



CERTIFICATE OF APPROVAL

No CF 10374

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

SHERWIN WILLIAMS UK LIMITED

Avenue One, Station Lane, Witney
Oxfordshire, OX28 4XR, United Kingdom
Phone 01204 521771

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

CERTIFIED PRODUCT
FIRETEX FX5092

TECHNICAL SCHEDULE
TS15

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 30th April 2026
Audit Test Frequency: Annually
Valid to: 29th April 2031





CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

1. This approval relates to the use of FIRETEX FX5092 for the fire protection of I/H beams, I/H columns, circular hollow columns, rectangular/square hollow columns and rectangular/square hollow beams. The precise scope is given in the Tables, which show the total dry film thickness of FIRETEX FX5092 (excluding primer and topcoat) required to provide fire resistance periods in accordance with BS 476: Part 21: 1987. The scope includes fire resistance periods of up to 150 minutes for all shapes, except rectangular/square hollow beams, which have fire resistance periods of up to 120 minutes.
2. This certification is provided to the client for their own purposes, and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. The products are approved on the basis of:
 - i) Initial type testing.
 - ii) A design appraisal against TS15.
 - iii) Certification of quality management system to ISO 9001.
 - iv) Inspection and surveillance of factory production control
 - v) Audit testing
4. The data referring to three-sided fire exposure of beams relates to beams supporting concrete floor slabs. Separate consideration is required where this is not the case.
5. The data shown is applicable to steel sections blast cleaned to ISO 8501-1 Sa2.5 or equivalent and primed with a suitable and compatible primer. Specifications of surface preparations, primers and topcoats are available from Sherwin Williams UK Limited whose responsibility is to ensure that the FIRETEX FX5092 system is compatible for use in respect of both ambient and fire conditions. The nominal dry film thickness of primer and topcoat should be applied at a nominal thickness tested unless stated otherwise in this certificate.
6. The data shown is applicable to FIRETEX FX5092 applied by spray to horizontal, vertical, flexural and compression members supporting loads up to the maximum design loads specified in EN1993-1-1.
7. Results from the analysis of I/H sections are directly applicable to angles, channels and T-sections for the same section factor.
8. The approval relates to ongoing production. The product and/or its immediate packaging shall be identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.
9. The data shown in the tables is based on an assessment that complies with the criteria for acceptability incorporated within the CERTIFIRE scheme.
10. For section factors below the extended minimum given in the Tables of Results, the same coating thickness as that applied to the extended minimum section factor shall be applied.


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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 15 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
55	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
60	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
65	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
70	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
75	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
80	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
85	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
90	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
95	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
100	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
105	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
110	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
115	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
120	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
125	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
130	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
135	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
140	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
145	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
150	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
155	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
160	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
165	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
170	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
175	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
180	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
185	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
190	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
195	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
200	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
205	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
210	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
215	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
220	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
225	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
230	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
235	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
240	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
245	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
250	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
255	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
260	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
265	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
270	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
275	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
280	0.480	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
285	0.496	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
290	0.513	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
295	0.530	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
300	0.546	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
305	0.563	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
310	0.580	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
315	0.596	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
320	0.613	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
325	0.630	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
330	0.646	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
335	0.663	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
340	0.679	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
345	0.696	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
350	0.713	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
355	0.729	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
360	0.746	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
365	0.763	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 20 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
55	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
60	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
65	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
70	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
75	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
80	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
85	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
90	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
95	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
100	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
105	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
110	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
115	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
120	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
125	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
130	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
135	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
140	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
145	0.484	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
150	0.502	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
155	0.521	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
160	0.539	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
165	0.558	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
170	0.577	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
175	0.595	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
180	0.614	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
185	0.632	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
190	0.651	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
195	0.670	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
200	0.688	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
205	0.707	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
210	0.725	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
215	0.744	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
220	0.763	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
225	0.781	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
230	0.800	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
235	0.818	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
240	0.837	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
245	0.856	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
250	0.874	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
255	0.893	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
260	0.911	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
265	0.930	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
270	0.949	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
275	0.967	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
280	0.986	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
285	1.004	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
290	1.023	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
295	1.041	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
300	1.060	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
305	1.079	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
310	1.097	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
315	1.116	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
320	1.134	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
325	1.153	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
330	1.172	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
335	1.190	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
340	1.209	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
345	1.227	0.473	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
350	1.246	0.490	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
355	1.265	0.507	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
360	1.283	0.525	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
365	1.302	0.542	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
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CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 30 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
55	0.472	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
60	0.497	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
65	0.521	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
70	0.546	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
75	0.570	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
80	0.594	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
85	0.619	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
90	0.643	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
95	0.667	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
100	0.692	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
105	0.716	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
110	0.741	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
115	0.765	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
120	0.789	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
125	0.814	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
130	0.838	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
135	0.862	0.471	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
140	0.887	0.491	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
145	0.911	0.510	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
150	0.936	0.530	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
155	0.960	0.550	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
160	0.984	0.570	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
165	1.009	0.589	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
170	1.033	0.609	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
175	1.057	0.629	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
180	1.082	0.649	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
185	1.106	0.668	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
190	1.131	0.688	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
195	1.155	0.708	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
200	1.179	0.727	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
205	1.204	0.747	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
210	1.228	0.767	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
215	1.252	0.787	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
220	1.277	0.806	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
225	1.301	0.826	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
230	1.326	0.846	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
235	1.350	0.865	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
240	1.374	0.885	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
245	1.399	0.905	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
250	1.423	0.925	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
255	1.447	0.944	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
260	1.472	0.964	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
265	1.496	0.984	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
270	1.521	1.004	0.477	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
275	1.545	1.023	0.497	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
280	1.569	1.043	0.517	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
285	1.594	1.063	0.537	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
290	1.618	1.082	0.556	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
295	1.642	1.102	0.576	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
300	1.667	1.122	0.596	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
305	1.691	1.142	0.616	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
310	1.716	1.161	0.635	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
315	1.740	1.181	0.655	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
320	1.764	1.201	0.675	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
325	1.789	1.220	0.695	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
330	1.813	1.240	0.714	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
335	1.837	1.260	0.734	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
340	1.865	1.280	0.754	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
345	1.898	1.299	0.773	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
350	1.930	1.319	0.793	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
355	1.963	1.339	0.813	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
360	1.995	1.359	0.833	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
365	2.028	1.378	0.852	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 45 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	0.515	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	0.593	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	0.672	0.486	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	0.750	0.513	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
55	0.828	0.541	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
60	0.906	0.569	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
65	0.985	0.596	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
70	1.063	0.624	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
75	1.141	0.651	0.482	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
80	1.219	0.679	0.502	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
85	1.298	0.707	0.523	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
90	1.376	0.734	0.544	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
95	1.454	0.762	0.565	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
100	1.532	0.790	0.585	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
105	1.611	0.817	0.606	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
110	1.689	0.845	0.627	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
115	1.767	0.873	0.648	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
120	1.845	0.900	0.668	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
125	1.877	0.928	0.689	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
130	1.905	0.955	0.710	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
135	1.933	0.983	0.731	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
140	1.961	1.011	0.751	0.478	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
145	1.989	1.038	0.772	0.498	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
150	2.018	1.066	0.793	0.519	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
155	2.046	1.094	0.813	0.539	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
160	2.074	1.121	0.834	0.559	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
165	2.102	1.149	0.855	0.580	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
170	2.130	1.177	0.876	0.600	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
175	2.158	1.204	0.896	0.620	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
180	2.186	1.232	0.917	0.641	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
185	2.214	1.259	0.938	0.661	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
190	2.242	1.287	0.959	0.681	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
195	2.271	1.315	0.979	0.702	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
200	2.299	1.342	1.000	0.722	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
205	2.327	1.370	1.021	0.742	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
210	2.355	1.398	1.042	0.763	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
215	2.383	1.425	1.062	0.783	0.478	0.470	0.470	0.470	0.470	0.470	0.470	0.470
220	2.411	1.453	1.083	0.803	0.498	0.470	0.470	0.470	0.470	0.470	0.470	0.470
225	2.439	1.481	1.104	0.824	0.518	0.470	0.470	0.470	0.470	0.470	0.470	0.470
230	2.467	1.508	1.125	0.844	0.539	0.470	0.470	0.470	0.470	0.470	0.470	0.470
235	2.495	1.536	1.145	0.865	0.559	0.470	0.470	0.470	0.470	0.470	0.470	0.470
240	2.523	1.563	1.166	0.885	0.580	0.470	0.470	0.470	0.470	0.470	0.470	0.470
245	2.552	1.591	1.187	0.905	0.600	0.470	0.470	0.470	0.470	0.470	0.470	0.470
250	2.580	1.619	1.208	0.926	0.621	0.470	0.470	0.470	0.470	0.470	0.470	0.470
255	2.608	1.646	1.228	0.946	0.641	0.470	0.470	0.470	0.470	0.470	0.470	0.470
260	2.636	1.674	1.249	0.966	0.662	0.470	0.470	0.470	0.470	0.470	0.470	0.470
265	2.664	1.702	1.270	0.987	0.682	0.470	0.470	0.470	0.470	0.470	0.470	0.470
270	2.692	1.729	1.290	1.007	0.703	0.470	0.470	0.470	0.470	0.470	0.470	0.470
275	2.720	1.757	1.311	1.027	0.723	0.470	0.470	0.470	0.470	0.470	0.470	0.470
280	2.748	1.785	1.332	1.048	0.744	0.470	0.470	0.470	0.470	0.470	0.470	0.470
285	2.776	1.812	1.353	1.068	0.764	0.470	0.470	0.470	0.470	0.470	0.470	0.470
290	2.804	1.840	1.373	1.088	0.785	0.470	0.470	0.470	0.470	0.470	0.470	0.470
295	2.833	1.870	1.394	1.109	0.805	0.470	0.470	0.470	0.470	0.470	0.470	0.470
300	2.861	1.902	1.415	1.129	0.826	0.470	0.470	0.470	0.470	0.470	0.470	0.470
305	2.889	1.934	1.436	1.149	0.846	0.470	0.470	0.470	0.470	0.470	0.470	0.470
310	2.917	1.967	1.456	1.170	0.866	0.470	0.470	0.470	0.470	0.470	0.470	0.470
315	2.945	1.999	1.477	1.190	0.887	0.470	0.470	0.470	0.470	0.470	0.470	0.470
320	2.973	2.031	1.498	1.210	0.907	0.470	0.470	0.470	0.470	0.470	0.470	0.470
325	3.001	2.063	1.519	1.231	0.928	0.470	0.470	0.470	0.470	0.470	0.470	0.470
330	3.029	2.095	1.539	1.251	0.948	0.492	0.470	0.470	0.470	0.470	0.470	0.470
335	3.057	2.127	1.560	1.271	0.969	0.515	0.470	0.470	0.470	0.470	0.470	0.470
340	3.086	2.159	1.581	1.292	0.989	0.538	0.470	0.470	0.470	0.470	0.470	0.470
345	3.114	2.191	1.602	1.312	1.010	0.561	0.470	0.470	0.470	0.470	0.470	0.470
350	3.142	2.224	1.622	1.332	1.030	0.584	0.470	0.470	0.470	0.470	0.470	0.470
355	3.170	2.256	1.643	1.353	1.051	0.607	0.489	0.470	0.470	0.470	0.470	0.470
360	3.198	2.288	1.664	1.373	1.071	0.630	0.511	0.470	0.470	0.470	0.470	0.470
365	3.245	2.320	1.685	1.393	1.092	0.653	0.532	0.470	0.470	0.470	0.470	0.470

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 60 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	1.035	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	1.260	0.558	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	1.485	0.618	0.504	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	1.710	0.679	0.537	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	1.896	0.740	0.570	0.480	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
55	2.018	0.800	0.603	0.502	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
60	2.140	0.861	0.636	0.525	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
65	2.262	0.922	0.669	0.548	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
70	2.383	0.983	0.703	0.570	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
75	2.505	1.043	0.736	0.593	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
80	2.627	1.104	0.769	0.615	0.487	0.470	0.470	0.470	0.470	0.470	0.470	0.470
85	2.748	1.165	0.802	0.638	0.508	0.470	0.470	0.470	0.470	0.470	0.470	0.470
90	2.870	1.226	0.835	0.660	0.529	0.470	0.470	0.470	0.470	0.470	0.470	0.470
95	2.992	1.286	0.868	0.683	0.550	0.470	0.470	0.470	0.470	0.470	0.470	0.470
100	3.113	1.347	0.902	0.706	0.570	0.470	0.470	0.470	0.470	0.470	0.470	0.470
105	3.214	1.408	0.935	0.728	0.591	0.470	0.470	0.470	0.470	0.470	0.470	0.470
110	3.242	1.468	0.968	0.751	0.612	0.470	0.470	0.470	0.470	0.470	0.470	0.470
115	3.270	1.529	1.001	0.773	0.633	0.470	0.470	0.470	0.470	0.470	0.470	0.470
120	3.297	1.590	1.034	0.796	0.654	0.470	0.470	0.470	0.470	0.470	0.470	0.470
125	3.325	1.651	1.068	0.818	0.675	0.470	0.470	0.470	0.470	0.470	0.470	0.470
130	3.353	1.711	1.101	0.841	0.696	0.481	0.470	0.470	0.470	0.470	0.470	0.470
135	3.381	1.772	1.134	0.864	0.717	0.502	0.470	0.470	0.470	0.470	0.470	0.470
140	3.408	1.833	1.167	0.886	0.738	0.523	0.470	0.470	0.470	0.470	0.470	0.470
145	3.436	1.871	1.200	0.909	0.759	0.544	0.474	0.470	0.470	0.470	0.470	0.470
150	3.464	1.900	1.233	0.931	0.780	0.565	0.494	0.470	0.470	0.470	0.470	0.470
155	3.492	1.929	1.267	0.954	0.801	0.586	0.514	0.470	0.470	0.470	0.470	0.470
160	3.519	1.958	1.300	0.976	0.822	0.607	0.534	0.470	0.470	0.470	0.470	0.470
165	3.547	1.987	1.333	0.999	0.843	0.628	0.554	0.477	0.470	0.470	0.470	0.470
170	3.575	2.016	1.366	1.021	0.864	0.649	0.574	0.496	0.470	0.470	0.470	0.470
175	3.603	2.045	1.399	1.044	0.885	0.670	0.594	0.516	0.470	0.470	0.470	0.470
180	3.630	2.074	1.432	1.067	0.906	0.691	0.614	0.536	0.470	0.470	0.470	0.470
185	3.658	2.103	1.466	1.089	0.926	0.712	0.634	0.555	0.470	0.470	0.470	0.470
190	3.686	2.132	1.499	1.112	0.947	0.733	0.653	0.575	0.480	0.470	0.470	0.470
195	3.714	2.161	1.532	1.134	0.968	0.753	0.673	0.595	0.500	0.470	0.470	0.470
200	3.741	2.191	1.565	1.157	0.989	0.774	0.693	0.615	0.520	0.470	0.470	0.470
205	3.769	2.220	1.598	1.179	1.010	0.795	0.713	0.634	0.539	0.470	0.470	0.470
210	3.797	2.249	1.631	1.202	1.031	0.816	0.733	0.654	0.559	0.470	0.470	0.470
215	3.825	2.278	1.665	1.225	1.052	0.837	0.753	0.674	0.579	0.470	0.470	0.470
220	3.852	2.307	1.698	1.247	1.073	0.858	0.773	0.693	0.598	0.470	0.470	0.470
225	3.880	2.336	1.731	1.270	1.094	0.879	0.793	0.713	0.618	0.470	0.470	0.470
230	3.908	2.365	1.764	1.292	1.115	0.900	0.813	0.733	0.638	0.470	0.470	0.470
235	3.936	2.394	1.797	1.315	1.136	0.921	0.833	0.753	0.657	0.470	0.470	0.470
240	3.963	2.423	1.830	1.337	1.157	0.942	0.853	0.772	0.677	0.487	0.470	0.470
245	3.991	2.452	1.863	1.360	1.178	0.963	0.873	0.792	0.696	0.507	0.470	0.470
250	4.019	2.481	1.895	1.383	1.199	0.984	0.893	0.812	0.716	0.527	0.470	0.470
255	4.047	2.510	1.927	1.405	1.220	1.005	0.913	0.831	0.736	0.547	0.470	0.470
260	4.074	2.539	1.959	1.428	1.241	1.026	0.933	0.851	0.755	0.567	0.470	0.470
265	4.102	2.568	1.991	1.450	1.262	1.047	0.953	0.871	0.775	0.587	0.470	0.470
270	4.130	2.597	2.023	1.473	1.283	1.068	0.972	0.890	0.795	0.607	0.470	0.470
275	4.158	2.626	2.055	1.495	1.303	1.088	0.992	0.910	0.814	0.627	0.470	0.470
280	4.185	2.655	2.087	1.518	1.324	1.109	1.012	0.930	0.834	0.647	0.470	0.470
285	4.213	2.684	2.119	1.541	1.345	1.130	1.032	0.950	0.854	0.667	0.470	0.470
290	4.241	2.713	2.151	1.563	1.366	1.151	1.052	0.969	0.873	0.687	0.470	0.470
295	4.269	2.742	2.183	1.586	1.387	1.172	1.072	0.989	0.893	0.708	0.470	0.470
300	4.296	2.771	2.215	1.608	1.408	1.193	1.092	1.009	0.912	0.728	0.470	0.470
305	4.324	2.800	2.247	1.631	1.429	1.214	1.112	1.028	0.932	0.748	0.470	0.470
310	4.352	2.829	2.279	1.653	1.450	1.235	1.132	1.048	0.952	0.768	0.470	0.470
315	4.380	2.858	2.311	1.676	1.471	1.256	1.152	1.068	0.971	0.788	0.470	0.470
320	4.407	2.887	2.343	1.698	1.492	1.277	1.172	1.088	0.991	0.808	0.470	0.470
325	4.435	2.916	2.375	1.721	1.513	1.298	1.192	1.107	1.011	0.828	0.473	0.470
330	4.463	2.945	2.407	1.744	1.534	1.319	1.212	1.127	1.030	0.848	0.493	0.470
335	4.491	2.974	2.439	1.766	1.555	1.340	1.232	1.147	1.050	0.868	0.514	0.470
340	4.518	3.003	2.471	1.789	1.576	1.361	1.252	1.166	1.070	0.888	0.534	0.470
345	4.546	3.032	2.503	1.811	1.597	1.382	1.272	1.186	1.089	0.908	0.555	0.470
350	4.574	3.061	2.535	1.834	1.618	1.403	1.291	1.206	1.109	0.929	0.575	0.470
355	4.602	3.090	2.567	1.861	1.639	1.423	1.311	1.225	1.128	0.949	0.596	0.470
360	4.629	3.119	2.599	1.903	1.659	1.444	1.331	1.245	1.148	0.969	0.616	0.470
365	4.657	3.148	2.630	1.945	1.680	1.465	1.351	1.265	1.168	0.989	0.636	0.470

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 75 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	1.843	1.058	0.533	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	2.353	1.230	0.598	0.509	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
40	2.862	1.403	0.663	0.549	0.486	0.470	0.470	0.470	0.470	0.470	0.470	0.470
45	3.221	1.575	0.729	0.589	0.513	0.470	0.470	0.470	0.470	0.470	0.470	0.470
50	3.261	1.747	0.794	0.630	0.540	0.471	0.470	0.470	0.470	0.470	0.470	0.470
55	3.301	1.875	0.859	0.670	0.566	0.493	0.470	0.470	0.470	0.470	0.470	0.470
60	3.341	1.936	0.925	0.710	0.593	0.515	0.470	0.470	0.470	0.470	0.470	0.470
65	3.381	1.997	0.990	0.750	0.620	0.538	0.486	0.470	0.470	0.470	0.470	0.470
70	3.422	2.058	1.055	0.791	0.647	0.560	0.507	0.470	0.470	0.470	0.470	0.470
75	3.462	2.118	1.121	0.831	0.674	0.582	0.528	0.487	0.470	0.470	0.470	0.470
80	3.502	2.179	1.186	0.871	0.700	0.604	0.550	0.507	0.470	0.470	0.470	0.470
85	3.542	2.240	1.251	0.911	0.727	0.627	0.571	0.528	0.481	0.470	0.470	0.470
90	3.582	2.301	1.317	0.952	0.754	0.649	0.592	0.549	0.502	0.470	0.470	0.470
95	3.622	2.362	1.382	0.992	0.781	0.671	0.614	0.570	0.522	0.470	0.470	0.470
100	3.662	2.422	1.448	1.032	0.808	0.693	0.635	0.591	0.542	0.470	0.470	0.470
105	3.702	2.483	1.513	1.072	0.834	0.716	0.656	0.612	0.563	0.473	0.470	0.470
110	3.743	2.544	1.578	1.113	0.861	0.738	0.678	0.633	0.583	0.493	0.470	0.470
115	3.783	2.605	1.644	1.153	0.888	0.760	0.699	0.653	0.604	0.513	0.470	0.470
120	3.823	2.666	1.709	1.193	0.915	0.782	0.720	0.674	0.624	0.533	0.470	0.470
125	3.863	2.726	1.774	1.234	0.942	0.805	0.742	0.695	0.645	0.553	0.470	0.470
130	3.903	2.787	1.840	1.274	0.968	0.827	0.763	0.716	0.665	0.573	0.470	0.470
135	3.943	2.848	1.875	1.314	0.995	0.849	0.784	0.737	0.685	0.593	0.471	0.470
140	3.983	2.909	1.905	1.354	1.022	0.871	0.805	0.758	0.706	0.613	0.490	0.470
145	4.023	2.970	1.934	1.395	1.049	0.893	0.827	0.778	0.726	0.633	0.508	0.470
150	4.064	3.030	1.963	1.435	1.076	0.916	0.848	0.799	0.747	0.653	0.527	0.470
155	4.104	3.091	1.992	1.475	1.102	0.938	0.869	0.820	0.767	0.673	0.546	0.470
160	4.144	3.152	2.022	1.515	1.129	0.960	0.891	0.841	0.787	0.693	0.564	0.470
165	4.184	3.211	2.051	1.556	1.156	0.982	0.912	0.862	0.808	0.713	0.583	0.470
170	4.224	3.243	2.080	1.596	1.183	1.005	0.933	0.883	0.828	0.733	0.601	0.470
175	4.264	3.276	2.110	1.636	1.209	1.027	0.955	0.904	0.849	0.753	0.620	0.470
180	4.304	3.309	2.139	1.676	1.236	1.049	0.976	0.924	0.869	0.773	0.639	0.470
185	4.344	3.342	2.168	1.717	1.263	1.071	0.997	0.945	0.889	0.793	0.657	0.470
190	4.385	3.375	2.197	1.757	1.290	1.094	1.019	0.966	0.910	0.813	0.676	0.470
195	4.425	3.408	2.227	1.797	1.317	1.116	1.040	0.987	0.930	0.833	0.695	0.473
200	4.465	3.441	2.256	1.837	1.343	1.138	1.061	1.008	0.951	0.853	0.713	0.491
205	4.505	3.474	2.285	1.873	1.370	1.160	1.083	1.029	0.971	0.873	0.732	0.510
210	4.545	3.507	2.315	1.905	1.397	1.183	1.104	1.049	0.992	0.893	0.750	0.528
215	4.585	3.539	2.344	1.938	1.424	1.205	1.125	1.070	1.012	0.913	0.769	0.547
220	4.625	3.572	2.373	1.971	1.451	1.227	1.147	1.091	1.032	0.933	0.788	0.565
225	4.665	3.605	2.403	2.003	1.477	1.249	1.168	1.112	1.053	0.953	0.806	0.583
230	4.706	3.638	2.432	2.036	1.504	1.272	1.189	1.133	1.073	0.973	0.825	0.602
235	4.746	3.671	2.461	2.069	1.531	1.294	1.211	1.154	1.094	0.993	0.844	0.620
240	4.786	3.704	2.490	2.102	1.558	1.316	1.232	1.175	1.114	1.013	0.862	0.639
245	4.826	3.737	2.520	2.134	1.585	1.338	1.253	1.195	1.134	1.033	0.881	0.657
250	-	3.770	2.549	2.167	1.611	1.360	1.275	1.216	1.155	1.053	0.899	0.676
255	-	3.802	2.578	2.200	1.638	1.383	1.296	1.237	1.175	1.073	0.918	0.694
260	-	3.835	2.608	2.232	1.665	1.405	1.317	1.258	1.196	1.093	0.937	0.713
265	-	3.868	2.637	2.265	1.692	1.427	1.339	1.279	1.216	1.113	0.955	0.731
270	-	3.901	2.666	2.298	1.719	1.449	1.360	1.300	1.236	1.133	0.974	0.750
275	-	3.934	2.696	2.330	1.745	1.472	1.381	1.320	1.257	1.153	0.993	0.768
280	-	3.967	2.725	2.363	1.772	1.494	1.403	1.341	1.277	1.173	1.011	0.787
285	-	4.000	2.754	2.396	1.799	1.516	1.424	1.362	1.298	1.193	1.030	0.805
290	-	4.033	2.783	2.429	1.826	1.538	1.445	1.383	1.318	1.214	1.048	0.824
295	-	4.066	2.813	2.461	1.854	1.561	1.467	1.404	1.338	1.234	1.067	0.842
300	-	4.098	2.842	2.494	1.886	1.583	1.488	1.425	1.359	1.254	1.086	0.860
305	-	4.131	2.871	2.527	1.939	1.605	1.509	1.446	1.379	1.274	1.104	0.879
310	-	4.164	2.901	2.559	1.982	1.627	1.531	1.466	1.400	1.294	1.123	0.897
315	-	4.197	2.930	2.592	2.025	1.650	1.552	1.487	1.420	1.314	1.142	0.916
320	-	4.230	2.959	2.625	2.067	1.672	1.573	1.508	1.441	1.334	1.160	0.934
325	-	4.263	2.989	2.657	2.110	1.694	1.595	1.529	1.461	1.354	1.179	0.953
330	-	4.296	3.018	2.690	2.153	1.716	1.616	1.550	1.481	1.374	1.197	0.971
335	-	4.329	3.047	2.723	2.196	1.739	1.637	1.571	1.502	1.394	1.216	0.990
340	-	4.362	3.076	2.756	2.239	1.761	1.659	1.591	1.522	1.414	1.235	1.008
345	-	4.394	3.106	2.788	2.281	1.783	1.680	1.612	1.543	1.434	1.253	1.027
350	-	4.427	3.135	2.821	2.324	1.805	1.701	1.633	1.563	1.454	1.272	1.045
355	-	4.460	3.164	2.854	2.367	1.827	1.723	1.654	1.583	1.474	1.291	1.064
360	-	4.493	3.194	2.886	2.410	1.850	1.744	1.675	1.604	1.494	1.309	1.082
365	-	4.526	3.251	2.919	2.453	1.898	1.765	1.696	1.624	1.514	1.328	1.101

