	3.756	3.505	3.329
220	-	-	7.798	6.515	5.092	4.681	4.302	4.047	3.812	3.551	3.379
225	-	-	7.896	6.644	5.170	4.744	4.370	4.106	3.867	3.597	3.422
230	-	-	7.994	6.772	5.249	4.808	4.438	4.165	3.922	3.643	3.465
235	-	-	8.093	6.901	5.328	4.872	4.506	4.224	3.978	3.689	3.508
240	-	-	8.191	7.029	5.407	4.935	4.574	4.283	4.033	3.736	3.551
245	-	-	8.289	7.156	5.486	4.999	4.647	4.342	4.089	3.782	3.594
250	-	-	8.387	7.283	5.565	5.063	4.722	4.401	4.144	3.828	3.637
255	-	-	8.485	7.409	5.644	5.126	4.796	4.460	4.199	3.874	3.680
260	-	-	8.584	7.535	5.723	5.190	4.871	4.519	4.255	3.920	3.723
265	-	-	-	7.661	5.829	5.254	4.945	4.578	4.310	3.966	3.766
270	-	-	-	7.788	5.957	5.317	5.020	4.661	4.365	4.012	3.809
275	-	-	-	7.914	6.084	5.381	5.095	4.749	4.421	4.058	3.852
280	-	-	-	8.040	6.212	5.445	5.169	4.837	4.476	4.104	3.895
285	-	-	-	8.167	6.340	5.508	5.244	4.925	4.532	4.150	3.938
290	-	-	-	8.293	6.468	5.572	5.319	5.013	4.587	4.196	3.981
295	-	-	-	8.419	6.596	5.635	5.393	5.101	4.677	4.242	4.024
300	-	-	-	8.546	6.724	5.699	5.468	5.189	4.768	4.288	4.067
305	-	-	-	-	6.851	5.772	5.543	5.277	4.860	4.334	4.110
310	-	-	-	-	6.979	6.040	5.617	5.364	4.951	4.380	4.153
315	-	-	-	-	7.175	6.309	5.692	5.452	5.043	4.427	4.196
320	-	-	-	-	7.496	6.578	5.783	5.540	5.134	4.473	4.239
325	-	-	-	-	7.818	6.847	6.045	5.628	5.226	4.519	4.282
330	-	-	-	-	8.139	7.125	6.307	5.716	5.318	4.565	4.325

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 Platinum-120 I/H Beams: Fire Resistance Period 105 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	6.506	5.249	3.922	3.070	2.773	2.773	2.639	2.465	2.309	2.197
95	-	6.708	5.479	4.147	3.257	2.890	2.890	2.749	2.561	2.396	2.278
100	-	6.910	5.709	4.373	3.444	3.007	3.007	2.859	2.658	2.483	2.359
105	-	7.112	5.939	4.599	3.631	3.199	3.124	2.969	2.755	2.570	2.440
110	-	7.221	6.151	4.867	3.818	3.489	3.241	3.079	2.851	2.657	2.521
115	-	7.330	6.363	5.135	4.005	3.649	3.359	3.189	2.948	2.744	2.602
120	-	7.439	6.575	5.404	4.192	3.810	3.495	3.299	3.044	2.831	2.684
125	-	7.548	6.787	5.672	4.378	3.970	3.631	3.410	3.141	2.917	2.765
130	-	7.658	6.999	5.872	4.565	4.130	3.767	3.523	3.237	3.004	2.846
135	-	7.767	7.134	6.038	4.759	4.290	3.903	3.636	3.334	3.091	2.927
140	-	7.876	7.236	6.204	4.953	4.450	4.038	3.749	3.444	3.178	3.008
145	-	7.985	7.339	6.370	5.148	4.610	4.174	3.861	3.557	3.265	3.089
150	-	8.094	7.441	6.536	5.342	4.767	4.310	3.974	3.670	3.352	3.170
155	-	8.203	7.543	6.702	5.537	4.924	4.446	4.087	3.784	3.421	3.251
160	-	8.313	7.646	6.868	5.731	5.081	4.581	4.200	3.897	3.491	3.333
165	-	8.422	7.748	7.034	5.870	5.238	4.704	4.313	4.010	3.560	3.388
170	-	8.531	7.851	7.150	5.998	5.395	4.825	4.426	4.123	3.629	3.435
175	-	-	7.953	7.255	6.127	5.551	4.946	4.538	4.237	3.699	3.482
180	-	-	8.055	7.361	6.255	5.708	5.067	4.643	4.350	3.768	3.529
185	-	-	8.158	7.466	6.384	5.835	5.188	4.742	4.463	3.838	3.576
190	-	-	8.260	7.572	6.512	5.946	5.310	4.841	4.576	3.907	3.623
195	-	-	8.363	7.677	6.641	6.058	5.431	4.939	4.642	3.976	3.670
200	-	-	8.465	7.783	6.769	6.169	5.552	5.038	4.701	4.046	3.717
205	-	-	8.567	7.888	6.898	6.281	5.673	5.136	4.761	4.115	3.764
210	-	-	-	7.994	7.026	6.392	5.789	5.235	4.820	4.184	3.811
215	-	-	-	8.099	7.149	6.504	5.893	5.333	4.879	4.254	3.858
220	-	-	-	8.205	7.268	6.615	5.996	5.432	4.938	4.323	3.905
225	-	-	-	8.311	7.388	6.727	6.100	5.530	4.998	4.393	3.952
230	-	-	-	8.416	7.508	6.838	6.203	5.629	5.057	4.462	3.999
235	-	-	-	8.522	7.627	6.950	6.307	5.727	5.116	4.531	4.046
240	-	-	-	-	7.747	7.061	6.410	5.818	5.175	4.600	4.093
245	-	-	-	-	7.867	7.198	6.514	5.905	5.235	4.667	4.140
250	-	-	-	-	7.986	7.335	6.617	5.992	5.294	4.733	4.187
255	-	-	-	-	8.106	7.472	6.721	6.078	5.353	4.800	4.235
260	-	-	-	-	8.226	7.609	6.824	6.165	5.412	4.866	4.282
265	-	-	-	-	8.345	7.746	6.928	6.252	5.472	4.932	4.329
270	-	-	-	-	8.465	7.883	7.031	6.339	5.531	4.999	4.376
275	-	-	-	-	8.585	8.020	7.200	6.426	5.590	5.065	4.423
280	-	-	-	-	-	8.157	7.395	6.513	5.649	5.132	4.470
285	-	-	-	-	-	8.294	7.591	6.599	5.709	5.198	4.517
290	-	-	-	-	-	8.431	7.787	6.686	5.781	5.264	4.564
295	-	-	-	-	-	8.568	7.982	6.773	5.935	5.331	4.637
300	-	-	-	-	-	-	8.178	6.860	6.090	5.397	4.743
305	-	-	-	-	-	-	8.374	6.947	6.244	5.464	4.849
310	-	-	-	-	-	-	8.569	7.034	6.398	5.530	4.955
315	-	-	-	-	-	-	-	7.538	6.553	5.596	5.061
320	-	-	-	-	-	-	-	8.244	6.707	5.663	5.167
325	-	-	-	-	-	-	-	-	6.861	5.729	5.272
330	-	-	-	-	-	-	-	-	7.016	6.021	5.378

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 Platinum-120 I/H Beams: Fire Resistance Period 120 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	-	6.512	5.549	3.857	3.326	3.326	3.054	2.692	2.692	2.571
95	-	-	6.712	5.757	4.224	3.536	3.536	3.233	2.800	2.800	2.673
100	-	-	6.912	5.965	4.590	3.746	3.746	3.412	2.908	2.908	2.775
105	-	-	7.112	6.173	4.956	4.172	3.956	3.591	3.119	3.016	2.877
110	-	-	7.225	6.381	5.323	4.636	4.166	3.770	3.361	3.124	2.979
115	-	-	7.337	6.589	5.689	4.940	4.377	3.949	3.554	3.232	3.081
120	-	-	7.450	6.797	5.898	5.245	4.587	4.128	3.746	3.340	3.183
125	-	-	7.562	7.006	6.069	5.549	4.833	4.307	3.939	3.470	3.285
130	-	-	7.675	7.142	6.240	5.807	5.080	4.487	4.131	3.602	3.388
135	-	-	7.787	7.252	6.411	5.962	5.327	4.679	4.323	3.735	3.493
140	-	-	7.900	7.362	6.581	6.116	5.574	4.889	4.516	3.867	3.599
145	-	-	8.012	7.472	6.752	6.271	5.797	5.100	4.673	3.999	3.704
150	-	-	8.125	7.582	6.923	6.426	5.944	5.310	4.807	4.132	3.810
155	-	-	8.237	7.691	7.083	6.580	6.092	5.520	4.941	4.264	3.915
160	-	-	8.350	7.801	7.193	6.735	6.239	5.731	5.075	4.397	4.021
165	-	-	8.462	7.911	7.303	6.889	6.387	5.860	5.209	4.529	4.126
170	-	-	8.575	8.021	7.414	7.044	6.535	5.977	5.344	4.637	4.232
175	-	-	-	8.131	7.524	7.162	6.682	6.094	5.478	4.724	4.337
180	-	-	-	8.241	7.634	7.274	6.830	6.210	5.612	4.810	4.443
185	-	-	-	8.351	7.744	7.387	6.978	6.327	5.746	4.897	4.548
190	-	-	-	8.460	7.855	7.500	7.112	6.443	5.846	4.984	4.626
195	-	-	-	8.570	7.965	7.613	7.227	6.560	5.942	5.071	4.686
200	-	-	-	-	8.075	7.726	7.343	6.677	6.038	5.158	4.746
205	-	-	-	-	8.186	7.839	7.458	6.793	6.134	5.244	4.807
210	-	-	-	-	8.296	7.952	7.574	6.910	6.230	5.331	4.867
215	-	-	-	-	8.406	8.064	7.689	7.027	6.326	5.418	4.927
220	-	-	-	-	8.516	8.177	7.805	7.169	6.421	5.505	4.987
225	-	-	-	-	-	8.290	7.920	7.322	6.517	5.592	5.047
230	-	-	-	-	-	8.403	8.036	7.475	6.613	5.678	5.107
235	-	-	-	-	-	8.516	8.151	7.628	6.709	5.772	5.167
240	-	-	-	-	-	-	8.267	7.781	6.805	5.975	5.227
245	-	-	-	-	-	-	8.382	7.934	6.901	6.178	5.287
250	-	-	-	-	-	-	8.498	8.087	6.997	6.381	5.348
255	-	-	-	-	-	-	-	8.240	7.139	6.585	5.408
260	-	-	-	-	-	-	-	8.393	7.383	6.788	5.468
265	-	-	-	-	-	-	-	8.546	7.627	6.991	5.528
270	-	-	-	-	-	-	-	-	7.871	7.194	5.588
275	-	-	-	-	-	-	-	-	8.115	7.397	5.648
280	-	-	-	-	-	-	-	-	8.359	7.600	5.708
285	-	-	-	-	-	-	-	-	-	7.804	5.799
290	-	-	-	-	-	-	-	-	-	8.007	6.077
295	-	-	-	-	-	-	-	-	-	8.210	6.355
300	-	-	-	-	-	-	-	-	-	8.413	6.633
305	-	-	-	-	-	-	-	-	-	-	6.911
310	-	-	-	-	-	-	-	-	-	-	7.188
315	-	-	-	-	-	-	-	-	-	-	7.466
320	-	-	-	-	-	-	-	-	-	-	7.744
325	-	-	-	-	-	-	-	-	-	-	8.022
330	-	-	-	-	-	-	-	-	-	-	8.300

