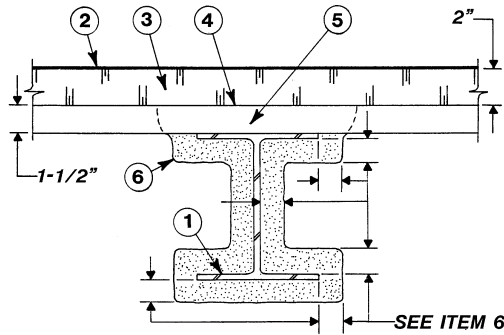


**Design No. S723**

Restrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.  
 Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.  
 Load Restricted for Canadian Applications — See Guide BXUV7



1. **Steel Beam** — W8 x 28 min size.
2. **Roof Covering\*** — Consisting of hot mopped, cold application or single-ply materials, compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).
3. **Mineral and Fiber Boards\*** — 24 by 48 in. boards applied in single or multiple layers. Boards secured to steel roof deck units and previous layer of insulation, if multiple layers are used, with adhesive.
4. **Adhesive\*** — Applied to steel roof deck units in 1/2 in. wide ribbons approx 6 in. OC at 0.4 gal/100 sq ft. See Adhesives (BYWR) category for names of manufacturers.
5. **Steel Roof Deck** — (Unclassified) — Fluted, 24 MSG. galv, 1-1/2 in. deep with 3-1/2 in. wide flutes spaced 6 in. OC and 30 in. overall width. Ends overlapped at supports a min 1-1/2 in. and welded to supports, max 12 in. OC. Adjacent units button-punched or welded together at midspan along side joints.
6. **Spray-Applied Fire Resistive Materials\*** — Applied by mixing with water and spraying in more than one coat to the beam to the final thickness shown below. Crest areas above the beam shall be filled with Spray-Applied Fire Resistive Materials. All surfaces must be clean and free of dirt, loose scale and oil. The min avg and min ind density is 44/40 pcf respectively. For method of density determination, see Design Information Section.

Restrained & Unrestrained  
 Beam Rating Hr

Min Thkns In.

1	1
1-1/2	1-5/16
2	1-5/8
3	2-5/16

ISOLATEK INTERNATIONAL —Type M-II.  
 NEWKEM PRODUCTS CORP —Type M-II.  
 LUCKY CORE INSULATING MATERIALS  
 MANUFACTURING L L C —Type M-II.

- 6A. **Spray-Applied Fire Resistive Materials\*** — Applied by mixing with water. Trowel applied in more than one coat to the beam to the final thickness shown below. Crest areas above the beam shall be filled with Spray-Applied Fire Resistive Materials. All surfaces must be clean and free of dirt, loose scale and oil. The min avg and min ind density is 44/42 pcf respectively. For method of density determination, see Design Information Section.

Rating Hr

Min Thkns In.

1	1
1-1/2	1-5/16
2	1-5/8
3	2-5/16

ISOLATEK INTERNATIONAL —Type TG.  
 NEWKEM PRODUCTS CORP —Type TG.  
 LUCKY CORE INSULATING MATERIALS  
 MANUFACTURING L L C —Type TG.

\*Bearing the UL Classification Mark