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 90 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	3.246	1.704	1.126	0.572	0.470	0.470	0.470	0.470	0.470	0.470	0.470	0.470
35	3.319	2.027	1.281	0.656	0.546	0.489	0.470	0.470	0.470	0.470	0.470	0.470
40	3.393	2.396	1.435	0.739	0.592	0.524	0.494	0.478	0.470	0.470	0.470	0.470
45	3.466	2.764	1.590	0.823	0.638	0.558	0.522	0.502	0.481	0.470	0.470	0.470
50	3.539	3.132	1.745	0.906	0.685	0.593	0.550	0.526	0.504	0.470	0.470	0.470
55	3.613	3.231	1.868	0.989	0.731	0.627	0.578	0.550	0.526	0.487	0.470	0.470
60	3.686	3.260	1.922	1.073	0.777	0.661	0.606	0.575	0.549	0.509	0.470	0.470
65	3.759	3.288	1.976	1.156	0.823	0.696	0.634	0.599	0.572	0.531	0.470	0.470
70	3.833	3.317	2.030	1.240	0.869	0.730	0.662	0.623	0.595	0.553	0.471	0.470
75	3.906	3.346	2.084	1.323	0.915	0.764	0.690	0.647	0.618	0.575	0.491	0.470
80	3.979	3.374	2.138	1.407	0.962	0.799	0.718	0.671	0.641	0.596	0.511	0.470
85	4.053	3.403	2.192	1.490	1.008	0.833	0.746	0.696	0.664	0.618	0.532	0.470
90	4.126	3.432	2.246	1.573	1.054	0.867	0.774	0.720	0.686	0.640	0.552	0.470
95	4.199	3.461	2.300	1.657	1.100	0.902	0.802	0.744	0.709	0.662	0.573	0.470
100	4.273	3.489	2.354	1.740	1.146	0.936	0.830	0.768	0.732	0.684	0.593	0.470
105	4.346	3.518	2.408	1.824	1.192	0.970	0.859	0.792	0.755	0.706	0.613	0.474
110	4.419	3.547	2.462	1.871	1.239	1.005	0.887	0.817	0.778	0.728	0.634	0.494
115	4.493	3.576	2.516	1.900	1.285	1.039	0.915	0.841	0.801	0.749	0.654	0.514
120	4.566	3.604	2.570	1.929	1.331	1.074	0.943	0.865	0.823	0.771	0.674	0.533
125	4.640	3.633	2.624	1.958	1.377	1.108	0.971	0.889	0.846	0.793	0.695	0.553
130	4.713	3.662	2.678	1.987	1.423	1.142	0.999	0.913	0.869	0.815	0.715	0.573
135	4.786	3.690	2.732	2.016	1.469	1.177	1.027	0.938	0.892	0.837	0.736	0.593
140	4.860	3.719	2.786	2.046	1.515	1.211	1.055	0.962	0.915	0.859	0.756	0.613
145	-	3.748	2.840	2.075	1.562	1.245	1.083	0.986	0.938	0.881	0.776	0.632
150	-	3.777	2.894	2.104	1.608	1.280	1.111	1.010	0.961	0.902	0.797	0.652
155	-	3.805	2.948	2.133	1.654	1.314	1.139	1.034	0.983	0.924	0.817	0.672
160	-	3.834	3.003	2.162	1.700	1.348	1.167	1.059	1.006	0.946	0.837	0.692
165	-	3.863	3.057	2.191	1.746	1.383	1.195	1.083	1.029	0.968	0.858	0.712
170	-	3.892	3.111	2.220	1.792	1.417	1.224	1.107	1.052	0.990	0.878	0.731
175	-	3.920	3.165	2.250	1.839	1.452	1.252	1.131	1.075	1.012	0.899	0.751
180	-	3.949	3.215	2.279	1.876	1.486	1.280	1.155	1.098	1.034	0.919	0.771
185	-	3.978	3.253	2.308	1.910	1.520	1.308	1.180	1.121	1.056	0.939	0.791
190	-	4.006	3.290	2.337	1.944	1.555	1.336	1.204	1.143	1.077	0.960	0.811
195	-	4.035	3.327	2.366	1.978	1.589	1.364	1.228	1.166	1.099	0.980	0.830
200	-	4.064	3.365	2.395	2.012	1.623	1.392	1.252	1.189	1.121	1.000	0.850
205	-	4.093	3.402	2.425	2.047	1.658	1.420	1.276	1.212	1.143	1.021	0.870
210	-	4.121	3.439	2.454	2.081	1.692	1.448	1.301	1.235	1.165	1.041	0.890
215	-	4.150	3.477	2.483	2.115	1.726	1.476	1.325	1.258	1.187	1.061	0.910
220	-	4.179	3.514	2.512	2.149	1.761	1.504	1.349	1.281	1.209	1.082	0.929
225	-	4.207	3.552	2.541	2.183	1.795	1.532	1.373	1.303	1.230	1.102	0.949
230	-	4.236	3.589	2.570	2.217	1.829	1.560	1.397	1.326	1.252	1.123	0.969
235	-	4.265	3.626	2.599	2.251	1.865	1.588	1.422	1.349	1.274	1.143	0.989
240	-	4.294	3.664	2.629	2.285	1.904	1.617	1.446	1.372	1.296	1.163	1.009
245	-	4.322	3.701	2.658	2.320	1.942	1.645	1.470	1.395	1.318	1.184	1.028
250	-	4.351	3.738	2.687	2.354	1.981	1.673	1.494	1.418	1.340	1.204	1.048
255	-	4.380	3.776	2.716	2.388	2.019	1.701	1.518	1.441	1.362	1.224	1.068
260	-	4.409	3.813	2.745	2.422	2.058	1.729	1.542	1.463	1.384	1.245	1.088
265	-	4.437	3.850	2.774	2.456	2.096	1.757	1.567	1.486	1.405	1.265	1.108
270	-	4.466	3.888	2.804	2.490	2.134	1.785	1.591	1.509	1.427	1.286	1.127
275	-	4.495	3.925	2.833	2.524	2.173	1.813	1.615	1.532	1.449	1.306	1.147
280	-	4.523	3.962	2.862	2.558	2.211	1.841	1.639	1.555	1.471	1.326	1.167
285	-	4.552	4.000	2.891	2.593	2.250	1.880	1.663	1.578	1.493	1.347	1.187
290	-	4.581	4.037	2.920	2.627	2.288	1.925	1.688	1.601	1.515	1.367	1.207
295	-	4.610	4.074	2.949	2.661	2.327	1.970	1.712	1.623	1.537	1.387	1.226
300	-	4.638	4.112	2.978	2.695	2.365	2.014	1.736	1.646	1.558	1.408	1.246
305	-	4.667	4.149	3.008	2.729	2.404	2.059	1.760	1.669	1.580	1.428	1.266
310	-	4.696	4.187	3.037	2.763	2.442	2.104	1.784	1.692	1.602	1.449	1.286
315	-	4.725	4.224	3.066	2.797	2.481	2.149	1.809	1.715	1.624	1.469	1.306
320	-	4.753	4.261	3.095	2.831	2.519	2.193	1.833	1.738	1.646	1.489	1.325
325	-	4.782	4.299	3.124	2.866	2.557	2.238	1.864	1.761	1.668	1.510	1.345
330	-	4.811	4.336	3.153	2.900	2.596	2.283	1.918	1.783	1.690	1.530	1.365
335	-	4.839	4.373	3.183	2.934	2.634	2.328	1.972	1.806	1.712	1.550	1.385
340	-	-	4.411	3.220	2.968	2.673	2.372	2.026	1.829	1.733	1.571	1.405
345	-	-	4.448	3.319	3.002	2.711	2.417	2.080	1.853	1.755	1.591	1.424
350	-	-	4.485	3.417	3.036	2.750	2.462	2.134	1.909	1.777	1.612	1.444
355	-	-	4.523	3.516	3.070	2.788	2.507	2.187	1.964	1.799	1.632	1.464
360	-	-	4.560	3.614	3.104	2.827	2.551	2.241	2.020	1.821	1.652	1.484
365	-	-	4.597	3.713	3.139	2.865	2.596	2.295	2.075	1.843	1.673	1.504

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 105 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	3.902	3.211	1.674	1.191	0.833	0.526	0.470	0.470	0.470	0.470	0.470	0.470
35	4.054	3.258	1.939	1.345	0.918	0.579	0.540	0.517	0.496	0.471	0.470	0.470
40	4.207	3.305	2.249	1.498	1.003	0.631	0.585	0.558	0.533	0.501	0.470	0.470
45	4.359	3.352	2.559	1.651	1.087	0.683	0.630	0.598	0.569	0.532	0.482	0.470
50	4.512	3.399	2.869	1.804	1.172	0.735	0.675	0.639	0.606	0.562	0.505	0.470
55	4.664	3.446	3.178	1.897	1.257	0.788	0.720	0.680	0.642	0.593	0.528	0.470
60	4.817	3.493	3.235	1.964	1.341	0.840	0.765	0.720	0.679	0.623	0.551	0.476
65	-	3.540	3.266	2.031	1.426	0.892	0.810	0.761	0.715	0.654	0.574	0.498
70	-	3.587	3.296	2.098	1.511	0.944	0.855	0.802	0.752	0.684	0.597	0.519
75	-	3.634	3.326	2.165	1.595	0.997	0.900	0.843	0.788	0.715	0.620	0.541
80	-	3.681	3.356	2.232	1.680	1.049	0.946	0.883	0.825	0.745	0.643	0.563
85	-	3.728	3.387	2.298	1.765	1.101	0.991	0.924	0.861	0.776	0.666	0.585
90	-	3.775	3.417	2.365	1.849	1.154	1.036	0.965	0.898	0.806	0.689	0.606
95	-	3.822	3.447	2.432	1.883	1.206	1.081	1.006	0.935	0.837	0.712	0.628
100	-	3.869	3.477	2.499	1.915	1.258	1.126	1.046	0.971	0.867	0.735	0.650
105	-	3.917	3.508	2.566	1.947	1.310	1.171	1.087	1.008	0.898	0.758	0.672
110	-	3.964	3.538	2.632	1.979	1.363	1.216	1.128	1.044	0.929	0.781	0.693
115	-	4.011	3.568	2.699	2.011	1.415	1.261	1.169	1.081	0.959	0.804	0.715
120	-	4.058	3.598	2.766	2.043	1.467	1.306	1.209	1.117	0.990	0.827	0.737
125	-	4.105	3.629	2.833	2.075	1.519	1.351	1.250	1.154	1.020	0.850	0.759
130	-	4.152	3.659	2.900	2.108	1.572	1.396	1.291	1.190	1.051	0.873	0.780
135	-	4.199	3.689	2.967	2.140	1.624	1.441	1.332	1.227	1.081	0.896	0.802
140	-	4.246	3.719	3.033	2.172	1.676	1.487	1.372	1.263	1.112	0.919	0.824
145	-	4.293	3.750	3.100	2.204	1.728	1.532	1.413	1.300	1.142	0.941	0.845
150	-	4.340	3.780	3.167	2.236	1.781	1.577	1.454	1.336	1.173	0.964	0.867
155	-	4.387	3.810	3.222	2.268	1.833	1.622	1.494	1.373	1.203	0.987	0.889
160	-	4.434	3.840	3.258	2.301	1.874	1.667	1.535	1.409	1.234	1.010	0.911
165	-	4.481	3.871	3.295	2.333	1.909	1.712	1.576	1.446	1.264	1.033	0.932
170	-	4.528	3.901	3.331	2.365	1.945	1.757	1.617	1.482	1.295	1.056	0.954
175	-	4.576	3.931	3.367	2.397	1.980	1.802	1.657	1.519	1.325	1.079	0.976
180	-	4.623	3.961	3.403	2.429	2.016	1.847	1.698	1.555	1.356	1.102	0.998
185	-	4.670	3.992	3.440	2.461	2.051	1.884	1.739	1.592	1.386	1.125	1.019
190	-	4.717	4.022	3.476	2.494	2.086	1.920	1.780	1.628	1.417	1.148	1.041
195	-	4.764	4.052	3.512	2.526	2.122	1.956	1.820	1.665	1.447	1.171	1.063
200	-	4.811	4.082	3.548	2.558	2.157	1.992	1.860	1.701	1.478	1.194	1.085
205	-	-	4.113	3.585	2.590	2.192	2.029	1.897	1.738	1.508	1.217	1.106
210	-	-	4.143	3.621	2.622	2.228	2.065	1.934	1.774	1.539	1.240	1.128
215	-	-	4.173	3.657	2.654	2.263	2.101	1.971	1.811	1.569	1.263	1.150
220	-	-	4.203	3.694	2.686	2.298	2.137	2.009	1.847	1.600	1.286	1.172
225	-	-	4.234	3.730	2.719	2.334	2.173	2.046	1.886	1.631	1.309	1.193
230	-	-	4.264	3.766	2.751	2.369	2.209	2.083	1.924	1.661	1.332	1.215
235	-	-	4.294	3.802	2.783	2.404	2.245	2.120	1.963	1.692	1.355	1.237
240	-	-	4.324	3.839	2.815	2.440	2.281	2.157	2.002	1.722	1.378	1.259
245	-	-	4.355	3.875	2.847	2.475	2.318	2.194	2.040	1.753	1.400	1.280
250	-	-	4.385	3.911	2.879	2.510	2.354	2.231	2.079	1.783	1.423	1.302
255	-	-	4.415	3.947	2.912	2.546	2.390	2.268	2.118	1.814	1.446	1.324
260	-	-	4.445	3.984	2.944	2.581	2.426	2.305	2.157	1.844	1.469	1.346
265	-	-	4.476	4.020	2.976	2.616	2.462	2.342	2.195	1.885	1.492	1.367
270	-	-	4.506	4.056	3.008	2.652	2.498	2.379	2.234	1.928	1.515	1.389
275	-	-	4.536	4.092	3.040	2.687	2.534	2.416	2.273	1.971	1.538	1.411
280	-	-	4.566	4.129	3.072	2.723	2.570	2.454	2.311	2.014	1.561	1.432
285	-	-	4.597	4.165	3.105	2.758	2.606	2.491	2.350	2.057	1.584	1.454
290	-	-	4.627	4.201	3.137	2.793	2.643	2.528	2.389	2.100	1.607	1.476
295	-	-	4.657	4.237	3.169	2.829	2.679	2.565	2.428	2.144	1.630	1.498
300	-	-	4.687	4.274	3.201	2.864	2.715	2.602	2.466	2.187	1.653	1.519
305	-	-	4.718	4.310	3.276	2.899	2.751	2.639	2.505	2.230	1.676	1.541
310	-	-	4.748	4.346	3.363	2.935	2.787	2.676	2.544	2.273	1.699	1.563
315	-	-	4.778	4.383	3.450	2.970	2.823	2.713	2.583	2.316	1.722	1.585
320	-	-	4.808	4.419	3.537	3.005	2.859	2.750	2.621	2.359	1.745	1.606
325	-	-	-	4.455	3.624	3.041	2.895	2.787	2.660	2.402	1.768	1.628
330	-	-	-	4.491	3.710	3.076	2.931	2.824	2.699	2.446	1.791	1.650
335	-	-	-	4.528	3.797	3.111	2.968	2.861	2.737	2.489	1.814	1.672
340	-	-	-	4.564	3.884	3.147	3.004	2.899	2.776	2.532	1.837	1.693
345	-	-	-	4.600	3.971	3.182	3.040	2.936	2.815	2.575	1.880	1.715
350	-	-	-	4.636	4.058	3.239	3.076	2.973	2.854	2.618	1.959	1.737
355	-	-	-	4.673	4.145	3.353	3.112	3.010	2.892	2.661	2.037	1.759
360	-	-	-	4.709	4.232	3.467	3.148	3.047	2.931	2.705	2.116	1.780
365	-	-	-	4.745	4.318	3.581	3.184	3.084	2.970	2.748	2.194	1.802

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 120 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	4.419	3.688	3.195	1.665	1.245	0.915	0.581	0.546	0.522	0.470	0.470	0.470
35	-	3.760	3.244	1.920	1.400	1.015	0.663	0.606	0.575	0.536	0.482	0.470
40	-	3.832	3.293	2.255	1.555	1.114	0.745	0.666	0.628	0.583	0.518	0.470
45	-	3.904	3.342	2.591	1.709	1.214	0.827	0.726	0.681	0.629	0.554	0.489
50	-	3.977	3.391	2.926	1.859	1.314	0.909	0.785	0.734	0.676	0.590	0.517
55	-	4.049	3.440	3.214	1.950	1.413	0.991	0.845	0.787	0.722	0.627	0.546
60	-	4.121	3.489	3.252	2.041	1.513	1.073	0.905	0.840	0.769	0.663	0.575
65	-	4.194	3.538	3.290	2.133	1.612	1.155	0.965	0.893	0.815	0.699	0.603
70	-	4.266	3.587	3.327	2.224	1.712	1.237	1.025	0.946	0.862	0.735	0.632
75	-	4.338	3.635	3.365	2.315	1.811	1.319	1.084	0.999	0.909	0.771	0.660
80	-	4.411	3.684	3.403	2.406	1.881	1.401	1.144	1.052	0.955	0.807	0.689
85	-	4.483	3.733	3.441	2.498	1.929	1.483	1.204	1.105	1.002	0.843	0.717
90	-	4.555	3.782	3.478	2.589	1.978	1.564	1.264	1.158	1.048	0.879	0.746
95	-	4.627	3.831	3.516	2.680	2.027	1.646	1.323	1.211	1.095	0.916	0.775
100	-	4.700	3.880	3.554	2.772	2.076	1.728	1.383	1.264	1.141	0.952	0.803
105	-	4.772	3.929	3.592	2.863	2.125	1.810	1.443	1.317	1.188	0.988	0.832
110	-	4.844	3.978	3.630	2.954	2.174	1.868	1.503	1.370	1.235	1.024	0.860
115	-	-	4.027	3.667	3.046	2.223	1.903	1.563	1.423	1.281	1.060	0.889
120	-	-	4.075	3.705	3.137	2.272	1.938	1.622	1.476	1.328	1.096	0.918
125	-	-	4.124	3.743	3.216	2.321	1.972	1.682	1.529	1.374	1.132	0.946
130	-	-	4.173	3.781	3.250	2.370	2.007	1.742	1.582	1.421	1.168	0.975
135	-	-	4.222	3.819	3.284	2.419	2.042	1.802	1.635	1.467	1.205	1.003
140	-	-	4.271	3.856	3.318	2.468	2.076	1.857	1.688	1.514	1.241	1.032
145	-	-	4.320	3.894	3.353	2.517	2.111	1.892	1.741	1.560	1.277	1.060
150	-	-	4.369	3.932	3.387	2.566	2.146	1.928	1.794	1.607	1.313	1.089
155	-	-	4.418	3.970	3.421	2.615	2.180	1.963	1.847	1.654	1.349	1.118
160	-	-	4.467	4.007	3.455	2.664	2.215	1.998	1.884	1.700	1.385	1.146
165	-	-	4.515	4.045	3.490	2.713	2.249	2.033	1.920	1.747	1.421	1.175
170	-	-	4.564	4.083	3.524	2.762	2.284	2.069	1.956	1.793	1.457	1.203
175	-	-	4.613	4.121	3.558	2.811	2.319	2.104	1.992	1.840	1.494	1.232
180	-	-	4.662	4.159	3.593	2.860	2.353	2.139	2.029	1.879	1.530	1.260
185	-	-	4.711	4.196	3.627	2.909	2.388	2.175	2.065	1.915	1.566	1.289
190	-	-	4.760	4.234	3.661	2.958	2.423	2.210	2.101	1.952	1.602	1.318
195	-	-	4.809	4.272	3.695	3.007	2.457	2.245	2.137	1.988	1.638	1.346
200	-	-	-	4.310	3.730	3.056	2.492	2.280	2.173	2.025	1.674	1.375
205	-	-	-	4.348	3.764	3.105	2.526	2.316	2.209	2.061	1.710	1.403
210	-	-	-	4.385	3.798	3.154	2.561	2.351	2.245	2.098	1.746	1.432
215	-	-	-	4.423	3.832	3.203	2.596	2.386	2.281	2.134	1.783	1.461
220	-	-	-	4.461	3.867	3.253	2.630	2.421	2.317	2.171	1.819	1.489
225	-	-	-	4.499	3.901	3.304	2.665	2.457	2.353	2.207	1.856	1.518
230	-	-	-	4.536	3.935	3.354	2.700	2.492	2.390	2.244	1.902	1.546
235	-	-	-	4.574	3.970	3.405	2.734	2.527	2.426	2.280	1.949	1.575
240	-	-	-	4.612	4.004	3.455	2.769	2.562	2.462	2.317	1.996	1.603
245	-	-	-	4.650	4.038	3.506	2.803	2.598	2.498	2.353	2.042	1.632
250	-	-	-	4.688	4.072	3.557	2.838	2.633	2.534	2.390	2.089	1.661
255	-	-	-	4.725	4.107	3.607	2.873	2.668	2.570	2.426	2.135	1.689
260	-	-	-	4.763	4.141	3.658	2.907	2.703	2.606	2.463	2.182	1.718
265	-	-	-	4.801	4.175	3.708	2.942	2.739	2.642	2.499	2.229	1.746
270	-	-	-	4.839	4.209	3.759	2.977	2.774	2.678	2.536	2.275	1.775
275	-	-	-	4.877	4.244	3.810	3.011	2.809	2.714	2.572	2.322	1.804
280	-	-	-	-	4.278	3.860	3.046	2.844	2.751	2.608	2.368	1.832
285	-	-	-	-	4.312	3.911	3.081	2.880	2.787	2.645	2.415	1.870
290	-	-	-	-	4.346	3.961	3.115	2.915	2.823	2.681	2.462	1.927
295	-	-	-	-	4.381	4.012	3.150	2.950	2.859	2.718	2.508	1.984
300	-	-	-	-	4.415	4.063	3.184	2.986	2.895	2.754	2.555	2.041
305	-	-	-	-	4.449	4.113	3.240	3.021	2.931	2.791	2.601	2.098
310	-	-	-	-	4.484	4.164	3.339	3.056	2.967	2.827	2.648	2.155
315	-	-	-	-	4.518	4.214	3.439	3.091	3.003	2.864	2.694	2.212
320	-	-	-	-	4.552	4.265	3.538	3.127	3.039	2.900	2.741	2.268
325	-	-	-	-	4.586	4.315	3.638	3.162	3.075	2.937	2.788	2.325
330	-	-	-	-	4.621	4.366	3.738	3.197	3.112	2.973	2.834	2.382
335	-	-	-	-	4.655	4.417	3.837	3.296	3.148	3.010	2.881	2.439
340	-	-	-	-	4.689	4.467	3.937	3.424	3.184	3.046	2.927	2.496
345	-	-	-	-	4.723	4.518	4.036	3.552	3.250	3.083	2.974	2.553
350	-	-	-	-	4.758	4.568	4.136	3.680	3.377	3.119	3.021	2.610
355	-	-	-	-	4.792	4.619	4.235	3.808	3.504	3.156	3.067	2.667
360	-	-	-	-	4.826	4.670	4.335	3.936	3.631	3.192	3.114	2.723
365	-	-	-	-	4.861	4.720	4.434	4.064	3.758	3.279	3.160	2.780

