



**Design No. XR639**  
**BYBU.XR639**  
**Fire-resistance Ratings - ANSI/UL 1709**

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**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.
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**BYBU - Fire-resistance Ratings - ANSI/UL 1709**

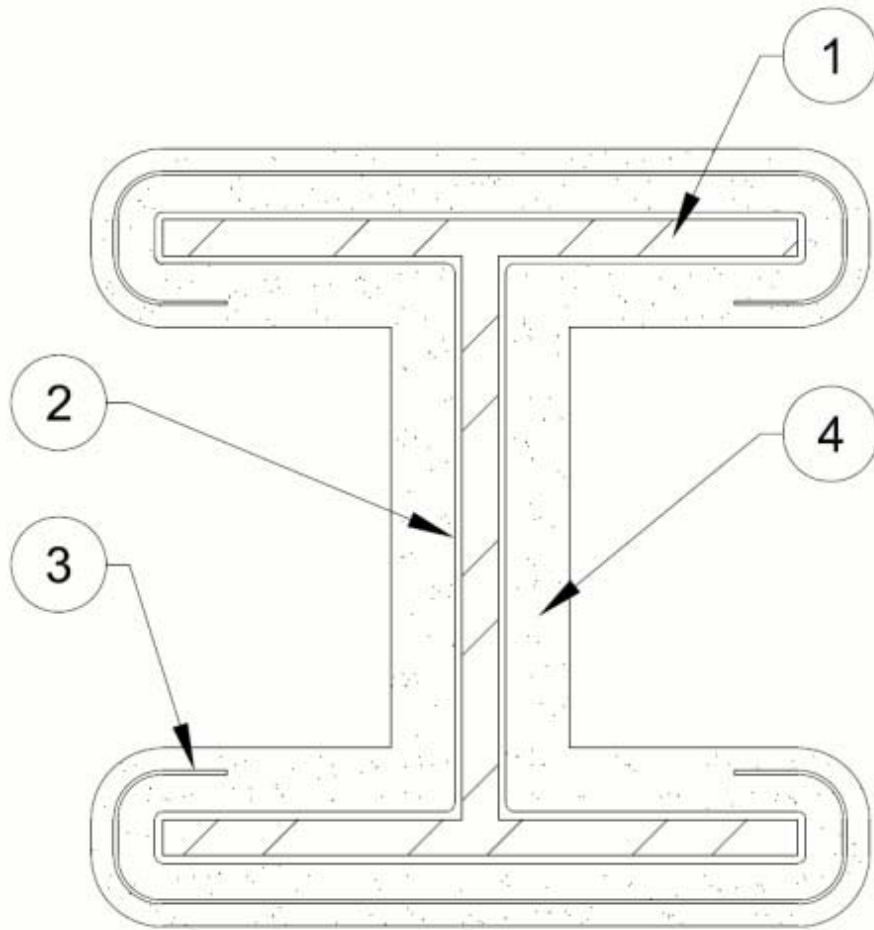
[See General Information for Fire-resistance Ratings - ANSI/UL 1709](#)

**Design No. XR639**

March 16, 2015

**Rating — 3 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** — Minimum size W10×49.
2. **Primer** — Polyamide Epoxy primer applied at 3 mil dry thickness.
3. **Reinforcing Mesh** — 4.2 oz./sq yd woven carbon fiber fabric, designated High Temp Mesh, wrapped around column flanges. Secured by embedding mesh at a depth of approximate 1/3 total thickness (from the exterior surface of coating). Mesh wrapped tightly around flanges a minimum of 1-1/2-in. toward the web of the column.
4. **Mastic and Intumescent Coating\*** — Two component spray material applied in one or more coats as described in the application instructions. See table below for appropriate thickness including primer.

Rating Hr	Min Thkns In.
3	0.882

**CARBOLINE CO** — Pyroclad X1

For product **Alternate Limiting Temperature Table** click here: [ULFE.R11193](#)

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