

**Thomas and Betts Corporation
Product Guide Specification**

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

This section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers are from *MasterFormat 2010 Update*.

**SECTION 26 05 33.50
RIGID NON-METALLIC CONDUIT ELBOWS**

Specifier Notes: Delete any information below in Parts 1, 2 or 3 which is not required or relevant for the project.

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes rigid PVC schedule 40 and 80 elbows, belled and plain ends for use with non-metallic solvent weld fittings.

1.02 REFERENCES

- A. Underwriters Laboratories, Inc. (UL):
 - 1. UL 651 Schedule 40 and 80 Rigid PVC Conduit and Fittings
- B. National Fire Protection Association (NFPA):
 - 1. NFPA 70 National Electrical Code (NEC)
- C. Intertek Testing Services (ETL):
 - 1. ETL is an OSHA-recognized National Recognized Testing Laboratory for product compliance in accordance to the NEC..

1.03 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data:
 - 1. Submit manufacturer's descriptive literature and product specifications for each product.
 - 2. Manufacturer's product drawings.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Products shall be free of defects in material and workmanship.
- B. Furnished products shall be listed or classified by a third party agency as suitable for the intended purpose.

1.05 WARRANTY

- A. Product is warranted free of defects in material and workmanship.

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- B. Product is warranted to perform the intended function within design limits.

PART 2 – PRODUCTS

2.01 GENERAL

- A. Rigid PVC Schedule 40 and 80 Elbows shall be UL or ETL Listed for underground, encased or exposed applications in accordance with the National Electrical Code Article 352.
- B. Rigid PVC schedule 40 and 80 elbows shall be available in trade sizes from 1/2" to 6".
- C. Rigid PVC schedule 40 and 80 elbows standard bends shall include 11-1/4°, 22-1/2°, 30°, 45° and 90°, with standard radii from 4" to 30".

2.02 MANUFACTURERS

- A. Acceptable Manufacturers:
Thomas & Betts Corporation
8155 T&B Blvd
Memphis, TN 38125
800-816-7809, 901-252-5000
www.tnb.com
 - 1. Carlon® Rigid Non-Metallic Elbows

2.03 DESIGN AND PERFORMANCE REQUIREMENTS

- A. Rigid Schedule 40 and 80 Elbows shall be made from rigid (nonplasticized) polyvinyl chloride (PVC) and shall be resistant to moisture and chemical atmospheres. The PVC elbows shall be flame retardant, resistant to impact and crushing and resistant to heat distortion.
- B. Schedule 40 and 80 Elbows shall be rated for use with 90° C conductors.
- C. Schedule 40 and 80 Elbows shall be free from visible cracks, holes or foreign inclusions. The elbow bore shall be smooth and free of blisters, nicks or other imperfections which could mar conductors or cables.
- D. Schedule 40 and 80 Elbows shall be identified for type, manufacturer and shall be traceable to location of plant and date manufactured. The markings shall be legible and permanent.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Installation shall be in accordance with the NEC were applicable and manufacturer's instructions.

END OF SECTION