



08 45 00 – Translucent Wall and Roof Assemblies

08 84 00 – Plastic Glazing

Job Name:

Description:

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. This section covers all work necessary to the execution and completion of non-self supporting exterior plastic glazing system as shown on drawings and specified herein.

1.02 RELATED SECTIONS

- A. Section 08 45 00 – Translucent Wall and Roof Assemblies
- B. Section 08 84 00 – Plastic Glazing

1.03 REFERENCE

- A. American Architectural and Manufacturers Association
 - 1. ASTM D1667 - 05 Standard Specification for Flexible Cellular Materials - (Closed-Cell Foam)
- B. American Standards and Test Methods
 - 1. ASTM C 1363 – Thermal Performance
 - 2. ASTM E 972 / ASTM E 1084 - Visible Light Transmittance
- C. International Building Code 2006
- D. National Fenestration Rating Council (NFRC)
 - 1. NFRC 201 – Solar Heat Gain Coefficient

1.04 DESIGN REQUIREMENTS

- A. 25mm structured sheet(s) are tested by an accredited test laboratory in accordance with NFRC procedures for thermal performance.

25mm sheet	U-Factor	SHGC	VT
Clear	0.39	0.57	0.58
Bronze	0.39	0.41	0.27
White	0.39	0.41	0.24

B. Performance Specifications

Sheet Thickness	4mm	6mm	8mm	10mm	16mm	25mm
Structure Type (walls)	twin	twin	twin	twin	four	five
Min. Bending Radius	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.	4 ft.
Weight (lbs / sq ft)	0.16	0.27	0.35	0.41	0.57	0.71
Light Trans. (%)	Clear	84	82	82	80	76
	Bronze	53	50	50	50	50
	Opal	45	40	40	40	40

C. Recommended Loading

- 1. All rafter centers shall be no greater than 24". Runs shall be supported by perlines a minimum of every 4 ft.

1.01 SUBMITTALS

- A. Submit full scale shop drawings indicating methods of construction, location and spacing of anchorage, joinery, finishes, size, shape, thickness of framing members, relationship to adjoining work and glazing materials used.
- B. Submit samples of each type of glazing material and finish as required by architect.

1.02 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original and unopened packaging.
- B. Store on site in a location and manner to avoid damage. Stacking should be done in a manner that will prevent damage. Store material in a clean, dry location away from high traffic areas. Any protection on the products during transportation should remain until installed.
- C. Keep handling on site to a minimum. Exercise caution to avoid damage to finishes of material.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Drawings and specifications are based on products manufactured by:
 - Amerilux International, LLC
 - DePere, WI 54115
 - Distributed by:
 - CrystaLite, Inc.
 - 3307 Cedar Street
 - Everett, WA 98201
 - 1-800-666-6065
 - www.crystaliteinc.com
- B. Substitutions: Not permitted.

2.02 MATERIALS

- A. Polycarbonate multi-wall sheet. Color shall be (clear, bronze, white, other). Thickness as required by the span and loads. Fire Rating per application.

2.03 GLAZING ACCESSORIES

- A. Glazing tapes per ASTM D 1667, 2240, 412, 925; ASTM C 518; NPT 11, 5, 57 Thermal Bond V 2100 high strength polyurethane foam substrate double sided tape. All other gaskets, setting blocks, and other materials used in glazing shall be of a type, quality and compatibility to provide performance of the product(s) covered in this section.

2.04 FABRICATION

- A. Skin system(s) shall be field measured, cut, and assembled in accordance with manufacturer's instructions.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Framing shall be installed and glazed by experienced workmen in accordance with the approved shop drawings, manufacturer's instructions and glazing standards.

3.02 CLEANING AND PROTECTION

- A. Subsequent to installation of product(s) the General Contractor shall be responsible for the cleanup and protection of all materials provided per this section, including, but not limited to glazing materials and framing members. No abrasive materials of any kind shall be used in cleaning of surfaces.