



Technical Release T-2011-3

TO: CAFCO® SALES TEAM and LICENSED APPLICATORS
FROM: Phil Mancuso
DATE: July 8, 2011
SUBJECT: ***New!* CAFCO® SprayFilm® WB 5™ Floor Beam Test**

We are pleased to announce that CAFCO SprayFilm WB 5 Intumescent Coating has successfully passed the Underwriters Laboratories (UL) beam test for 1 and 2 hour ratings. These thicknesses can be located within UL Design N634 (attached).

Our continued commitment to industry leading thermal performance with SprayFilm WB 5 continues with reduced thicknesses to go along with the unsurpassed hang ability and coverage of SprayFilm WB 5.

Stay tuned for more announcements regarding SprayFilm WB 5 in the near future. Our commitment to fireproofing research and development technology in developing our own products provides you, our customers, unsurpassed advantages!

Should you have any questions, please contact the Technical Department at 1-800-631-9600 (option 1).

Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

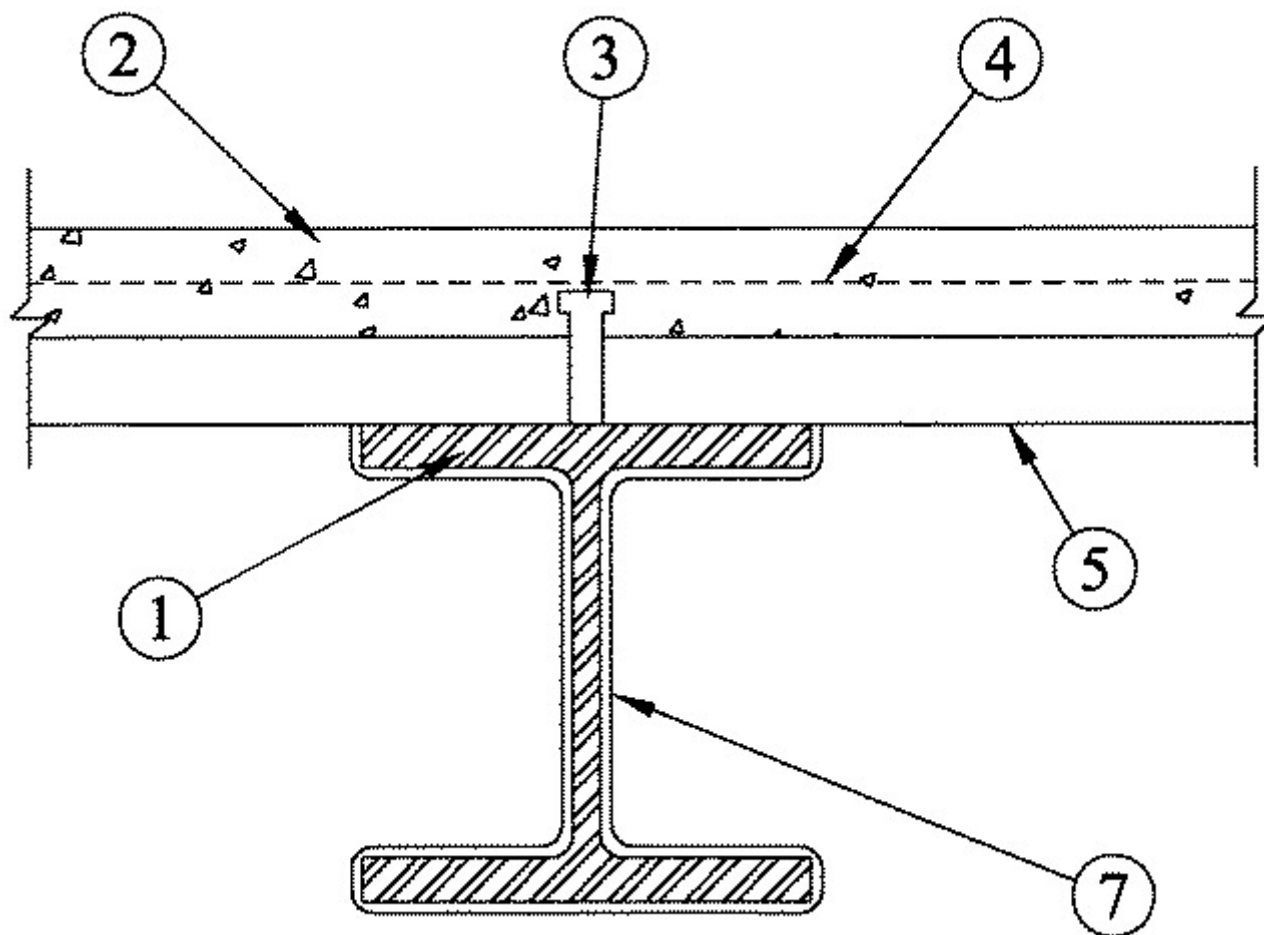
Design No. N634

July 08, 2011

Restrained Beam Ratings - 1, 1-1/2, and 2 Hr. (See Item 7)

Unrestrained Beam Ratings - 1, 1-1/2 and 2 Hr. (See Item 7)

Load Restricted for Canadian Applications — See Guide [BXUV7](#)



1. **Steel Beam** — W8x24. Beams shall be free of dirt, loose scale and oil. Beams shall be primed with a metal alkyd primer at a nominal thickness of 2 mil.
2. **Normal Weight Concrete** — Compressive strength min. 3000 psi. Either carbonate or siliceous aggregate may be used. Unit weight min. 135 lbs/cu ft. Min concrete thickness, as measured from top plane of steel floor and form units is 2-1/2 in.
3. **Shear Connector** — (Optional) — Studs, 3/4 in. diam headed type or equivalent per AISC specifications welded to the top flange of beam through the steel floor units.
4. **Welded Wire Fabric** — 6x6-10/10 SWG.
5. **Steel Floor or Form Units** — 1-1/2, 2 or 3 in. deep fluted units, welded to beam.
6. **Mineral Wool Insulation** — (Not Shown) - Min 4 pcf mineral wool insulation cut into pieces and firmly packed into, and completely filling the spaces between the flutes of the steel floor and form units and the top flange of the beam. Mineral wool is not required when the top flange of the beam is protected with intumescent coating at the same thickness shown in the table in Item 7.
7. **Mastic and Intumescent Coatings*** — Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. When mineral wool (Item 6) is used, the top surface of the beam need not be protected with coating.

Beam Size	Beam W/D	Unrestrained Beam Rating, Hr.	Minimum Dry Thickness	
			mils	mm
W8x24	0.70	1	35	0.88
W8x24	0.70	1-1/2	59	1.48
W8x24	0.70	2	98	2.47
Beam Size	Beam W/D	Restrained Beam Rating, Hr.	Minimum Dry Thickness	
			mils	mm
W8x24	0.70	1	35	0.88
W8x24	0.70	1-1/2	35	0.88
W8x24	0.70	2	69	1.74

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 5 and Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose.

*Bearing the UL Classification Mark