



Article 352

Rigid Nonmetallic Conduit (RNC)

Part I. General

352.1 Scope

This article covers the use, installation, and construction specifications of rigid nonmetallic conduit (RNC) and associated fittings.

352.2 Definition

RNC is a listed nonmetallic raceway of circular cross section with integral or associated couplings, approved for the installation of electrical conductors.

Part II. Installation

352.10 Uses Permitted

FPN: In extreme cold, RNC can become brittle and is susceptible to physical damage.

- (A) **Concealed.** RNC can be concealed within walls, floors, or ceilings, directly buried or embedded in concrete in buildings of any height.
- (B) **Corrosive Influences.** RNC can be installed in areas subject to severe corrosive influences as covered in 300.6 for which the material is specifically approved.
- (D) **Wet Locations.** RNC can be installed in wet locations such as dairies, laundries, canneries, car washes, and other areas that are frequently washed or outdoors. Supporting fittings such as straps, screws, and bolts shall be made of corrosion-resistant materials, or shall be protected with a corrosion-resistant coating [300.6].
- (E) **Dry and Damp Locations.** RNC can be installed in dry and damp locations, except where limited in 352.12.
- (F) **Exposed.** Schedule 40 RNC is approved for exposed locations where not subject to physical damage [352.12(C)]. In areas exposed to physical damage, Schedule 80 RNC, IMC, or RMC shall be used.
- (G) **Underground.** RNC installed underground shall comply with the burial requirements of 300.5.
- (H) **Support of Conduit Bodies.** Rigid nonmetallic conduit shall be permitted to support nonmetallic conduit bodies not

larger than the largest trade size of an entering raceway. The conduit bodies shall not contain devices or support luminaires (fixtures) or other equipment.

352.12 Uses Not Permitted

- (A) **Hazardous (Classified) Locations.** RNC shall not be installed in hazardous (classified) locations, except as permitted by 501.4(A)(1)(a) Ex. 1, 503.3(A), 514.8 Ex. 2, or 515.5. Figure 352-1
 - (B) **Support of Luminaires.** RNC shall not be used for the support of luminaires or other equipment not described in 352.10(H).
- AUTHOR'S COMMENT: RNC can be used to support conduit bodies. See 314.23(E) Ex.
- (C) **Physical Damage.** Schedule 40 RNC shall not be installed where subject to physical damage, but heavier and thicker Schedule 80 RNC can be subject to physical damage. See 300.5(D).
 - (D) **Ambient Temperature.** RNC shall not be installed where the ambient temperature is in excess of 50°C/122°F.

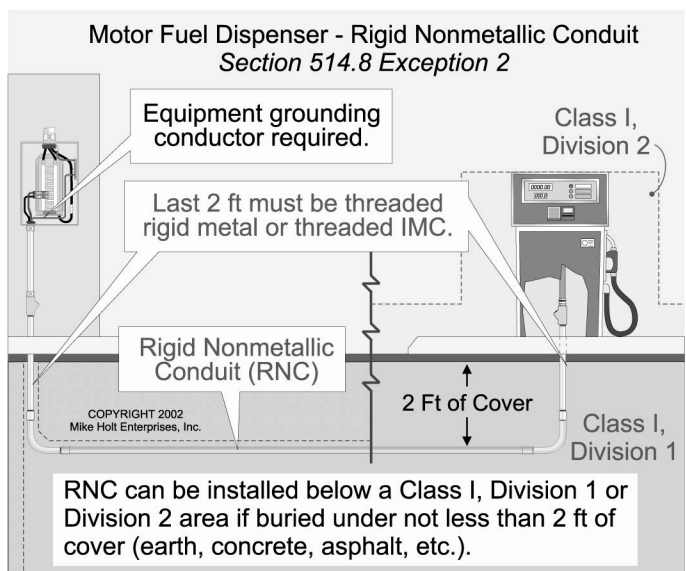


Figure 352-1