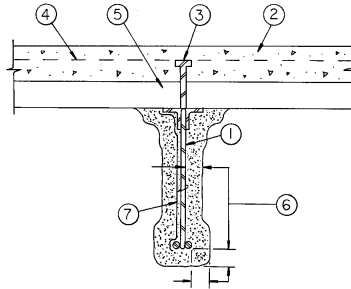


Design No. N760

Restrained Beam Rating — 1, 1-1/2, 2 and 3 Hr (See Item 6)
Unrestrained Beam Rating — 1, 1-1/2, 2 and 3 Hr (See Item 6)
Load Restricted for Canadian Applications — See Guide BXUV7



1. **Steel Joists** — Composite or noncomposite min 12k5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chords shall consist of two round bars measuring 0.675 in. in diam. Bearing plates shall consist of two angles measuring 2 by 2 by 0.192 in. thick and shall be min 4-15/16 in. long. The second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when noncomposite joists are used.
2. **Normal Weight or Lightweight Concrete** — 2-1/2 in. thick, min compressive strength of 3000 psi. For normal weight concrete, either carbonate or siliceous aggregate may be used. Unit weight, 145 +/- 3 pcf. For lightweight concrete, unit weight may range from 104 to 120 pcf.
3. **Shear Connector** — (Optional) — Studs, min 1/2 in. diam headed type or equivalent per A.I.S.C. specifications. Welded to the top flange of joists through the steel floor units. Stud Welding, as recommended by the stud manufacturer, should be followed.
4. **Welded Wire Fabric** — Min 6x6-W1.4xW1.4.
5. **Steel Floor and Form Units** — 1-1/2 to 3 in. deep corrugated, fluted or cellular units welded to joists. Max usage of cellular units shall consist of a 1:1 blend with fluted units.
6. **Spray-Applied Fire Resistive Materials*** — Prepared by mixing with water. Spray or trowel applied in one or more coats to joist surfaces to a min final thickness as shown in the table below. Joist surfaces must be clean and free of dirt, loose scale and oil. Crest areas of deck above the joist shall be filled with Spray-Applied Fire Resistive Materials. When metal lath (Item 7) is used on joist, Spray-Applied Fire Resistive Materials is to be applied over lath with no min thickness requirement. Min avg density of 38 pcf with min ind density of 35 pcf for Type 800. Min avg density of 44 pcf with min ind value of 40 pcf for Type M-II. Min avg density of 44 pcf with min ind value of 42 pcf for Type TG. For method of density determination, see Design Information Section, Sprayed Material.

Restrained & Unrestrained Beam Rating Hr	Min Thkns In.
1	1-3/8
1-1/2	1-11/16
2	2-1/16
3	3-1/4

Restrained & Unrestrained Beam Rating Hr	Min Thkns In.
1	1-3/8
1-1/2	1-11/16
2	2-1/16
3	3-1/4

ISOLATEK INTERNATIONAL — Types 800, M-II or TG. Types 800, M-II and TG investigated for exterior use.

NEWKEM PRODUCTS CORP —Types M-II or TG. Types M-II and TG investigated for exterior use.

LUCKY CORE INSULATING MATERIALS

MANUFACTURING L L C —Types M-II or TG. Types M-II and TG investigated for exterior use.

7. **Metal Lath** — (Optional) — 3/8 in. diamond mesh, expanded steel weighing 3.4 lb per sq yd secured to one side of truss using No. 16 SWG steel tie wire located at the mid-height of every other web. Both sides of lath must be completely coated with Spray-Applied Fire Resistive Materials.
- 7A. **Glass Fiber Mesh** — (Optional) — As an alternate to metal lath (Item 7). Min 3/32 in. sq mesh, coated fiberglass scrim fabric, weighing a min of 1.9 oz per sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz per sq yd or equivalent may be used to facilitate spray application. The mesh shall be attached to one side of each joist web member. The method of attachment must be sufficient to hold the mesh and fire protection material during application and curing of the material. Suitable methods of attachment include hairpins, 18 SWG galv steel tie wire or hot melted glue. Hairpin clips are nom 1-1/4 in. long by 1/2 in. wide made of 0.064 in. diam steel wire. Hairpin clips or tie wire located near top and bottom and at intermediate points along each web member to firmly secure the fabric to the joist.

*Bearing the UL Classification Mark