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 Platinum-120 I/H Beams: Fire Resistance Period 150 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	-	-	-	-	5.822	5.822	5.414	4.404	3.785	3.516
95	-	-	-	-	-	6.058	6.058	5.636	4.776	4.066	3.804
100	-	-	-	-	-	6.294	6.294	5.857	5.149	4.347	4.092
105	-	-	-	-	-	6.671	6.530	6.078	5.522	4.628	4.380
110	-	-	-	-	-	7.108	6.766	6.300	5.837	4.938	4.641
115	-	-	-	-	-	7.227	7.002	6.521	6.049	5.248	4.832
120	-	-	-	-	-	7.347	7.148	6.742	6.261	5.558	5.023
125	-	-	-	-	-	7.466	7.262	6.964	6.474	5.813	5.213
130	-	-	-	-	-	7.585	7.377	7.128	6.686	5.965	5.404
135	-	-	-	-	-	7.704	7.491	7.247	6.898	6.117	5.594
140	-	-	-	-	-	7.823	7.606	7.365	7.088	6.269	5.778
145	-	-	-	-	-	7.943	7.721	7.484	7.204	6.421	5.914
150	-	-	-	-	-	8.062	7.835	7.603	7.319	6.573	6.051
155	-	-	-	-	-	8.181	7.950	7.721	7.435	6.725	6.187
160	-	-	-	-	-	8.300	8.064	7.840	7.550	6.877	6.323
165	-	-	-	-	-	8.420	8.179	7.959	7.666	7.029	6.460
170	-	-	-	-	-	8.539	8.293	8.077	7.781	7.169	6.596
175	-	-	-	-	-	-	8.408	8.196	7.897	7.306	6.732
180	-	-	-	-	-	-	8.523	8.315	8.012	7.443	6.869
185	-	-	-	-	-	-	-	8.434	8.128	7.580	7.005
190	-	-	-	-	-	-	-	8.552	8.243	7.717	7.138
195	-	-	-	-	-	-	-	-	8.359	7.854	7.267
200	-	-	-	-	-	-	-	-	8.474	7.991	7.396
205	-	-	-	-	-	-	-	-	8.589	8.128	7.526
210	-	-	-	-	-	-	-	-	-	8.265	7.655
215	-	-	-	-	-	-	-	-	-	8.402	7.785
220	-	-	-	-	-	-	-	-	-	8.539	7.914
225	-	-	-	-	-	-	-	-	-	-	8.043
230	-	-	-	-	-	-	-	-	-	-	8.173
235	-	-	-	-	-	-	-	-	-	-	8.302
240	-	-	-	-	-	-	-	-	-	-	8.432
245	-	-	-	-	-	-	-	-	-	-	8.561
250	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-
270	-	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-

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 Platinum-120 I/H Columns: Fire Resistance Period 30 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
95	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
100	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
105	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
110	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
115	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
120	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
125	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
130	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
135	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
140	1.893	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
145	1.936	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
150	1.979	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
155	2.022	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
160	2.065	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
165	2.107	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
170	2.150	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
175	2.193	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
180	2.236	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
185	2.279	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
190	2.321	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
195	2.364	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
200	2.407	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
205	2.450	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
210	2.493	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
215	2.536	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
220	2.578	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
225	2.621	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
230	2.664	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
235	2.707	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
240	2.750	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
245	2.793	1.855	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
250	2.835	1.900	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
255	2.878	1.945	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
260	2.921	1.991	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
265	2.964	2.036	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
270	3.007	2.081	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
275	3.049	2.127	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
280	3.092	2.172	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
285	3.135	2.217	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
290	3.178	2.263	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
295	3.221	2.308	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
300	3.264	2.353	1.885	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
305	3.306	2.399	1.921	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
310	3.349	2.444	1.958	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
315	3.411	2.489	1.994	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
320	3.475	2.535	2.031	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
325	3.539	2.580	2.067	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
330	3.602	2.625	2.103	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851

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 8.591 mm.

Section Factor m ⁻¹	Table 10: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 45 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	2.400	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
95	2.505	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
100	2.609	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
105	2.713	1.898	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
110	2.818	1.959	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
115	2.922	2.020	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
120	3.026	2.081	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
125	3.130	2.142	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
130	3.235	2.203	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
135	3.339	2.264	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
140	3.416	2.325	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
145	3.489	2.386	1.887	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
150	3.562	2.447	1.927	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
155	3.634	2.508	1.968	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
160	3.707	2.569	2.008	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
165	3.780	2.630	2.049	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
170	3.853	2.691	2.089	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
175	3.926	2.752	2.129	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
180	3.999	2.813	2.170	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
185	4.072	2.874	2.210	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
190	4.145	2.935	2.251	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
195	4.218	2.996	2.291	1.866	1.851	1.851	1.851	1.851	1.851	1.851	1.851
200	4.291	3.057	2.331	1.912	1.851	1.851	1.851	1.851	1.851	1.851	1.851
205	4.364	3.118	2.372	1.958	1.851	1.851	1.851	1.851	1.851	1.851	1.851
210	4.436	3.179	2.412	2.004	1.851	1.851	1.851	1.851	1.851	1.851	1.851
215	4.509	3.240	2.453	2.050	1.851	1.851	1.851	1.851	1.851	1.851	1.851
220	4.582	3.301	2.493	2.096	1.851	1.851	1.851	1.851	1.851	1.851	1.851
225	4.645	3.360	2.533	2.142	1.851	1.851	1.851	1.851	1.851	1.851	1.851
230	4.708	3.411	2.574	2.188	1.851	1.851	1.851	1.851	1.851	1.851	1.851
235	4.770	3.462	2.614	2.234	1.851	1.851	1.851	1.851	1.851	1.851	1.851
240	4.832	3.513	2.655	2.280	1.851	1.851	1.851	1.851	1.851	1.851	1.851
245	4.894	3.563	2.695	2.326	1.851	1.851	1.851	1.851	1.851	1.851	1.851
250	4.956	3.614	2.735	2.372	1.851	1.851	1.851	1.851	1.851	1.851	1.851
255	5.018	3.665	2.776	2.418	1.883	1.851	1.851	1.851	1.851	1.851	1.851
260	5.080	3.716	2.816	2.465	1.933	1.851	1.851	1.851	1.851	1.851	1.851
265	5.142	3.766	2.857	2.511	1.982	1.851	1.851	1.851	1.851	1.851	1.851
270	5.204	3.817	2.897	2.557	2.032	1.862	1.851	1.851	1.851	1.851	1.851
275	5.267	3.868	2.938	2.603	2.082	1.910	1.851	1.851	1.851	1.851	1.851
280	5.329	3.919	2.978	2.649	2.131	1.957	1.851	1.851	1.851	1.851	1.851
285	5.391	3.969	3.018	2.695	2.181	2.005	1.864	1.851	1.851	1.851	1.851
290	5.453	4.020	3.059	2.741	2.230	2.053	1.907	1.851	1.851	1.851	1.851
295	5.515	4.071	3.099	2.787	2.280	2.100	1.951	1.851	1.851	1.851	1.851
300	5.577	4.122	3.140	2.833	2.329	2.148	1.995	1.851	1.851	1.851	1.851
305	5.639	4.172	3.180	2.879	2.379	2.196	2.038	1.851	1.851	1.851	1.851
310	5.701	4.223	3.220	2.925	2.429	2.243	2.082	1.869	1.851	1.851	1.851
315	5.766	4.274	3.261	2.971	2.478	2.291	2.126	1.913	1.851	1.851	1.851
320	5.882	4.325	3.301	3.017	2.528	2.339	2.169	1.957	1.851	1.851	1.851
325	5.997	4.375	3.342	3.063	2.577	2.386	2.213	2.001	1.851	1.851	1.851
330	6.112	4.426	3.403	3.109	2.627	2.434	2.257	2.045	1.851	1.851	1.851

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 8.591 mm.