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Beams: 150 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
30	-	4.521	3.928	3.364	2.589	1.656	1.427	1.284	1.152	0.961	0.566	0.470
35	-	-	4.066	3.478	3.242	1.912	1.615	1.451	1.299	1.082	0.659	0.544
40	-	-	4.204	3.592	3.340	2.365	1.803	1.617	1.446	1.203	0.752	0.628
45	-	-	4.343	3.707	3.438	2.819	2.059	1.784	1.593	1.325	0.845	0.712
50	-	-	4.481	3.821	3.536	3.222	2.339	2.017	1.741	1.446	0.938	0.795
55	-	-	4.619	3.935	3.635	3.319	2.619	2.295	1.926	1.567	1.031	0.879
60	-	-	4.757	4.050	3.733	3.416	2.899	2.573	2.229	1.688	1.124	0.962
65	-	-	4.895	4.164	3.831	3.514	3.179	2.851	2.531	1.810	1.217	1.046
70	-	-	-	4.278	3.929	3.611	3.312	3.130	2.834	2.132	1.310	1.129
75	-	-	-	4.393	4.027	3.708	3.428	3.298	3.136	2.558	1.403	1.213
80	-	-	-	4.507	4.125	3.806	3.544	3.423	3.308	2.984	1.496	1.297
85	-	-	-	4.621	4.223	3.903	3.660	3.549	3.439	3.222	1.589	1.380
90	-	-	-	4.735	4.321	4.000	3.776	3.674	3.569	3.251	1.682	1.464
95	-	-	-	4.850	4.420	4.097	3.892	3.799	3.700	3.280	1.775	1.547
100	-	-	-	-	4.518	4.195	4.008	3.924	3.831	3.309	1.923	1.631
105	-	-	-	-	4.616	4.292	4.124	4.050	3.962	3.338	2.315	1.714
110	-	-	-	-	4.714	4.389	4.239	4.175	4.093	3.367	2.707	1.798
115	-	-	-	-	4.812	4.487	4.355	4.300	4.223	3.396	3.099	1.976
120	-	-	-	-	4.910	4.584	4.471	4.425	4.354	3.425	3.229	2.316
125	-	-	-	-	-	4.681	4.587	4.551	4.485	3.455	3.259	2.657
130	-	-	-	-	-	4.779	4.703	4.676	4.616	3.484	3.289	2.997
135	-	-	-	-	-	4.876	4.819	4.801	4.747	3.513	3.319	3.219
140	-	-	-	-	-	-	4.935	4.927	4.878	3.542	3.349	3.246
145	-	-	-	-	-	-	-	-	-	3.571	3.378	3.274
150	-	-	-	-	-	-	-	-	-	3.600	3.408	3.302
155	-	-	-	-	-	-	-	-	-	3.629	3.438	3.330
160	-	-	-	-	-	-	-	-	-	3.658	3.468	3.357
165	-	-	-	-	-	-	-	-	-	3.687	3.498	3.385
170	-	-	-	-	-	-	-	-	-	3.716	3.527	3.413
175	-	-	-	-	-	-	-	-	-	3.746	3.557	3.441
180	-	-	-	-	-	-	-	-	-	3.775	3.587	3.468
185	-	-	-	-	-	-	-	-	-	3.804	3.617	3.496
190	-	-	-	-	-	-	-	-	-	3.833	3.647	3.524
195	-	-	-	-	-	-	-	-	-	3.862	3.676	3.552
200	-	-	-	-	-	-	-	-	-	3.891	3.706	3.579
205	-	-	-	-	-	-	-	-	-	3.920	3.736	3.607
210	-	-	-	-	-	-	-	-	-	3.949	3.766	3.635
215	-	-	-	-	-	-	-	-	-	3.978	3.796	3.663
220	-	-	-	-	-	-	-	-	-	4.007	3.825	3.690
225	-	-	-	-	-	-	-	-	-	4.037	3.855	3.718
230	-	-	-	-	-	-	-	-	-	4.066	3.885	3.746
235	-	-	-	-	-	-	-	-	-	4.095	3.915	3.774
240	-	-	-	-	-	-	-	-	-	4.124	3.944	3.801
245	-	-	-	-	-	-	-	-	-	4.153	3.974	3.829
250	-	-	-	-	-	-	-	-	-	4.182	4.004	3.857
255	-	-	-	-	-	-	-	-	-	4.211	4.034	3.885
260	-	-	-	-	-	-	-	-	-	4.240	4.064	3.913
265	-	-	-	-	-	-	-	-	-	4.269	4.093	3.940
270	-	-	-	-	-	-	-	-	-	4.298	4.123	3.968
275	-	-	-	-	-	-	-	-	-	4.328	4.153	3.996
280	-	-	-	-	-	-	-	-	-	4.357	4.183	4.024
285	-	-	-	-	-	-	-	-	-	4.386	4.213	4.051
290	-	-	-	-	-	-	-	-	-	4.415	4.242	4.079
295	-	-	-	-	-	-	-	-	-	4.444	4.272	4.107
300	-	-	-	-	-	-	-	-	-	4.473	4.302	4.135
305	-	-	-	-	-	-	-	-	-	4.502	4.332	4.162
310	-	-	-	-	-	-	-	-	-	4.531	4.362	4.190
315	-	-	-	-	-	-	-	-	-	4.560	4.391	4.218
320	-	-	-	-	-	-	-	-	-	4.589	4.421	4.246
325	-	-	-	-	-	-	-	-	-	4.619	4.451	4.273
330	-	-	-	-	-	-	-	-	-	4.648	4.481	4.301
335	-	-	-	-	-	-	-	-	-	4.677	4.511	4.329
340	-	-	-	-	-	-	-	-	-	4.706	4.540	4.357
345	-	-	-	-	-	-	-	-	-	4.735	4.570	4.384
350	-	-	-	-	-	-	-	-	-	4.764	4.600	4.412
355	-	-	-	-	-	-	-	-	-	4.793	4.630	4.440
360	-	-	-	-	-	-	-	-	-	4.822	4.660	4.468
365	-	-	-	-	-	-	-	-	-	4.851	4.689	4.495

Thickness is intumescent only. Results apply to I/H section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 15 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
40	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
45	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
50	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
55	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
60	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
65	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
70	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
75	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
80	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
85	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
90	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
95	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
100	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
105	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
110	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
115	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
120	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
125	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
130	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
135	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
140	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
145	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
150	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
155	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
160	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
165	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
170	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
175	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
180	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
185	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
190	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
195	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
200	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
205	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
210	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
215	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
220	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
225	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
230	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
235	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
240	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
245	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
250	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
255	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
260	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
265	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
270	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
275	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
280	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
285	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
290	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
295	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
300	0.461	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
305	0.481	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
310	0.500	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
315	0.520	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
320	0.539	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
325	0.558	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
330	0.578	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
335	0.597	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
340	0.617	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
345	0.636	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
350	0.655	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
355	0.675	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
360	0.694	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
365	0.714	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
370	0.733	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
375	0.752	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 20 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
40	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
45	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
50	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
55	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
60	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
65	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
70	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
75	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
80	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
85	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
90	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
95	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
100	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
105	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
110	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
115	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
120	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
125	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
130	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
135	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
140	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
145	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
150	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
155	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
160	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
165	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
170	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
175	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
180	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
185	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
190	0.459	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
195	0.482	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
200	0.506	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
205	0.530	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
210	0.553	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
215	0.577	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
220	0.601	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
225	0.624	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
230	0.648	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
235	0.672	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
240	0.695	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
245	0.719	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
250	0.743	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
255	0.766	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
260	0.790	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
265	0.814	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
270	0.837	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
275	0.861	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
280	0.885	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
285	0.908	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
290	0.932	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
295	0.956	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
300	0.979	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
305	1.003	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
310	1.027	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
315	1.050	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
320	1.074	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
325	1.098	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
330	1.121	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
335	1.145	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
340	1.169	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
345	1.192	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
350	1.216	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
355	1.240	0.464	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
360	1.263	0.484	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
365	1.287	0.503	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
370	1.311	0.523	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
375	1.334	0.542	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 30 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
40	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
45	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
50	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
55	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
60	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
65	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
70	0.485	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
75	0.514	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
80	0.542	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
85	0.571	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
90	0.599	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
95	0.628	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
100	0.656	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
105	0.684	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
110	0.713	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
115	0.741	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
120	0.770	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
125	0.798	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
130	0.827	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
135	0.855	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
140	0.883	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
145	0.912	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
150	0.940	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
155	0.969	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
160	0.997	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
165	1.026	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
170	1.054	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
175	1.082	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
180	1.111	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
185	1.139	0.476	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
190	1.168	0.501	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
195	1.196	0.526	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
200	1.225	0.551	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
205	1.253	0.576	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
210	1.282	0.601	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
215	1.310	0.626	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
220	1.338	0.651	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
225	1.367	0.676	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
230	1.395	0.701	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
235	1.424	0.726	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
240	1.452	0.751	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
245	1.481	0.776	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
250	1.509	0.801	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
255	1.537	0.826	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
260	1.566	0.850	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
265	1.594	0.875	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
270	1.623	0.900	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
275	1.651	0.925	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
280	1.680	0.950	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
285	1.708	0.975	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
290	1.736	1.000	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
295	1.765	1.025	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
300	1.793	1.050	0.465	0.457	0.457	0.457	0.457	0.457	0.457	0.457
305	1.822	1.075	0.489	0.457	0.457	0.457	0.457	0.457	0.457	0.457
310	1.850	1.100	0.514	0.457	0.457	0.457	0.457	0.457	0.457	0.457
315	1.879	1.125	0.538	0.457	0.457	0.457	0.457	0.457	0.457	0.457
320	1.907	1.150	0.562	0.457	0.457	0.457	0.457	0.457	0.457	0.457
325	1.935	1.175	0.586	0.457	0.457	0.457	0.457	0.457	0.457	0.457
330	1.964	1.200	0.610	0.457	0.457	0.457	0.457	0.457	0.457	0.457
335	1.992	1.225	0.634	0.457	0.457	0.457	0.457	0.457	0.457	0.457
340	2.021	1.249	0.658	0.457	0.457	0.457	0.457	0.457	0.457	0.457
345	2.055	1.274	0.683	0.457	0.457	0.457	0.457	0.457	0.457	0.457
350	2.092	1.299	0.707	0.457	0.457	0.457	0.457	0.457	0.457	0.457
355	2.129	1.324	0.731	0.457	0.457	0.457	0.457	0.457	0.457	0.457
360	2.166	1.349	0.755	0.457	0.457	0.457	0.457	0.457	0.457	0.457
365	2.202	1.374	0.779	0.457	0.457	0.457	0.457	0.457	0.457	0.457
370	2.239	1.399	0.803	0.457	0.457	0.457	0.457	0.457	0.457	0.457
375	2.276	1.424	0.828	0.457	0.457	0.457	0.457	0.457	0.457	0.457

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
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CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 45 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	0.493	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
40	0.587	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
45	0.681	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
50	0.776	0.470	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
55	0.870	0.502	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
60	0.964	0.534	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
65	1.059	0.566	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
70	1.153	0.598	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
75	1.247	0.630	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
80	1.342	0.662	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
85	1.436	0.693	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
90	1.530	0.725	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
95	1.625	0.757	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
100	1.719	0.789	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
105	1.813	0.821	0.464	0.457	0.457	0.457	0.457	0.457	0.457	0.457
110	1.908	0.853	0.490	0.457	0.457	0.457	0.457	0.457	0.457	0.457
115	2.002	0.885	0.516	0.457	0.457	0.457	0.457	0.457	0.457	0.457
120	2.049	0.917	0.542	0.457	0.457	0.457	0.457	0.457	0.457	0.457
125	2.079	0.949	0.567	0.457	0.457	0.457	0.457	0.457	0.457	0.457
130	2.108	0.980	0.593	0.457	0.457	0.457	0.457	0.457	0.457	0.457
135	2.137	1.012	0.619	0.457	0.457	0.457	0.457	0.457	0.457	0.457
140	2.167	1.044	0.645	0.457	0.457	0.457	0.457	0.457	0.457	0.457
145	2.196	1.076	0.670	0.457	0.457	0.457	0.457	0.457	0.457	0.457
150	2.226	1.108	0.696	0.457	0.457	0.457	0.457	0.457	0.457	0.457
155	2.255	1.140	0.722	0.457	0.457	0.457	0.457	0.457	0.457	0.457
160	2.284	1.172	0.748	0.457	0.457	0.457	0.457	0.457	0.457	0.457
165	2.314	1.204	0.773	0.457	0.457	0.457	0.457	0.457	0.457	0.457
170	2.343	1.235	0.799	0.457	0.457	0.457	0.457	0.457	0.457	0.457
175	2.373	1.267	0.825	0.457	0.457	0.457	0.457	0.457	0.457	0.457
180	2.402	1.299	0.851	0.457	0.457	0.457	0.457	0.457	0.457	0.457
185	2.431	1.331	0.876	0.457	0.457	0.457	0.457	0.457	0.457	0.457
190	2.461	1.363	0.902	0.463	0.457	0.457	0.457	0.457	0.457	0.457
195	2.490	1.395	0.928	0.491	0.457	0.457	0.457	0.457	0.457	0.457
200	2.520	1.427	0.954	0.518	0.457	0.457	0.457	0.457	0.457	0.457
205	2.549	1.459	0.979	0.545	0.457	0.457	0.457	0.457	0.457	0.457
210	2.579	1.490	1.005	0.573	0.457	0.457	0.457	0.457	0.457	0.457
215	2.608	1.522	1.031	0.600	0.457	0.457	0.457	0.457	0.457	0.457
220	2.637	1.554	1.057	0.627	0.457	0.457	0.457	0.457	0.457	0.457
225	2.667	1.586	1.082	0.655	0.457	0.457	0.457	0.457	0.457	0.457
230	2.696	1.618	1.108	0.682	0.457	0.457	0.457	0.457	0.457	0.457
235	2.726	1.650	1.134	0.710	0.457	0.457	0.457	0.457	0.457	0.457
240	2.755	1.682	1.159	0.737	0.457	0.457	0.457	0.457	0.457	0.457
245	2.784	1.714	1.185	0.764	0.457	0.457	0.457	0.457	0.457	0.457
250	2.814	1.745	1.211	0.792	0.457	0.457	0.457	0.457	0.457	0.457
255	2.843	1.777	1.237	0.819	0.477	0.457	0.457	0.457	0.457	0.457
260	2.873	1.809	1.262	0.847	0.504	0.457	0.457	0.457	0.457	0.457
265	2.902	1.841	1.288	0.874	0.531	0.457	0.457	0.457	0.457	0.457
270	2.931	1.873	1.314	0.901	0.557	0.457	0.457	0.457	0.457	0.457
275	2.961	1.905	1.340	0.929	0.584	0.457	0.457	0.457	0.457	0.457
280	2.990	1.937	1.365	0.956	0.611	0.457	0.457	0.457	0.457	0.457
285	3.020	1.969	1.391	0.984	0.638	0.457	0.457	0.457	0.457	0.457
290	3.049	2.000	1.417	1.011	0.664	0.457	0.457	0.457	0.457	0.457
295	3.078	2.033	1.443	1.038	0.691	0.457	0.457	0.457	0.457	0.457
300	3.108	2.073	1.468	1.066	0.718	0.457	0.457	0.457	0.457	0.457
305	3.137	2.113	1.494	1.093	0.745	0.457	0.457	0.457	0.457	0.457
310	3.167	2.153	1.520	1.121	0.771	0.457	0.457	0.457	0.457	0.457
315	3.196	2.193	1.546	1.148	0.798	0.457	0.457	0.457	0.457	0.457
320	3.225	2.232	1.571	1.175	0.825	0.457	0.457	0.457	0.457	0.457
325	3.255	2.272	1.597	1.203	0.852	0.457	0.457	0.457	0.457	0.457
330	3.284	2.312	1.623	1.230	0.879	0.473	0.457	0.457	0.457	0.457
335	3.314	2.352	1.649	1.257	0.905	0.500	0.457	0.457	0.457	0.457
340	3.343	2.392	1.674	1.285	0.932	0.527	0.457	0.457	0.457	0.457
345	3.372	2.431	1.700	1.312	0.959	0.553	0.457	0.457	0.457	0.457
350	3.410	2.471	1.726	1.340	0.986	0.580	0.457	0.457	0.457	0.457
355	3.466	2.511	1.752	1.367	1.012	0.607	0.457	0.457	0.457	0.457
360	3.522	2.551	1.777	1.394	1.039	0.634	0.457	0.457	0.457	0.457
365	3.579	2.591	1.803	1.422	1.066	0.661	0.457	0.457	0.457	0.457
370	3.635	2.630	1.829	1.449	1.093	0.688	0.472	0.457	0.457	0.457
375	3.691	2.670	1.854	1.477	1.120	0.715	0.495	0.457	0.457	0.457

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 60 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	0.948	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	1.172	0.555	0.457	0.457	0.457	0.457	0.457	0.457	0.457	0.457
40	1.395	0.642	0.473	0.457	0.457	0.457	0.457	0.457	0.457	0.457
45	1.618	0.729	0.512	0.457	0.457	0.457	0.457	0.457	0.457	0.457
50	1.841	0.815	0.551	0.457	0.457	0.457	0.457	0.457	0.457	0.457
55	2.052	0.902	0.589	0.457	0.457	0.457	0.457	0.457	0.457	0.457
60	2.201	0.988	0.628	0.465	0.457	0.457	0.457	0.457	0.457	0.457
65	2.350	1.075	0.666	0.492	0.457	0.457	0.457	0.457	0.457	0.457
70	2.499	1.162	0.705	0.519	0.457	0.457	0.457	0.457	0.457	0.457
75	2.648	1.248	0.744	0.546	0.457	0.457	0.457	0.457	0.457	0.457
80	2.797	1.335	0.782	0.572	0.457	0.457	0.457	0.457	0.457	0.457
85	2.946	1.421	0.821	0.599	0.457	0.457	0.457	0.457	0.457	0.457
90	3.094	1.508	0.859	0.626	0.457	0.457	0.457	0.457	0.457	0.457
95	3.243	1.595	0.898	0.652	0.457	0.457	0.457	0.457	0.457	0.457
100	3.392	1.681	0.937	0.679	0.457	0.457	0.457	0.457	0.457	0.457
105	3.424	1.768	0.975	0.706	0.457	0.457	0.457	0.457	0.457	0.457
110	3.454	1.855	1.014	0.733	0.457	0.457	0.457	0.457	0.457	0.457
115	3.485	1.941	1.052	0.759	0.484	0.457	0.457	0.457	0.457	0.457
120	3.516	2.028	1.091	0.786	0.511	0.457	0.457	0.457	0.457	0.457
125	3.546	2.058	1.130	0.813	0.538	0.457	0.457	0.457	0.457	0.457
130	3.577	2.088	1.168	0.839	0.565	0.457	0.457	0.457	0.457	0.457
135	3.608	2.118	1.207	0.866	0.592	0.457	0.457	0.457	0.457	0.457
140	3.639	2.148	1.245	0.893	0.619	0.457	0.457	0.457	0.457	0.457
145	3.669	2.178	1.284	0.920	0.646	0.457	0.457	0.457	0.457	0.457
150	3.700	2.208	1.323	0.946	0.673	0.457	0.457	0.457	0.457	0.457
155	3.731	2.238	1.361	0.973	0.700	0.457	0.457	0.457	0.457	0.457
160	3.761	2.268	1.400	1.000	0.727	0.457	0.457	0.457	0.457	0.457
165	3.792	2.298	1.439	1.026	0.753	0.457	0.457	0.457	0.457	0.457
170	3.823	2.328	1.477	1.053	0.780	0.457	0.457	0.457	0.457	0.457
175	3.854	2.358	1.516	1.080	0.807	0.457	0.457	0.457	0.457	0.457
180	3.884	2.388	1.554	1.107	0.834	0.485	0.457	0.457	0.457	0.457
185	3.915	2.418	1.593	1.133	0.861	0.513	0.457	0.457	0.457	0.457
190	3.946	2.448	1.632	1.160	0.888	0.541	0.457	0.457	0.457	0.457
195	3.977	2.478	1.670	1.187	0.915	0.570	0.457	0.457	0.457	0.457
200	4.007	2.508	1.709	1.213	0.942	0.598	0.457	0.457	0.457	0.457
205	4.038	2.538	1.747	1.240	0.969	0.626	0.457	0.457	0.457	0.457
210	4.069	2.568	1.786	1.267	0.996	0.654	0.457	0.457	0.457	0.457
215	4.099	2.598	1.825	1.294	1.023	0.683	0.469	0.457	0.457	0.457
220	4.130	2.628	1.863	1.320	1.050	0.711	0.495	0.457	0.457	0.457
225	4.161	2.658	1.902	1.347	1.077	0.739	0.522	0.457	0.457	0.457
230	4.192	2.688	1.940	1.374	1.104	0.767	0.548	0.457	0.457	0.457
235	4.222	2.718	1.979	1.400	1.131	0.796	0.575	0.457	0.457	0.457
240	4.253	2.748	2.018	1.427	1.158	0.824	0.601	0.457	0.457	0.457
245	4.284	2.778	2.057	1.454	1.185	0.852	0.628	0.457	0.457	0.457
250	4.314	2.808	2.097	1.481	1.212	0.880	0.655	0.457	0.457	0.457
255	4.345	2.838	2.138	1.507	1.239	0.909	0.681	0.481	0.457	0.457
260	4.376	2.869	2.178	1.534	1.266	0.937	0.708	0.506	0.457	0.457
265	4.407	2.899	2.218	1.561	1.292	0.965	0.734	0.531	0.457	0.457
270	4.437	2.929	2.258	1.587	1.319	0.994	0.761	0.556	0.457	0.457
275	4.468	2.959	2.298	1.614	1.346	1.022	0.787	0.581	0.457	0.457
280	4.499	2.989	2.338	1.641	1.373	1.050	0.814	0.606	0.457	0.457
285	4.530	3.019	2.378	1.668	1.400	1.078	0.840	0.631	0.457	0.457
290	4.560	3.049	2.419	1.694	1.427	1.107	0.867	0.656	0.457	0.457
295	4.591	3.079	2.459	1.721	1.454	1.135	0.893	0.681	0.468	0.457
300	4.622	3.109	2.499	1.748	1.481	1.163	0.920	0.706	0.492	0.457
305	4.652	3.139	2.539	1.774	1.508	1.191	0.946	0.731	0.515	0.457
310	4.683	3.169	2.579	1.801	1.535	1.220	0.973	0.756	0.539	0.457
315	4.714	3.199	2.619	1.828	1.562	1.248	0.999	0.781	0.563	0.457
320	4.745	3.229	2.659	1.854	1.589	1.276	1.026	0.806	0.586	0.457
325	4.775	3.259	2.699	1.881	1.616	1.304	1.052	0.831	0.610	0.457
330	4.806	3.289	2.740	1.908	1.643	1.333	1.079	0.856	0.633	0.457
335	4.837	3.319	2.780	1.935	1.670	1.361	1.105	0.881	0.657	0.466
340	4.867	3.349	2.820	1.961	1.697	1.389	1.132	0.906	0.681	0.487
345	4.898	3.379	2.860	1.988	1.724	1.418	1.158	0.931	0.704	0.508
350	4.929	3.426	2.900	2.015	1.751	1.446	1.185	0.956	0.728	0.528
355	4.960	3.488	2.940	2.061	1.778	1.474	1.211	0.981	0.751	0.549
360	4.990	3.551	2.980	2.125	1.805	1.502	1.238	1.006	0.775	0.570
365	5.021	3.613	3.021	2.190	1.832	1.531	1.264	1.031	0.799	0.590
370	5.052	3.675	3.061	2.254	1.858	1.559	1.291	1.056	0.822	0.611
375	5.155	3.737	3.101	2.318	1.885	1.587	1.317	1.081	0.846	0.631

