

**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 33.17  
NON-METALLIC OUTLET BOXES**

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 the following:
  - 1. PVC, Phenolic and Polycarbonate switch and outlet boxes listed for use with non-metallic sheathed cable.
  - 2. PVC brackets for low voltage wire and cable management.

**1.02 REFERENCES**

- A. Underwriters Laboratories, Inc. (UL):
  - 1. UL 514C Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers
- B. National Fire Protection Association (NFPA):
  - 1. NFPA 70 National Electrical Code (NEC)
- C. National Electrical Manufacturers Association (NEMA)
  - 1. NEMA OS-2 Nonmetallic Outlet Boxes, Device Boxes, Covers and Box Supports

**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 boxes, covers and brackets shall be UL or ETL Listed and/or CSA Certified or equivalent in accordance with the applicable code.

**NON-METALLIC OUTLET BOXES  
26 05 33.17-1  
REVISION 0**

**Thomas and Betts Corporation  
Product Guide Specification**

**1.05 WARRANTY**

- A. Product is warranted free of defects in material and workmanship.
- B. Product is warranted to perform the intended function within design limits.

**PART 2 – PRODUCTS**

**2.01 GENERAL**

- A. PVC, Phenolic and Polycarbonate non-metallic boxes shall be listed and comply with NEMA OS-2.
- B. PVC non-metallic low voltage brackets shall be listed.

**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](http://www.tnb.com)

Products:

- 1. Carlon® Blue™ and SuperBlue™ PVC Boxes
- 2. Carlon® Phenolic Boxes
- 3. Carlon® Polycarbonate Boxes
- 4. Carlon® Low Voltage Brackets

**2.03 DESIGN AND PERFORMANCE REQUIREMENTS**

- A. PVC Non-metallic Outlet Boxes;
  - 1. Non-metallic outlet boxes shall be molded from PVC.
  - 2. PVC non-metallic outlet boxes shall not rust.
  - 3. PVC non-metallic outlet boxes shall be provided with knockouts or cable clamps to facilitate wiring.
  - 4. PVC non-metallic outlet boxes shall be listed for use with masonry walls.
  - 5. PVC non-metallic outlet boxes shall be UL Classified for a 2 hour fire rating for walls and ceilings.
  - 6. PVC non-metallic outlet boxes shall be listed for use with 90 degree C conductors.
  - 7. PVC non-metallic ceiling boxes shall be UL listed for fixture or fan support.
- B. Phenolic Non-metallic Outlet Boxes:
  - 1. Non-metallic outlet boxes shall be molded from Phenolic
  - 2. Phenolic non-metallic outlet boxes shall not rust.
  - 3. Phenolic non-metallic outlet boxes shall be provided with knockouts or cable clamps to facilitate wiring.
  - 4. Phenolic non-metallic outlet boxes shall be listed for use with masonry walls.
  - 5. Phenolic non-metallic outlet boxes shall be UL Classified for a 2 hour fire rating for walls and ceilings. Phenolic non-metallic outlet boxes may be installed in same wall stud cavity of a shared two-hour wall per it's UL classification. Phenolic non-metallic outlet boxes may face opposite directions with only a 3" horizontal separation per it's UL Classification.
  - 6. Phenolic non-metallic outlet boxes shall be listed for use with 90 degree C conductors.
  - 7. Phenolic non-metallic ceiling boxes shall be UL listed for fixture and/or fan support.

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Product Guide Specification**

- C. Polycarbonate Non-metallic Outlet Boxes:
  - 1. Non-metallic outlet boxes will be molded from Polycarbonate
  - 2. Polycarbonate non-metallic outlet boxes shall not rust.
  - 3. Polycarbonate non-metallic outlet boxes shall be provided with knockouts or cable clamps to facilitate wiring.
  - 4. Polycarbonate non-metallic outlet boxes shall be listed for use with masonry walls.
  - 5. Polycarbonate non-metallic outlet boxes shall be UL classified for a 2 hour fire rating for walls and ceilings.
  - 6. Polycarbonate non-metallic outlet boxes shall be listed for use with 90 degree C conductors.
  - 7. Polycarbonate non-metallic ceiling boxes shall be UL listed for fixture or fan support.
  
- D. PVC Non-metallic Low Voltage Brackets:
  - 1. Non-metallic brackets shall be molded from PVC.
  - 2. PVC non-metallic brackets shall not rust.
  - 3. PVC non-metallic brackets shall be provided without backs to facilitate cable bend radius requirements.
  - 4. PVC non-metallic Brackets shall be UL listed.

**PART 3 – EXECUTION**

**3.01 INSTALLATION**

- A. Installation shall be in accordance with NEC Article 314 where applicable and any manufacturer's instructions.

**END OF SECTION**