Section Factor m ⁻¹	Table 11: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 60 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	3.590	2.580	2.035	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
95	3.751	2.690	2.110	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
100	3.913	2.800	2.184	1.851	1.851	1.851	1.851	1.851	1.851	1.851	1.851
105	4.075	2.910	2.258	1.867	1.851	1.851	1.851	1.851	1.851	1.851	1.851
110	4.236	3.020	2.333	1.933	1.851	1.851	1.851	1.851	1.851	1.851	1.851
115	4.398	3.130	2.407	1.998	1.851	1.851	1.851	1.851	1.851	1.851	1.851
120	4.559	3.240	2.482	2.064	1.851	1.851	1.851	1.851	1.851	1.851	1.851
125	4.725	3.350	2.556	2.130	1.851	1.851	1.851	1.851	1.851	1.851	1.851
130	4.891	3.437	2.631	2.195	1.857	1.851	1.851	1.851	1.851	1.851	1.851
135	5.058	3.524	2.705	2.261	1.905	1.851	1.851	1.851	1.851	1.851	1.851
140	5.225	3.611	2.779	2.327	1.954	1.851	1.851	1.851	1.851	1.851	1.851
145	5.391	3.699	2.854	2.393	2.003	1.856	1.851	1.851	1.851	1.851	1.851
150	5.558	3.786	2.928	2.458	2.052	1.901	1.851	1.851	1.851	1.851	1.851
155	5.724	3.873	3.003	2.524	2.100	1.947	1.851	1.851	1.851	1.851	1.851
160	5.830	3.960	3.077	2.590	2.149	1.992	1.876	1.851	1.851	1.851	1.851
165	5.919	4.047	3.152	2.655	2.198	2.037	1.919	1.851	1.851	1.851	1.851
170	6.007	4.134	3.226	2.721	2.246	2.083	1.963	1.851	1.851	1.851	1.851
175	6.096	4.221	3.300	2.787	2.295	2.128	2.006	1.851	1.851	1.851	1.851
180	6.185	4.308	3.367	2.852	2.344	2.173	2.050	1.851	1.851	1.851	1.851
185	6.274	4.395	3.414	2.918	2.392	2.218	2.094	1.851	1.851	1.851	1.851
190	6.363	4.482	3.461	2.984	2.441	2.264	2.137	1.889	1.851	1.851	1.851
195	6.452	4.569	3.508	3.050	2.490	2.309	2.181	1.937	1.851	1.851	1.851
200	6.541	4.639	3.556	3.115	2.539	2.354	2.224	1.985	1.851	1.851	1.851
205	6.629	4.703	3.603	3.181	2.587	2.400	2.268	2.032	1.851	1.851	1.851
210	6.718	4.767	3.650	3.247	2.636	2.445	2.312	2.080	1.851	1.851	1.851
215	6.807	4.832	3.698	3.312	2.685	2.490	2.355	2.128	1.851	1.851	1.851
220	6.896	4.896	3.745	3.371	2.733	2.535	2.399	2.175	1.851	1.851	1.851
225	6.985	4.961	3.792	3.417	2.782	2.581	2.442	2.223	1.851	1.851	1.851
230	7.074	5.025	3.840	3.464	2.831	2.626	2.486	2.271	1.851	1.851	1.851
235	7.169	5.089	3.887	3.510	2.879	2.671	2.530	2.318	1.851	1.851	1.851
240	7.263	5.154	3.934	3.557	2.928	2.717	2.573	2.366	1.863	1.851	1.851
245	7.357	5.218	3.982	3.604	2.977	2.762	2.617	2.414	1.926	1.851	1.851
250	7.452	5.282	4.029	3.650	3.026	2.807	2.660	2.461	1.989	1.851	1.851
255	7.546	5.347	4.076	3.697	3.074	2.852	2.704	2.509	2.053	1.851	1.851
260	7.640	5.411	4.124	3.743	3.123	2.898	2.748	2.557	2.116	1.851	1.851
265	7.735	5.475	4.171	3.790	3.172	2.943	2.791	2.604	2.179	1.851	1.851
270	7.829	5.540	4.218	3.837	3.220	2.988	2.835	2.652	2.242	1.851	1.851
275	7.923	5.604	4.266	3.883	3.269	3.034	2.878	2.700	2.305	1.915	1.851
280	8.018	5.668	4.313	3.930	3.318	3.079	2.922	2.747	2.368	1.984	1.851
285	8.112	5.733	4.360	3.977	3.369	3.124	2.966	2.795	2.431	2.054	1.851
290	8.206	5.849	4.408	4.023	3.428	3.169	3.009	2.843	2.494	2.123	1.851
295	8.301	6.003	4.455	4.070	3.486	3.215	3.053	2.890	2.557	2.192	1.851
300	8.395	6.157	4.502	4.116	3.544	3.260	3.096	2.938	2.620	2.261	1.851
305	8.489	6.311	4.550	4.163	3.602	3.305	3.140	2.986	2.683	2.331	1.851
310	8.584	6.465	4.616	4.210	3.661	3.351	3.184	3.034	2.746	2.400	1.923
315	8.678	6.619	4.797	4.256	3.719	3.412	3.227	3.081	2.809	2.469	1.994
320	8.772	6.773	4.977	4.303	3.777	3.474	3.271	3.129	2.872	2.539	2.066
325	8.867	6.927	5.158	4.349	3.835	3.535	3.315	3.177	2.935	2.608	2.137
330	8.961	7.084	5.338	4.396	3.893	3.597	3.361	3.224	2.998	2.677	2.208

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 8.591 mm.

Section Factor m ⁻¹	Table 12: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 75 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	5.271	3.552	2.739	2.314	1.968	1.851	1.851	1.851	1.851	1.851	1.851
95	5.488	3.711	2.852	2.416	2.052	1.917	1.851	1.851	1.851	1.851	1.851
100	5.704	3.871	2.966	2.519	2.135	1.993	1.911	1.851	1.851	1.851	1.851
105	5.920	4.031	3.080	2.622	2.218	2.069	1.975	1.866	1.851	1.851	1.851
110	6.118	4.190	3.193	2.724	2.302	2.144	2.039	1.925	1.851	1.851	1.851
115	6.316	4.350	3.307	2.827	2.385	2.220	2.103	1.985	1.874	1.851	1.851
120	6.514	4.510	3.428	2.930	2.469	2.296	2.167	2.044	1.928	1.851	1.851
125	6.712	4.687	3.553	3.033	2.552	2.371	2.232	2.103	1.982	1.851	1.851
130	6.909	4.881	3.679	3.135	2.636	2.447	2.296	2.163	2.035	1.851	1.851
135	7.084	5.076	3.805	3.238	2.719	2.523	2.360	2.222	2.089	1.851	1.851
140	7.183	5.270	3.930	3.341	2.802	2.599	2.424	2.281	2.143	1.887	1.851
145	7.282	5.465	4.056	3.415	2.886	2.674	2.488	2.341	2.197	1.941	1.851
150	7.380	5.659	4.182	3.486	2.969	2.750	2.552	2.400	2.251	1.994	1.851
155	7.479	5.824	4.308	3.556	3.053	2.826	2.616	2.459	2.305	2.048	1.851
160	7.577	5.958	4.433	3.627	3.136	2.901	2.680	2.519	2.359	2.102	1.851
165	7.676	6.092	4.559	3.697	3.219	2.977	2.745	2.578	2.413	2.155	1.851
170	7.775	6.226	4.693	3.768	3.303	3.053	2.809	2.637	2.467	2.209	1.851
175	7.873	6.360	4.829	3.839	3.371	3.128	2.873	2.697	2.520	2.263	1.851
180	7.972	6.494	4.965	3.909	3.417	3.204	2.937	2.756	2.574	2.317	1.851
185	8.071	6.628	5.101	3.980	3.463	3.280	3.001	2.815	2.628	2.370	1.874
190	8.169	6.762	5.237	4.050	3.509	3.354	3.065	2.875	2.682	2.424	1.935
195	8.268	6.896	5.373	4.121	3.555	3.401	3.129	2.934	2.736	2.478	1.996
200	8.366	7.030	5.509	4.192	3.601	3.447	3.193	2.993	2.790	2.531	2.057
205	8.465	7.130	5.645	4.262	3.647	3.494	3.258	3.053	2.844	2.585	2.119
210	8.564	7.220	5.775	4.333	3.693	3.541	3.322	3.112	2.898	2.639	2.180
215	8.662	7.310	5.869	4.404	3.740	3.587	3.378	3.171	2.952	2.692	2.241
220	8.761	7.399	5.963	4.474	3.786	3.634	3.428	3.231	3.005	2.746	2.303
225	8.859	7.489	6.057	4.545	3.832	3.681	3.477	3.290	3.059	2.800	2.364
230	8.958	7.578	6.151	4.615	3.878	3.727	3.527	3.349	3.113	2.854	2.425
235	9.057	7.668	6.245	4.683	3.924	3.774	3.577	3.403	3.167	2.907	2.487
240	9.155	7.758	6.339	4.751	3.970	3.821	3.626	3.457	3.221	2.961	2.548
245	-	7.847	6.434	4.819	4.016	3.867	3.676	3.510	3.275	3.015	2.609
250	-	7.937	6.528	4.888	4.062	3.914	3.725	3.563	3.329	3.068	2.671
255	-	8.027	6.622	4.956	4.108	3.961	3.775	3.617	3.386	3.122	2.732
260	-	8.116	6.716	5.024	4.154	4.007	3.824	3.670	3.446	3.176	2.793
265	-	8.206	6.810	5.092	4.200	4.054	3.874	3.724	3.506	3.229	2.854
270	-	8.295	6.904	5.160	4.246	4.101	3.924	3.777	3.565	3.283	2.916
275	-	8.385	6.998	5.229	4.293	4.147	3.973	3.831	3.625	3.337	2.977
280	-	8.475	7.118	5.297	4.339	4.194	4.023	3.884	3.685	3.390	3.038
285	-	8.564	7.289	5.365	4.385	4.240	4.072	3.937	3.745	3.444	3.100
290	-	8.654	7.461	5.433	4.431	4.287	4.122	3.991	3.805	3.497	3.161
295	-	8.744	7.632	5.502	4.477	4.334	4.172	4.044	3.864	3.551	3.222
300	-	8.833	7.804	5.570	4.523	4.380	4.221	4.098	3.924	3.604	3.284
305	-	8.923	7.975	5.638	4.569	4.427	4.271	4.151	3.984	3.657	3.345
310	-	9.012	8.147	5.706	4.672	4.474	4.320	4.205	4.044	3.711	3.397
315	-	9.102	8.319	5.847	4.822	4.520	4.370	4.258	4.104	3.764	3.448
320	-	-	8.490	6.254	4.973	4.567	4.420	4.311	4.164	3.818	3.499
325	-	-	8.662	6.662	5.123	4.664	4.469	4.365	4.223	3.871	3.550
330	-	-	8.833	7.067	5.273	4.809	4.519	4.418	4.283	3.924	3.601

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 8.591 mm.

