

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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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

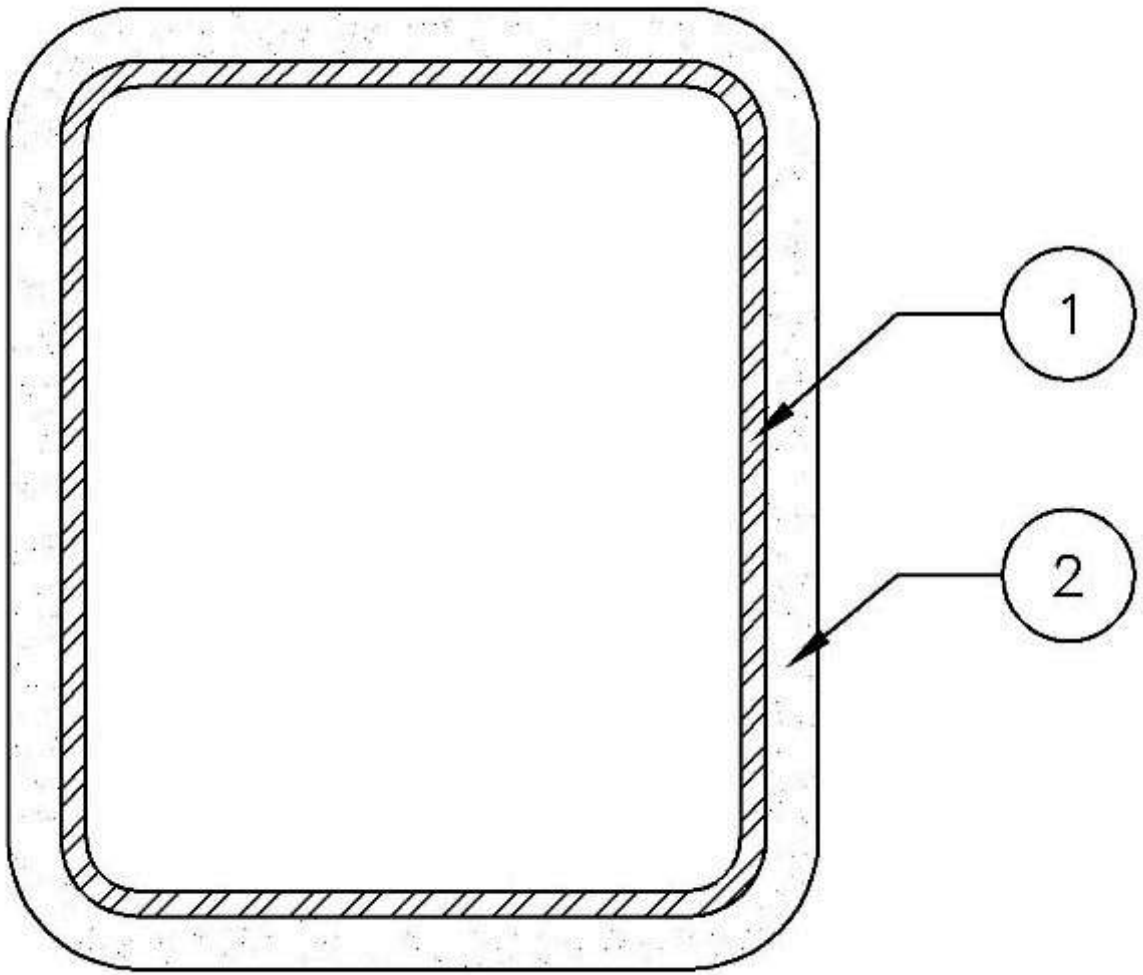
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

