SECTION 088413 - DECORATIVE PLASTIC GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Copolyester glazing.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Decorative Plastic Glazing Samples: For each color and finish of decorative plastic glazing indicated, 12 inches square and of same thickness indicated for final Work.

C. Glazing Accessory Samples: For gaskets and sealants, in 12-inch lengths. Install sealant Samples between two strips of material representative in color of the adjoining framing system.

D. Decorative Plastic Glazing Schedule: List plastic glazing types and thicknesses for each size opening and location. Use same designations indicated on Drawings. Indicate coordinated dimensions of plastic glazing and construction that receives plastic glazing, including clearances and glazing channel dimensions.

1.3 INFORMATIONAL SUBMITTALS

A. Product Certificates: For plastic glazing and glazing products.

B. Product Test Reports: For decorative plastic glazing for tests performed by a qualified testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For plastic glazing to include in maintenance manuals.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect plastic glazing materials according to manufacturer's written instructions. Prevent damage to plastic glazing and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

B. Maintain protective coverings on plastic glazing to avoid exposures to abrasive substances, excessive heat, and other sources of possible deterioration.

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PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Plastic glazing sheets and glazing materials shall withstand normal temperature changes, wind, and impact loads without failure, including loss or breakage of plastic sheets attributable to the following: failure of sealants or gaskets to remain watertight and airtight, deterioration of plastic sheet and glazing materials, or other defects in materials and installation.

B. Fire-Test-Response Characteristics of Plastic Glazing: As determined by testing plastic glazing by a qualified testing agency acceptable to authorities having jurisdiction.
   1. Self-ignition temperature of 650 deg F or higher when tested according to ASTM D1929 on plastic sheets in thicknesses indicated for the Work.
   2. Smoke density of 75 or less when tested according to ASTM D2843 on plastic sheets in thicknesses indicated for the Work.
   3. Flame-spread index of not less than that indicated when tested according to ASTM E84.

2.2 DECORATIVE PLASTIC GLAZING, GENERAL

A. Decorative Plastic Glazing Labeling: Identify plastic sheets with appropriate markings of applicable testing and inspecting agency, indicating compliance with required fire-test-response characteristics.

2.3 COPOLYESTER GLAZING

A. Plastic Glazing Type (DPGL): Copolyester sheet.
   1. Basis-of-Design Product: As indicated on Drawings and as follows:
      a. DPGL1:
         1) Interlayer: Hi resolution custom graphic interlayer.
         2) Thickness: As indicated on drawings.
         3) Edge: As indicated on drawings.
         4) Finish: As indicated on drawings.
         5) Mounting System: As indicated on drawings.
      b. DPGL2 - DGPL5:
         1) Thickness: As indicated on drawings.
         2) Edge: As indicated on drawings.
         3) Finish: As indicated on drawings.
         4) Mounting System: As indicated on drawings.
   2. Color: As indicated on Drawings .
   3. Interlayer Materials: Compatible with polyesters and bonding process to create a monolithic sheet of material when complete.
   4. Combustibility Class: CC1.
   5. Flame-Spread Index: 25 or less.

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2.4 MISCELLANEOUS GLAZING MATERIALS

A. Compatibility: Provide products of material, size, and shape complying with requirements of manufacturers of plastic glazing and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

2.5 FABRICATION

A. Sizes: Fabricate plastic glazing to sizes required for openings indicated. Allow for thermal expansion and contraction of plastic glazing without restraint and without withdrawal of edges from frames, with edge clearances and tolerances complying with plastic glazing manufacturer's written instructions.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean glazing channels and other framing members immediately before glazing. Remove coatings not firmly bonded to substrates.

3.2 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of plastic glazing materials, sealants, gaskets, and other glazing materials unless more stringent requirements are indicated, including those in referenced glazing publication.

B. Glazing channel dimensions indicated on Drawings are designed to provide the necessary bite on plastic glazing, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust plastic glazing lites during installation to ensure that bite is equal on all sides.

C. Remove burrs and other projections from glazing channel surfaces.

D. Protect plastic glazing surfaces from abrasion and other damage during handling and installation, according to the following requirements:
   1. Retain plastic glazing manufacturer's protective covering or protect by other methods according to plastic glazing manufacturer's written instructions.
   2. Remove covering at border of each piece before glazing; remove remainder of covering immediately after installation where plastic glazing is exposed to sunlight or where other conditions make later removal difficult.
   3. Remove damaged plastic glazing sheets from Project site and legally dispose of off-site. Damaged plastic glazing sheets are those containing imperfections that,

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when installed, result in weakened glazing and impaired performance and appearance.

E. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.

F. Provide edge blocking to comply with referenced glazing publication unless otherwise instructed by plastic glazing manufacturer.

G. Square cut wedge-shaped gaskets at corners and install gaskets as recommended in writing by gasket manufacturer to prevent corners from pulling away; seal corner and butt joints with sealant recommended by gasket manufacturer.

3.3 CLEANING AND PROTECTION

A. Protect plastic glazing from contact with contaminating substances from construction operations. If, despite such protection, contaminating substances do come into contact with plastic glazing, remove immediately and wash plastic glazing according to plastic glazing manufacturer's written instructions.

B. Remove and replace plastic glazing that is broken, chipped, cracked, abraded, or damaged in other ways during construction period, including natural causes, accidents, and vandalism.

C. Wash plastic glazing on both faces before date scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Wash plastic glazing according to plastic glazing manufacturer's written instructions.

END OF SECTION 088413

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