UL Product **iQ**™



BYBU.XR725 - 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

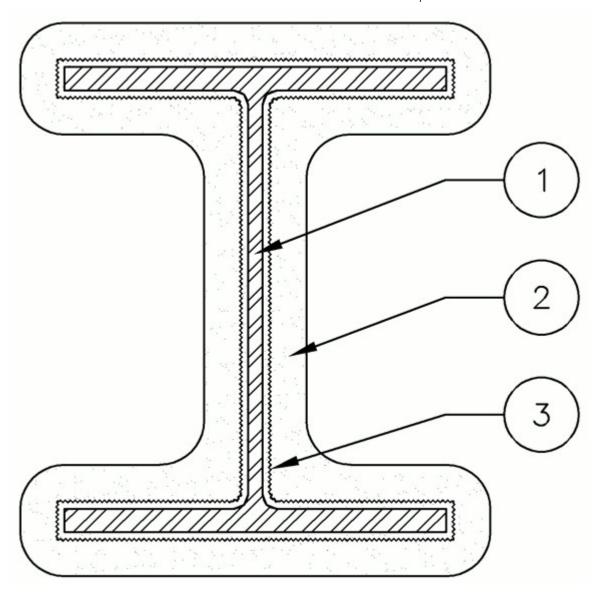
See General Information for Fire-resistance Ratings - ANSI/UL 1709

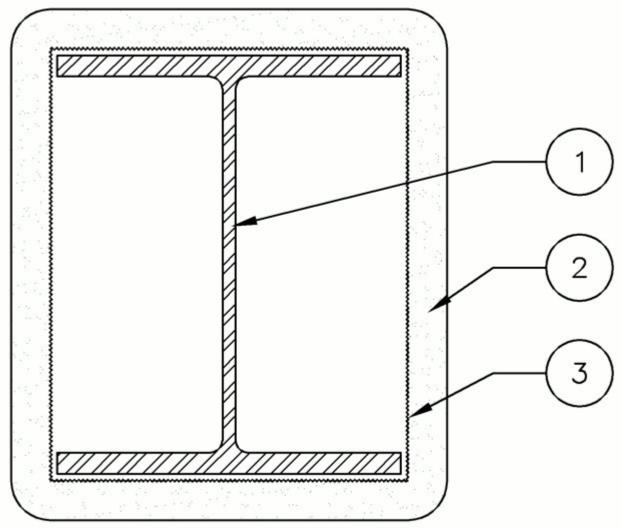
Design No. XR725

December 03, 2018

Ratings — 3/4, 1, 1-1/2, 2, 2-1/2, 3 or 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. **Steel Column** Min size of column W8x10.
- 2. **Spray-Applied Fire-Resistive Materials*** See table below for appropriate thickness. Prepared by mixing with water according to instructions on each bag of mixture and spraying in one or more coats, as necessary, onto the metal lath surfaces, which must be clean and free of dirt, loose scale and oil. As an alternate to spraying, may be machine mixed and trowel applied. Min avg density of 47 pcf (753 kg/m³), with min individual value of 43 pcf (689 kg/m³). For method of density determination, see Design Information Section, Sprayed Material.

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

W/D	45	60	90	120	150	180	240
0.33	5/8	3/4	15/16	1-1/8	1-1/4	1-7/16	1-13/16
0.43	5/8	3/4	15/16	1-1/8	1-1/4	1-7/16	1-13/16
0.57	5/8	3/4	15/16	1-1/8	1-1/4	1-7/16	1-13/16
0.68	1/2	9/16	3/4	15/16	1-1/8	1-5/16	1-11/16
0.75	1/2	9/16	3/4	7/8	1-1/16	1-3/16	1-1/2
0.84	1/2	9/16	3/4	7/8	1-1/16	1-1/8	1-7/16
0.90	1/2	9/16	3/4	7/8	1-1/16	1-1/8	1-7/16
1.00	7/16	9/16	3/4	7/8	1-1/16	1-1/8	1-7/16
1.10	3/8	9/16	3/4	7/8	1-1/16	1-1/8	1-7/16

1.20	5/16	1/2	3/4	7/8	1-1/16	1-1/8	1-7/16
1.30	5/16	1/2	3/4	7/8	1-1/16	1-1/8	1-7/16
1.40	1/4	7/16	3/4	7/8	1-1/16	1-1/8	1-7/16
1.50	1/4	3/8	11/16	7/8	1-1/16	1-1/8	1-7/16
1.60	1/4	3/8	5/8	7/8	1-1/16	1-1/8	1-7/16
1.63	1/4	3/8	5/8	3/4	15/16	1-1/16	1-3/8
1.70	1/4	5/16	5/8	3/4	15/16	1-1/16	1-3/8
1.80	1/4	5/16	9/16	3/4	15/16	1-1/16	1-3/8
1.90	1/4	5/16	1/2	3/4	15/16	1-1/16	1-3/8
2.00	1/4	1/4	1/2	11/16	15/16	1-1/16	1-3/8
2.10	1/4	1/4	7/16	11/16	7/8	1-1/16	1-3/8
2.20	1/4	1/4	7/16	5/8	13/16	1-1/16	1-3/8
2.30	1/4	1/4	7/16	5/8	13/16	1	1-3/8
2.40	1/4	1/4	3/8	9/16	3/4	15/16	1-5/16
2.50	1/4	1/4	3/8	9/16	3/4	7/8	1-1/4
2.55	1/4	1/4	3/8	9/16	11/16	7/8	1-1/4

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

HP/A	45	60	90	120	150	180	240
406	16	20	24	29	32	37	47
312	16	20	24	29	32	37	47
235	16	20	24	29	32	37	47
197	13	15	20	24	29	34	43
179	13	15	20	23	27	31	39
160	13	15	20	23	27	29	37
149	13	15	20	23	27	29	37
134	12	15	20	23	27	29	37
122	10	15	20	23	27	29	37
112	8	13	20	23	27	29	37
103	8	13	20	23	27	29	37
96	7	12	20	23	27	29	37
89	7	10	18	23	27	29	37

84	7	10	16	23	27	29	37
82	7	10	16	20	24	27	35
79	7	8	16	20	24	27	35
74	7	8	15	20	24	27	35
71	7	8	13	20	24	27	35
67	7	7	13	18	24	27	35
64	7	7	12	18	23	27	35
61	7	7	12	16	21	27	35
58	7	7	12	16	21	26	35
56	7	7	10	15	20	24	34
54	7	7	10	15	20	23	32
53	7	7	10	15	18	23	32

ISOLATEK INTERNATIONAL — Type M-II/P investigated for Exterior Use, and additionally evaluated for acid and solvent spray exposure.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C— Type M-II/P investigated for Exterior Use, and additionally evaluated for acid and solvent spray exposure.

NEWKEM PRODUCTS CORP — Type M-II/P investigated for Exterior Use, and additionally evaluated for acid and solvent spray exposure.

PERLITE ITALIANA SRL — Type M-II/P investigated for Exterior Use, and additionally evaluated for acid and solvent spray exposure.

- 3. **Metal Lath** For boxed and contour protection, min 3.4 lb. per sq. yd. expanded steel lath lapped 2 in. at joints and attached to column with power actuated fasteners and washers, spaced 18" OC at overlap.
- 4. **Corner Bead** (Optional, Not Shown) No. 25 MSG galv expanded steel corner bead with minimum 2 in. legs may be used in conjunction with column cage. When used, placed over each corner of column cage and attached to column with powder actuated fasteners and washers or attached to metal lath with tie wire spaced 18 in. O.C.
 - * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2018-12-03

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2019 UL LLC"