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

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CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 75 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	1.661	0.966	0.526	0.457	0.457	0.457	0.457	0.457	0.457	0.457
35	2.007	1.152	0.621	0.491	0.457	0.457	0.457	0.457	0.457	0.457
40	2.549	1.338	0.715	0.537	0.457	0.457	0.457	0.457	0.457	0.457
45	3.103	1.525	0.809	0.583	0.476	0.457	0.457	0.457	0.457	0.457
50	3.425	1.711	0.904	0.629	0.509	0.457	0.457	0.457	0.457	0.457
55	3.492	1.897	0.998	0.675	0.543	0.457	0.457	0.457	0.457	0.457
60	3.559	2.054	1.093	0.721	0.576	0.457	0.457	0.457	0.457	0.457
65	3.626	2.142	1.187	0.767	0.610	0.479	0.457	0.457	0.457	0.457
70	3.692	2.231	1.282	0.813	0.644	0.505	0.457	0.457	0.457	0.457
75	3.759	2.319	1.376	0.859	0.677	0.532	0.457	0.457	0.457	0.457
80	3.826	2.407	1.471	0.905	0.711	0.558	0.457	0.457	0.457	0.457
85	3.893	2.495	1.565	0.951	0.744	0.585	0.457	0.457	0.457	0.457
90	3.960	2.584	1.660	0.997	0.778	0.611	0.457	0.457	0.457	0.457
95	4.027	2.672	1.754	1.043	0.812	0.638	0.457	0.457	0.457	0.457
100	4.094	2.760	1.849	1.089	0.845	0.664	0.469	0.457	0.457	0.457
105	4.160	2.848	1.943	1.135	0.879	0.691	0.495	0.457	0.457	0.457
110	4.227	2.937	2.032	1.181	0.912	0.718	0.522	0.457	0.457	0.457
115	4.294	3.025	2.070	1.227	0.946	0.744	0.548	0.457	0.457	0.457
120	4.361	3.113	2.108	1.273	0.979	0.771	0.574	0.457	0.457	0.457
125	4.428	3.202	2.146	1.319	1.013	0.797	0.600	0.457	0.457	0.457
130	4.495	3.290	2.184	1.365	1.047	0.824	0.626	0.457	0.457	0.457
135	4.562	3.378	2.222	1.411	1.080	0.850	0.652	0.457	0.457	0.457
140	4.629	3.421	2.260	1.457	1.114	0.877	0.678	0.457	0.457	0.457
145	4.695	3.455	2.299	1.503	1.147	0.903	0.704	0.457	0.457	0.457
150	4.762	3.488	2.337	1.549	1.181	0.930	0.730	0.457	0.457	0.457
155	4.829	3.522	2.375	1.595	1.214	0.956	0.757	0.465	0.457	0.457
160	4.896	3.555	2.413	1.641	1.248	0.983	0.783	0.493	0.457	0.457
165	4.963	3.589	2.451	1.687	1.282	1.009	0.809	0.520	0.457	0.457
170	5.030	3.623	2.489	1.733	1.315	1.036	0.835	0.548	0.457	0.457
175	5.082	3.656	2.527	1.779	1.349	1.062	0.861	0.576	0.460	0.457
180	5.125	3.690	2.565	1.825	1.382	1.089	0.887	0.603	0.485	0.457
185	5.168	3.723	2.603	1.871	1.416	1.115	0.913	0.631	0.511	0.457
190	5.211	3.757	2.642	1.917	1.450	1.142	0.939	0.659	0.537	0.457
195	5.253	3.791	2.680	1.963	1.483	1.168	0.965	0.686	0.563	0.457
200	5.296	3.824	2.718	2.009	1.517	1.195	0.991	0.714	0.589	0.464
205	5.339	3.858	2.756	2.053	1.550	1.221	1.018	0.742	0.615	0.487
210	5.382	3.891	2.794	2.095	1.584	1.248	1.044	0.769	0.641	0.511
215	5.424	3.925	2.832	2.137	1.617	1.274	1.070	0.797	0.667	0.535
220	5.467	3.959	2.870	2.179	1.651	1.301	1.096	0.825	0.693	0.558
225	5.510	3.992	2.908	2.221	1.685	1.328	1.122	0.852	0.719	0.582
230	5.553	4.026	2.946	2.264	1.718	1.354	1.148	0.880	0.745	0.605
235	5.596	4.059	2.984	2.306	1.752	1.381	1.174	0.908	0.771	0.629
240	5.638	4.093	3.023	2.348	1.785	1.407	1.200	0.935	0.797	0.653
245	5.681	4.127	3.061	2.390	1.819	1.434	1.226	0.963	0.822	0.676
250	5.724	4.160	3.099	2.432	1.852	1.460	1.252	0.990	0.848	0.700
255	5.767	4.194	3.137	2.474	1.886	1.487	1.279	1.018	0.874	0.723
260	5.809	4.227	3.175	2.516	1.920	1.513	1.305	1.046	0.900	0.747
265	5.852	4.261	3.213	2.558	1.953	1.540	1.331	1.073	0.926	0.770
270	5.895	4.295	3.251	2.601	1.987	1.566	1.357	1.101	0.952	0.794
275	5.938	4.328	3.289	2.643	2.020	1.593	1.383	1.129	0.978	0.818
280	5.980	4.362	3.327	2.685	2.070	1.619	1.409	1.156	1.004	0.841
285	6.023	4.395	3.366	2.727	2.125	1.646	1.435	1.184	1.030	0.865
290	6.066	4.429	3.410	2.769	2.180	1.672	1.461	1.212	1.056	0.888
295	6.109	4.463	3.470	2.811	2.234	1.699	1.487	1.239	1.082	0.912
300	6.151	4.496	3.530	2.853	2.289	1.725	1.513	1.267	1.108	0.936
305	6.194	4.530	3.590	2.896	2.344	1.752	1.540	1.295	1.134	0.959
310	6.237	4.563	3.650	2.938	2.399	1.778	1.566	1.322	1.159	0.983
315	6.280	4.597	3.710	2.980	2.453	1.805	1.592	1.350	1.185	1.006
320	6.322	4.631	3.770	3.022	2.508	1.831	1.618	1.378	1.211	1.030
325	6.365	4.664	3.830	3.064	2.563	1.858	1.644	1.405	1.237	1.053
330	6.408	4.698	3.890	3.106	2.617	1.885	1.670	1.433	1.263	1.077
335	6.451	4.731	3.950	3.148	2.672	1.911	1.696	1.461	1.289	1.101
340	6.494	4.765	4.010	3.190	2.727	1.938	1.722	1.488	1.315	1.124
345	6.536	4.799	4.070	3.233	2.782	1.964	1.748	1.516	1.341	1.148
350	6.579	4.832	4.130	3.275	2.836	1.991	1.774	1.544	1.367	1.171
355	6.622	4.866	4.190	3.317	2.891	2.017	1.801	1.571	1.393	1.195
360	6.665	4.899	4.250	3.359	2.946	2.077	1.827	1.599	1.419	1.219
365	6.707	4.933	4.310	3.409	3.000	2.159	1.853	1.626	1.445	1.242
370	6.750	4.967	4.370	3.493	3.055	2.242	1.879	1.654	1.470	1.266
375	6.793	5.000	4.430	3.578	3.110	2.324	1.905	1.682	1.496	1.289

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
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CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Table 7 I/H Columns: 90 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	3.352	1.535	1.025	0.585	0.457	0.457	0.457	0.457	0.457	0.457
35	3.517	1.819	1.199	0.696	0.541	0.464	0.457	0.457	0.457	0.457
40	3.682	2.136	1.374	0.807	0.592	0.504	0.457	0.457	0.457	0.457
45	3.848	2.551	1.549	0.918	0.643	0.544	0.460	0.457	0.457	0.457
50	4.013	2.965	1.723	1.029	0.694	0.583	0.491	0.457	0.457	0.457
55	4.178	3.379	1.898	1.139	0.745	0.623	0.522	0.457	0.457	0.457
60	4.344	3.434	2.053	1.250	0.796	0.663	0.552	0.467	0.457	0.457
65	4.509	3.477	2.150	1.361	0.846	0.703	0.583	0.493	0.457	0.457
70	4.674	3.519	2.247	1.472	0.897	0.742	0.614	0.520	0.457	0.457
75	4.840	3.562	2.344	1.583	0.948	0.782	0.645	0.546	0.457	0.457
80	5.005	3.605	2.441	1.693	0.999	0.822	0.676	0.572	0.474	0.457
85	5.100	3.647	2.538	1.804	1.050	0.862	0.707	0.598	0.499	0.457
90	5.162	3.690	2.635	1.915	1.101	0.901	0.737	0.625	0.524	0.457
95	5.225	3.733	2.732	2.026	1.152	0.941	0.768	0.651	0.550	0.457
100	5.287	3.775	2.829	2.079	1.203	0.981	0.799	0.677	0.575	0.457
105	5.350	3.818	2.926	2.132	1.254	1.020	0.830	0.703	0.601	0.457
110	5.412	3.861	3.023	2.184	1.305	1.060	0.861	0.730	0.626	0.465
115	5.475	3.903	3.120	2.237	1.356	1.100	0.891	0.756	0.651	0.490
120	5.537	3.946	3.217	2.289	1.407	1.140	0.922	0.782	0.677	0.515
125	5.600	3.988	3.314	2.342	1.458	1.179	0.953	0.808	0.702	0.540
130	5.662	4.031	3.400	2.394	1.509	1.219	0.984	0.835	0.728	0.565
135	5.725	4.074	3.437	2.447	1.560	1.259	1.015	0.861	0.753	0.590
140	5.787	4.116	3.474	2.499	1.611	1.299	1.046	0.887	0.778	0.615
145	5.850	4.159	3.510	2.552	1.662	1.338	1.076	0.913	0.804	0.640
150	5.912	4.202	3.547	2.604	1.713	1.378	1.107	0.940	0.829	0.665
155	5.975	4.244	3.584	2.657	1.764	1.418	1.138	0.966	0.854	0.690
160	6.037	4.287	3.621	2.709	1.815	1.458	1.169	0.992	0.880	0.715
165	6.100	4.330	3.658	2.762	1.865	1.497	1.200	1.018	0.905	0.739
170	6.162	4.372	3.695	2.814	1.916	1.537	1.230	1.045	0.931	0.764
175	6.225	4.415	3.731	2.867	1.967	1.577	1.261	1.071	0.956	0.789
180	6.287	4.457	3.768	2.919	2.018	1.617	1.292	1.097	0.981	0.814
185	6.350	4.500	3.805	2.972	2.070	1.656	1.323	1.123	1.007	0.839
190	6.412	4.543	3.842	3.024	2.123	1.696	1.354	1.150	1.032	0.864
195	6.475	4.585	3.879	3.077	2.175	1.736	1.385	1.176	1.057	0.889
200	6.537	4.628	3.916	3.129	2.227	1.776	1.415	1.202	1.083	0.914
205	6.600	4.671	3.952	3.182	2.280	1.815	1.446	1.228	1.108	0.939
210	6.662	4.713	3.989	3.234	2.332	1.855	1.477	1.255	1.134	0.964
215	6.725	4.756	4.026	3.286	2.385	1.895	1.508	1.281	1.159	0.989
220	6.787	4.798	4.063	3.339	2.437	1.935	1.539	1.307	1.184	1.014
225	6.850	4.841	4.100	3.391	2.489	1.974	1.569	1.333	1.210	1.038
230	-	4.884	4.137	3.444	2.542	2.014	1.600	1.360	1.235	1.063
235	-	4.926	4.174	3.496	2.594	2.062	1.631	1.386	1.260	1.088
240	-	4.969	4.210	3.549	2.646	2.114	1.662	1.412	1.286	1.113
245	-	5.012	4.247	3.601	2.699	2.166	1.693	1.438	1.311	1.138
250	-	5.054	4.284	3.653	2.751	2.218	1.724	1.465	1.337	1.163
255	-	5.121	4.321	3.706	2.803	2.270	1.754	1.491	1.362	1.188
260	-	5.189	4.358	3.758	2.856	2.322	1.785	1.517	1.387	1.213
265	-	5.257	4.395	3.811	2.908	2.374	1.816	1.543	1.413	1.238
270	-	5.325	4.431	3.863	2.960	2.426	1.847	1.570	1.438	1.263
275	-	5.393	4.468	3.916	3.013	2.478	1.878	1.596	1.464	1.288
280	-	5.461	4.505	3.968	3.065	2.530	1.908	1.622	1.489	1.313
285	-	5.529	4.542	4.020	3.117	2.582	1.939	1.648	1.514	1.337
290	-	5.597	4.579	4.073	3.170	2.634	1.970	1.675	1.540	1.362
295	-	5.665	4.616	4.125	3.222	2.686	2.001	1.701	1.565	1.387
300	-	5.733	4.652	4.178	3.275	2.738	2.037	1.727	1.590	1.412
305	-	5.801	4.689	4.230	3.327	2.791	2.107	1.753	1.616	1.437
310	-	5.870	4.726	4.282	3.379	2.843	2.177	1.780	1.641	1.462
315	-	5.938	4.763	4.335	3.434	2.895	2.247	1.806	1.667	1.487
320	-	6.006	4.800	4.387	3.537	2.947	2.317	1.832	1.692	1.512
325	-	6.074	4.837	4.440	3.620	2.999	2.387	1.858	1.717	1.537
330	-	6.142	4.874	4.492	3.703	3.051	2.458	1.885	1.743	1.562
335	-	6.210	4.910	4.544	3.786	3.103	2.528	1.911	1.768	1.587
340	-	6.278	4.947	4.597	3.868	3.155	2.598	1.937	1.793	1.612
345	-	6.346	4.984	4.649	3.951	3.207	2.668	1.963	1.819	1.636
350	-	6.414	5.021	4.702	4.034	3.259	2.738	1.990	1.844	1.661
355	-	6.482	5.061	4.754	4.117	3.311	2.808	2.016	1.870	1.686
360	-	6.550	5.263	4.806	4.200	3.363	2.879	2.080	1.895	1.711
365	-	6.618	5.464	4.859	4.283	3.438	2.949	2.177	1.920	1.736
370	-	6.686	5.666	4.911	4.366	3.543	3.019	2.274	1.946	1.761
375	-	6.754	5.868	4.964	4.449	3.647	3.089	2.370	1.971	1.786

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 105 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	3.878	2.290	1.508	1.083	0.642	0.457	0.457	0.457	0.457	0.457
35	4.129	3.401	1.765	1.259	0.766	0.586	0.504	0.457	0.457	0.457
40	4.380	3.502	2.022	1.434	0.890	0.651	0.549	0.485	0.457	0.457
45	4.632	3.603	2.423	1.609	1.014	0.717	0.594	0.522	0.466	0.457
50	4.883	3.704	2.827	1.784	1.137	0.782	0.639	0.560	0.498	0.457
55	5.118	3.805	3.231	1.959	1.261	0.848	0.684	0.597	0.530	0.457
60	5.317	3.906	3.422	2.114	1.385	0.913	0.728	0.635	0.561	0.473
65	5.517	4.007	3.470	2.255	1.509	0.979	0.773	0.672	0.593	0.500
70	5.716	4.108	3.519	2.397	1.633	1.044	0.818	0.710	0.624	0.526
75	5.915	4.209	3.567	2.538	1.757	1.110	0.863	0.748	0.656	0.553
80	6.115	4.310	3.615	2.680	1.880	1.175	0.908	0.785	0.687	0.580
85	6.314	4.411	3.663	2.821	2.004	1.241	0.953	0.823	0.719	0.606
90	6.513	4.513	3.712	2.963	2.078	1.306	0.998	0.860	0.750	0.633
95	6.713	4.614	3.760	3.105	2.139	1.372	1.042	0.898	0.782	0.660
100	6.912	4.715	3.808	3.246	2.200	1.437	1.087	0.935	0.814	0.686
105	-	4.816	3.857	3.388	2.261	1.503	1.132	0.973	0.845	0.713
110	-	4.917	3.905	3.433	2.323	1.568	1.177	1.010	0.877	0.739
115	-	5.018	3.953	3.474	2.384	1.634	1.222	1.048	0.908	0.766
120	-	5.092	4.002	3.515	2.445	1.699	1.267	1.085	0.940	0.793
125	-	5.150	4.050	3.556	2.507	1.765	1.312	1.123	0.971	0.819
130	-	5.208	4.098	3.597	2.568	1.830	1.357	1.160	1.003	0.846
135	-	5.265	4.146	3.638	2.629	1.896	1.401	1.198	1.035	0.873
140	-	5.323	4.195	3.679	2.691	1.961	1.446	1.235	1.066	0.899
145	-	5.380	4.243	3.720	2.752	2.027	1.491	1.273	1.098	0.926
150	-	5.438	4.291	3.762	2.813	2.088	1.536	1.310	1.129	0.952
155	-	5.496	4.340	3.803	2.874	2.150	1.581	1.348	1.161	0.979
160	-	5.553	4.388	3.844	2.936	2.212	1.626	1.385	1.192	1.006
165	-	5.611	4.436	3.885	2.997	2.274	1.671	1.423	1.224	1.032
170	-	5.669	4.484	3.926	3.058	2.335	1.715	1.461	1.255	1.059
175	-	5.726	4.533	3.967	3.120	2.397	1.760	1.498	1.287	1.086
180	-	5.784	4.581	4.008	3.181	2.459	1.805	1.536	1.319	1.112
185	-	5.841	4.629	4.050	3.242	2.521	1.850	1.573	1.350	1.139
190	-	5.899	4.678	4.091	3.304	2.582	1.895	1.611	1.382	1.165
195	-	5.957	4.726	4.132	3.365	2.644	1.940	1.648	1.413	1.192
200	-	6.014	4.774	4.173	3.422	2.706	1.985	1.686	1.445	1.219
205	-	6.072	4.823	4.214	3.476	2.767	2.030	1.723	1.476	1.245
210	-	6.130	4.871	4.255	3.530	2.829	2.085	1.761	1.508	1.272
215	-	6.187	4.919	4.296	3.584	2.891	2.140	1.798	1.540	1.299
220	-	6.245	4.967	4.337	3.638	2.953	2.195	1.836	1.571	1.325
225	-	6.302	5.016	4.379	3.693	3.014	2.250	1.873	1.603	1.352
230	-	6.360	5.067	4.420	3.747	3.076	2.305	1.911	1.634	1.378
235	-	6.418	5.139	4.461	3.801	3.138	2.359	1.948	1.666	1.405
240	-	6.475	5.210	4.502	3.855	3.199	2.414	1.986	1.697	1.432
245	-	6.533	5.282	4.543	3.909	3.261	2.469	2.023	1.729	1.458
250	-	6.590	5.353	4.584	3.963	3.323	2.524	2.080	1.760	1.485
255	-	6.648	5.425	4.625	4.017	3.385	2.579	2.139	1.792	1.511
260	-	6.706	5.496	4.667	4.071	3.453	2.634	2.197	1.824	1.538
265	-	6.763	5.568	4.708	4.125	3.521	2.689	2.256	1.855	1.565
270	-	6.821	5.640	4.749	4.179	3.590	2.744	2.315	1.887	1.591
275	-	6.879	5.711	4.790	4.233	3.659	2.799	2.374	1.918	1.618
280	-	-	5.783	4.831	4.287	3.728	2.854	2.433	1.950	1.645
285	-	-	5.854	4.872	4.341	3.797	2.909	2.492	1.981	1.671
290	-	-	5.926	4.913	4.395	3.866	2.964	2.551	2.013	1.698
295	-	-	5.997	4.954	4.449	3.935	3.019	2.610	2.066	1.724
300	-	-	6.069	4.996	4.503	4.004	3.073	2.668	2.138	1.751
305	-	-	6.140	5.037	4.558	4.073	3.128	2.727	2.210	1.778
310	-	-	6.212	5.146	4.612	4.142	3.183	2.786	2.283	1.804
315	-	-	6.283	5.320	4.666	4.210	3.238	2.845	2.355	1.831
320	-	-	6.355	5.495	4.720	4.279	3.293	2.904	2.427	1.858
325	-	-	6.426	5.669	4.774	4.348	3.348	2.963	2.500	1.884
330	-	-	6.498	5.844	4.828	4.417	3.404	3.022	2.572	1.911
335	-	-	6.569	6.018	4.882	4.486	3.456	3.081	2.644	1.937
340	-	-	6.641	6.192	4.936	4.555	3.508	3.140	2.717	1.964
345	-	-	6.712	6.367	4.990	4.624	3.561	3.198	2.789	1.991
350	-	-	6.784	6.541	5.044	4.693	3.615	3.257	2.861	2.017
355	-	-	6.855	6.716	5.098	4.762	3.669	3.316	2.933	2.044
360	-	-	6.927	6.890	5.152	4.831	3.723	3.375	3.006	2.070
365	-	-	6.998	7.065	5.206	4.899	3.781	3.434	3.078	2.097
370	-	-	-	-	7.018	5.212	5.212	3.900	3.150	2.393
375	-	-	-	-	-	5.435	5.435	4.198	3.223	2.494

