



BYBU.XR733 - FIRE-RESISTANCE RATINGS - ANSI/UL 1709

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BYBU - Fire-resistance Ratings - ANSI/UL 1709

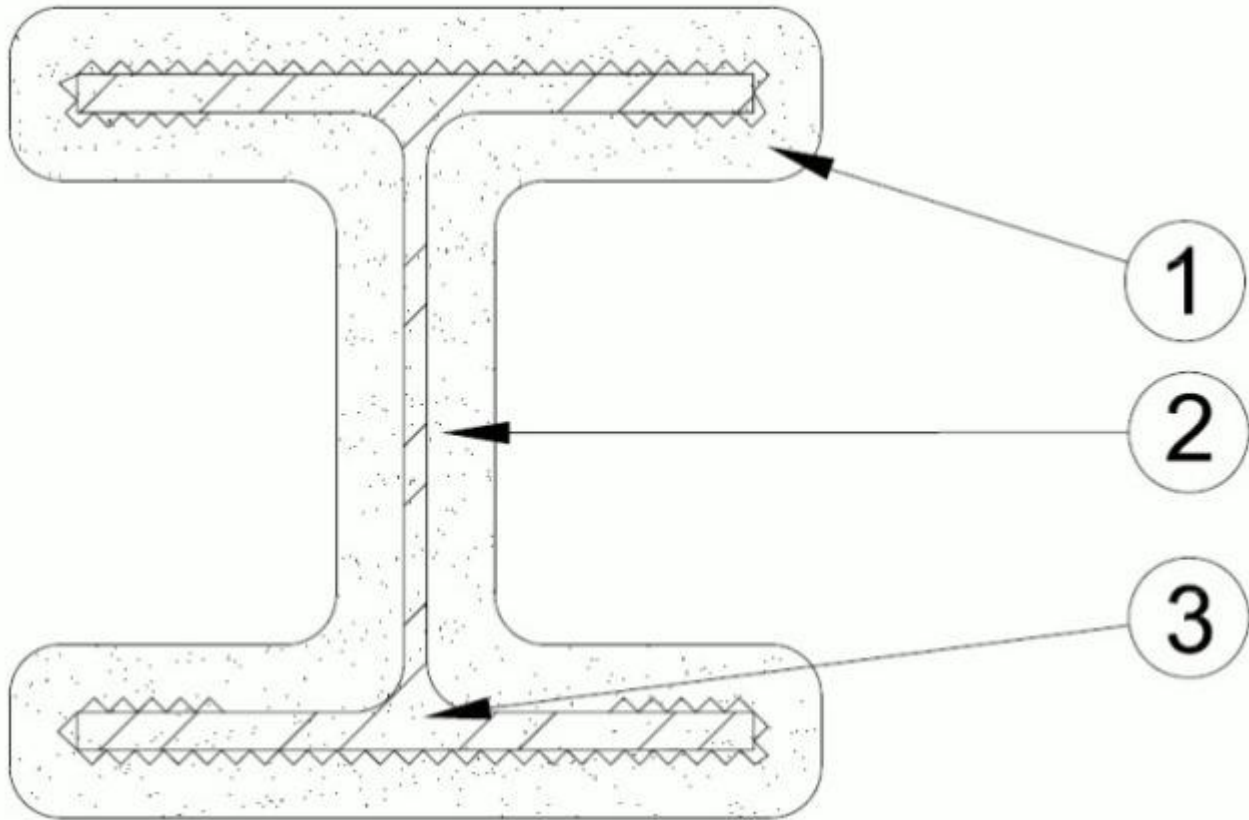
See General Information for Fire-resistance Ratings - ANSI/UL 1709

Design No. XR733

November 23, 2016

1, 1-1/2, 2, 3 & 4 Hr.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Spray-Applied Fire-Resistive Materials*** — See table below for appropriate thickness. Prepared by mixing with water according to instructions on each bag of mixture. Mixture can be spray or trowel applied in one or more coats to steel and mesh surfaces. Avg density of 40 pcf with min ind value of 37 pcf. For method of density determination, see Design Information Section, Sprayed Material. Surface of material may be lightly finished with a trowel.

Min Required Thickness (in) for Hourly Rating Period (min)

W/D	Hp/A	60	90	120	150	180	240
0.338	396	1 1/8	1 3/8	1 9/16	1 13/16	2	2 1/4
0.4	335	1 1/8	1 5/16	1 9/16	1 13/16	2	2 1/4
0.5	268	1 1/16	1 5/16	1 1/2	1 3/4	2	2 1/4
0.6	223	1 1/16	1 1/4	1 7/16	1 11/16	1 15/16	2 1/4
0.7	191	1	1 3/16	1 7/16	1 11/16	1 15/16	2 1/4
0.8	168	15/16	1 3/16	1 3/8	1 5/8	1 7/8	2 1/4
0.84	106	7/8	1 1/16	1 5/16	1 9/16	1 13/16	2 1/4
0.9	149	7/8	1 1/16	1 5/16	1 9/16	1 13/16	2 1/4
1	134	7/8	1 1/16	1 5/16	1 9/16	1 13/16	2 1/4
1.1	122	7/8	1 1/16	1 1/4	1 1/2	1 3/4	2 3/16
1.2	112	13/16	1	1 1/4	1 7/16	1 11/16	2 1/8
1.3	103	13/16	1	1 3/16	1 7/16	1 5/8	2 1/16
1.4	96	3/4	15/16	1 3/16	1 3/8	1 5/8	2 1/16
1.5	89	11/16	15/16	1 1/8	1 5/16	1 9/16	2
1.6	84	11/16	7/8	1 1/16	1 5/16	1 1/2	1 15/16

1.7	79	5/8	13/16	1 1/16	1 1/4	1 1/2	1 15/16
1.8	74	5/8	13/16	1	1 3/16	1 7/16	1 7/8
1.9	71	9/16	3/4	15/16	1 3/16	1 3/8	1 13/16
2	67	9/16	3/4	15/16	1 1/8	1 5/16	1 3/4
2.1	64	1/2	11/16	7/8	1 1/16	1 5/16	1 3/4
2.2	61	7/16	5/8	7/8	1 1/16	1 1/4	1 11/16
2.3	58	7/16	5/8	13/16	1	1 3/16	1 5/8
2.4	56	3/8	9/16	3/4	15/16	1 3/16	1 5/8
2.5	54	3/8	9/16	3/4	15/16	1 1/8	1 9/16
2.55	53	5/16	1/2	11/16	7/8	1 1/16	1 1/2

CARBOLINE CO — Type 40

CARBOLINE (INDIA) PVT LTD — Type 40

PERLITA Y VERMICULITA SLU — Types 40, 40T.

STONCOR MIDDLE EAST L L C — Type 40

STONCOR SOUTH CONE S A — Type 40

2. **Reinforcing Mesh or Metal Lath** — Galv expanded steel lath, weighing 3.4 lb per sq yd. Lath secured to column by bending tight around flanges a min of 1-1/2 in. toward web of column.

3. **Steel Column** — Min. size of column, Type W6x9.

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Last Updated on 2016-11-23

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