

EXHIBIT 300.2 Nonmetallic-sheathed cables adjacent to furring strips in a wood frame structure.

the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm ($\frac{1}{16}$ in.) thick.

Exception No. 1: Steel plates, sleeves, or the equivalent shall not be required to protect rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit, or electrical metallic tubing.

Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.

Exception No. 3: A listed and marked steel plate less than 1.6 mm ($\frac{1}{16}$ in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.

To prevent mechanical damage to cables and raceways from nails and screws, the raceways need the same level of physical protection at furring strips as they do at framing members. Two means of protection that generally apply to exposed or concealed work are described. The first method, shown in Exhibit 300.2, is to position the nonmetallic-sheathed cables a clear distance from the nearest edge of the furring strip. Exhibit 300.3 illustrates the NM cable installed parallel to framing members and fastened to maintain clearance from the edge. The second method requires physical protection, such as a steel plate or a sleeve, if the $1\frac{1}{4}$ -inch clearance cannot be maintained. (A steel plate is illustrated in Exhibit 300.1.)

Δ (E) Cables, Raceways, or Boxes Installed in or Under Metal-Corrugated Roof Decking. A cable, raceway, or box, installed in exposed or concealed locations under metal-corrugated sheet roof decking, shall be installed and supported so there is not less

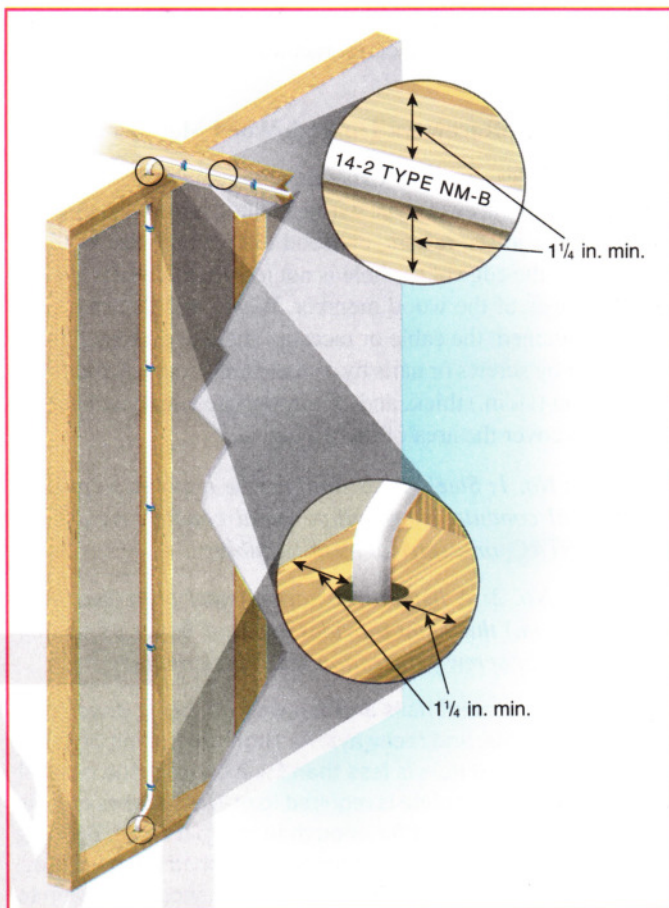


EXHIBIT 300.3 Nonmetallic-sheathed cable installed parallel to framing members.

than 38 mm ($1\frac{1}{2}$ in.) measured from the lowest surface of the roof decking to the top of the cable, raceway, or box. A cable, raceway, or box shall not be installed in concealed locations in metal-corrugated, sheet decking-type roof.

Informational Note: Roof decking material is often repaired or replaced after the initial raceway or cabling and roofing installation and might be penetrated by screws or other mechanical devices designed to provide “hold down” strength of the waterproof membrane or roof insulating material.

Exception No. 1: Rigid metal conduit and intermediate metal conduit, with listed steel or malleable iron fittings and boxes, shall not be required to comply with 300.4(E).

Exception No. 2: The 38 mm ($1\frac{1}{2}$ in.) spacing is not required where metal-corrugated sheet roof decking is covered with a minimum thickness 50 mm (2 in.) concrete slab, measured from the top of the corrugated roofing.

For cables, raceways, and boxes installed below a metal-corrugated sheet roof decking installation, 300.4(E) requires at least $1\frac{1}{2}$ inches of separation from any of the roof decking surface, as illustrated in Exhibit 300.4. The $1\frac{1}{2}$ -inch dimension is measured from the lowest point of the roof deck to the top surface of the