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 120 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	4.397	3.571	1.925	1.502	1.133	0.840	0.548	0.457	0.457	0.457
35	4.735	3.757	3.041	1.749	1.308	0.960	0.629	0.541	0.488	0.457
40	5.084	3.942	3.454	1.995	1.483	1.080	0.710	0.592	0.533	0.457
45	5.644	4.128	3.543	2.428	1.658	1.201	0.790	0.643	0.577	0.489
50	6.205	4.314	3.632	2.890	1.833	1.321	0.871	0.694	0.622	0.530
55	6.765	4.500	3.721	3.352	2.008	1.441	0.952	0.745	0.666	0.570
60	-	4.685	3.810	3.443	2.189	1.562	1.033	0.796	0.711	0.611
65	-	4.871	3.899	3.497	2.372	1.682	1.114	0.847	0.755	0.652
70	-	5.057	3.989	3.551	2.555	1.802	1.195	0.898	0.799	0.692
75	-	5.144	4.078	3.606	2.737	1.923	1.276	0.949	0.844	0.733
80	-	5.231	4.167	3.660	2.920	2.036	1.357	0.999	0.888	0.774
85	-	5.318	4.256	3.715	3.103	2.102	1.438	1.050	0.933	0.815
90	-	5.405	4.345	3.769	3.285	2.168	1.519	1.101	0.977	0.855
95	-	5.491	4.434	3.823	3.413	2.234	1.600	1.152	1.022	0.896
100	-	5.578	4.523	3.878	3.463	2.300	1.681	1.203	1.066	0.937
105	-	5.665	4.612	3.932	3.512	2.366	1.761	1.254	1.110	0.977
110	-	5.752	4.701	3.987	3.562	2.432	1.842	1.305	1.155	1.018
115	-	5.839	4.790	4.041	3.611	2.498	1.923	1.356	1.199	1.059
120	-	5.926	4.879	4.096	3.661	2.564	2.004	1.407	1.244	1.100
125	-	6.013	4.968	4.150	3.710	2.630	2.073	1.458	1.288	1.140
130	-	6.100	5.058	4.204	3.760	2.696	2.138	1.508	1.333	1.181
135	-	6.187	5.140	4.259	3.810	2.762	2.202	1.559	1.377	1.222
140	-	6.274	5.223	4.313	3.859	2.829	2.266	1.610	1.422	1.262
145	-	6.361	5.305	4.368	3.909	2.895	2.330	1.661	1.466	1.303
150	-	6.448	5.388	4.422	3.958	2.961	2.395	1.712	1.510	1.344
155	-	6.534	5.471	4.477	4.008	3.027	2.459	1.763	1.555	1.384
160	-	6.621	5.553	4.531	4.057	3.093	2.523	1.814	1.599	1.425
165	-	6.708	5.636	4.585	4.107	3.159	2.587	1.865	1.644	1.466
170	-	6.795	5.719	4.640	4.156	3.225	2.652	1.916	1.688	1.507
175	-	6.882	5.801	4.694	4.206	3.291	2.716	1.967	1.733	1.547
180	-	-	5.884	4.749	4.255	3.357	2.780	2.017	1.777	1.588
185	-	-	5.967	4.803	4.305	3.422	2.845	2.087	1.821	1.629
190	-	-	6.049	4.857	4.354	3.485	2.909	2.161	1.866	1.669
195	-	-	6.132	4.912	4.404	3.548	2.973	2.236	1.910	1.710
200	-	-	6.215	4.966	4.453	3.611	3.037	2.310	1.955	1.751
205	-	-	6.297	5.021	4.503	3.675	3.102	2.385	1.999	1.792
210	-	-	6.380	5.108	4.552	3.738	3.166	2.459	2.049	1.832
215	-	-	6.463	5.261	4.602	3.801	3.230	2.534	2.109	1.873
220	-	-	6.545	5.413	4.651	3.865	3.294	2.608	2.169	1.914
225	-	-	6.628	5.566	4.701	3.928	3.359	2.683	2.230	1.954
230	-	-	6.711	5.719	4.750	3.991	3.454	2.757	2.290	1.995
235	-	-	6.793	5.872	4.800	4.054	3.586	2.832	2.350	2.039
240	-	-	6.876	6.024	4.849	4.118	3.718	2.906	2.410	2.093
245	-	-	6.958	6.177	4.899	4.181	3.849	2.981	2.470	2.148
250	-	-	-	6.330	4.948	4.244	3.981	3.055	2.530	2.203
255	-	-	-	6.483	4.998	4.308	4.113	3.129	2.590	2.258
260	-	-	-	6.635	5.047	4.371	4.244	3.204	2.651	2.312
265	-	-	-	6.788	5.259	4.434	4.376	3.278	2.711	2.367
270	-	-	-	6.941	5.508	4.508	4.508	3.353	2.771	2.422
275	-	-	-	7.094	5.758	4.639	4.639	3.477	2.831	2.477
280	-	-	-	-	6.007	4.771	4.771	3.661	2.891	2.531
285	-	-	-	-	6.257	4.903	4.903	3.844	2.951	2.586
290	-	-	-	-	6.507	5.034	5.034	4.028	3.012	2.641
295	-	-	-	-	6.756	5.166	5.166	4.211	3.072	2.696
300	-	-	-	-	7.006	5.298	5.298	4.394	3.132	2.750
305	-	-	-	-	-	5.429	5.429	4.578	3.192	2.805
310	-	-	-	-	-	5.561	5.561	4.761	3.252	2.860
315	-	-	-	-	-	5.693	5.693	4.945	3.312	2.915
320	-	-	-	-	-	5.824	5.824	5.128	3.373	2.969
325	-	-	-	-	-	6.332	5.956	5.311	3.622	3.024
330	-	-	-	-	-	6.923	6.088	5.495	3.970	3.079
335	-	-	-	-	-	-	6.219	5.678	4.318	3.134
340	-	-	-	-	-	-	6.351	5.861	4.665	3.188
345	-	-	-	-	-	-	6.483	6.045	5.013	3.243
350	-	-	-	-	-	-	6.614	6.228	5.361	3.298
355	-	-	-	-	-	-	6.746	6.412	5.708	3.353
360	-	-	-	-	-	-	6.878	6.595	6.056	3.643
365	-	-	-	-	-	-	7.010	6.778	6.404	4.598
370	-	-	-	-	-	-	-	6.962	6.751	5.552
375	-	-	-	-	-	-	-	-	-	6.506

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

I/H Columns: 150 minutes										
Required Thickness (mm) for a Design Temperature (°C)										
Section Factor (m ⁻¹)	300	350	400	450	500	550	600	650	700	750
30	-	4.502	3.916	3.440	1.874	1.490	1.168	0.929	0.628	0.457
35	-	4.816	4.130	3.594	2.598	1.721	1.344	1.068	0.747	0.593
40	-	5.224	4.343	3.749	3.423	1.952	1.520	1.207	0.867	0.698
45	-	5.939	4.556	3.904	3.518	2.405	1.696	1.346	0.987	0.802
50	-	-	4.769	4.059	3.612	2.968	1.872	1.485	1.107	0.907
55	-	-	4.982	4.213	3.707	3.408	2.056	1.624	1.226	1.012
60	-	-	5.267	4.368	3.801	3.468	2.303	1.763	1.346	1.116
65	-	-	5.591	4.523	3.895	3.528	2.549	1.902	1.466	1.221
70	-	-	5.915	4.678	3.990	3.588	2.795	2.039	1.586	1.326
75	-	-	6.238	4.832	4.084	3.648	3.042	2.149	1.705	1.431
80	-	-	6.562	4.987	4.179	3.708	3.288	2.260	1.825	1.535
85	-	-	-	5.163	4.273	3.768	3.461	2.370	1.945	1.640
90	-	-	-	5.355	4.367	3.828	3.580	2.480	2.049	1.745
95	-	-	-	5.547	4.462	3.888	3.699	2.591	2.119	1.849
100	-	-	-	5.739	4.556	3.948	3.818	2.701	2.188	1.954
105	-	-	-	5.932	4.651	4.008	3.937	2.812	2.257	2.046
110	-	-	-	6.124	4.745	4.068	4.056	2.922	2.326	2.107
115	-	-	-	6.316	4.839	4.175	4.175	3.033	2.396	2.168
120	-	-	-	6.509	4.934	4.294	4.294	3.143	2.465	2.229
125	-	-	-	6.701	5.028	4.413	4.413	3.253	2.534	2.290
130	-	-	-	6.893	5.167	4.532	4.532	3.364	2.603	2.352
135	-	-	-	7.086	5.325	4.651	4.651	3.505	2.673	2.413
140	-	-	-	-	5.483	4.770	4.770	3.657	2.742	2.474
145	-	-	-	-	5.641	4.889	4.889	3.809	2.811	2.535
150	-	-	-	-	5.799	5.008	5.008	3.961	2.880	2.596
155	-	-	-	-	5.957	5.127	5.127	4.113	2.950	2.657
160	-	-	-	-	6.115	5.246	5.246	4.266	3.019	2.718
165	-	-	-	-	6.273	5.365	5.365	4.418	3.088	2.779
170	-	-	-	-	6.431	5.484	5.484	4.570	3.157	2.841
175	-	-	-	-	6.590	5.603	5.603	4.722	3.227	2.902
180	-	-	-	-	6.748	5.722	5.722	4.874	3.296	2.963
185	-	-	-	-	6.906	5.841	5.841	5.026	3.365	3.024
190	-	-	-	-	7.064	5.960	5.960	5.179	3.540	3.085
195	-	-	-	-	-	6.079	6.079	5.331	3.785	3.146
200	-	-	-	-	-	6.198	6.198	5.483	4.029	3.207
205	-	-	-	-	-	6.317	6.317	5.635	4.274	3.268
210	-	-	-	-	-	6.317	6.436	5.787	4.519	3.329
215	-	-	-	-	-	-	6.555	5.939	4.764	3.391
220	-	-	-	-	-	-	6.674	6.091	5.008	3.697
225	-	-	-	-	-	-	6.793	6.244	5.253	4.013
230	-	-	-	-	-	-	6.912	6.396	5.498	4.329
235	-	-	-	-	-	-	7.031	6.548	5.743	4.644
240	-	-	-	-	-	-	-	6.700	5.987	4.960
245	-	-	-	-	-	-	-	6.852	6.232	5.276
250	-	-	-	-	-	-	-	7.004	6.477	5.592
255	-	-	-	-	-	-	-	-	6.722	5.908
260	-	-	-	-	-	-	-	-	6.967	6.224
265	-	-	-	-	-	-	-	-	-	6.540
270	-	-	-	-	-	-	-	-	-	6.856
275	-	-	-	-	-	-	-	-	-	7.172
280	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-
320	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-

Thickness is intumescent only. Results apply to I/H section columns with 4-sided fire exposure.
Results also apply to I/H beams exposed on all 4 sides up to a maximum dry film thickness of 4.992mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 15 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
45	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
50	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
55	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
60	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
65	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
70	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
75	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
80	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
85	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
90	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
95	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
100	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
105	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
110	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
115	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
120	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
125	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
130	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
135	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
140	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
145	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
150	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
155	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
160	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
165	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
170	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
175	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
180	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
185	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
190	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
195	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
200	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
205	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
210	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
215	0.479	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
220	0.520	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
225	0.560	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
230	0.600	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
235	0.641	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 20 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
45	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
50	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
55	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
60	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
65	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
70	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
75	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
80	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
85	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
90	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
95	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
100	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
105	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
110	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
115	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
120	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
125	0.482	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
130	0.525	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
135	0.569	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
140	0.613	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
145	0.657	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
150	0.700	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
155	0.744	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
160	0.788	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
165	0.832	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
170	0.875	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
175	0.919	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
180	0.963	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
185	1.007	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
190	1.050	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
195	1.094	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
200	1.138	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
205	1.181	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
210	1.225	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
215	1.269	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
220	1.313	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
225	1.356	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
230	1.400	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
235	1.444	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 30 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
45	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
50	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
55	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
60	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
65	0.514	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
70	0.578	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
75	0.642	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
80	0.707	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
85	0.771	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
90	0.835	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
95	0.899	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
100	0.964	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
105	1.028	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
110	1.092	0.514	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
115	1.157	0.558	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
120	1.221	0.602	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
125	1.285	0.646	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
130	1.349	0.690	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
135	1.414	0.735	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
140	1.478	0.779	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
145	1.542	0.823	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
150	1.607	0.867	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
155	1.671	0.911	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
160	1.735	0.955	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
165	1.800	0.999	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
170	1.864	1.043	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
175	1.928	1.087	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
180	1.992	1.131	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
185	2.054	1.176	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
190	2.114	1.220	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
195	2.174	1.264	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
200	2.234	1.308	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
205	2.295	1.352	0.505	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
210	2.355	1.396	0.556	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
215	2.415	1.440	0.607	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
220	2.475	1.484	0.658	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
225	2.536	1.528	0.709	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
230	2.596	1.572	0.760	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
235	2.656	1.617	0.811	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 45 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	0.897	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
45	1.009	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
50	1.122	0.533	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
55	1.234	0.603	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
60	1.347	0.673	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
65	1.459	0.742	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
70	1.572	0.812	0.521	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
75	1.684	0.882	0.567	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
80	1.796	0.951	0.613	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
85	1.909	1.021	0.660	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
90	2.016	1.091	0.706	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
95	2.087	1.161	0.752	0.499	0.476	0.476	0.476	0.476	0.476	0.476	0.476
100	2.158	1.230	0.798	0.541	0.476	0.476	0.476	0.476	0.476	0.476	0.476
105	2.230	1.300	0.844	0.582	0.476	0.476	0.476	0.476	0.476	0.476	0.476
110	2.301	1.370	0.890	0.624	0.476	0.476	0.476	0.476	0.476	0.476	0.476
115	2.372	1.439	0.937	0.665	0.476	0.476	0.476	0.476	0.476	0.476	0.476
120	2.443	1.509	0.983	0.706	0.476	0.476	0.476	0.476	0.476	0.476	0.476
125	2.514	1.579	1.029	0.748	0.476	0.476	0.476	0.476	0.476	0.476	0.476
130	2.585	1.648	1.075	0.789	0.476	0.476	0.476	0.476	0.476	0.476	0.476
135	2.657	1.718	1.121	0.831	0.513	0.476	0.476	0.476	0.476	0.476	0.476
140	2.728	1.788	1.167	0.872	0.553	0.476	0.476	0.476	0.476	0.476	0.476
145	2.799	1.858	1.213	0.914	0.593	0.476	0.476	0.476	0.476	0.476	0.476
150	2.870	1.927	1.260	0.955	0.633	0.476	0.476	0.476	0.476	0.476	0.476
155	2.941	1.997	1.306	0.997	0.672	0.476	0.476	0.476	0.476	0.476	0.476
160	3.013	2.064	1.352	1.038	0.712	0.478	0.476	0.476	0.476	0.476	0.476
165	3.084	2.131	1.398	1.080	0.752	0.520	0.476	0.476	0.476	0.476	0.476
170	3.155	2.198	1.444	1.121	0.792	0.562	0.476	0.476	0.476	0.476	0.476
175	3.226	2.265	1.490	1.163	0.832	0.605	0.476	0.476	0.476	0.476	0.476
180	3.297	2.331	1.537	1.204	0.872	0.647	0.476	0.476	0.476	0.476	0.476
185	3.369	2.398	1.583	1.246	0.912	0.689	0.476	0.476	0.476	0.476	0.476
190	3.440	2.465	1.629	1.287	0.951	0.731	0.476	0.476	0.476	0.476	0.476
195	3.511	2.532	1.675	1.329	0.991	0.773	0.476	0.476	0.476	0.476	0.476
200	3.599	2.599	1.721	1.370	1.031	0.815	0.476	0.476	0.476	0.476	0.476
205	3.688	2.665	1.767	1.412	1.071	0.858	0.476	0.476	0.476	0.476	0.476
210	3.776	2.732	1.813	1.453	1.111	0.900	0.504	0.476	0.476	0.476	0.476
215	3.864	2.799	1.860	1.495	1.151	0.942	0.551	0.476	0.476	0.476	0.476
220	3.953	2.866	1.906	1.536	1.191	0.984	0.598	0.476	0.476	0.476	0.476
225	4.041	2.932	1.952	1.577	1.230	1.026	0.644	0.476	0.476	0.476	0.476
230	4.129	2.999	1.998	1.619	1.270	1.068	0.691	0.476	0.476	0.476	0.476
235	4.218	3.066	2.075	1.660	1.310	1.111	0.738	0.500	0.476	0.476	0.476

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 60 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	1.941	1.035	0.542	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
45	2.058	1.136	0.621	0.479	0.476	0.476	0.476	0.476	0.476	0.476	0.476
50	2.175	1.237	0.700	0.531	0.476	0.476	0.476	0.476	0.476	0.476	0.476
55	2.291	1.338	0.779	0.583	0.476	0.476	0.476	0.476	0.476	0.476	0.476
60	2.408	1.439	0.858	0.636	0.494	0.476	0.476	0.476	0.476	0.476	0.476
65	2.525	1.540	0.937	0.688	0.537	0.479	0.476	0.476	0.476	0.476	0.476
70	2.641	1.641	1.015	0.740	0.579	0.520	0.476	0.476	0.476	0.476	0.476
75	2.758	1.742	1.094	0.792	0.622	0.561	0.476	0.476	0.476	0.476	0.476
80	2.875	1.843	1.173	0.845	0.664	0.602	0.499	0.476	0.476	0.476	0.476
85	2.992	1.944	1.252	0.897	0.707	0.643	0.539	0.476	0.476	0.476	0.476
90	3.108	2.035	1.331	0.949	0.750	0.684	0.578	0.476	0.476	0.476	0.476
95	3.225	2.110	1.410	1.001	0.792	0.725	0.618	0.476	0.476	0.476	0.476
100	3.342	2.185	1.489	1.054	0.835	0.767	0.657	0.490	0.476	0.476	0.476
105	3.458	2.260	1.568	1.106	0.877	0.808	0.697	0.526	0.476	0.476	0.476
110	3.552	2.335	1.647	1.158	0.920	0.849	0.736	0.563	0.476	0.476	0.476
115	3.628	2.410	1.726	1.210	0.962	0.890	0.776	0.599	0.476	0.476	0.476
120	3.703	2.486	1.805	1.263	1.005	0.931	0.815	0.635	0.476	0.476	0.476
125	3.779	2.561	1.884	1.315	1.048	0.972	0.854	0.672	0.476	0.476	0.476
130	3.854	2.636	1.963	1.367	1.090	1.013	0.894	0.708	0.476	0.476	0.476
135	3.930	2.711	2.039	1.419	1.133	1.054	0.933	0.745	0.486	0.476	0.476
140	4.005	2.786	2.110	1.472	1.175	1.095	0.973	0.781	0.521	0.476	0.476
145	4.081	2.861	2.182	1.524	1.218	1.137	1.012	0.818	0.557	0.476	0.476
150	4.156	2.936	2.253	1.576	1.261	1.178	1.052	0.854	0.592	0.476	0.476
155	4.232	3.011	2.324	1.628	1.303	1.219	1.091	0.891	0.627	0.476	0.476
160	4.307	3.086	2.395	1.681	1.346	1.260	1.130	0.927	0.663	0.476	0.476
165	4.383	3.161	2.467	1.733	1.388	1.301	1.170	0.963	0.698	0.476	0.476
170	4.458	3.236	2.538	1.785	1.431	1.342	1.209	1.000	0.734	0.476	0.476
175	4.534	3.311	2.609	1.837	1.473	1.383	1.249	1.036	0.769	0.476	0.476
180	4.609	3.386	2.680	1.890	1.516	1.424	1.288	1.073	0.804	0.476	0.476
185	4.685	3.461	2.752	1.942	1.559	1.465	1.328	1.109	0.840	0.476	0.476
190	4.760	3.547	2.823	1.994	1.601	1.507	1.367	1.146	0.875	0.476	0.476
195	4.836	3.651	2.894	2.075	1.644	1.548	1.407	1.182	0.910	0.476	0.476
200	4.911	3.755	2.966	2.165	1.686	1.589	1.446	1.218	0.946	0.476	0.476
205	4.987	3.859	3.037	2.255	1.729	1.630	1.485	1.255	0.981	0.476	0.476
210	5.062	3.963	3.108	2.346	1.772	1.671	1.525	1.291	1.016	0.478	0.476
215	5.153	4.068	3.179	2.436	1.814	1.712	1.564	1.328	1.052	0.518	0.476
220	5.284	4.172	3.251	2.526	1.857	1.753	1.604	1.364	1.087	0.557	0.476
225	5.415	4.276	3.322	2.616	1.899	1.794	1.643	1.401	1.123	0.597	0.476
230	5.546	4.380	3.393	2.706	1.942	1.835	1.683	1.437	1.158	0.637	0.476
235	5.677	4.484	3.465	2.796	1.984	1.877	1.722	1.474	1.193	0.677	0.476

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 75 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	2.709	1.741	1.186	0.832	0.532	0.496	0.476	0.476	0.476	0.476	0.476
45	2.875	1.920	1.284	0.911	0.594	0.551	0.496	0.476	0.476	0.476	0.476
50	3.041	2.065	1.381	0.990	0.657	0.607	0.542	0.476	0.476	0.476	0.476
55	3.207	2.178	1.479	1.069	0.720	0.662	0.588	0.486	0.476	0.476	0.476
60	3.372	2.290	1.577	1.147	0.782	0.718	0.634	0.527	0.476	0.476	0.476
65	3.551	2.402	1.674	1.226	0.845	0.773	0.680	0.568	0.476	0.476	0.476
70	3.793	2.515	1.772	1.305	0.907	0.828	0.726	0.608	0.476	0.476	0.476
75	4.034	2.627	1.870	1.384	0.970	0.884	0.772	0.649	0.506	0.476	0.476
80	4.276	2.739	1.967	1.462	1.032	0.939	0.817	0.690	0.545	0.476	0.476
85	4.518	2.852	2.059	1.541	1.095	0.995	0.863	0.731	0.583	0.476	0.476
90	4.760	2.964	2.148	1.620	1.157	1.050	0.909	0.772	0.621	0.476	0.476
95	5.002	3.076	2.236	1.699	1.220	1.106	0.955	0.812	0.659	0.500	0.476
100	5.154	3.188	2.324	1.777	1.282	1.161	1.001	0.853	0.697	0.536	0.476
105	5.227	3.301	2.412	1.856	1.345	1.216	1.047	0.894	0.736	0.571	0.476
110	5.300	3.413	2.501	1.935	1.408	1.272	1.093	0.935	0.774	0.607	0.476
115	5.372	3.521	2.589	2.013	1.470	1.327	1.139	0.976	0.812	0.642	0.476
120	5.445	3.604	2.677	2.086	1.533	1.383	1.185	1.017	0.850	0.678	0.476
125	5.518	3.687	2.765	2.158	1.595	1.438	1.230	1.057	0.888	0.713	0.476
130	5.591	3.769	2.854	2.231	1.658	1.494	1.276	1.098	0.927	0.749	0.476
135	5.663	3.852	2.942	2.304	1.720	1.549	1.322	1.139	0.965	0.785	0.476
140	5.736	3.934	3.030	2.376	1.783	1.604	1.368	1.180	1.003	0.820	0.476
145	5.809	4.017	3.119	2.449	1.845	1.660	1.414	1.221	1.041	0.856	0.478
150	5.881	4.100	3.207	2.521	1.908	1.715	1.460	1.261	1.079	0.891	0.514
155	5.954	4.182	3.295	2.594	1.971	1.771	1.506	1.302	1.118	0.927	0.550
160	6.027	4.265	3.383	2.667	2.042	1.826	1.552	1.343	1.156	0.962	0.586
165	6.099	4.347	3.472	2.739	2.127	1.882	1.597	1.384	1.194	0.998	0.623
170	6.172	4.430	3.571	2.812	2.211	1.937	1.643	1.425	1.232	1.033	0.659
175	6.245	4.513	3.678	2.884	2.296	1.992	1.689	1.466	1.271	1.069	0.695
180	6.318	4.595	3.785	2.957	2.380	2.074	1.735	1.506	1.309	1.104	0.731
185	6.390	4.678	3.893	3.030	2.465	2.165	1.781	1.547	1.347	1.140	0.768
190	6.463	4.760	4.000	3.102	2.549	2.256	1.827	1.588	1.385	1.175	0.804
195	6.536	4.843	4.107	3.175	2.634	2.347	1.873	1.629	1.423	1.211	0.840
200	6.608	4.925	4.215	3.247	2.718	2.438	1.919	1.670	1.462	1.247	0.876
205	6.681	5.008	4.322	3.320	2.803	2.529	1.964	1.710	1.500	1.282	0.912
210	6.754	5.091	4.429	3.393	2.887	2.620	2.015	1.751	1.538	1.318	0.949
215	6.826	5.224	4.537	3.465	2.972	2.711	2.125	1.792	1.576	1.353	0.985
220	6.899	5.379	4.644	3.568	3.056	2.802	2.235	1.833	1.614	1.389	1.021
225	6.972	5.534	4.751	3.721	3.141	2.893	2.346	1.874	1.653	1.424	1.057
230	7.045	5.689	4.859	3.873	3.225	2.984	2.456	1.915	1.691	1.460	1.094
235	7.117	5.844	4.966	4.025	3.310	3.075	2.566	1.955	1.729	1.495	1.130

