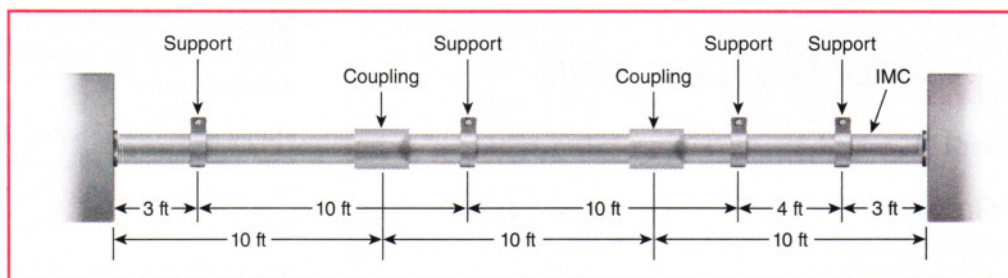


**EXHIBIT 342.1** Minimum IMC fastening requirements.

support members do not permit fastening within 3 feet, the support may be located up to 5 feet away. In addition, IMC is required to be supported at least every 10 feet unless permitted otherwise by 342.30(B).

**Δ (B) Supports.** IMC shall be supported in accordance with one of the following:

- (1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).
- (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B), provided the conduit is made up with threaded couplings and supports that prevent transmission of stresses to termination where conduit is deflected between supports.
- (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft) if the conduit is made up with threaded couplings, the conduit is supported and securely fastened at the top and bottom of the riser, and no other means of intermediate support is readily available.
- (4) Horizontal runs of IMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted.

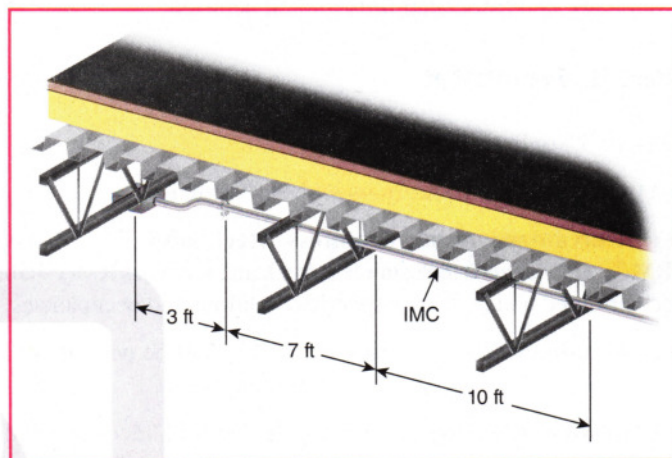
Lengths of IMC are permitted to be supported (but not necessarily secured) by framing members at 10-foot intervals, provided the IMC is secured and supported at least 3 feet from the box or enclosure. Exhibit 342.2 illustrates an installation where the IMC is installed through the bar joists.

#### 342.42 Couplings and Connectors.

**(A) Threadless.** Threadless couplings and connectors used with conduit shall be made tight. Where buried in masonry or concrete, they shall be the concretetight type. Where installed in wet locations, they shall comply with 314.15. Threadless couplings and connectors shall not be used on threaded conduit ends unless listed for the purpose.

**(B) Running Threads.** Running threads shall not be used on conduit for connection at couplings.

**342.46 Bushings.** Where a conduit enters a box, fitting, or other enclosure, a bushing shall be provided to protect the wires

**EXHIBIT 342.2** An example of IMC supported by framing members and securely fastened 3 feet from the box.

from abrasion unless the box, fitting, or enclosure is designed to provide such protection.

Informational Note: See 300.4(G) for the protection of conductors 4 AWG and larger at bushings.

**342.56 Splices and Taps.** Splices and taps shall be made in accordance with 300.15.

**342.60 Grounding.** IMC shall be permitted as an equipment grounding conductor.

### Part III. Construction Specifications

**342.100 Construction.** IMC shall be made of one of the following:

- (1) Steel, with protective coatings
- (2) Stainless steel

**342.120 Marking.** Each length shall be clearly and durably marked at least every 1.5 m (5 ft) with the letters IMC. Each length shall be marked as required in the first sentence of 110.21(A).