

**SECTION 12 36 10  
WINDOW STOOLS & APRONS**

New Section  
6/5/14

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies window stools and aprons.

**1.2 RELATED WORK**

- A. Color and patterns of solid polymer material: SECTION 09 06 00, SCHEDULE FOR FINISHES.

**1.3 SUBMITTALS**

- A. Submit in accordance with SECTION 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings
1. Show dimensions of section and method of assembly.
  2. Show details of construction at 1/2 scale.
- C. Samples:
1. 150 mm (6 inch) square samples each color.

**1.4 APPLICABLE PUBLICATIONS**

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
- D256-10.....Pendulum Impact Resistance of Plastic
- D570-98(R2005).....Water Absorption of Plastics
- D638-10.....Tensile Properties of Plastics
- D785-08.....Rockwell Hardness of Plastics and Electrical  
Insulating Materials
- D790-10.....Flexural Properties of Unreinforced and  
Reinforced Plastics and Electrical Insulating  
Materials
- D4690-99(2005).....Urea-Formaldehyde Resin Adhesives
- F. Federal Specifications (FS):
- A-A-1936.....Adhesive, Contact, Neoprene Rubber

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Solid Polymer Material:
1. Filled Methyl Methacrylic Polymer.

## 2. Performance properties required:

Property	Result	Test
Elongation	0.3% min.	ASTM D638
Hardness	90 Rockwell M	ASTM D785
Gloss (60° Gordon)	5-20	NEMA LD3.1
Color stability	No change	NEMA LD3 except 200 hour
Abrasion resistance	No loss of pattern Max wear depth 0.0762 mm (0.003 in) - 10000 cycles	NEMA LD3
Water absorption weight (5 max)	24 hours 0.9	ASTM D-570
Izod impact	14 N·m/m (0.25 ft-lb/in)	ASTM D256 (Method A)
Impact resistance	No fracture	NEMA LD-3 900 mm (36") drop 1 kg (2 lb.) ball
Boiling water surface resistance	No visible change	NEMA LD3
High temperature resistance	Slight surface dulling	NEMA LD3

3. Cast into sheet form.
4. Color throughout with subtle veining through thickness.
5. Joint adhesive and sealer: Manufacturers silicone adhesive and sealant for joining methyl methacrylic polymer sheet.
6. Bio-based products will be preferred.

**2.2 STOOLS & APRONS**

- A. Fabricate in one section per window unit.
- B. Fabricate per drawings.
- C. Join edges in a chemical resistant waterproof cement or epoxy cement.
- D. Methyl Methacrylic:
  1. Fabricate stools & aprons of methyl methacrylic polymer cast sheet, 19 mm (3/4 inch) thick.
  2. Fabricate in one piece for full length from corner to corner up to 3600 mm (12 feet).
  3. Join pieces with adhesive sealant.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. Before installing stools verify that wall surfaces have been finished as specified and that mechanical and electrical service locations are as required.
- B. Secure countertops to supporting rails of cabinets with metal fastening devices, or screws through pierced slots in rails.
  - 1. Where type, size or spacing of fastenings is not shown or specified, submit shop drawings showing proposed fastenings and method of installation.
  - 2. Use epoxy or silicone to fasten the epoxy resin countertops to the wall framing.

**3.2 PROTECTION AND CLEANING**

- A. Tightly cover and protect against dirt, water, and chemical or mechanical injury.
- B. Clean at completion of work.

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