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 90 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	3.383	2.490	1.739	1.314	0.996	0.893	0.754	0.520	0.476	0.476	0.476
45	3.882	2.625	1.907	1.420	1.080	0.970	0.820	0.576	0.488	0.476	0.476
50	4.381	2.760	2.055	1.525	1.163	1.046	0.886	0.631	0.531	0.476	0.476
55	4.880	2.895	2.173	1.630	1.246	1.123	0.952	0.686	0.574	0.476	0.476
60	5.170	3.030	2.290	1.735	1.330	1.200	1.018	0.742	0.617	0.504	0.476
65	5.272	3.165	2.408	1.840	1.413	1.276	1.085	0.797	0.660	0.544	0.476
70	5.375	3.300	2.526	1.946	1.496	1.353	1.151	0.852	0.703	0.584	0.476
75	5.478	3.435	2.643	2.047	1.579	1.430	1.217	0.908	0.746	0.624	0.476
80	5.580	3.634	2.761	2.141	1.663	1.506	1.283	0.963	0.789	0.663	0.476
85	5.683	3.913	2.878	2.236	1.746	1.583	1.349	1.018	0.832	0.703	0.510
90	5.785	4.192	2.996	2.331	1.829	1.660	1.415	1.074	0.875	0.743	0.547
95	5.888	4.470	3.114	2.426	1.913	1.736	1.481	1.129	0.918	0.783	0.585
100	5.990	4.749	3.231	2.520	1.996	1.813	1.548	1.184	0.961	0.823	0.623
105	6.093	5.028	3.349	2.615	2.074	1.890	1.614	1.240	1.004	0.863	0.660
110	6.196	5.170	3.467	2.710	2.150	1.966	1.680	1.295	1.047	0.903	0.698
115	6.298	5.250	3.575	2.805	2.227	2.042	1.746	1.350	1.090	0.943	0.736
120	6.401	5.329	3.678	2.900	2.304	2.116	1.812	1.406	1.133	0.983	0.773
125	6.503	5.408	3.781	2.994	2.381	2.190	1.878	1.461	1.176	1.023	0.811
130	6.606	5.487	3.884	3.089	2.458	2.264	1.944	1.517	1.219	1.063	0.849
135	6.708	5.567	3.987	3.184	2.535	2.338	2.011	1.572	1.262	1.103	0.886
140	6.811	5.646	4.090	3.279	2.612	2.412	2.091	1.627	1.305	1.143	0.924
145	6.913	5.725	4.193	3.374	2.689	2.486	2.170	1.683	1.348	1.182	0.962
150	7.016	5.804	4.296	3.468	2.766	2.561	2.250	1.738	1.391	1.222	0.999
155	7.119	5.884	4.399	3.572	2.842	2.635	2.329	1.793	1.434	1.262	1.037
160	7.221	5.963	4.502	3.683	2.919	2.709	2.409	1.849	1.477	1.302	1.075
165	7.324	6.042	4.605	3.794	2.996	2.783	2.488	1.904	1.520	1.342	1.112
170	7.426	6.121	4.708	3.905	3.073	2.857	2.568	1.959	1.563	1.382	1.150
175	-	6.201	4.811	4.016	3.150	2.931	2.647	2.020	1.606	1.422	1.188
180	-	6.280	4.914	4.127	3.227	3.005	2.727	2.112	1.649	1.462	1.225
185	-	6.359	5.017	4.238	3.304	3.079	2.807	2.205	1.692	1.502	1.263
190	-	6.438	5.121	4.349	3.381	3.153	2.886	2.298	1.735	1.542	1.301
195	-	6.517	5.273	4.460	3.457	3.228	2.966	2.390	1.778	1.582	1.338
200	-	6.597	5.424	4.571	3.559	3.302	3.045	2.483	1.821	1.622	1.376
205	-	6.676	5.575	4.682	3.714	3.376	3.125	2.576	1.864	1.662	1.414
210	-	6.755	5.726	4.792	3.869	3.450	3.204	2.668	1.907	1.701	1.452
215	-	6.834	5.877	4.903	4.024	3.542	3.284	2.761	1.950	1.741	1.489
220	-	6.914	6.029	5.014	4.179	3.712	3.363	2.853	1.993	1.781	1.527
225	-	6.993	6.180	5.131	4.334	3.882	3.443	2.946	2.090	1.821	1.565
230	-	7.072	6.331	5.311	4.489	4.051	3.535	3.039	2.212	1.861	1.602
235	-	7.151	6.482	5.490	4.644	4.221	3.698	3.131	2.334	1.901	1.640

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 105 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	5.061	3.149	2.388	1.779	1.408	1.287	1.120	0.879	0.571	0.476	0.476
45	5.267	3.365	2.520	1.944	1.523	1.387	1.208	0.953	0.635	0.528	0.476
50	5.474	3.692	2.652	2.082	1.638	1.487	1.296	1.026	0.698	0.577	0.476
55	5.680	4.239	2.784	2.205	1.753	1.587	1.384	1.100	0.762	0.626	0.486
60	5.886	4.787	2.916	2.327	1.868	1.687	1.472	1.174	0.826	0.675	0.528
65	6.093	5.157	3.048	2.449	1.983	1.787	1.559	1.248	0.889	0.724	0.570
70	6.299	5.259	3.180	2.572	2.084	1.887	1.647	1.322	0.953	0.773	0.612
75	6.506	5.361	3.312	2.694	2.182	1.987	1.735	1.396	1.017	0.822	0.654
80	6.712	5.463	3.444	2.816	2.280	2.081	1.823	1.470	1.081	0.871	0.696
85	6.918	5.565	3.724	2.939	2.378	2.175	1.911	1.543	1.144	0.920	0.738
90	7.125	5.667	4.154	3.061	2.476	2.268	1.999	1.617	1.208	0.969	0.780
95	7.331	5.769	4.584	3.183	2.573	2.362	2.084	1.691	1.272	1.018	0.822
100	-	5.871	5.015	3.306	2.671	2.455	2.168	1.765	1.336	1.067	0.864
105	-	5.974	5.179	3.428	2.769	2.548	2.253	1.839	1.399	1.116	0.907
110	-	6.076	5.262	3.561	2.867	2.642	2.337	1.913	1.463	1.165	0.949
115	-	6.178	5.345	3.715	2.964	2.735	2.422	1.987	1.527	1.214	0.991
120	-	6.280	5.428	3.869	3.062	2.828	2.506	2.061	1.590	1.262	1.033
125	-	6.382	5.511	4.023	3.160	2.922	2.591	2.136	1.654	1.311	1.075
130	-	6.484	5.594	4.177	3.258	3.015	2.675	2.211	1.718	1.360	1.117
135	-	6.586	5.677	4.331	3.356	3.108	2.760	2.286	1.782	1.409	1.159
140	-	6.688	5.760	4.486	3.453	3.202	2.844	2.361	1.845	1.458	1.201
145	-	6.790	5.843	4.640	3.558	3.295	2.929	2.435	1.909	1.507	1.243
150	-	6.892	5.926	4.794	3.672	3.388	3.013	2.510	1.973	1.556	1.285
155	-	6.995	6.009	4.948	3.786	3.482	3.098	2.585	2.047	1.605	1.327
160	-	7.097	6.092	5.102	3.899	3.594	3.182	2.660	2.134	1.654	1.369
165	-	7.199	6.175	5.229	4.013	3.716	3.267	2.735	2.220	1.703	1.411
170	-	7.301	6.258	5.353	4.127	3.837	3.351	2.810	2.307	1.752	1.453
175	-	7.403	6.340	5.478	4.241	3.958	3.436	2.884	2.394	1.801	1.495
180	-	-	6.423	5.602	4.355	4.079	3.527	2.959	2.481	1.850	1.537
185	-	-	6.506	5.727	4.469	4.200	3.666	3.034	2.567	1.899	1.580
190	-	-	6.589	5.851	4.582	4.322	3.806	3.109	2.654	1.948	1.622
195	-	-	6.672	5.975	4.696	4.443	3.945	3.184	2.741	1.996	1.664
200	-	-	6.755	6.100	4.810	4.564	4.084	3.259	2.827	2.092	1.706
205	-	-	6.838	6.224	4.924	4.685	4.223	3.334	2.914	2.201	1.748
210	-	-	6.921	6.348	5.038	4.806	4.363	3.408	3.001	2.309	1.790
215	-	-	7.004	6.473	5.180	4.928	4.502	3.483	3.087	2.418	1.832
220	-	-	7.087	6.597	5.387	5.049	4.641	3.623	3.174	2.526	1.874
225	-	-	7.170	6.722	5.593	5.207	4.780	3.800	3.261	2.635	1.916
230	-	-	7.253	6.846	5.799	5.411	4.920	3.976	3.348	2.743	1.958
235	-	-	7.336	6.970	6.005	5.615	5.059	4.153	3.434	2.852	2.000

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 120 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	5.853	4.240	2.981	2.174	1.810	1.668	1.478	1.206	0.957	0.721	0.476
45	6.146	4.979	3.182	2.328	1.976	1.816	1.603	1.299	1.037	0.787	0.523
50	6.438	5.269	3.383	2.482	2.110	1.964	1.728	1.392	1.118	0.852	0.578
55	6.731	5.456	3.747	2.636	2.236	2.090	1.852	1.485	1.198	0.918	0.632
60	7.024	5.644	4.394	2.790	2.363	2.206	1.977	1.578	1.279	0.984	0.686
65	7.317	5.831	5.041	2.944	2.489	2.322	2.085	1.671	1.359	1.049	0.741
70	7.610	6.019	5.222	3.097	2.615	2.438	2.188	1.764	1.440	1.115	0.795
75	-	6.206	5.341	3.251	2.741	2.554	2.290	1.857	1.520	1.180	0.849
80	-	6.394	5.461	3.405	2.868	2.670	2.393	1.949	1.601	1.246	0.904
85	-	6.581	5.580	3.695	2.994	2.786	2.495	2.041	1.681	1.311	0.958
90	-	6.769	5.700	4.272	3.120	2.902	2.598	2.131	1.762	1.377	1.012
95	-	6.956	5.819	4.850	3.246	3.018	2.700	2.221	1.842	1.442	1.067
100	-	7.144	5.939	5.169	3.373	3.134	2.803	2.312	1.923	1.508	1.121
105	-	7.331	6.058	5.267	3.499	3.250	2.905	2.402	2.003	1.574	1.175
110	-	7.519	6.178	5.366	3.694	3.366	3.008	2.492	2.079	1.639	1.230
115	-	-	6.297	5.464	3.896	3.482	3.110	2.582	2.154	1.705	1.284
120	-	-	6.417	5.562	4.097	3.629	3.213	2.672	2.229	1.770	1.338
125	-	-	6.536	5.661	4.299	3.787	3.315	2.762	2.304	1.836	1.393
130	-	-	6.656	5.759	4.501	3.945	3.418	2.852	2.380	1.901	1.447
135	-	-	6.775	5.857	4.702	4.103	3.521	2.942	2.455	1.967	1.501
140	-	-	6.895	5.956	4.904	4.261	3.633	3.032	2.530	2.039	1.556
145	-	-	7.014	6.054	5.105	4.419	3.745	3.122	2.605	2.122	1.610
150	-	-	7.134	6.152	5.227	4.577	3.856	3.212	2.681	2.205	1.664
155	-	-	7.253	6.251	5.345	4.735	3.968	3.303	2.756	2.288	1.719
160	-	-	7.373	6.349	5.463	4.893	4.080	3.393	2.831	2.371	1.773
165	-	-	7.492	6.447	5.580	5.051	4.192	3.483	2.907	2.454	1.827
170	-	-	-	6.546	5.698	5.199	4.303	3.601	2.982	2.537	1.882
175	-	-	-	6.644	5.816	5.340	4.415	3.732	3.057	2.620	1.936
180	-	-	-	6.742	5.933	5.481	4.527	3.863	3.132	2.703	1.990
185	-	-	-	6.841	6.051	5.621	4.639	3.994	3.208	2.786	2.075
190	-	-	-	6.939	6.168	5.762	4.750	4.125	3.283	2.869	2.174
195	-	-	-	7.037	6.286	5.903	4.862	4.256	3.358	2.952	2.272
200	-	-	-	7.136	6.404	6.043	4.974	4.387	3.434	3.035	2.371
205	-	-	-	7.234	6.521	6.184	5.086	4.518	3.509	3.118	2.469
210	-	-	-	7.332	6.639	6.325	5.285	4.649	3.681	3.201	2.568
215	-	-	-	-	6.756	6.466	5.518	4.780	3.856	3.284	2.666
220	-	-	-	-	6.874	6.606	5.750	4.911	4.030	3.367	2.765
225	-	-	-	-	6.992	6.747	5.982	5.042	4.204	3.450	2.863
230	-	-	-	-	7.109	6.888	6.215	5.214	4.378	3.556	2.962
235	-	-	-	-	7.227	7.028	6.447	5.441	4.553	3.719	3.060

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Circular Hollow Columns: 150 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
40	-	6.158	5.157	3.265	2.837	2.625	2.143	1.839	1.534	1.247	0.906
45	-	6.516	5.455	4.053	3.024	2.786	2.300	2.011	1.672	1.357	0.997
50	-	6.875	5.753	4.842	3.211	2.947	2.458	2.146	1.810	1.466	1.088
55	-	7.233	6.050	5.256	3.398	3.109	2.615	2.280	1.948	1.576	1.179
60	-	-	6.348	5.470	3.787	3.270	2.773	2.414	2.071	1.685	1.271
65	-	-	6.646	5.685	4.480	3.431	2.931	2.549	2.183	1.795	1.362
70	-	-	6.944	5.899	5.130	3.863	3.088	2.683	2.295	1.904	1.453
75	-	-	7.242	6.114	5.297	4.552	3.246	2.817	2.406	2.013	1.544
80	-	-	7.540	6.328	5.464	5.144	3.403	2.952	2.518	2.108	1.635
85	-	-	-	6.543	5.631	5.299	3.734	3.086	2.630	2.204	1.726
90	-	-	-	6.757	5.798	5.454	4.429	3.220	2.741	2.300	1.817
95	-	-	-	6.971	5.964	5.609	5.118	3.355	2.853	2.395	1.909
100	-	-	-	7.186	6.131	5.764	5.257	3.489	2.965	2.491	2.000
105	-	-	-	7.400	6.298	5.919	5.397	3.766	3.076	2.587	2.084
110	-	-	-	7.615	6.465	6.074	5.537	4.069	3.188	2.683	2.167
115	-	-	-	-	6.632	6.229	5.677	4.372	3.300	2.778	2.250
120	-	-	-	-	6.799	6.384	5.816	4.675	3.411	2.874	2.334
125	-	-	-	-	6.966	6.539	5.956	4.978	3.527	2.970	2.417
130	-	-	-	-	7.133	6.694	6.096	5.176	3.674	3.065	2.500
135	-	-	-	-	7.300	6.849	6.235	5.286	3.822	3.161	2.584
140	-	-	-	-	7.467	7.003	6.375	5.397	3.969	3.257	2.667
145	-	-	-	-	-	7.158	6.515	5.507	4.116	3.352	2.750
150	-	-	-	-	-	7.313	6.654	5.617	4.263	3.448	2.834
155	-	-	-	-	-	7.468	6.794	5.728	4.410	3.554	2.917
160	-	-	-	-	-	-	6.934	5.838	4.557	3.679	3.001
165	-	-	-	-	-	-	7.074	5.948	4.704	3.804	3.084
170	-	-	-	-	-	-	7.213	6.059	4.851	3.929	3.167
175	-	-	-	-	-	-	7.353	6.169	4.998	4.054	3.251
180	-	-	-	-	-	-	7.493	6.280	5.152	4.179	3.334
185	-	-	-	-	-	-	-	6.390	5.332	4.304	3.417
190	-	-	-	-	-	-	-	6.500	5.512	4.429	3.501
195	-	-	-	-	-	-	-	6.611	5.691	4.554	3.645
200	-	-	-	-	-	-	-	6.721	5.871	4.678	3.798
205	-	-	-	-	-	-	-	6.831	6.051	4.803	3.951
210	-	-	-	-	-	-	-	6.942	6.230	4.928	4.104
215	-	-	-	-	-	-	-	7.052	6.410	5.053	4.257
220	-	-	-	-	-	-	-	7.162	6.590	5.252	4.410
225	-	-	-	-	-	-	-	7.273	6.769	5.526	4.562
230	-	-	-	-	-	-	-	7.383	6.949	5.799	4.715
235	-	-	-	-	-	-	-	7.493	7.129	6.072	4.868

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

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 15 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
55	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
60	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
65	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
70	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
75	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
80	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
85	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
90	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
95	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
100	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
105	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
110	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
115	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
120	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
125	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
130	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
135	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
140	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
145	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
150	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
155	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
160	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
165	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
175	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
180	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
185	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
190	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
195	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
200	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
205	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
210	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
215	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
220	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
225	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
230	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
235	0.482	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
240	0.520	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
245	0.557	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
250	0.595	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 20 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
55	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
60	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
65	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
70	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
75	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
80	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
85	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
90	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
95	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
100	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
105	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
110	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
115	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
120	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
125	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
130	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
135	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
140	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
145	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
150	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
155	0.514	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
160	0.558	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
165	0.603	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170	0.647	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
175	0.691	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
180	0.735	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
185	0.780	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
190	0.824	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
195	0.868	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
200	0.912	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
205	0.957	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
210	1.001	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
215	1.045	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
220	1.089	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
225	1.134	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
230	1.178	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
235	1.222	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
240	1.266	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
245	1.311	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
250	1.355	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 30 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
55	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
60	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
65	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
70	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
75	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
80	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
85	0.539	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
90	0.600	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
95	0.661	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
100	0.722	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
105	0.784	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
110	0.845	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
115	0.906	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
120	0.967	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
125	1.028	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
130	1.090	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
135	1.151	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
140	1.212	0.494	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
145	1.273	0.543	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
150	1.334	0.592	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
155	1.396	0.641	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
160	1.457	0.690	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
165	1.518	0.739	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170	1.579	0.788	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
175	1.640	0.837	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
180	1.702	0.886	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
185	1.763	0.935	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
190	1.824	0.984	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
195	1.885	1.033	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
200	1.947	1.082	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
205	2.008	1.131	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
210	2.069	1.180	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
215	2.125	1.229	0.500	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
220	2.180	1.278	0.551	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
225	2.234	1.327	0.602	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
230	2.289	1.376	0.653	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
235	2.344	1.425	0.704	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
240	2.398	1.474	0.755	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
245	2.453	1.523	0.806	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
250	2.508	1.572	0.857	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 45 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	0.968	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
55	1.085	0.546	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
60	1.202	0.609	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
65	1.320	0.672	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
70	1.437	0.735	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
75	1.554	0.798	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
80	1.671	0.862	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
85	1.788	0.925	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
90	1.906	0.988	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
95	2.023	1.051	0.511	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
100	2.110	1.114	0.564	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
105	2.167	1.177	0.617	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
110	2.224	1.240	0.670	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
115	2.281	1.303	0.723	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
120	2.339	1.366	0.777	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
125	2.396	1.430	0.830	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
130	2.453	1.493	0.883	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
135	2.510	1.556	0.936	0.505	0.480	0.480	0.480	0.480	0.480	0.480	0.480
140	2.567	1.619	0.989	0.557	0.480	0.480	0.480	0.480	0.480	0.480	0.480
145	2.624	1.682	1.043	0.610	0.480	0.480	0.480	0.480	0.480	0.480	0.480
150	2.681	1.745	1.096	0.662	0.480	0.480	0.480	0.480	0.480	0.480	0.480
155	2.738	1.808	1.149	0.714	0.480	0.480	0.480	0.480	0.480	0.480	0.480
160	2.795	1.871	1.202	0.767	0.480	0.480	0.480	0.480	0.480	0.480	0.480
165	2.852	1.934	1.255	0.819	0.480	0.480	0.480	0.480	0.480	0.480	0.480
170	2.909	1.998	1.309	0.871	0.480	0.480	0.480	0.480	0.480	0.480	0.480
175	2.966	2.061	1.362	0.924	0.486	0.480	0.480	0.480	0.480	0.480	0.480
180	3.023	2.123	1.415	0.976	0.537	0.480	0.480	0.480	0.480	0.480	0.480
185	3.080	2.186	1.468	1.028	0.589	0.480	0.480	0.480	0.480	0.480	0.480
190	3.137	2.249	1.521	1.081	0.640	0.480	0.480	0.480	0.480	0.480	0.480
195	3.194	2.311	1.575	1.133	0.691	0.480	0.480	0.480	0.480	0.480	0.480
200	3.251	2.374	1.628	1.185	0.743	0.530	0.480	0.480	0.480	0.480	0.480
205	3.308	2.437	1.681	1.238	0.794	0.582	0.480	0.480	0.480	0.480	0.480
210	3.366	2.499	1.734	1.290	0.845	0.634	0.480	0.480	0.480	0.480	0.480
215	3.423	2.562	1.787	1.342	0.897	0.687	0.480	0.480	0.480	0.480	0.480
220	3.480	2.625	1.841	1.395	0.948	0.739	0.480	0.480	0.480	0.480	0.480
225	3.582	2.687	1.894	1.447	0.999	0.791	0.480	0.480	0.480	0.480	0.480
230	3.718	2.750	1.947	1.499	1.051	0.843	0.519	0.480	0.480	0.480	0.480
235	3.854	2.813	2.000	1.551	1.102	0.895	0.572	0.480	0.480	0.480	0.480
240	3.990	2.875	2.053	1.604	1.153	0.948	0.625	0.480	0.480	0.480	0.480
245	4.125	2.938	2.116	1.656	1.205	1.000	0.678	0.480	0.480	0.480	0.480
250	4.261	3.001	2.190	1.708	1.256	1.052	0.731	0.480	0.480	0.480	0.480

