

## STANDARD INFORMATION

**Standard Number:** ASTM E2307

**Standard Name:** Test Method for Determining Fire Resistance of Perimeter Fire Barrier Systems Using Intermediate-Scale Multi-Story Test Apparatus

**Standard Edition and Issue Date:** February 1, 2015

**Date of Revision:** ASTM E2307-15a Dated May 1, 2015 and ASTM E2307-15 Dated February 1, 2015

**Date of Previous Revision of Standard:** August 1, 2010

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **September 30, 2019**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

### Overview of Changes:

#### E2307-15 Revision:

- Changes to the average calibration values
- Updated location for thermocouples

#### E2307-15a Revision

- Addition of requirements for the top floor assembly elevation

Specific details of new/revise requirements are found in table below.

**If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).**

### Client Action Required:

**Information** – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).



**Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.**

## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
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Additions to existing requirements are underlined and deletions are shown ~~lined-out~~ below.

The following changes reflect the E2307-15 revision

6	Info	<b>Apparatus</b>
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**Average Calibration Values**

Table 2

	Time (min)					
	0-5	5-10	10-15	15-20	20-25	25-30
Test Room Average °F (°C) using TC's in 8.1	1151 (622)	1346 (730)	1482 (806)	1600 (871)	1597 (869)	1648 (898)
Interior Face of Exterior Wall Assembly Average °F (°C) using TC's in 8.3	1065 (574)	1298 (703)	1433 (778)	1578 (859)	1576 (858)	1655 (902)
TC #2 - <del>1 6 ft (305)</del> <u>1829 mm</u> above <del>Window Top of Floor of</del> <u>Test Room</u> on Exterior Face of Exterior Wall °F(°C)	602 (317)	870 (466)	952 (511)	992 (533)	1046 (563)	1078 (581)
TC #3 - <del>2 7 ft (610)</del> <u>2134 mm</u> above <del>Window Top of Floor of</del> <u>Test Room</u> on Exterior Face of Exterior Wall Assembly °F(°C)	679 (359)	1015 (546)	1121 (605)	1183 (639)	1245 (674)	1296 (702)
TC #4 - <del>3 8 ft (914)</del> <u>2438mm</u> above <del>Window Top of Floor of</del> <u>Test Room</u> on Exterior Face of Exterior Wall Assembly °F(°C)	646 (341)	971 (521)	1096 (591)	1174 (634)	1245 (674)	1314 (712)
	Time (min)					



CLAUSE	VERDICT	COMMENT
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	0-5	5-10	10-15	15-20	20-25	25-30
TC #5 - <del>4 9</del> ft ( <del>1219</del> 2743 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> on Exterior Face of Exterior Wall Assembly °F(°C)	577 (302)	858 (459)	982 (528)	1063 (573)	1135 (613)	1224 (662)
TC #6 - <del>5 10</del> ft ( <del>1524</del> 3048 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> on Exterior Face of Exterior Wall Assembly °F(°C)	521 (272)	765 (407)	875 (469)	949 (509)	1007 (542)	1106 (597)
TC #7 - <del>6 11</del> ft ( <del>1829</del> 3353 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> on Exterior Face of Exterior Wall Assembly °F(°C)	472 (244)	690 (366)	787 (419)	856 (458)	913 (489)	1010 (543)
Calorimeter <del>2 7</del> ft ( <del>610</del> 2134 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> W/in. <sup>2</sup> (W/cm <sup>2</sup> )	5.81 ± 1.29 (0.9 ± 0.2)	12.26 ± 2.58 (1.9 ± 0.4)	16.13 ± 3.23 (2.5 ± 0.5)	18.7 ± 3.87 (2.9 ± 0.6)	21.94 ± 4.52 (3.4 ± 0.7)	24.52 ± 5.16 (3.8 ± 0.8)
Calorimeter <del>3 8</del> ft ( <del>914</del> 2438 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> W/in. <sup>2</sup> (W/cm <sup>2</sup> )	6.45 ± 1.29 (1.0 ± 0.2)	12.90 ± 2.58 (2.0 ± 0.4)	16.77 ± 3.23 (2.6 ± 0.5)	20.65 ± 3.87 (3.2 ± 0.6)	23.87 ± 4.52 (3.7 ± 0.7)	25.81 ± 5.16 (4.0 ± 0.8)
Calorimeter <del>4 9</del> ft ( <del>1219</del> 2743 mm) above <del>Window</del> <u>Top of Floor of Test Room</u> W/in. <sup>2</sup> (W/cm <sup>2</sup> )	5.16 ± 1.29 (0.8 ± 0.2)	9.68 ± 1.94 (1.5 ± 0.3)	12.90 ± 2.58 (2.0 ± 0.4)	16.13 ± 3.23 (2.5 ± 0.5)	19.35 ± 3.87 (3.0 ± 0.6)	21.94 ± 4.52 (3.4 ± 0.7)

8	Info	<b>Test Room Controls</b>
8.3	Info	<b>Interior Face Exterior Wall Assembly Thermocouples:</b>
8.3.1		Place three bare wire thermocouples on the interior face, exposed to the test room burner, of the exterior wall assembly. Locate these thermocouples on the horizontal plane that is <del>12 72</del> ± 1 in. ( <del>305</del> <del>1829</del> ± <del>6</del> 25 mm) above the <del>window opening top of the test room floor</del> as specified in 8.3.2 through 8.3.4.
9	Info	<b>Calibration and Standardization</b>
9.4	Info	<b>As a minimum, record temperature measurements at the following locations:</b>
9.4.1.1		Place the first bare wire thermocouple <del>6 54</del> ± 0.25 in. ( <del>152</del> <del>1372</del> ± 6 mm) <del>below</del> <u>above</u> the top of the <del>window opening</del> <u>test room floor</u> .
<b>The following changes reflect the E2307-15a changes</b>		
7	Info	<b>Test Specimen</b>



CLAUSE	VERDICT	COMMENT
7.4	Info	<b>Floor Assembly:</b>
		<i><b>New clause added;</b></i>
7.4.3		The top of the floor assembly shall be located at an elevation $\pm 0.5$ in. ( $\pm 13$ mm) relative to the elevation of the top of the observation room floor.
CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		