Section Factor m ⁻¹	Table 13: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 90 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	4.848	3.647	2.959	2.552	2.396	2.288	2.174	2.057	1.930	1.851
95	-	5.169	3.867	3.105	2.668	2.502	2.380	2.260	2.134	2.002	1.885
100	-	5.490	4.087	3.250	2.784	2.609	2.472	2.347	2.211	2.073	1.952
105	-	5.811	4.307	3.395	2.900	2.716	2.564	2.434	2.288	2.144	2.019
110	-	6.030	4.527	3.559	3.016	2.822	2.656	2.520	2.365	2.216	2.086
115	-	6.248	4.820	3.723	3.132	2.929	2.749	2.607	2.442	2.287	2.152
120	-	6.467	5.141	3.887	3.248	3.036	2.841	2.693	2.518	2.358	2.219
125	-	6.686	5.462	4.050	3.363	3.142	2.933	2.780	2.595	2.430	2.286
130	-	6.905	5.771	4.214	3.472	3.249	3.025	2.866	2.672	2.501	2.353
135	-	7.090	5.920	4.378	3.580	3.355	3.117	2.953	2.749	2.573	2.420
140	-	7.188	6.069	4.542	3.688	3.443	3.210	3.039	2.826	2.644	2.486
145	-	7.286	6.218	4.695	3.797	3.532	3.302	3.126	2.903	2.715	2.553
150	-	7.384	6.367	4.845	3.905	3.620	3.386	3.213	2.980	2.787	2.620
155	-	7.482	6.516	4.995	4.013	3.709	3.460	3.299	3.057	2.858	2.687
160	-	7.580	6.665	5.145	4.122	3.797	3.535	3.378	3.133	2.929	2.754
165	-	7.679	6.814	5.294	4.230	3.885	3.609	3.443	3.210	3.001	2.820
170	-	7.777	6.963	5.444	4.339	3.974	3.684	3.509	3.287	3.072	2.887
175	-	7.875	7.096	5.594	4.447	4.062	3.758	3.575	3.362	3.144	2.954
180	-	7.973	7.196	5.743	4.555	4.151	3.832	3.641	3.427	3.215	3.021
185	-	8.071	7.297	5.884	4.654	4.239	3.907	3.707	3.493	3.286	3.088
190	-	8.169	7.398	6.024	4.748	4.328	3.981	3.773	3.558	3.356	3.154
195	-	8.268	7.499	6.164	4.841	4.416	4.056	3.839	3.623	3.404	3.221
200	-	8.366	7.600	6.303	4.935	4.505	4.130	3.905	3.688	3.453	3.288
205	-	8.464	7.700	6.443	5.029	4.592	4.204	3.971	3.754	3.501	3.354
210	-	8.562	7.801	6.583	5.123	4.664	4.279	4.037	3.819	3.550	3.400
215	-	8.660	7.902	6.723	5.217	4.735	4.353	4.102	3.884	3.598	3.445
220	-	8.758	8.003	6.862	5.311	4.807	4.428	4.168	3.949	3.647	3.491
225	-	8.857	8.103	7.002	5.405	4.879	4.502	4.234	4.015	3.695	3.537
230	-	8.955	8.204	7.132	5.499	4.950	4.576	4.300	4.080	3.744	3.582
235	-	9.053	8.305	7.254	5.592	5.022	4.648	4.366	4.145	3.792	3.628
240	-	9.151	8.406	7.376	5.686	5.093	4.720	4.432	4.210	3.841	3.674
245	-	-	8.506	7.498	5.783	5.165	4.791	4.498	4.276	3.889	3.719
250	-	-	8.607	7.620	5.889	5.236	4.863	4.564	4.341	3.938	3.765
255	-	-	8.708	7.743	5.996	5.308	4.934	4.639	4.406	3.986	3.811
260	-	-	8.809	7.865	6.102	5.379	5.006	4.720	4.471	4.035	3.856
265	-	-	8.909	7.987	6.208	5.451	5.077	4.801	4.537	4.083	3.902
270	-	-	9.010	8.109	6.315	5.522	5.149	4.882	4.605	4.131	3.948
275	-	-	9.111	8.231	6.421	5.594	5.220	4.963	4.685	4.180	3.993
280	-	-	-	8.353	6.528	5.665	5.292	5.044	4.765	4.228	4.039
285	-	-	-	8.476	6.634	5.737	5.364	5.125	4.846	4.277	4.085
290	-	-	-	8.598	6.740	5.888	5.435	5.207	4.926	4.325	4.130
295	-	-	-	8.720	6.847	6.078	5.507	5.288	5.006	4.374	4.176
300	-	-	-	8.842	6.953	6.269	5.578	5.369	5.087	4.422	4.222
305	-	-	-	8.964	7.059	6.460	5.650	5.450	5.167	4.471	4.267
310	-	-	-	9.086	7.424	6.650	5.721	5.531	5.247	4.519	4.313
315	-	-	-	-	7.794	6.841	5.893	5.612	5.328	4.568	4.359
320	-	-	-	-	8.165	7.031	6.184	5.693	5.408	4.653	4.404
325	-	-	-	-	8.535	7.374	6.476	5.797	5.488	4.770	4.450
330	-	-	-	-	8.906	7.747	6.768	6.008	5.569	4.886	4.496

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 8.591 mm.

Section Factor m ⁻¹	Table 14: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 105 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	6.837	5.598	3.930	3.104	2.945	2.794	2.662	2.486	2.334	2.220
95	-	6.949	5.802	4.204	3.304	3.085	2.914	2.775	2.586	2.428	2.309
100	-	7.062	6.006	4.477	3.505	3.225	3.034	2.889	2.687	2.522	2.398
105	-	7.175	6.210	4.750	3.706	3.365	3.154	3.003	2.788	2.616	2.487
110	-	7.287	6.414	5.058	3.906	3.539	3.274	3.116	2.888	2.710	2.576
115	-	7.400	6.618	5.366	4.107	3.713	3.405	3.230	2.989	2.804	2.665
120	-	7.513	6.821	5.674	4.308	3.887	3.553	3.344	3.089	2.898	2.755
125	-	7.626	7.025	5.888	4.508	4.061	3.701	3.468	3.190	2.992	2.844
130	-	7.738	7.149	6.067	4.728	4.235	3.850	3.592	3.290	3.085	2.933
135	-	7.851	7.255	6.245	4.961	4.409	3.998	3.716	3.403	3.179	3.022
140	-	7.964	7.361	6.423	5.194	4.583	4.147	3.841	3.535	3.273	3.111
145	-	8.076	7.467	6.602	5.427	4.768	4.295	3.965	3.668	3.367	3.200
150	-	8.189	7.573	6.780	5.660	4.954	4.443	4.090	3.800	3.457	3.289
155	-	8.302	7.679	6.958	5.840	5.140	4.592	4.214	3.932	3.547	3.372
160	-	8.415	7.785	7.108	5.980	5.325	4.736	4.339	4.065	3.638	3.440
165	-	8.527	7.891	7.217	6.121	5.511	4.880	4.463	4.197	3.728	3.509
170	-	8.640	7.997	7.326	6.261	5.697	5.024	4.588	4.329	3.819	3.577
175	-	8.753	8.103	7.436	6.401	5.842	5.168	4.708	4.462	3.909	3.645
180	-	8.865	8.209	7.545	6.541	5.967	5.312	4.828	4.592	3.999	3.713
185	-	8.978	8.315	7.654	6.681	6.092	5.456	4.948	4.669	4.090	3.781
190	-	9.091	8.421	7.763	6.822	6.217	5.600	5.069	4.746	4.180	3.849
195	-	-	8.527	7.873	6.962	6.342	5.744	5.189	4.822	4.271	3.917
200	-	-	8.633	7.982	7.097	6.467	5.866	5.309	4.899	4.361	3.985
205	-	-	8.739	8.091	7.219	6.592	5.985	5.429	4.976	4.452	4.054
210	-	-	8.845	8.201	7.341	6.717	6.104	5.550	5.052	4.542	4.122
215	-	-	8.951	8.310	7.462	6.842	6.223	5.670	5.129	4.619	4.190
220	-	-	9.057	8.419	7.584	6.967	6.342	5.781	5.206	4.680	4.258
225	-	-	-	8.529	7.706	7.095	6.461	5.865	5.282	4.741	4.326
230	-	-	-	8.638	7.828	7.230	6.580	5.950	5.359	4.802	4.394
235	-	-	-	8.747	7.950	7.364	6.698	6.034	5.436	4.863	4.462
240	-	-	-	8.856	8.072	7.499	6.817	6.118	5.512	4.924	4.530
245	-	-	-	8.966	8.194	7.634	6.936	6.202	5.589	4.985	4.599
250	-	-	-	9.075	8.316	7.769	7.055	6.287	5.666	5.046	4.673
255	-	-	-	-	8.438	7.904	7.213	6.371	5.743	5.107	4.748
260	-	-	-	-	8.560	8.038	7.374	6.455	5.845	5.168	4.822
265	-	-	-	-	8.681	8.173	7.534	6.539	5.954	5.229	4.896
270	-	-	-	-	8.803	8.308	7.694	6.623	6.064	5.290	4.971
275	-	-	-	-	8.925	8.443	7.854	6.708	6.173	5.351	5.045
280	-	-	-	-	9.047	8.578	8.015	6.792	6.283	5.412	5.119
285	-	-	-	-	-	8.713	8.175	6.876	6.393	5.473	5.194
290	-	-	-	-	-	8.847	8.335	6.960	6.502	5.534	5.268
295	-	-	-	-	-	8.982	8.496	7.045	6.612	5.595	5.342
300	-	-	-	-	-	9.117	8.656	7.588	6.722	5.656	5.416
305	-	-	-	-	-	-	8.816	8.250	6.831	5.717	5.491
310	-	-	-	-	-	-	8.977	8.913	6.941	6.154	5.565
315	-	-	-	-	-	-	9.137	-	7.476	7.476	5.639
320	-	-	-	-	-	-	-	-	-	8.799	5.714
325	-	-	-	-	-	-	-	-	-	-	6.036
330	-	-	-	-	-	-	-	-	-	-	6.769

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 8.591 mm.

