

UNIVERSITY OF NEW HAMPSHIRE
CONSTRUCTION AND RENOVATION STANDARDS

SECTION 16111 - CONDUIT

PART 1 – GENERAL

- 1.01 All wiring shall be installed in concealed conduit. Minimum conduit size shall be 3/4". The type and material shall be suitable for the intended application.
- a. Surface or exposed conduit is acceptable in mechanical rooms, telephone closets and similar applications. Other exceptions may be allowed only where approved by the Owner.
 - b. Flexible Metal Conduit 3/4" minimum trade may be used in concealed locations.
 1. Flexible Metal Conduit shall be full wall galvanized steel.
 2. All full wall galvanized steel flexible metal conduit systems shall use listed steel fitting.
Exceptions;
Flexible metal conduit of 3/8" electrical trade size can be used but only for recessed light fixtures--length not to be in excess of 6'-0".
Flexible metal conduit of 1/2" electrical trade size can be used for recessed light fixtures length not to be in excess of 6'-0", or drops down the inside of a wall to a single device such as one switch or one receptacle. (any applications that require more than one device will require 3/4" minimum trade size FMC) as indicated above.
 - c. Use of MC type cable is generally not permitted. Exceptions will be considered by the Owner only where the cable will be fully accessible. (See Section 16123, 8.)
- 1.02 All EMT conduit systems shall use steel fittings with set screws. 1/2" through 1" fittings shall have a single set screw; 1-1/4" through 4" shall have two set screws in line on each side of the fitting. (Exception): EMT used in damp or wet locations shall use compression type fittings.
- 1.03 All conduit/raceway that are surface mounted in finished areas shall be painted to match the existing surfaces.
- 1.04 Where direct-burial wiring is to be extended outside building proper, install rigid conduit through foundation wall and to a point 5'0" outside building proper and provide a watertight seal.
- 1.05 All underground conduits containing medium voltage cable shall be encased in reinforced concrete minimum 3" cover top, bottom and sides.
- 1.06 All underground conduits containing medium voltage cable shall be PVC (5") Five inch minimum size.

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- 1.07 All underground conduits containing medium voltage cable with elbows and offsets greater than 30 degrees shall be (RGC) rigid galvanized conduit elbows and offsets.
- 1.08 All (RGC) rigid galvanized conduit and fittings buried below finish grade shall be field coated with asphaltum or shall have an additional outside factory coating of polyvinyl chloride or a phenolic resin epoxy material.
- 1.09 The first 10'-0" of conduit that rises out of the ground and up the side of a building or up a telephone/power pole shall be (RGC) rigid galvanized conduit.

PART 2 - PRODUCTS

- 2.01 PVC Conduit shall be manufactured by:

Carlton
Johns-Manville
SEDCO Corp
or Owner approved equal.

- 2.02 PVC Fittings shall be manufactured by:

Carlton
Johns-Manville
SEDCO Corp
or Owner approved equal.

- 2.03 PVC High Impact Spacers:

Carlton
Johns-Manville
SEDCO Corp
or Owner approved equal.

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CONSTRUCTION AND RENOVATION STANDARDS

2.04 RGC, IMC, & EMT shall be manufactured by:

Triangle Conduit & Cable Company
Republic Steel Corp.
Allied Tube & Conduit Corp.
Wheeling Tube Corp.
Wheatland Tube Corp.
Gould Inc., EFCOR Division

2.05 RGC, IMC, & EMT Fittings shall be manufactured by:

Thomas & Betts/Steel City
Hubbell/RACO
Cooper/Crouse-Hinds
O-Z Gedney
AFC

2.06 Conduit Sealing Fittings shall be manufactured by:

O-Z Gedney
Linkseal

END OF SECTION