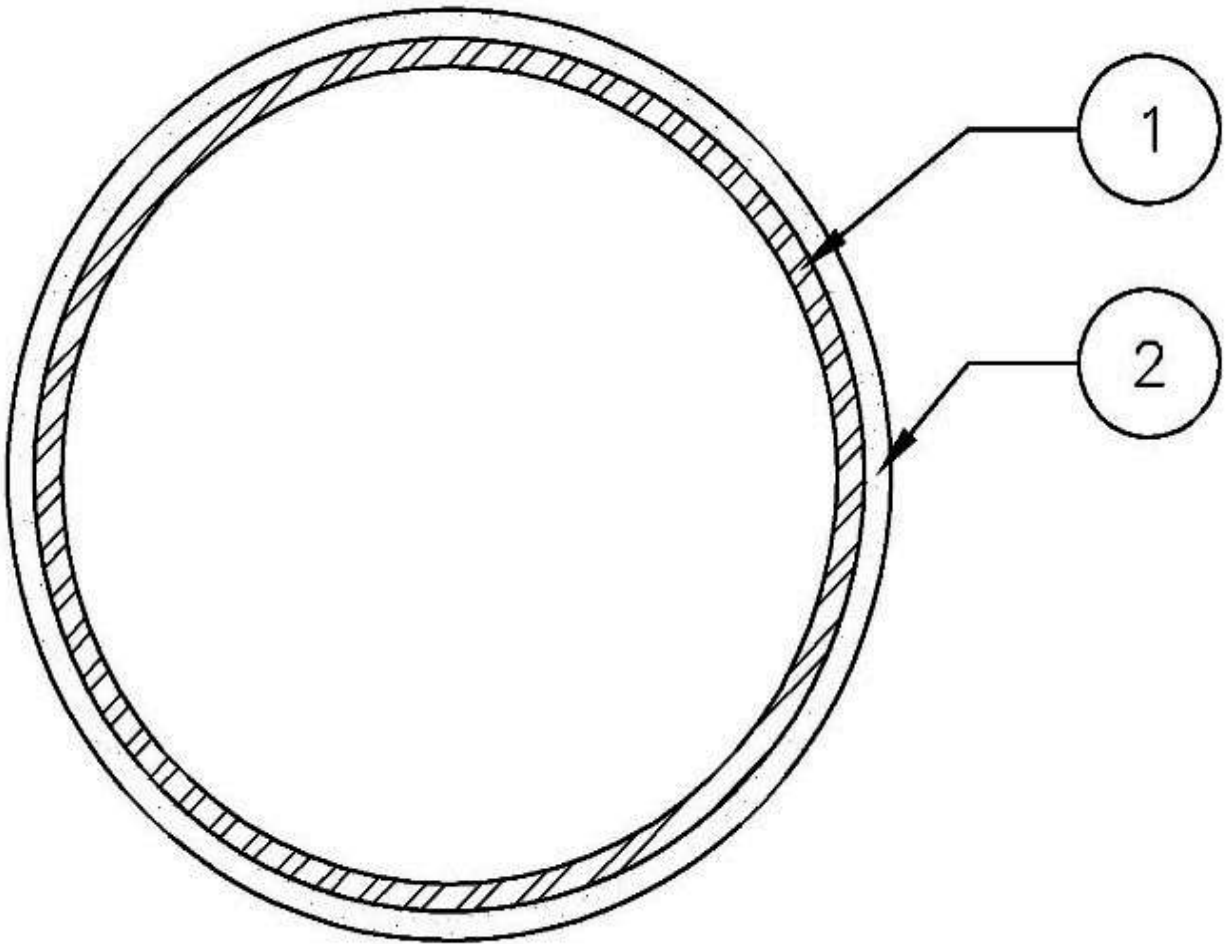
[See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances](#)

[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances](#)

Design No. **Y670**

December 3, 2024





Ratings – 3/4, 1, 1-1/2, and 2 Hr. (See Item 2)

* 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** — Steel tube (ST) or steel pipe (SP) with the minimum sizes shown in the table below. Columns shall be free of dirt, loose scale and oil. Columns shall be primed with a metal alkyd primer at a nominal thickness of 1.4 mils.

2. **Intumescent Fire-resistive Materials*** — Coating spray or brush applied directly from containers to desired thickness. See table below for appropriate minimum final dry thickness (including primer) and applicable rating.

Min Required Thickness (inches) for Hourly Rating Period (min)					
A/P	Hp/A	45	60	90	120
0.22	169	0.100	0.133	0.224	0.314
0.27	139	0.088	0.116	0.203	0.290
0.33	113	0.072	0.094	0.178	0.261
0.38	98	0.059	0.075	0.156	0.237
0.42	89	0.049	0.061	0.140	0.218

0.44	85	0.043	0.054	0.131	0.209
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The following table lists the thicknesses in metric units.

Min Required Thickness (mm) for Hourly Rating Period (min)					
A/P	Hp/A	45	60	90	120
0.22	169	2.55	3.39	5.68	7.97
0.27	139	2.23	2.94	5.16	7.38
0.33	113	1.83	2.38	4.51	6.64
0.38	98	1.50	1.92	3.97	6.03
0.42	89	1.23	1.55	3.54	5.54
0.44	85	1.1	1.36	3.33	5.30

ISOLATEK INTERNATIONAL — Type FIRESOLVE SB, Investigated for Interior Conditioned Space. Investigated for Interior General Purpose with one of the topcoats as described in Item 3.

3. **Topcoat** — (Not Shown) — Types Macropoxy 646, TNEMEC 1095, Acrolon 100 HS, or Sher-Cryl HPA required for Interior General Purpose with Type FIRESOLVE SB, applied at a minimum dry thickness of 6.1 mils over the intumescent material.

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Last Updated on 2024-12-03

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