

PART 1 - GENERAL

- 1.1 REFERENCES .1 Canadian Standards Association (CSA International)
.1 CSA C22.2 No. 56, Flexible Metal Conduit and Liquid-Tight Flexible Metal Conduit.
.2 CSA C22.2 No. 83, Electrical Metallic Tubing.

PART 2 - PRODUCTS

- 2.1 CONDUITS .1 Electrical metallic tubing (EMT): to CSA C22.2 No. 83, with couplings.
.2 Flexible metal conduit: to CSA C22.2 No. 56, steel, liquid tight.
- 2.2 CONDUIT FASTENINGS .1 One hole steel straps to secure surface conduits 53 mm and smaller.
.1 Two hole steel straps for conduits larger than 53 mm.
.2 Beam clamps to secure conduits to exposed steel work.
.3 Channel type supports for two or more conduits at 1.8 m on centre.
.4 Threaded rods, 6 mm diameter, to support suspended channels.
- 2.3 CONDUIT FITTINGS .1 Fittings: to CAN/CSA C22.2 No. 18, manufactured for use with conduit specified. Coating: same as conduit.
.2 Ensure factory "ells" where 90 degrees bends for 27 mm and larger conduits.
.3 Steel couplings for EMT. Set-screws type.
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2.3 CONDUIT FITTINGS (Cont'd) .4 Liquid tight fittings for flexible conduits exposed to weather and damp locations.

2.4 FISH CORD .1 Polypropylene.

PART 3 - EXECUTION

3.1 INSTALLATION .1 Install conduits to conserve headroom in exposed locations and cause minimum interference in spaces through which they pass.

.2 Surface mount conduits except in finished areas.

.3 Use electrical metallic tubing (EMT) except as otherwise indicated.

.4 Use flexible metal conduit for connection to motors in dry areas.

.5 Use liquid tight flexible metal conduit for connection to motors or vibrating equipment in damp, wet or corrosive locations, and as otherwise indicated. Use for power and controls to exterior condensing unit.

.6 Minimum conduit size: 21 mm.

.7 Bend conduit cold:
.1 Replace conduit if kinked or flattened more than 1/10th of its original diameter.

.8 Mechanically bend steel conduit over 21 mm diameter.

.9 Install fish cord in empty conduits.

.10 Remove and replace blocked conduit sections.
.1 Do not use liquids to clean out conduits.

3.1 INSTALLATION .11 Dry conduits out before installing wire.
(Cont'd)

3.2 SURFACE
CONDUITS

- .1 Run parallel or perpendicular to building lines.
- .2 Run conduits in flanged portion of structural steel.
- .3 Group conduits wherever possible on suspended or surface channels.
- .4 Do not pass conduits through structural members except as indicated.
- .5 Do not locate conduits less than 75 mm parallel to steam or hot water lines with minimum of 25 mm at crossovers.

3.3 CONCEALED
CONDUITS

- .1 Run parallel or perpendicular to building lines.
- .2 Do not install horizontal runs in masonry walls.
- .3 Do not install conduits in terrazzo or concrete toppings.