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 60 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	1.680	1.065	0.732	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
55	1.874	1.190	0.801	0.532	0.480	0.480	0.480	0.480	0.480	0.480	0.480
60	2.069	1.314	0.869	0.587	0.480	0.480	0.480	0.480	0.480	0.480	0.480
65	2.166	1.438	0.937	0.642	0.480	0.480	0.480	0.480	0.480	0.480	0.480
70	2.255	1.562	1.005	0.698	0.480	0.480	0.480	0.480	0.480	0.480	0.480
75	2.344	1.686	1.073	0.753	0.480	0.480	0.480	0.480	0.480	0.480	0.480
80	2.433	1.810	1.141	0.808	0.480	0.480	0.480	0.480	0.480	0.480	0.480
85	2.522	1.935	1.209	0.863	0.480	0.480	0.480	0.480	0.480	0.480	0.480
90	2.612	2.059	1.277	0.918	0.510	0.480	0.480	0.480	0.480	0.480	0.480
95	2.701	2.132	1.346	0.973	0.561	0.480	0.480	0.480	0.480	0.480	0.480
100	2.790	2.194	1.414	1.028	0.612	0.518	0.480	0.480	0.480	0.480	0.480
105	2.879	2.256	1.482	1.083	0.663	0.568	0.480	0.480	0.480	0.480	0.480
110	2.969	2.318	1.550	1.139	0.714	0.618	0.480	0.480	0.480	0.480	0.480
115	3.058	2.380	1.618	1.194	0.766	0.668	0.503	0.480	0.480	0.480	0.480
120	3.147	2.441	1.686	1.249	0.817	0.718	0.552	0.480	0.480	0.480	0.480
125	3.236	2.503	1.754	1.304	0.868	0.768	0.601	0.480	0.480	0.480	0.480
130	3.326	2.565	1.822	1.359	0.919	0.819	0.650	0.480	0.480	0.480	0.480
135	3.415	2.627	1.891	1.414	0.970	0.869	0.699	0.480	0.480	0.480	0.480
140	3.504	2.689	1.959	1.469	1.022	0.919	0.748	0.480	0.480	0.480	0.480
145	3.621	2.751	2.027	1.524	1.073	0.969	0.797	0.483	0.480	0.480	0.480
150	3.738	2.812	2.095	1.579	1.124	1.019	0.846	0.531	0.480	0.480	0.480
155	3.855	2.874	2.164	1.635	1.175	1.069	0.895	0.579	0.480	0.480	0.480
160	3.972	2.936	2.233	1.690	1.226	1.119	0.944	0.627	0.480	0.480	0.480
165	4.089	2.998	2.302	1.745	1.277	1.169	0.993	0.674	0.480	0.480	0.480
170	4.206	3.060	2.371	1.800	1.329	1.219	1.042	0.722	0.480	0.480	0.480
175	4.324	3.122	2.441	1.855	1.380	1.269	1.091	0.770	0.480	0.480	0.480
180	4.441	3.183	2.510	1.910	1.431	1.319	1.140	0.818	0.480	0.480	0.480
185	4.558	3.245	2.579	1.965	1.482	1.369	1.189	0.866	0.480	0.480	0.480
190	4.675	3.307	2.648	2.020	1.533	1.419	1.238	0.914	0.491	0.480	0.480
195	4.792	3.369	2.717	2.076	1.585	1.469	1.287	0.961	0.539	0.480	0.480
200	4.909	3.431	2.786	2.150	1.636	1.519	1.336	1.009	0.587	0.480	0.480
205	5.026	3.493	2.855	2.226	1.687	1.569	1.386	1.057	0.635	0.480	0.480
210	5.143	3.626	2.924	2.302	1.738	1.619	1.435	1.105	0.682	0.480	0.480
215	5.257	3.776	2.993	2.379	1.789	1.669	1.484	1.153	0.730	0.480	0.480
220	5.369	3.926	3.062	2.455	1.841	1.719	1.533	1.200	0.778	0.480	0.480
225	5.480	4.076	3.131	2.532	1.892	1.769	1.582	1.248	0.826	0.480	0.480
230	5.591	4.226	3.200	2.608	1.943	1.819	1.631	1.296	0.874	0.480	0.480
235	5.702	4.376	3.269	2.685	1.994	1.869	1.680	1.344	0.921	0.496	0.480
240	5.814	4.525	3.338	2.761	2.045	1.919	1.729	1.392	0.969	0.541	0.480
245	5.925	4.675	3.408	2.837	2.106	1.969	1.778	1.439	1.017	0.586	0.480
250	6.036	4.825	3.477	2.914	2.190	2.019	1.827	1.487	1.065	0.631	0.480

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 75 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	2.597	1.640	1.222	0.943	0.696	0.624	0.480	0.480	0.480	0.480	0.480
55	2.786	1.823	1.351	1.014	0.757	0.680	0.553	0.480	0.480	0.480	0.480
60	2.975	2.006	1.481	1.085	0.817	0.737	0.604	0.480	0.480	0.480	0.480
65	3.164	2.134	1.610	1.156	0.878	0.793	0.655	0.480	0.480	0.480	0.480
70	3.353	2.222	1.740	1.227	0.938	0.849	0.706	0.480	0.480	0.480	0.480
75	3.531	2.310	1.869	1.298	0.999	0.906	0.757	0.480	0.480	0.480	0.480
80	3.663	2.398	1.998	1.369	1.059	0.962	0.807	0.480	0.480	0.480	0.480
85	3.796	2.487	2.107	1.440	1.120	1.018	0.858	0.494	0.480	0.480	0.480
90	3.928	2.575	2.180	1.511	1.180	1.075	0.909	0.544	0.480	0.480	0.480
95	4.061	2.663	2.252	1.581	1.241	1.131	0.960	0.594	0.480	0.480	0.480
100	4.193	2.751	2.324	1.652	1.302	1.187	1.011	0.644	0.480	0.480	0.480
105	4.326	2.839	2.396	1.723	1.362	1.244	1.062	0.693	0.480	0.480	0.480
110	4.458	2.928	2.468	1.794	1.423	1.300	1.112	0.743	0.503	0.480	0.480
115	4.590	3.016	2.540	1.865	1.483	1.356	1.163	0.793	0.550	0.480	0.480
120	4.723	3.104	2.613	1.936	1.544	1.413	1.214	0.843	0.598	0.480	0.480
125	4.855	3.192	2.685	2.007	1.604	1.469	1.265	0.893	0.645	0.480	0.480
130	4.988	3.281	2.757	2.078	1.665	1.525	1.316	0.942	0.693	0.480	0.480
135	5.120	3.369	2.829	2.150	1.725	1.582	1.367	0.992	0.740	0.480	0.480
140	5.240	3.457	2.901	2.223	1.786	1.638	1.417	1.042	0.787	0.480	0.480
145	5.335	3.565	2.973	2.295	1.846	1.694	1.468	1.092	0.835	0.517	0.480
150	5.430	3.696	3.046	2.368	1.907	1.751	1.519	1.141	0.882	0.563	0.480
155	5.525	3.827	3.118	2.440	1.967	1.807	1.570	1.191	0.930	0.610	0.480
160	5.619	3.957	3.190	2.513	2.028	1.863	1.621	1.241	0.977	0.656	0.480
165	5.714	4.088	3.262	2.585	2.090	1.920	1.672	1.291	1.025	0.702	0.480
170	5.809	4.219	3.334	2.658	2.165	1.976	1.723	1.341	1.072	0.749	0.480
175	5.904	4.350	3.406	2.731	2.239	2.032	1.773	1.390	1.120	0.795	0.480
180	5.998	4.480	3.479	2.803	2.314	2.091	1.824	1.440	1.167	0.842	0.480
185	6.093	4.611	3.606	2.876	2.388	2.168	1.875	1.490	1.215	0.888	0.480
190	6.188	4.742	3.764	2.948	2.463	2.244	1.926	1.540	1.262	0.934	0.480
195	6.283	4.873	3.922	3.021	2.538	2.321	1.977	1.590	1.310	0.981	0.480
200	6.377	5.003	4.081	3.093	2.612	2.398	2.028	1.639	1.357	1.027	0.514
205	6.472	5.134	4.239	3.166	2.687	2.474	2.078	1.689	1.404	1.074	0.561
210	6.567	5.263	4.397	3.238	2.761	2.551	2.158	1.739	1.452	1.120	0.607
215	6.662	5.389	4.555	3.311	2.836	2.628	2.240	1.789	1.499	1.166	0.653
220	6.756	5.514	4.713	3.383	2.911	2.704	2.322	1.839	1.547	1.213	0.699
225	6.851	5.640	4.871	3.456	2.985	2.781	2.404	1.888	1.594	1.259	0.745
230	6.946	5.766	5.029	3.592	3.060	2.858	2.486	1.938	1.642	1.305	0.791
235	7.041	5.892	5.187	3.858	3.134	2.934	2.569	1.988	1.689	1.352	0.837
240	7.135	6.017	5.319	4.123	3.209	3.011	2.651	2.038	1.737	1.398	0.883
245	7.230	6.143	5.446	4.388	3.284	3.088	2.733	2.091	1.784	1.445	0.929
250	7.325	6.269	5.573	4.653	3.358	3.164	2.815	2.175	1.832	1.491	0.975

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 90 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	3.524	2.193	1.716	1.365	1.099	1.011	0.876	0.657	0.480	0.480	0.480
55	3.825	2.399	1.894	1.499	1.187	1.083	0.940	0.713	0.480	0.480	0.480
60	4.126	2.605	2.071	1.632	1.276	1.154	1.003	0.769	0.518	0.480	0.480
65	4.427	2.810	2.170	1.765	1.364	1.225	1.067	0.826	0.566	0.480	0.480
70	4.728	3.016	2.263	1.898	1.452	1.297	1.130	0.882	0.615	0.480	0.480
75	5.029	3.222	2.357	2.032	1.540	1.368	1.194	0.938	0.664	0.480	0.480
80	5.268	3.428	2.450	2.131	1.629	1.440	1.257	0.994	0.712	0.480	0.480
85	5.415	3.594	2.544	2.210	1.717	1.511	1.321	1.050	0.761	0.480	0.480
90	5.563	3.736	2.637	2.288	1.805	1.582	1.384	1.107	0.809	0.480	0.480
95	5.710	3.879	2.731	2.367	1.893	1.654	1.448	1.163	0.858	0.519	0.480
100	5.857	4.022	2.824	2.446	1.981	1.725	1.511	1.219	0.906	0.569	0.480
105	6.005	4.165	2.917	2.525	2.070	1.796	1.574	1.275	0.955	0.618	0.480
110	6.152	4.307	3.011	2.603	2.144	1.868	1.638	1.332	1.004	0.667	0.480
115	6.299	4.450	3.104	2.682	2.216	1.939	1.701	1.388	1.052	0.716	0.480
120	6.447	4.593	3.198	2.761	2.289	2.010	1.765	1.444	1.101	0.765	0.480
125	6.594	4.735	3.291	2.839	2.361	2.082	1.828	1.500	1.149	0.815	0.480
130	6.741	4.878	3.385	2.918	2.433	2.156	1.892	1.556	1.198	0.864	0.480
135	6.889	5.021	3.478	2.997	2.505	2.230	1.955	1.613	1.246	0.913	0.517
140	7.036	5.164	3.655	3.076	2.578	2.304	2.019	1.669	1.295	0.962	0.566
145	7.183	5.277	3.864	3.154	2.650	2.378	2.082	1.725	1.344	1.012	0.615
150	7.331	5.378	4.073	3.233	2.722	2.453	2.156	1.781	1.392	1.061	0.664
155	7.478	5.478	4.282	3.312	2.794	2.527	2.230	1.837	1.441	1.110	0.713
160	-	5.579	4.491	3.390	2.866	2.601	2.304	1.894	1.489	1.159	0.762
165	-	5.679	4.700	3.469	2.939	2.675	2.378	1.950	1.538	1.209	0.810
170	-	5.780	4.909	3.601	3.011	2.750	2.452	2.006	1.587	1.258	0.859
175	-	5.880	5.118	3.776	3.083	2.824	2.527	2.062	1.635	1.307	0.908
180	-	5.980	5.275	3.951	3.155	2.898	2.601	2.131	1.684	1.356	0.957
185	-	6.081	5.393	4.125	3.228	2.972	2.675	2.207	1.732	1.405	1.006
190	-	6.181	5.510	4.300	3.300	3.046	2.749	2.282	1.781	1.455	1.055
195	-	6.282	5.628	4.474	3.372	3.121	2.823	2.358	1.829	1.504	1.104
200	-	6.382	5.745	4.649	3.444	3.195	2.897	2.434	1.878	1.553	1.153
205	-	6.483	5.862	4.824	3.548	3.269	2.971	2.509	1.927	1.602	1.202
210	-	6.583	5.980	4.998	3.798	3.343	3.045	2.585	1.975	1.652	1.251
215	-	6.683	6.097	5.173	4.048	3.418	3.119	2.660	2.024	1.701	1.300
220	-	6.784	6.215	5.330	4.298	3.492	3.193	2.736	2.072	1.750	1.349
225	-	6.884	6.332	5.483	4.548	3.772	3.267	2.812	2.150	1.799	1.398
230	-	6.985	6.450	5.636	4.799	4.094	3.342	2.887	2.234	1.849	1.447
235	-	7.085	6.567	5.788	5.049	4.415	3.416	2.963	2.319	1.898	1.496
240	-	7.185	6.685	5.941	5.264	4.736	3.490	3.038	2.403	1.947	1.544
245	-	7.286	6.802	6.094	5.418	5.058	3.827	3.114	2.488	1.996	1.593
250	-	7.386	6.920	6.246	5.571	5.290	4.227	3.190	2.572	2.045	1.642

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 105 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	5.075	3.135	2.192	1.798	1.482	1.375	1.226	0.999	0.751	0.513	0.480
55	5.255	3.394	2.392	1.974	1.619	1.500	1.332	1.064	0.810	0.567	0.480
60	5.435	3.691	2.593	2.121	1.756	1.624	1.438	1.129	0.870	0.620	0.480
65	5.616	4.016	2.794	2.222	1.892	1.749	1.544	1.194	0.930	0.673	0.480
70	5.796	4.341	2.995	2.324	2.029	1.873	1.651	1.259	0.990	0.726	0.480
75	5.976	4.666	3.196	2.425	2.133	1.997	1.757	1.324	1.050	0.780	0.480
80	6.156	4.991	3.397	2.527	2.216	2.107	1.863	1.388	1.110	0.833	0.480
85	6.336	5.258	3.607	2.628	2.299	2.186	1.970	1.453	1.170	0.886	0.480
90	6.516	5.406	3.826	2.729	2.382	2.264	2.076	1.518	1.230	0.940	0.480
95	6.696	5.553	4.045	2.831	2.464	2.343	2.151	1.583	1.290	0.993	0.519
100	6.876	5.701	4.264	2.932	2.547	2.422	2.224	1.648	1.350	1.046	0.571
105	7.056	5.849	4.482	3.034	2.630	2.500	2.296	1.713	1.410	1.099	0.623
110	7.236	5.996	4.701	3.135	2.713	2.579	2.369	1.778	1.470	1.153	0.675
115	7.416	6.144	4.920	3.236	2.796	2.658	2.442	1.843	1.530	1.206	0.727
120	7.596	6.292	5.139	3.338	2.879	2.736	2.515	1.908	1.590	1.259	0.780
125	-	6.440	5.283	3.439	2.962	2.815	2.588	1.973	1.650	1.313	0.832
130	-	6.587	5.393	3.618	3.045	2.893	2.661	2.038	1.710	1.366	0.884
135	-	6.735	5.502	3.937	3.127	2.972	2.734	2.105	1.770	1.419	0.936
140	-	6.883	5.611	4.255	3.210	3.051	2.807	2.180	1.830	1.472	0.988
145	-	7.031	5.720	4.573	3.293	3.129	2.880	2.254	1.890	1.526	1.040
150	-	7.178	5.829	4.891	3.376	3.208	2.952	2.328	1.950	1.579	1.092
155	-	7.326	5.938	5.209	3.459	3.287	3.025	2.402	2.010	1.632	1.144
160	-	7.474	6.047	5.323	3.618	3.365	3.098	2.476	2.070	1.686	1.196
165	-	7.622	6.157	5.437	3.867	3.444	3.171	2.550	2.140	1.739	1.248
170	-	-	6.266	5.552	4.116	3.552	3.244	2.625	2.214	1.792	1.300
175	-	-	6.375	5.666	4.364	3.755	3.317	2.699	2.287	1.846	1.352
180	-	-	6.484	5.780	4.613	3.957	3.390	2.773	2.361	1.899	1.404
185	-	-	6.593	5.894	4.862	4.160	3.463	2.847	2.434	1.952	1.456
190	-	-	6.702	6.008	5.111	4.363	3.608	2.921	2.507	2.005	1.508
195	-	-	6.811	6.122	5.299	4.566	3.849	2.995	2.581	2.059	1.560
200	-	-	6.921	6.236	5.447	4.769	4.090	3.069	2.654	2.126	1.612
205	-	-	7.030	6.350	5.594	4.972	4.330	3.144	2.728	2.203	1.664
210	-	-	7.139	6.465	5.742	5.175	4.571	3.218	2.801	2.281	1.716
215	-	-	7.248	6.579	5.890	5.359	4.812	3.292	2.875	2.358	1.769
220	-	-	7.357	6.693	6.038	5.539	5.052	3.366	2.948	2.436	1.821
225	-	-	7.466	6.807	6.186	5.720	5.273	3.440	3.021	2.513	1.873
230	-	-	7.575	6.921	6.334	5.900	5.455	3.576	3.095	2.591	1.925
235	-	-	-	7.035	6.481	6.080	5.638	4.089	3.168	2.668	1.977
240	-	-	-	7.149	6.629	6.261	5.820	4.602	3.242	2.746	2.029
245	-	-	-	7.263	6.777	6.441	6.003	5.115	3.315	2.823	2.081
250	-	-	-	7.378	6.925	6.621	6.185	5.358	3.389	2.901	2.161

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 120 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	5.825	4.271	3.022	2.216	1.869	1.748	1.577	1.309	1.058	0.800	0.480
55	6.029	4.896	3.268	2.416	2.044	1.909	1.719	1.423	1.133	0.864	0.509
60	6.233	5.296	3.523	2.616	2.169	2.070	1.861	1.537	1.208	0.927	0.566
65	6.438	5.469	3.986	2.816	2.280	2.169	2.003	1.651	1.283	0.991	0.623
70	6.642	5.643	4.449	3.016	2.392	2.262	2.120	1.765	1.358	1.054	0.680
75	6.846	5.817	4.911	3.217	2.503	2.355	2.207	1.878	1.432	1.118	0.737
80	7.050	5.990	5.274	3.417	2.614	2.448	2.293	1.992	1.507	1.182	0.794
85	7.254	6.164	5.457	3.709	2.725	2.541	2.379	2.098	1.582	1.245	0.851
90	7.458	6.338	5.639	4.071	2.836	2.635	2.465	2.174	1.657	1.309	0.908
95	-	6.511	5.822	4.434	2.948	2.728	2.552	2.249	1.732	1.372	0.965
100	-	6.685	6.005	4.797	3.059	2.821	2.638	2.324	1.807	1.436	1.022
105	-	6.859	6.187	5.160	3.170	2.914	2.724	2.400	1.882	1.500	1.079
110	-	7.032	6.370	5.345	3.281	3.007	2.810	2.475	1.957	1.563	1.136
115	-	7.206	6.553	5.503	3.393	3.100	2.897	2.551	2.032	1.627	1.193
120	-	7.380	6.735	5.660	3.504	3.194	2.983	2.626	2.106	1.690	1.250
125	-	7.553	6.918	5.818	3.914	3.287	3.069	2.702	2.178	1.754	1.307
130	-	-	7.101	5.975	4.325	3.380	3.155	2.777	2.250	1.818	1.364
135	-	-	7.283	6.133	4.736	3.473	3.242	2.853	2.322	1.881	1.420
140	-	-	7.466	6.290	5.147	3.895	3.328	2.928	2.394	1.945	1.477
145	-	-	-	6.447	5.309	4.478	3.414	3.003	2.467	2.008	1.534
150	-	-	-	6.605	5.426	5.061	3.500	3.079	2.539	2.072	1.591
155	-	-	-	6.762	5.544	5.299	3.902	3.154	2.611	2.143	1.648
160	-	-	-	6.920	5.661	5.419	4.318	3.230	2.683	2.215	1.705
165	-	-	-	7.077	5.778	5.540	4.734	3.305	2.756	2.288	1.762
170	-	-	-	7.235	5.896	5.660	5.150	3.381	2.828	2.360	1.819
175	-	-	-	7.392	6.013	5.780	5.327	3.456	2.900	2.433	1.876
180	-	-	-	7.550	6.131	5.900	5.464	3.592	2.972	2.505	1.933
185	-	-	-	-	6.248	6.021	5.600	3.833	3.044	2.578	1.990
190	-	-	-	-	6.366	6.141	5.737	4.073	3.117	2.650	2.047
195	-	-	-	-	6.483	6.261	5.874	4.314	3.189	2.722	2.112
200	-	-	-	-	6.601	6.382	6.011	4.555	3.261	2.795	2.189
205	-	-	-	-	6.718	6.502	6.148	4.795	3.333	2.867	2.267
210	-	-	-	-	6.836	6.622	6.285	5.036	3.405	2.940	2.344
215	-	-	-	-	6.953	6.743	6.422	5.268	3.478	3.012	2.422
220	-	-	-	-	7.071	6.863	6.559	5.479	3.791	3.085	2.499
225	-	-	-	-	7.188	6.983	6.696	5.690	4.243	3.157	2.577
230	-	-	-	-	7.305	7.104	6.832	5.900	4.695	3.229	2.654
235	-	-	-	-	7.423	7.224	6.969	6.111	5.147	3.302	2.732
240	-	-	-	-	7.540	7.344	7.106	6.321	5.387	3.374	2.809
245	-	-	-	-	7.658	7.465	7.243	6.532	5.593	3.447	2.887
250	-	-	-	-	-	7.585	7.380	6.743	5.798	3.663	2.964

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides. Results also apply to Rectangular/Square hollow beams exposed on all 4 sides up to a maximum dry film thickness of 3.872mm.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Columns : 150 minutes											
Required Thickness (mm) for a Design Temperature (°C)											
Section Factor (m ⁻¹)	300	350	400	450	500	520	550	600	650	700	750
50	-	6.173	5.379	3.765	2.954	2.744	2.265	1.987	1.637	1.344	0.961
55	-	6.405	5.575	4.682	3.180	2.946	2.464	2.113	1.784	1.466	1.041
60	-	6.637	5.770	5.290	3.406	3.147	2.663	2.239	1.931	1.588	1.122
65	-	6.868	5.966	5.480	3.956	3.349	2.862	2.365	2.078	1.710	1.203
70	-	7.100	6.161	5.670	4.754	3.689	3.061	2.490	2.170	1.832	1.284
75	-	7.331	6.357	5.861	5.294	4.482	3.260	2.616	2.260	1.954	1.365
80	-	-	6.552	6.051	5.493	5.226	3.459	2.742	2.351	2.075	1.445
85	-	-	6.748	6.241	5.692	5.434	4.163	2.867	2.441	2.157	1.526
90	-	-	6.943	6.432	5.891	5.641	5.015	2.993	2.532	2.237	1.607
95	-	-	7.139	6.622	6.090	5.849	5.386	3.119	2.623	2.317	1.688
100	-	-	7.334	6.812	6.289	6.057	5.616	3.244	2.713	2.397	1.769
105	-	-	-	7.003	6.488	6.264	5.845	3.370	2.804	2.476	1.850
110	-	-	-	7.193	6.687	6.472	6.075	3.496	2.894	2.556	1.930
115	-	-	-	7.383	6.886	6.679	6.304	4.839	2.985	2.636	2.011
120	-	-	-	7.573	7.085	6.887	6.534	5.349	3.075	2.715	2.091
125	-	-	-	-	7.283	7.095	6.763	5.538	3.166	2.795	2.168
130	-	-	-	-	7.482	7.302	6.992	5.727	3.256	2.875	2.244
135	-	-	-	-	-	7.510	7.222	5.916	3.347	2.954	2.320
140	-	-	-	-	-	-	7.451	6.105	3.437	3.034	2.396
145	-	-	-	-	-	-	7.681	6.295	3.909	3.114	2.472
150	-	-	-	-	-	-	-	6.484	5.230	3.193	2.548
155	-	-	-	-	-	-	-	6.673	5.366	3.273	2.624
160	-	-	-	-	-	-	-	6.862	5.503	3.353	2.700
165	-	-	-	-	-	-	-	7.051	5.640	3.433	2.776
170	-	-	-	-	-	-	-	7.240	5.776	3.547	2.852
175	-	-	-	-	-	-	-	7.429	5.913	3.957	2.928
180	-	-	-	-	-	-	-	7.618	6.049	4.367	3.004
185	-	-	-	-	-	-	-	-	6.186	4.777	3.080
190	-	-	-	-	-	-	-	-	6.323	5.187	3.156
195	-	-	-	-	-	-	-	-	6.459	5.385	3.233
200	-	-	-	-	-	-	-	-	6.596	5.570	3.309
205	-	-	-	-	-	-	-	-	6.732	5.756	3.385
210	-	-	-	-	-	-	-	-	6.869	5.941	3.461
215	-	-	-	-	-	-	-	-	7.006	6.127	3.724
220	-	-	-	-	-	-	-	-	7.142	6.312	4.234
225	-	-	-	-	-	-	-	-	7.279	6.498	4.743
230	-	-	-	-	-	-	-	-	7.415	6.684	5.231
235	-	-	-	-	-	-	-	-	7.552	6.869	5.488
240	-	-	-	-	-	-	-	-	7.689	7.055	5.745
245	-	-	-	-	-	-	-	-	-	7.240	6.003
250	-	-	-	-	-	-	-	-	-	7.426	6.260

Thickness is intumescent only. Results apply to Rectangular/Square hollow columns exposed to fire on all sides.