Section Factor m ⁻¹	Table 15: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 120 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	-	7.132	5.675	3.956	3.385	3.385	3.104	2.740	2.740	2.621
95	-	-	7.232	5.898	4.391	3.611	3.611	3.298	2.856	2.856	2.733
100	-	-	7.332	6.122	4.827	3.837	3.837	3.492	2.972	2.972	2.844
105	-	-	7.432	6.346	5.263	4.273	4.063	3.686	3.162	3.088	2.955
110	-	-	7.532	6.569	5.698	4.842	4.289	3.880	3.458	3.204	3.067
115	-	-	7.631	6.793	5.918	5.208	4.516	4.073	3.683	3.321	3.178
120	-	-	7.731	7.016	6.101	5.575	4.790	4.267	3.909	3.477	3.290
125	-	-	7.831	7.153	6.285	5.843	5.088	4.461	4.134	3.649	3.418
130	-	-	7.931	7.267	6.469	6.012	5.385	4.677	4.359	3.820	3.567
135	-	-	8.031	7.382	6.653	6.181	5.683	4.938	4.584	3.992	3.717
140	-	-	8.130	7.496	6.837	6.350	5.882	5.198	4.760	4.164	3.866
145	-	-	8.230	7.610	7.020	6.519	6.047	5.459	4.935	4.335	4.016
150	-	-	8.330	7.724	7.151	6.688	6.211	5.719	5.110	4.507	4.165
155	-	-	8.430	7.839	7.265	6.857	6.376	5.876	5.284	4.662	4.315
160	-	-	8.530	7.953	7.379	7.025	6.540	6.014	5.459	4.802	4.464
165	-	-	8.630	8.067	7.494	7.153	6.705	6.152	5.634	4.942	4.606
170	-	-	8.729	8.182	7.608	7.268	6.869	6.290	5.795	5.083	4.709
175	-	-	8.829	8.296	7.723	7.384	7.034	6.428	5.923	5.223	4.812
180	-	-	8.929	8.410	7.837	7.499	7.160	6.566	6.051	5.363	4.914
185	-	-	9.029	8.525	7.951	7.615	7.278	6.703	6.178	5.503	5.017
190	-	-	9.129	8.639	8.066	7.730	7.396	6.841	6.306	5.643	5.120
195	-	-	-	8.753	8.180	7.846	7.514	6.979	6.434	5.773	5.223
200	-	-	-	8.867	8.295	7.961	7.632	7.121	6.562	5.994	5.325
205	-	-	-	8.982	8.409	8.077	7.750	7.269	6.689	6.194	5.428
210	-	-	-	9.096	8.523	8.193	7.868	7.418	6.817	6.394	5.531
215	-	-	-	-	8.638	8.308	7.986	7.566	6.945	6.595	5.633
220	-	-	-	-	8.752	8.424	8.104	7.714	7.077	6.795	5.736
225	-	-	-	-	8.867	8.539	8.222	7.862	7.266	6.995	5.923
230	-	-	-	-	8.981	8.655	8.340	8.010	7.454	7.196	6.135
235	-	-	-	-	9.095	8.770	8.457	8.159	7.642	7.396	6.348
240	-	-	-	-	-	8.886	8.575	8.307	7.831	7.597	6.561
245	-	-	-	-	-	9.002	8.693	8.455	8.019	7.797	6.773
250	-	-	-	-	-	9.117	8.811	8.603	8.207	7.997	6.986
255	-	-	-	-	-	-	8.929	8.751	8.396	8.198	7.199
260	-	-	-	-	-	-	9.047	8.900	8.584	8.398	7.411
265	-	-	-	-	-	-	-	9.048	8.773	8.598	7.624
270	-	-	-	-	-	-	-	-	8.961	8.799	7.836
275	-	-	-	-	-	-	-	-	9.149	8.999	8.049
280	-	-	-	-	-	-	-	-	-	-	8.262
285	-	-	-	-	-	-	-	-	-	-	8.474
290	-	-	-	-	-	-	-	-	-	-	8.687
295	-	-	-	-	-	-	-	-	-	-	8.899
300	-	-	-	-	-	-	-	-	-	-	9.112
305	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-

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 8.591 mm.

Section Factor m ⁻¹	Table 16: FIRETEX Platinum-120 I/H Columns: Fire Resistance Period 150 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	500	550	575	600	620	650	700	750
90	-	-	-	-	-	6.470	6.014	5.628	5.165	3.999	3.999
95	-	-	-	-	-	6.682	6.272	5.876	5.443	4.325	4.325
100	-	-	-	-	-	6.894	6.530	6.124	5.721	4.652	4.652
105	-	-	-	-	-	7.106	6.788	6.372	5.999	4.979	4.979
110	-	-	-	-	-	7.230	7.046	6.620	6.259	5.895	5.305
115	-	-	-	-	-	7.353	7.174	6.868	6.519	6.134	5.632
120	-	-	-	-	-	7.477	7.293	7.089	6.779	6.372	5.973
125	-	-	-	-	-	7.601	7.413	7.212	7.039	6.611	6.323
130	-	-	-	-	-	7.725	7.532	7.336	7.171	6.850	6.674
135	-	-	-	-	-	7.849	7.651	7.459	7.291	7.076	7.025
140	-	-	-	-	-	7.973	7.771	7.583	7.411	7.205	7.158
145	-	-	-	-	-	8.097	7.890	7.706	7.530	7.334	7.265
150	-	-	-	-	-	8.220	8.010	7.829	7.650	7.463	7.373
155	-	-	-	-	-	8.344	8.129	7.953	7.770	7.592	7.480
160	-	-	-	-	-	8.468	8.248	8.076	7.889	7.721	7.588
165	-	-	-	-	-	8.592	8.368	8.200	8.009	7.850	7.695
170	-	-	-	-	-	8.716	8.487	8.323	8.129	7.979	7.803
175	-	-	-	-	-	8.840	8.606	8.446	8.248	8.108	7.910
180	-	-	-	-	-	8.964	8.726	8.570	8.368	8.237	8.017
185	-	-	-	-	-	9.087	8.845	8.693	8.488	8.366	8.125
190	-	-	-	-	-	-	8.964	8.817	8.608	8.495	8.232
195	-	-	-	-	-	-	9.084	8.940	8.727	8.623	8.340
200	-	-	-	-	-	-	-	9.064	8.847	8.752	8.447
205	-	-	-	-	-	-	-	-	8.967	8.881	8.555
210	-	-	-	-	-	-	-	-	9.086	9.010	8.662
215	-	-	-	-	-	-	-	-	-	9.139	8.769
220	-	-	-	-	-	-	-	-	-	-	8.877
225	-	-	-	-	-	-	-	-	-	-	8.984
230	-	-	-	-	-	-	-	-	-	-	9.092
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 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 8.591 mm.

Section Factor m ⁻¹	Table 17: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 15 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
70	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
75	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
80	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
85	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
90	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
95	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
100	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
105	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
110	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
115	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
120	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
125	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
130	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
135	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
140	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
145	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
150	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
155	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
160	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
165	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
170	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
175	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
180	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
185	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
190	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
195	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
200	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
205	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
210	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
215	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
220	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
225	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
230	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
235	1.848	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
240	1.889	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
245	1.930	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
250	1.971	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
255	2.012	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
260	2.053	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
265	2.094	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
270	2.135	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
275	2.176	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
280	2.217	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
285	2.258	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
290	2.299	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
295	2.340	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
300	2.381	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
305	2.422	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
310	2.463	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
315	2.504	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 18: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 30 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
70	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
75	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
80	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
85	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
90	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
95	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
100	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
105	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
110	1.957	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
115	2.103	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
120	2.249	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
125	2.395	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
130	2.542	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
135	2.688	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
140	2.834	1.863	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
145	2.980	1.979	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
150	3.127	2.095	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
155	3.273	2.211	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
160	3.329	2.327	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
165	3.363	2.442	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
170	3.396	2.558	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
175	3.429	2.674	1.883	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
180	3.463	2.790	1.978	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
185	3.496	2.905	2.073	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
190	3.529	3.021	2.169	1.879	1.813	1.813	1.813	1.813	1.813	1.813	1.813
195	3.562	3.137	2.264	1.965	1.813	1.813	1.813	1.813	1.813	1.813	1.813
200	3.596	3.253	2.360	2.051	1.813	1.813	1.813	1.813	1.813	1.813	1.813
205	3.629	3.320	2.455	2.137	1.813	1.813	1.813	1.813	1.813	1.813	1.813
210	3.662	3.349	2.551	2.223	1.813	1.813	1.813	1.813	1.813	1.813	1.813
215	3.695	3.378	2.646	2.308	1.856	1.813	1.813	1.813	1.813	1.813	1.813
220	3.729	3.407	2.741	2.394	1.940	1.813	1.813	1.813	1.813	1.813	1.813
225	3.762	3.437	2.837	2.480	2.025	1.813	1.813	1.813	1.813	1.813	1.813
230	3.795	3.466	2.932	2.566	2.109	1.849	1.813	1.813	1.813	1.813	1.813
235	3.829	3.495	3.028	2.652	2.194	1.933	1.813	1.813	1.813	1.813	1.813
240	3.862	3.524	3.123	2.738	2.278	2.018	1.813	1.813	1.813	1.813	1.813
245	3.895	3.553	3.219	2.824	2.363	2.102	1.813	1.813	1.813	1.813	1.813
250	3.928	3.583	3.307	2.910	2.447	2.187	1.813	1.813	1.813	1.813	1.813
255	3.962	3.612	3.337	2.995	2.532	2.271	1.860	1.813	1.813	1.813	1.813
260	3.995	3.641	3.368	3.081	2.616	2.355	1.945	1.813	1.813	1.813	1.813
265	4.028	3.670	3.398	3.167	2.701	2.440	2.030	1.813	1.813	1.813	1.813
270	4.061	3.700	3.429	3.253	2.785	2.524	2.115	1.813	1.813	1.813	1.813
275	4.095	3.729	3.459	3.318	2.870	2.608	2.200	1.813	1.813	1.813	1.813
280	4.146	3.758	3.490	3.353	2.954	2.693	2.285	1.813	1.813	1.813	1.813
285	4.199	3.787	3.520	3.388	3.039	2.777	2.370	1.813	1.813	1.813	1.813
290	4.251	3.817	3.551	3.423	3.123	2.862	2.455	1.813	1.813	1.813	1.813
295	4.304	3.846	3.581	3.458	3.208	2.946	2.540	1.813	1.813	1.813	1.813
300	4.357	3.875	3.612	3.493	3.292	3.030	2.625	1.813	1.813	1.813	1.813
305	4.410	3.904	3.642	3.528	3.334	3.115	2.710	1.891	1.813	1.813	1.813
310	4.463	3.934	3.673	3.563	3.370	3.199	2.795	1.973	1.813	1.813	1.813
315	4.516	3.963	3.703	3.598	3.406	3.283	2.881	2.055	1.813	1.813	1.813

