

## **PART 1 - GENERAL**

### **1.1 RELATED SECTIONS**

- .1 Section 26 05 00 - Common Work Results - Electrical.

## **PART 2 - PRODUCTS**

### **2.1 SUPPORT CHANNELS**

- .1 "U" shape, size 41 x 41 mm, 2.5 mm thick, surface mounted, suspended or set in poured concrete walls and ceilings.
- .2 Supports of equipments must be in galvanised steel.
- .3 Supply all the supports for all equipments in order to have a complete installation. For example, the supports for junction boxes, receptacles, conduits etc., are not shown in drawings but they must be supplied and installed. Supply and install support channels in galvanised steel on vertical between the wall and the panel for all new panel installed on the wall. For precast supports, follow the installation recommendations from the manufacturer.
- .4 Fixation fasteners must be metallic. Plastic fasteners are not permitted.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- .1 Secure equipment to masonry, tile and plaster surfaces with lead anchors.
  - .2 Secure equipment to poured concrete with expandable anchors.
  - .3 Secure equipment to hollow masonry walls or suspended ceilings with toggle bolts.
  - .4 Support equipment, conduit or cables using clips, spring loaded bolts, cable clamps designed as accessories to basic channel members.
  - .5 Fasten exposed conduit or cables to building construction or support system using straps.
    - .1 One-hole galvanized steel clamps to secure surface conduits and cables 53 mm and smaller.
    - .2 Two-hole galvanized steel clamps for conduits and cables larger than 53 mm.
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- .3 Beam clamps to secure conduit to exposed steel work.
- .6 Suspended support systems:
  - .1 Support individual cable or conduit runs with 6 mm diameter threaded rods and spring clips.
  - .2 Support two or more cables or conduits on channels supported by 6 mm diameter threaded rod hangers where direct fastening to building construction is impractical.
- .7 For surface mounting of two or more conduits use channels at 1.5 m on centre spacing.
- .8 Provide metal brackets, frames, hangers, clamps and related types of support structures where indicated or as required to support conduit and cable runs.
- .9 Ensure adequate support for raceways and cables dropped vertically to equipment where there is no wall support.
- .10 Do not use wire lashing or perforated strap to support or secure raceways or cables.
- .11 Do not use supports or equipment installed for other trades for conduit or cable support, unless it has obtained permission from the latter and the approval of the Departmental Representative.
- .12 Install fastenings and supports as required for each type of equipment cables and conduits, and in accordance with manufacturer's installation recommendations.

**END OF SECTION**

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