Signed 
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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031

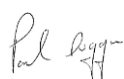


CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 15 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
60	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
65	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
70	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
85	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
100	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
105	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
110	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
115	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
120	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
125	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
130	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
135	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
140	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
145	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
150	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
155	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
160	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
165	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
170	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
175	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
180	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
185	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
190	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
195	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
200	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
205	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
210	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 20 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
60	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
65	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
70	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
85	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
100	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
105	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
110	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
115	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
120	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
125	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
130	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
135	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
140	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
145	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
150	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
155	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
160	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
165	0.507	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
170	0.543	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
175	0.579	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
180	0.615	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
185	0.651	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
190	0.687	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
195	0.722	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
200	0.758	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
205	0.794	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
210	0.830	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 30 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
60	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
65	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
70	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75	0.537	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80	0.580	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
85	0.624	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90	0.667	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95	0.711	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
100	0.754	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
105	0.798	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
110	0.841	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
115	0.885	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
120	0.928	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
125	0.972	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
130	1.015	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
135	1.058	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
140	1.102	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
145	1.145	0.536	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
150	1.189	0.576	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
155	1.232	0.616	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
160	1.276	0.656	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
165	1.319	0.696	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
170	1.363	0.736	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
175	1.406	0.776	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
180	1.450	0.816	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
185	1.493	0.856	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
190	1.537	0.897	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
195	1.580	0.937	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
200	1.624	0.977	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
205	1.667	1.017	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
210	1.710	1.057	0.520	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 45 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	0.822	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	0.896	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
60	0.969	0.515	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
65	1.043	0.563	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
70	1.116	0.612	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75	1.190	0.660	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80	1.263	0.708	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
85	1.337	0.756	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90	1.410	0.805	0.531	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95	1.483	0.853	0.574	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
100	1.557	0.901	0.617	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
105	1.630	0.949	0.659	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
110	1.704	0.998	0.702	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
115	1.777	1.046	0.745	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
120	1.851	1.094	0.787	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
125	1.924	1.142	0.830	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
130	1.998	1.190	0.872	0.503	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
135	2.071	1.239	0.915	0.544	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
140	2.155	1.287	0.958	0.585	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
145	2.244	1.335	1.000	0.626	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
150	2.333	1.383	1.043	0.668	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
155	2.422	1.432	1.085	0.709	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
160	2.511	1.480	1.128	0.750	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
165	2.600	1.528	1.171	0.791	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
170	2.689	1.576	1.213	0.833	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
175	2.778	1.624	1.256	0.874	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
180	2.868	1.673	1.299	0.915	0.520	0.500	0.500	0.500	0.500	0.500	0.500	0.500
185	2.957	1.721	1.341	0.956	0.564	0.500	0.500	0.500	0.500	0.500	0.500	0.500
190	3.046	1.769	1.384	0.997	0.607	0.500	0.500	0.500	0.500	0.500	0.500	0.500
195	3.135	1.817	1.426	1.039	0.651	0.504	0.500	0.500	0.500	0.500	0.500	0.500
200	3.224	1.866	1.469	1.080	0.694	0.542	0.500	0.500	0.500	0.500	0.500	0.500
205	3.313	1.914	1.512	1.121	0.737	0.580	0.500	0.500	0.500	0.500	0.500	0.500
210	3.402	1.962	1.554	1.162	0.781	0.618	0.527	0.500	0.500	0.500	0.500	0.500

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 60 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	1.536	0.888	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	1.674	0.958	0.570	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
60	1.812	1.028	0.622	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
65	1.951	1.098	0.673	0.525	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
70	2.089	1.168	0.725	0.570	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
75	2.186	1.238	0.776	0.615	0.504	0.500	0.500	0.500	0.500	0.500	0.500	0.500
80	2.281	1.308	0.827	0.660	0.545	0.500	0.500	0.500	0.500	0.500	0.500	0.500
85	2.376	1.378	0.879	0.705	0.587	0.500	0.500	0.500	0.500	0.500	0.500	0.500
90	2.471	1.448	0.930	0.750	0.629	0.500	0.500	0.500	0.500	0.500	0.500	0.500
95	2.565	1.518	0.981	0.795	0.670	0.528	0.500	0.500	0.500	0.500	0.500	0.500
100	2.660	1.588	1.033	0.840	0.712	0.567	0.500	0.500	0.500	0.500	0.500	0.500
105	2.755	1.658	1.084	0.885	0.753	0.606	0.500	0.500	0.500	0.500	0.500	0.500
110	2.849	1.728	1.136	0.930	0.795	0.646	0.537	0.500	0.500	0.500	0.500	0.500
115	2.944	1.798	1.187	0.975	0.836	0.685	0.575	0.500	0.500	0.500	0.500	0.500
120	3.039	1.868	1.238	1.020	0.878	0.724	0.613	0.528	0.500	0.500	0.500	0.500
125	3.134	1.938	1.290	1.065	0.920	0.763	0.651	0.565	0.500	0.500	0.500	0.500
130	3.228	2.008	1.341	1.110	0.961	0.802	0.690	0.603	0.500	0.500	0.500	0.500
135	3.323	2.078	1.392	1.155	1.003	0.841	0.728	0.641	0.534	0.500	0.500	0.500
140	3.418	2.167	1.444	1.200	1.044	0.880	0.766	0.679	0.572	0.500	0.500	0.500
145	3.512	2.265	1.495	1.245	1.086	0.919	0.804	0.716	0.609	0.500	0.500	0.500
150	3.607	2.362	1.547	1.290	1.127	0.958	0.842	0.754	0.647	0.500	0.500	0.500
155	3.702	2.459	1.598	1.335	1.169	0.997	0.880	0.792	0.684	0.500	0.500	0.500
160	-	2.556	1.649	1.380	1.210	1.037	0.918	0.829	0.722	0.519	0.500	0.500
165	-	2.653	1.701	1.425	1.252	1.076	0.956	0.867	0.759	0.557	0.500	0.500
170	-	2.751	1.752	1.470	1.294	1.115	0.994	0.905	0.797	0.595	0.500	0.500
175	-	2.848	1.803	1.515	1.335	1.154	1.032	0.943	0.834	0.633	0.500	0.500
180	-	2.945	1.855	1.560	1.377	1.193	1.071	0.980	0.872	0.671	0.500	0.500
185	-	3.042	1.906	1.605	1.418	1.232	1.109	1.018	0.909	0.709	0.500	0.500
190	-	3.140	1.958	1.650	1.460	1.271	1.147	1.056	0.947	0.747	0.500	0.500
195	-	3.237	2.009	1.695	1.501	1.310	1.185	1.093	0.984	0.785	0.534	0.500
200	-	3.334	2.060	1.740	1.543	1.349	1.223	1.131	1.022	0.823	0.571	0.500
205	-	3.431	2.142	1.785	1.585	1.389	1.261	1.169	1.059	0.861	0.609	0.500
210	-	3.528	2.300	1.830	1.626	1.428	1.299	1.207	1.097	0.899	0.646	0.500

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 75 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	2.202	1.449	0.996	0.604	0.538	0.500	0.500	0.500	0.500	0.500	0.500	0.500
55	2.349	1.565	1.067	0.659	0.586	0.512	0.500	0.500	0.500	0.500	0.500	0.500
60	2.496	1.681	1.137	0.714	0.635	0.556	0.503	0.500	0.500	0.500	0.500	0.500
65	2.644	1.797	1.208	0.769	0.683	0.601	0.545	0.506	0.500	0.500	0.500	0.500
70	2.791	1.913	1.278	0.825	0.731	0.645	0.588	0.547	0.501	0.500	0.500	0.500
75	2.939	2.029	1.349	0.880	0.780	0.690	0.631	0.589	0.541	0.500	0.500	0.500
80	3.086	2.139	1.419	0.935	0.828	0.734	0.673	0.630	0.581	0.503	0.500	0.500
85	3.233	2.240	1.489	0.990	0.877	0.779	0.716	0.672	0.622	0.542	0.500	0.500
90	3.381	2.342	1.560	1.046	0.925	0.823	0.758	0.713	0.662	0.581	0.500	0.500
95	3.528	2.443	1.630	1.101	0.973	0.868	0.801	0.755	0.702	0.620	0.500	0.500
100	3.675	2.545	1.701	1.156	1.022	0.912	0.843	0.796	0.743	0.659	0.500	0.500
105	-	2.646	1.771	1.211	1.070	0.957	0.886	0.838	0.783	0.698	0.525	0.500
110	-	2.748	1.842	1.267	1.118	1.002	0.929	0.879	0.823	0.737	0.563	0.500
115	-	2.850	1.912	1.322	1.167	1.046	0.971	0.921	0.864	0.775	0.602	0.500
120	-	2.951	1.983	1.377	1.215	1.091	1.014	0.962	0.904	0.814	0.640	0.500
125	-	3.053	2.053	1.432	1.264	1.135	1.056	1.003	0.944	0.853	0.679	0.500
130	-	3.154	2.135	1.487	1.312	1.180	1.099	1.045	0.985	0.892	0.717	0.500
135	-	3.256	2.237	1.543	1.360	1.224	1.142	1.086	1.025	0.931	0.756	0.500
140	-	3.358	2.338	1.598	1.409	1.269	1.184	1.128	1.065	0.970	0.794	0.500
145	-	3.459	2.440	1.653	1.457	1.313	1.227	1.169	1.105	1.009	0.833	0.500
150	-	3.561	2.541	1.708	1.505	1.358	1.269	1.211	1.146	1.048	0.871	0.510
155	-	3.662	2.643	1.764	1.554	1.402	1.312	1.252	1.186	1.087	0.910	0.550
160	-	3.764	2.744	1.819	1.602	1.447	1.355	1.294	1.226	1.126	0.948	0.590
165	-	-	2.845	1.874	1.651	1.491	1.397	1.335	1.267	1.165	0.987	0.630
170	-	-	2.947	1.929	1.699	1.536	1.440	1.377	1.307	1.204	1.025	0.671
175	-	-	3.048	1.985	1.747	1.580	1.482	1.418	1.347	1.243	1.064	0.711
180	-	-	3.150	2.040	1.796	1.625	1.525	1.460	1.388	1.282	1.103	0.751
185	-	-	3.251	2.095	1.844	1.670	1.568	1.501	1.428	1.320	1.141	0.791
190	-	-	3.353	2.267	1.892	1.714	1.610	1.543	1.468	1.359	1.180	0.831
195	-	-	3.454	2.444	1.941	1.759	1.653	1.584	1.509	1.398	1.218	0.871
200	-	-	3.556	2.621	1.989	1.803	1.695	1.625	1.549	1.437	1.257	0.911
205	-	-	3.657	2.797	2.038	1.848	1.738	1.667	1.589	1.476	1.295	0.951
210	-	-	3.758	2.974	2.086	1.892	1.780	1.708	1.630	1.515	1.334	0.992

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 90 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	3.217	2.020	1.459	1.119	0.935	0.769	0.586	0.558	0.525	0.500	0.500	0.500
55	3.424	2.162	1.568	1.191	0.995	0.816	0.635	0.606	0.571	0.517	0.500	0.500
60	3.632	2.303	1.678	1.263	1.055	0.864	0.685	0.653	0.618	0.562	0.500	0.500
65	-	2.444	1.787	1.334	1.115	0.911	0.734	0.701	0.664	0.606	0.500	0.500
70	-	2.585	1.897	1.406	1.175	0.958	0.783	0.749	0.710	0.651	0.539	0.500
75	-	2.726	2.006	1.478	1.235	1.006	0.832	0.797	0.756	0.695	0.582	0.500
80	-	2.867	2.121	1.550	1.295	1.053	0.882	0.844	0.803	0.740	0.625	0.500
85	-	3.009	2.260	1.622	1.355	1.101	0.931	0.892	0.849	0.784	0.669	0.500
90	-	3.150	2.400	1.693	1.415	1.148	0.980	0.940	0.895	0.829	0.712	0.529
95	-	3.291	2.539	1.765	1.475	1.195	1.029	0.988	0.942	0.873	0.755	0.571
100	-	3.432	2.679	1.837	1.535	1.243	1.078	1.036	0.988	0.918	0.799	0.613
105	-	3.573	2.818	1.909	1.595	1.290	1.128	1.083	1.034	0.962	0.842	0.655
110	-	3.714	2.958	1.981	1.655	1.337	1.177	1.131	1.081	1.007	0.885	0.697
115	-	-	3.098	2.053	1.715	1.385	1.226	1.179	1.127	1.051	0.928	0.739
120	-	-	3.237	2.137	1.775	1.432	1.275	1.227	1.173	1.096	0.972	0.781
125	-	-	3.377	2.240	1.835	1.479	1.324	1.275	1.220	1.140	1.015	0.823
130	-	-	3.516	2.344	1.895	1.527	1.374	1.322	1.266	1.185	1.058	0.865
135	-	-	3.656	2.448	1.955	1.574	1.423	1.370	1.312	1.229	1.102	0.906
140	-	-	-	2.552	2.016	1.622	1.472	1.418	1.359	1.274	1.145	0.948
145	-	-	-	2.656	2.076	1.669	1.521	1.466	1.405	1.318	1.188	0.990
150	-	-	-	2.760	2.178	1.716	1.571	1.513	1.451	1.363	1.232	1.032
155	-	-	-	2.864	2.304	1.764	1.620	1.561	1.498	1.407	1.275	1.074
160	-	-	-	2.968	2.430	1.811	1.669	1.609	1.544	1.452	1.318	1.116
165	-	-	-	3.072	2.556	1.858	1.718	1.657	1.590	1.496	1.361	1.158
170	-	-	-	3.176	2.682	1.906	1.767	1.705	1.637	1.541	1.405	1.200
175	-	-	-	3.280	2.808	1.953	1.817	1.752	1.683	1.585	1.448	1.242
180	-	-	-	3.383	2.934	2.001	1.866	1.800	1.729	1.630	1.491	1.283
185	-	-	-	3.487	3.060	2.048	1.915	1.848	1.776	1.674	1.535	1.325
190	-	-	-	3.591	3.186	2.095	1.964	1.896	1.822	1.719	1.578	1.367
195	-	-	-	3.695	3.312	2.320	2.014	1.944	1.868	1.763	1.621	1.409
200	-	-	-	3.799	3.438	2.552	2.063	1.991	1.915	1.808	1.665	1.451
205	-	-	-	-	3.564	2.784	2.170	2.039	1.961	1.852	1.708	1.493
210	-	-	-	-	3.690	3.016	2.411	2.087	2.007	1.897	1.751	1.535

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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EWC-QU-FT-733 (Issue 3)

Issued: 30th April 2026
Valid to: 29th April 2031



CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 105 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	-	2.866	1.916	1.516	1.305	1.110	0.994	0.919	0.838	0.606	0.500	0.500
55	-	3.081	2.072	1.626	1.390	1.177	1.054	0.974	0.889	0.657	0.568	0.500
60	-	3.296	2.280	1.737	1.475	1.243	1.114	1.030	0.940	0.708	0.617	0.500
65	-	3.511	2.497	1.848	1.560	1.310	1.174	1.086	0.991	0.759	0.667	0.541
70	-	-	2.715	1.959	1.645	1.376	1.233	1.141	1.042	0.810	0.716	0.588
75	-	-	2.933	2.069	1.729	1.443	1.293	1.197	1.093	0.861	0.766	0.635
80	-	-	3.151	2.267	1.814	1.509	1.353	1.252	1.144	0.911	0.815	0.682
85	-	-	3.368	2.494	1.899	1.575	1.413	1.308	1.195	0.962	0.864	0.729
90	-	-	3.586	2.722	1.984	1.642	1.473	1.364	1.246	1.013	0.914	0.776
95	-	-	-	2.949	2.069	1.708	1.533	1.419	1.297	1.064	0.963	0.823
100	-	-	-	3.176	2.213	1.775	1.593	1.475	1.348	1.115	1.012	0.871
105	-	-	-	3.403	2.388	1.841	1.653	1.530	1.399	1.166	1.062	0.918
110	-	-	-	3.630	2.563	1.908	1.713	1.586	1.450	1.217	1.111	0.965
115	-	-	-	-	2.737	1.974	1.773	1.642	1.501	1.268	1.161	1.012
120	-	-	-	-	2.912	2.041	1.833	1.697	1.552	1.319	1.210	1.059
125	-	-	-	-	3.087	2.114	1.893	1.753	1.603	1.370	1.259	1.106
130	-	-	-	-	3.261	2.225	1.953	1.808	1.654	1.420	1.309	1.153
135	-	-	-	-	3.436	2.336	2.013	1.864	1.705	1.471	1.358	1.200
140	-	-	-	-	3.610	2.447	2.073	1.920	1.756	1.522	1.408	1.247
145	-	-	-	-	-	2.558	2.173	1.975	1.807	1.573	1.457	1.294
150	-	-	-	-	-	2.669	2.299	2.031	1.858	1.624	1.506	1.341
155	-	-	-	-	-	2.780	2.425	2.086	1.909	1.675	1.556	1.388
160	-	-	-	-	-	2.891	2.552	2.214	1.960	1.726	1.605	1.435
165	-	-	-	-	-	3.002	2.678	2.359	2.011	1.777	1.654	1.482
170	-	-	-	-	-	3.113	2.804	2.504	2.062	1.828	1.704	1.530
175	-	-	-	-	-	3.223	2.931	2.648	2.154	1.879	1.753	1.577
180	-	-	-	-	-	3.334	3.057	2.793	2.334	1.929	1.803	1.624
185	-	-	-	-	-	3.445	3.183	2.938	2.514	1.980	1.852	1.671
190	-	-	-	-	-	3.556	3.310	3.082	2.694	2.031	1.901	1.718
195	-	-	-	-	-	3.667	3.436	3.227	2.874	2.082	1.951	1.765
200	-	-	-	-	-	3.778	3.562	3.372	3.054	2.270	2.000	1.812
205	-	-	-	-	-	-	3.689	3.517	3.234	2.515	2.049	1.859
210	-	-	-	-	-	-	-	3.661	3.415	2.759	2.104	1.906

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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CERTIFICATE No CF 10374

SHERWIN WILLIAMS UK LIMITED

Rectangular/Square Hollow Beams: 120 minutes												
Required Thickness (mm) for a Design Temperature (°C)												
Section Factor (m ⁻¹)	300	350	400	450	500	550	580	600	620	650	700	750
50	-	-	2.600	1.913	1.667	1.443	1.315	1.233	1.141	1.006	0.788	0.537
55	-	-	2.892	2.063	1.788	1.539	1.397	1.306	1.208	1.068	0.845	0.590
60	-	-	3.184	2.318	1.909	1.635	1.479	1.379	1.275	1.129	0.901	0.643
65	-	-	3.475	2.604	2.030	1.731	1.561	1.452	1.341	1.190	0.957	0.696
70	-	-	3.767	2.889	2.216	1.828	1.643	1.525	1.408	1.251	1.013	0.749
75	-	-	-	3.174	2.483	1.924	1.725	1.598	1.475	1.313	1.069	0.802
80	-	-	-	3.460	2.749	2.020	1.807	1.671	1.541	1.374	1.125	0.855
85	-	-	-	3.745	3.016	2.144	1.889	1.744	1.608	1.435	1.181	0.908
90	-	-	-	-	3.283	2.382	1.971	1.817	1.675	1.497	1.238	0.961
95	-	-	-	-	3.549	2.620	2.053	1.890	1.741	1.558	1.294	1.015
100	-	-	-	-	-	2.858	2.185	1.963	1.808	1.619	1.350	1.068
105	-	-	-	-	-	3.097	2.375	2.036	1.874	1.680	1.406	1.121
110	-	-	-	-	-	3.335	2.565	2.124	1.941	1.742	1.462	1.174
115	-	-	-	-	-	3.573	2.754	2.286	2.008	1.803	1.518	1.227
120	-	-	-	-	-	-	2.944	2.449	2.074	1.864	1.574	1.280
125	-	-	-	-	-	-	3.134	2.611	2.183	1.925	1.631	1.333
130	-	-	-	-	-	-	3.324	2.773	2.312	1.987	1.687	1.386
135	-	-	-	-	-	-	3.514	2.936	2.441	2.048	1.743	1.439
140	-	-	-	-	-	-	-	3.098	2.570	2.122	1.799	1.492
145	-	-	-	-	-	-	-	3.260	2.700	2.248	1.855	1.545
150	-	-	-	-	-	-	-	3.422	2.829	2.374	1.911	1.598
155	-	-	-	-	-	-	-	3.585	2.958	2.499	1.968	1.651
160	-	-	-	-	-	-	-	3.747	3.088	2.625	2.024	1.704
165	-	-	-	-	-	-	-	-	3.217	2.751	2.080	1.757
170	-	-	-	-	-	-	-	-	3.346	2.877	2.198	1.810
175	-	-	-	-	-	-	-	-	3.476	3.002	2.344	1.864
180	-	-	-	-	-	-	-	-	3.605	3.128	2.489	1.917
185	-	-	-	-	-	-	-	-	3.734	3.254	2.635	1.970
190	-	-	-	-	-	-	-	-	-	3.380	2.780	2.023
195	-	-	-	-	-	-	-	-	-	3.505	2.926	2.076
200	-	-	-	-	-	-	-	-	-	3.631	3.072	2.196
205	-	-	-	-	-	-	-	-	-	3.757	3.217	2.360
210	-	-	-	-	-	-	-	-	-	-	3.363	2.524

Thickness is intumescent only. Results apply to Rectangular/Square hollow section beams with concrete slabs with 3-sided fire exposure.

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