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 19: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 45 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
70	1.959	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
75	2.323	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
80	2.688	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
85	3.052	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
90	3.338	2.141	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
95	3.448	2.472	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
100	3.559	2.803	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
105	3.670	3.135	1.960	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
110	3.780	3.337	2.269	1.815	1.813	1.813	1.813	1.813	1.813	1.813	1.813
115	3.891	3.407	2.579	2.110	1.813	1.813	1.813	1.813	1.813	1.813	1.813
120	4.002	3.477	2.889	2.404	1.813	1.813	1.813	1.813	1.813	1.813	1.813
125	4.107	3.547	3.199	2.698	1.970	1.813	1.813	1.813	1.813	1.813	1.813
130	4.180	3.617	3.337	2.992	2.252	1.813	1.813	1.813	1.813	1.813	1.813
135	4.253	3.687	3.388	3.286	2.534	2.028	1.813	1.813	1.813	1.813	1.813
140	4.326	3.757	3.440	3.352	2.816	2.296	1.813	1.813	1.813	1.813	1.813
145	4.399	3.827	3.491	3.404	3.098	2.565	1.813	1.813	1.813	1.813	1.813
150	4.472	3.897	3.542	3.456	3.315	2.833	2.046	1.813	1.813	1.813	1.813
155	4.545	3.967	3.593	3.508	3.359	3.102	2.302	1.813	1.813	1.813	1.813
160	4.617	4.037	3.645	3.559	3.403	3.312	2.558	1.813	1.813	1.813	1.813
165	4.690	4.103	3.696	3.611	3.447	3.346	2.814	1.813	1.813	1.813	1.813
170	4.763	4.142	3.747	3.663	3.491	3.381	3.069	1.813	1.813	1.813	1.813
175	4.836	4.180	3.798	3.715	3.535	3.416	3.306	1.813	1.813	1.813	1.813
180	4.909	4.219	3.850	3.767	3.579	3.450	3.338	2.025	1.813	1.813	1.813
185	4.982	4.258	3.901	3.819	3.623	3.485	3.370	2.242	1.813	1.813	1.813
190	5.055	4.296	3.952	3.871	3.667	3.520	3.402	2.459	1.813	1.813	1.813
195	5.128	4.335	4.004	3.923	3.711	3.554	3.434	2.676	1.997	1.813	1.813
200	5.189	4.373	4.055	3.975	3.755	3.589	3.465	2.893	2.209	1.813	1.813
205	5.242	4.412	4.105	4.026	3.799	3.624	3.497	3.110	2.422	1.813	1.813
210	5.296	4.451	4.147	4.078	3.843	3.658	3.529	3.307	2.635	1.813	1.813
215	5.350	4.489	4.189	4.123	3.887	3.693	3.561	3.339	2.848	1.813	1.813
220	5.403	4.528	4.231	4.164	3.931	3.728	3.593	3.372	3.061	1.909	1.813
225	5.457	4.566	4.273	4.205	3.975	3.762	3.625	3.404	3.273	2.103	1.813
230	5.510	4.605	4.316	4.246	4.019	3.797	3.657	3.437	3.331	2.296	1.813
235	5.564	4.644	4.358	4.287	4.063	3.831	3.689	3.469	3.364	2.490	1.813
240	5.618	4.682	4.400	4.328	4.107	3.866	3.721	3.502	3.397	2.684	1.813
245	5.671	4.721	4.442	4.369	4.151	3.901	3.753	3.534	3.429	2.878	1.813
250	5.725	4.759	4.484	4.410	4.195	3.935	3.785	3.567	3.462	3.071	1.813
255	5.778	4.798	4.527	4.451	4.239	3.970	3.817	3.599	3.495	3.265	1.813
260	5.832	4.837	4.569	4.492	4.283	4.005	3.849	3.632	3.528	3.330	1.842
265	5.886	4.875	4.611	4.533	4.327	4.039	3.881	3.664	3.560	3.364	1.985
270	5.939	4.914	4.653	4.574	4.371	4.074	3.913	3.697	3.593	3.398	2.128
275	5.993	4.953	4.695	4.615	4.415	4.115	3.945	3.729	3.626	3.432	2.271
280	6.047	4.991	4.738	4.656	4.459	4.168	3.977	3.762	3.659	3.465	2.414
285	6.100	5.030	4.780	4.696	4.503	4.222	4.009	3.794	3.691	3.499	2.557
290	6.154	5.068	4.822	4.737	4.547	4.275	4.040	3.827	3.724	3.533	2.701
295	6.207	5.107	4.864	4.778	4.591	4.329	4.072	3.859	3.757	3.567	2.844
300	6.261	5.146	4.906	4.819	4.635	4.383	4.109	3.892	3.790	3.601	2.987
305	6.315	5.247	4.948	4.860	4.679	4.436	4.165	3.924	3.822	3.634	3.130
310	6.411	5.373	4.991	4.901	4.723	4.490	4.221	3.957	3.855	3.668	3.273
315	6.524	5.498	5.033	4.942	4.767	4.543	4.277	3.989	3.888	3.702	3.329

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 20: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 60 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	3.474	2.322	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
70	3.678	2.917	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
75	3.882	3.354	2.041	1.813	1.813	1.813	1.813	1.813	1.813	1.813	1.813
80	4.086	3.501	2.678	2.066	1.813	1.813	1.813	1.813	1.813	1.813	1.813
85	4.254	3.648	3.305	2.688	1.813	1.813	1.813	1.813	1.813	1.813	1.813
90	4.421	3.794	3.419	3.305	2.348	1.813	1.813	1.813	1.813	1.813	1.813
95	4.587	3.941	3.533	3.419	2.981	2.294	1.813	1.813	1.813	1.813	1.813
100	4.754	4.088	3.648	3.533	3.352	2.923	1.868	1.813	1.813	1.813	1.813
105	4.920	4.192	3.762	3.648	3.451	3.336	2.502	1.813	1.813	1.813	1.813
110	5.086	4.293	3.876	3.762	3.551	3.418	3.135	1.813	1.813	1.813	1.813
115	5.262	4.394	3.990	3.877	3.650	3.501	3.355	1.813	1.813	1.813	1.813
120	5.444	4.495	4.102	3.991	3.750	3.583	3.426	2.325	1.813	1.813	1.813
125	5.626	4.596	4.179	4.103	3.849	3.666	3.498	2.940	1.967	1.813	1.813
130	5.808	4.697	4.256	4.169	3.949	3.749	3.569	3.326	2.619	1.813	1.813
135	5.990	4.799	4.333	4.235	4.048	3.831	3.640	3.381	3.270	1.813	1.813
140	6.172	4.900	4.410	4.301	4.126	3.914	3.711	3.437	3.350	2.183	1.813
145	6.339	5.001	4.486	4.368	4.183	3.996	3.782	3.492	3.400	2.867	1.813
150	6.407	5.102	4.563	4.434	4.240	4.079	3.854	3.548	3.449	3.318	1.813
155	6.474	5.215	4.640	4.500	4.296	4.139	3.925	3.603	3.499	3.360	1.813
160	6.542	5.342	4.717	4.567	4.353	4.192	3.996	3.659	3.549	3.402	1.813
165	6.609	5.469	4.794	4.633	4.410	4.245	4.067	3.714	3.598	3.443	1.813
170	6.677	5.597	4.871	4.699	4.466	4.298	4.123	3.770	3.648	3.485	2.150
175	6.744	5.724	4.948	4.765	4.523	4.351	4.168	3.825	3.698	3.527	2.900
180	6.812	5.851	5.025	4.832	4.580	4.404	4.213	3.881	3.747	3.569	3.318
185	6.879	5.978	5.101	4.898	4.636	4.457	4.257	3.936	3.797	3.610	3.351
190	6.947	6.105	5.183	4.964	4.693	4.511	4.302	3.992	3.847	3.652	3.384
195	7.014	6.232	5.276	5.031	4.750	4.564	4.347	4.047	3.896	3.694	3.417
200	7.082	6.346	5.369	5.097	4.806	4.617	4.391	4.102	3.946	3.736	3.450
205	7.149	6.416	5.462	5.163	4.863	4.670	4.436	4.149	3.996	3.777	3.483
210	7.217	6.485	5.555	5.225	4.920	4.723	4.481	4.196	4.045	3.819	3.516
215	7.284	6.554	5.648	5.287	4.976	4.776	4.525	4.242	4.095	3.861	3.549
220	7.352	6.624	5.741	5.350	5.033	4.829	4.570	4.289	4.144	3.903	3.582
225	7.419	6.693	5.833	5.412	5.090	4.882	4.615	4.336	4.192	3.944	3.616
230	7.487	6.762	5.926	5.474	5.146	4.935	4.659	4.382	4.241	3.986	3.649
235	7.554	6.832	6.019	5.537	5.216	4.989	4.704	4.429	4.290	4.028	3.682
240	7.622	6.901	6.112	5.599	5.289	5.042	4.749	4.476	4.338	4.070	3.715
245	7.689	6.970	6.205	5.661	5.362	5.095	4.793	4.523	4.387	4.115	3.748
250	7.757	7.040	6.298	5.723	5.435	5.148	4.838	4.569	4.436	4.168	3.781
255	7.824	7.109	6.386	5.786	5.508	5.228	4.883	4.616	4.484	4.221	3.814
260	7.892	7.178	6.472	5.848	5.581	5.312	4.928	4.663	4.533	4.275	3.847
265	7.959	7.248	6.557	5.910	5.654	5.397	4.972	4.709	4.582	4.328	3.880
270	8.027	7.317	6.642	5.973	5.727	5.481	5.017	4.756	4.630	4.381	3.913
275	8.094	7.386	6.728	6.035	5.800	5.566	5.062	4.803	4.679	4.434	3.946
280	8.162	7.456	6.813	6.097	5.873	5.650	5.106	4.849	4.728	4.488	3.979
285	8.230	7.525	6.899	6.159	5.946	5.734	5.151	4.896	4.776	4.541	4.012
290	8.297	7.594	6.984	6.222	6.019	5.819	5.262	4.943	4.825	4.594	4.045
295	8.365	7.663	7.070	6.284	6.092	5.903	5.382	4.990	4.874	4.647	4.078
300	8.432	7.733	7.155	6.362	6.165	5.988	5.502	5.036	4.922	4.701	4.123
305	8.500	7.802	7.240	6.488	6.238	6.072	5.621	5.083	4.971	4.754	4.188
310	8.567	7.871	7.326	6.614	6.311	6.157	5.741	5.130	5.020	4.807	4.254
315	8.635	7.941	7.411	6.740	6.422	6.241	5.861	5.209	5.069	4.860	4.319

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 21: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 75 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	4.458	3.787	3.367	2.846	1.813	1.813	1.813	1.813	1.813	1.813	1.813
70	4.719	4.002	3.552	3.403	2.718	1.835	1.813	1.813	1.813	1.813	1.813
75	4.981	4.206	3.738	3.593	3.383	3.009	1.813	1.813	1.813	1.813	1.813
80	5.327	4.402	3.924	3.783	3.549	3.409	2.878	1.813	1.813	1.813	1.813
85	5.841	4.598	4.107	3.973	3.715	3.550	3.384	1.813	1.813	1.813	1.813
90	6.338	4.794	4.260	4.144	3.882	3.691	3.506	2.740	1.813	1.813	1.813
95	6.486	4.990	4.413	4.278	4.048	3.832	3.629	3.360	2.830	1.813	1.813
100	6.634	5.225	4.567	4.411	4.180	3.973	3.752	3.458	3.364	1.813	1.813
105	6.783	5.674	4.720	4.545	4.297	4.110	3.875	3.556	3.453	3.314	1.813
110	6.931	6.123	4.873	4.679	4.415	4.223	3.998	3.654	3.542	3.391	1.813
115	7.080	6.373	5.026	4.813	4.532	4.335	4.116	3.752	3.630	3.467	1.813
120	7.228	6.452	5.208	4.947	4.650	4.448	4.214	3.850	3.719	3.544	2.251
125	7.376	6.531	5.555	5.081	4.767	4.560	4.312	3.948	3.808	3.620	3.348
130	7.525	6.610	5.902	5.237	4.885	4.673	4.410	4.046	3.897	3.697	3.411
135	7.673	6.690	6.249	5.419	5.002	4.785	4.508	4.135	3.985	3.773	3.473
140	7.822	6.769	6.380	5.601	5.120	4.898	4.606	4.213	4.074	3.850	3.535
145	7.970	6.848	6.444	5.783	5.262	5.010	4.705	4.292	4.150	3.926	3.598
150	8.118	6.927	6.508	5.965	5.416	5.123	4.803	4.370	4.222	4.003	3.660
155	8.267	7.006	6.573	6.147	5.569	5.252	4.901	4.449	4.293	4.079	3.723
160	8.415	7.085	6.637	6.330	5.723	5.389	4.999	4.527	4.365	4.146	3.785
165	8.564	7.164	6.701	6.402	5.876	5.526	5.097	4.606	4.437	4.208	3.847
170	8.712	7.243	6.766	6.475	6.030	5.662	5.202	4.684	4.508	4.271	3.910
175	8.860	7.322	6.830	6.547	6.184	5.799	5.316	4.763	4.580	4.334	3.972
180	-	7.402	6.894	6.619	6.334	5.936	5.431	4.841	4.651	4.397	4.034
185	-	7.481	6.959	6.691	6.411	6.073	5.545	4.920	4.723	4.460	4.097
190	-	7.560	7.023	6.763	6.489	6.209	5.659	4.998	4.794	4.523	4.148
195	-	7.639	7.087	6.836	6.566	6.340	5.774	5.077	4.866	4.586	4.198
200	-	7.718	7.152	6.908	6.644	6.422	5.888	5.155	4.938	4.648	4.249
205	-	7.797	7.216	6.980	6.721	6.504	6.003	5.238	5.009	4.711	4.299
210	-	7.876	7.280	7.052	6.799	6.586	6.117	5.320	5.081	4.774	4.350
215	-	7.955	7.344	7.124	6.876	6.668	6.232	5.402	5.152	4.837	4.401
220	-	8.035	7.409	7.197	6.954	6.750	6.343	5.485	5.228	4.900	4.451
225	-	8.114	7.473	7.269	7.031	6.832	6.435	5.567	5.304	4.963	4.502
230	-	8.193	7.537	7.341	7.109	6.914	6.527	5.649	5.380	5.026	4.552
235	-	8.272	7.602	7.413	7.186	6.997	6.619	5.732	5.457	5.089	4.603
240	-	8.351	7.666	7.486	7.264	7.079	6.711	5.814	5.533	5.151	4.654
245	-	8.430	7.730	7.558	7.341	7.161	6.803	5.896	5.609	5.236	4.704
250	-	8.509	7.795	7.630	7.419	7.243	6.895	5.979	5.685	5.323	4.755
255	-	8.588	7.859	7.702	7.497	7.325	6.987	6.061	5.761	5.410	4.805
260	-	8.667	7.923	7.774	7.574	7.407	7.079	6.143	5.837	5.497	4.856
265	-	8.747	7.988	7.847	7.652	7.489	7.171	6.226	5.914	5.583	4.907
270	-	-	8.052	7.919	7.729	7.571	7.263	6.308	5.990	5.670	4.957
275	-	-	8.116	7.991	7.807	7.653	7.355	6.421	6.066	5.757	5.008
280	-	-	8.181	8.063	7.884	7.735	7.447	6.546	6.142	5.843	5.059
285	-	-	8.245	8.136	7.962	7.817	7.539	6.671	6.218	5.930	5.109
290	-	-	8.309	8.208	8.039	7.900	7.631	6.796	6.294	6.017	5.165
295	-	-	8.373	8.280	8.117	7.982	7.723	6.921	6.406	6.103	5.283
300	-	-	8.438	8.352	8.194	8.064	7.815	7.046	6.550	6.190	5.400
305	-	-	8.502	8.424	8.272	8.146	7.907	7.171	6.694	6.277	5.518
310	-	-	8.566	8.497	8.349	8.228	7.999	7.296	6.838	6.384	5.636
315	-	-	8.631	8.569	8.427	8.310	8.090	7.421	6.982	6.523	5.754

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 22: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 90 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	-	4.683	4.086	3.933	3.678	3.516	3.332	1.813	1.813	1.813	1.813
70	-	4.961	4.327	4.169	3.903	3.713	3.509	2.864	2.864	2.864	2.864
75	-	5.526	4.568	4.384	4.123	3.910	3.687	3.391	3.253	2.963	2.963
80	-	6.388	4.809	4.599	4.314	4.106	3.864	3.536	3.433	3.062	3.062
85	-	6.552	5.050	4.814	4.505	4.290	4.042	3.681	3.565	3.408	3.161
90	-	6.717	5.693	5.029	4.696	4.474	4.210	3.826	3.697	3.523	3.260
95	-	6.881	6.373	5.344	4.886	4.658	4.373	3.971	3.829	3.638	3.359
100	-	7.046	6.499	5.801	5.077	4.842	4.536	4.115	3.961	3.753	3.459
105	-	7.210	6.626	6.257	5.385	5.026	4.699	4.248	4.093	3.868	3.558
110	-	7.375	6.752	6.436	5.776	5.260	4.862	4.381	4.215	3.983	3.657
115	-	7.539	6.879	6.562	6.166	5.613	5.025	4.514	4.336	4.097	3.756
120	-	7.703	7.005	6.688	6.397	5.965	5.215	4.647	4.458	4.207	3.855
125	-	7.868	7.132	6.814	6.511	6.317	5.518	4.780	4.579	4.316	3.955
130	-	8.032	7.258	6.940	6.626	6.434	5.821	4.914	4.701	4.425	4.054
135	-	8.197	7.384	7.066	6.740	6.541	6.124	5.047	4.823	4.534	4.148
140	-	8.361	7.511	7.192	6.855	6.648	6.361	5.199	4.944	4.643	4.238
145	-	8.526	7.637	7.318	6.969	6.755	6.458	5.437	5.066	4.752	4.328
150	-	8.690	7.764	7.444	7.084	6.862	6.555	5.675	5.212	4.861	4.418
155	-	8.854	7.890	7.570	7.198	6.969	6.652	5.914	5.430	4.970	4.508
160	-	-	8.017	7.695	7.313	7.077	6.749	6.152	5.648	5.080	4.598
165	-	-	8.143	7.821	7.427	7.184	6.847	6.351	5.866	5.208	4.688
170	-	-	8.270	7.947	7.542	7.291	6.944	6.432	6.083	5.382	4.778
175	-	-	8.396	8.073	7.656	7.398	7.041	6.512	6.301	5.555	4.868
180	-	-	8.523	8.199	7.771	7.505	7.138	6.593	6.403	5.729	4.958
185	-	-	8.649	8.325	7.885	7.613	7.235	6.674	6.486	5.903	5.048
190	-	-	8.775	8.451	8.000	7.720	7.332	6.755	6.570	6.076	5.138
195	-	-	-	8.577	8.114	7.827	7.429	6.835	6.653	6.250	5.238
200	-	-	-	8.703	8.229	7.934	7.526	6.916	6.737	6.378	5.341
205	-	-	-	8.829	8.343	8.041	7.623	6.997	6.820	6.468	5.445
210	-	-	-	-	8.458	8.148	7.720	7.078	6.904	6.558	5.548
215	-	-	-	-	8.572	8.256	7.817	7.159	6.988	6.647	5.651
220	-	-	-	-	8.687	8.363	7.914	7.239	7.071	6.737	5.755
225	-	-	-	-	8.801	8.470	8.011	7.320	7.155	6.826	5.858
230	-	-	-	-	8.916	8.577	8.108	7.401	7.238	6.916	5.961
235	-	-	-	-	-	8.684	8.205	7.482	7.322	7.005	6.065
240	-	-	-	-	-	8.791	8.302	7.562	7.405	7.095	6.168
245	-	-	-	-	-	8.899	8.399	7.643	7.489	7.185	6.271
250	-	-	-	-	-	-	8.496	7.724	7.572	7.274	6.378
255	-	-	-	-	-	-	8.594	7.805	7.656	7.364	6.488
260	-	-	-	-	-	-	8.691	7.885	7.739	7.453	6.599
265	-	-	-	-	-	-	8.788	7.966	7.823	7.543	6.710
270	-	-	-	-	-	-	-	8.047	7.906	7.632	6.821
275	-	-	-	-	-	-	-	8.128	7.990	7.722	6.932
280	-	-	-	-	-	-	-	8.209	8.074	7.811	7.042
285	-	-	-	-	-	-	-	8.289	8.157	7.901	7.153
290	-	-	-	-	-	-	-	8.370	8.241	7.991	7.264
295	-	-	-	-	-	-	-	8.451	8.324	8.080	7.375
300	-	-	-	-	-	-	-	8.532	8.408	8.170	7.486
305	-	-	-	-	-	-	-	8.612	8.491	8.259	7.596
310	-	-	-	-	-	-	-	8.693	8.575	8.349	7.707
315	-	-	-	-	-	-	-	8.774	8.658	8.438	7.818

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 23: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 105 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	-	-	4.928	4.711	4.390	4.141	3.888	3.560	3.450	3.294	1.813
70	-	-	5.817	4.988	4.649	4.401	4.109	3.747	3.622	3.449	3.184
75	-	-	-	5.543	4.907	4.661	4.345	3.933	3.795	3.603	3.323
80	-	-	-	6.522	5.189	4.920	4.582	4.120	3.967	3.758	3.462
85	-	-	-	-	6.025	5.225	4.818	4.315	4.141	3.912	3.601
90	-	-	-	-	6.449	5.981	5.055	4.509	4.319	4.067	3.741
95	-	-	-	-	6.635	6.425	5.530	4.704	4.496	4.226	3.880
100	-	-	-	-	6.822	6.601	6.184	4.898	4.674	4.387	4.019
105	-	-	-	-	7.008	6.777	6.456	5.093	4.851	4.548	4.156
110	-	-	-	-	7.194	6.953	6.618	5.529	5.029	4.709	4.290
115	-	-	-	-	7.381	7.129	6.779	6.083	5.312	4.870	4.424
120	-	-	-	-	7.567	7.305	6.941	6.406	5.864	5.031	4.558
125	-	-	-	-	7.754	7.481	7.103	6.544	6.350	5.262	4.692
130	-	-	-	-	7.940	7.657	7.264	6.681	6.479	5.742	4.826
135	-	-	-	-	8.127	7.833	7.426	6.819	6.607	6.221	4.960
140	-	-	-	-	8.313	8.009	7.587	6.956	6.735	6.419	5.094
145	-	-	-	-	8.500	8.185	7.749	7.093	6.864	6.533	5.329
150	-	-	-	-	8.686	8.361	7.911	7.231	6.992	6.647	5.653
155	-	-	-	-	8.872	8.537	8.072	7.368	7.120	6.761	5.976
160	-	-	-	-	-	8.713	8.234	7.506	7.249	6.875	6.300
165	-	-	-	-	-	8.889	8.396	7.643	7.377	6.989	6.409
170	-	-	-	-	-	9.065	8.557	7.780	7.505	7.103	6.495
175	-	-	-	-	-	-	8.719	7.918	7.634	7.218	6.581
180	-	-	-	-	-	-	8.881	8.055	7.762	7.332	6.668
185	-	-	-	-	-	-	-	8.192	7.890	7.446	6.754
190	-	-	-	-	-	-	-	8.330	8.019	7.560	6.841
195	-	-	-	-	-	-	-	8.467	8.147	7.674	6.927
200	-	-	-	-	-	-	-	8.605	8.275	7.788	7.013
205	-	-	-	-	-	-	-	8.742	8.404	7.903	7.100
210	-	-	-	-	-	-	-	8.879	8.532	8.017	7.186
215	-	-	-	-	-	-	-	-	8.660	8.131	7.273
220	-	-	-	-	-	-	-	-	8.789	8.245	7.359
225	-	-	-	-	-	-	-	-	8.917	8.359	7.445
230	-	-	-	-	-	-	-	-	-	8.473	7.532
235	-	-	-	-	-	-	-	-	-	8.588	7.618
240	-	-	-	-	-	-	-	-	-	8.702	7.705
245	-	-	-	-	-	-	-	-	-	8.816	7.791
250	-	-	-	-	-	-	-	-	-	8.930	7.877
255	-	-	-	-	-	-	-	-	-	-	7.964
260	-	-	-	-	-	-	-	-	-	-	8.050
265	-	-	-	-	-	-	-	-	-	-	8.137
270	-	-	-	-	-	-	-	-	-	-	8.223
275	-	-	-	-	-	-	-	-	-	-	8.309
280	-	-	-	-	-	-	-	-	-	-	8.396
285	-	-	-	-	-	-	-	-	-	-	8.482
290	-	-	-	-	-	-	-	-	-	-	8.569
295	-	-	-	-	-	-	-	-	-	-	8.655
300	-	-	-	-	-	-	-	-	-	-	8.741
305	-	-	-	-	-	-	-	-	-	-	8.828
310	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.

Section Factor m ⁻¹	Table 24: FIRETEX Platinum-120 RHS/SHS & CHS Columns: Fire Resistance Period 120 Minutes										
	Thickness (mm) Required for a Design Temperature of										
	350	400	450	470	500	520	550	600	620	650	700
65	-	-	-	-	5.062	4.887	4.554	4.044	3.907	3.713	3.422
70	-	-	-	-	6.650	5.386	4.850	4.303	4.117	3.900	3.598
75	-	-	-	-	-	5.885	5.146	4.563	4.354	4.087	3.775
80	-	-	-	-	-	-	6.421	4.822	4.591	4.301	3.952
85	-	-	-	-	-	-	-	5.081	4.829	4.518	4.129
90	-	-	-	-	-	-	-	6.014	5.066	4.735	4.310
95	-	-	-	-	-	-	-	6.478	6.027	4.951	4.490
100	-	-	-	-	-	-	-	6.677	6.478	5.232	4.671
105	-	-	-	-	-	-	-	6.877	6.666	6.367	4.852
110	-	-	-	-	-	-	-	7.077	6.854	6.538	5.033
115	-	-	-	-	-	-	-	7.276	7.042	6.709	5.513
120	-	-	-	-	-	-	-	7.476	7.230	6.880	6.369
125	-	-	-	-	-	-	-	7.675	7.418	7.051	6.511
130	-	-	-	-	-	-	-	7.875	7.606	7.222	6.653
135	-	-	-	-	-	-	-	8.075	7.794	7.393	6.795
140	-	-	-	-	-	-	-	8.274	7.982	7.564	6.937
145	-	-	-	-	-	-	-	8.474	8.170	7.735	7.079
150	-	-	-	-	-	-	-	8.673	8.359	7.906	7.221
155	-	-	-	-	-	-	-	8.873	8.547	8.077	7.363
160	-	-	-	-	-	-	-	-	8.735	8.248	7.505
165	-	-	-	-	-	-	-	-	8.923	8.419	7.647
170	-	-	-	-	-	-	-	-	9.111	8.590	7.789
175	-	-	-	-	-	-	-	-	-	8.761	7.931
180	-	-	-	-	-	-	-	-	-	8.932	8.073
185	-	-	-	-	-	-	-	-	-	-	8.215
190	-	-	-	-	-	-	-	-	-	-	8.357
195	-	-	-	-	-	-	-	-	-	-	8.499
200	-	-	-	-	-	-	-	-	-	-	8.641
205	-	-	-	-	-	-	-	-	-	-	8.783
210	-	-	-	-	-	-	-	-	-	-	8.925
215	-	-	-	-	-	-	-	-	-	-	-
220	-	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	-	-	-	-	-
230	-	-	-	-	-	-	-	-	-	-	-
235	-	-	-	-	-	-	-	-	-	-	-
240	-	-	-	-	-	-	-	-	-	-	-
245	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-
270	-	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-	-
280	-	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only.

Results apply to Rectangular/Square and Circular Hollow columns exposed on all sides.