

**PRODUCT SPECIFICATIONS**



## PART 1: GENERAL

### 1.1 SECTION INCLUDES

- Carvart® custom color, pattern, fabric and metallic laminated glass and glazing for sections referencing this section.
- Laminated glass and glazing for [hollow metal work,] [handrail balusters,] [windows,] [glazed walls,] [doors,] [cabinet shelves,] [cabinet doors,] [and]
- Flat glass [and curved glass].

### 1.2 RELATED SECTIONS

- Section 06200 Finish Carpentry: Framed openings with requirement for laminated glass.
- 2 Section 06410 Custom Casework: Cabinets with requirement for laminated glass shelves [and]

### 1.3 REFERENCES

- ANSI Z97.1 Standard for Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- ASTM C1036 Specification for Flat Glass.
- ASTM C1048 Specification for Heat-Treated Flat Glass Kind HS, Kind FT Coated and Uncoated Glass.
- ASTM C1172 Specification for Laminated Architectural Flat Glass.
- ASTM E90 Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
- ASTM E1300 - Practice for Determining Minimum Load Resistance of Glass in Buildings.
- CPSC (Consumer Products Safety Commission) 16CFR 1201.
- GANA (Glass Association of North America) Glazing Manual.
- GANA (Glass Association of North America) Laminated Glass Design Guide.

### 1.4 PERFORMANCE REQUIREMENTS

- Loads: Size glass thickness to withstand dead loads and positive and negative live loads acting normal to plane of glass [as calculated in accordance with [\_\_\_\_\_] code.] [to a design pressure of [\_\_\_\_\_] lb/sq ft ([\_\_\_\_\_] kPa).] [as measured to ASTM E330 - static.] [as measured to ASTM E1233 - cyclic.] [as measured to ASTM E283.]
- Deflection: Size glass thickness and limit glass deflection to [1/200] [\_\_\_\_\_] or flexure limit of glass, with full recovery of glazing materials, whichever is less.

### 1.5 SUBMITTALS FOR REVIEW

- Section 01300: Submission procedures.
  - Product Data on Carvart® Custom Laminated Glass Types: Provide structural, physical and environmental characteristics, size limitations, color of interlayer, special handling or installation requirements.
  - Template of glass logo that includes Carvart® name and safety glazing standard
  - Verification of authentic Carvart® glass manufacturing and fabrication.
- Samples: Submit [one (1)] [\_\_\_\_\_] samples, [\_\_ x \_\_] inches ([\_\_ x \_\_] mm) in size, exemplifying laminated glass [units,] color, pattern or metallic design using actual glass to be used in the project.

## 1.6 SUBMITTALS FOR INFORMATION

- Section 01300: Submission procedures.
- Certificates: Certify that [Products] [\_\_\_\_\_] meet or exceed specified requirements.
- Manufacturer's Certificate: Certify that Carvart® custom color, pattern, fabric or metallic laminated glass, meets or exceeds specified requirements.

## 1.7 QUALITY ASSURANCE

- Perform Work in accordance with [GANA Glazing Manual,] [GANA Sealant Manual,] [and] [GANA - Laminators Glass Design Guide] for glazing installation methods. [Maintain [one (1)] [\_\_\_\_\_] copy on site.]
- Installer Qualifications: Company specializing in performing the work of this section [with minimum [\_\_\_\_\_] years [documented] experience,] [approved by Carvart®].

## 1.8 SAMPLE

- Section 01400: Requirements for sample.
- Provide sample manufactured by Carvart® including tempered, back painted or laminated glass.
- Locate where directed.
- Sample may [not] remain as part of the permanent Work.

## PART 2: PRODUCTS

### 2.1 FLAT GLASS MATERIALS

- Interlayer Manufacturers:
  - Carvart® glass (212.675.0030)
  - Substitutions: Not permitted
- Carvart® Fabricated
  - Contact information: 212.675.0030 or go to [www.carvart.com](http://www.carvart.com).
- Glass Pane Components:
  - Pane Thickness: [\_\_\_\_\_].
  - Type AN - Clear, annealed; to ASTM C1036.
  - Type HS - Clear, heat strengthened; ASTM C1048.
  - Type FT - Clear, full tempered, horizontal temper direction, ASTM C1048.
  - Glass Pane Thickness: [\_\_\_\_\_] inches to resist lateral load according to ASTM E1300.

- Interlayer:
  - Carvart®, color reference number [\_\_\_\_\_], thickness of 0.015", 0.030", 0.045", 0.060" and 0.090" ([0.38mm] [0.76mm] [1.14mm] [1.52mm] [ ]mm).
  - Carvart™, reference number pattern [\_\_\_\_\_], fabric [\_\_\_\_\_] or metallic [\_\_\_\_\_], thickness of 0.032", [\_\_\_\_\_] ([0.81mm] [ ]mm).
  - Carvart®, custom number [\_\_\_\_\_],
    - [\_\_\_\_\_], thickness of 0.032", [\_\_\_\_\_] ([0.81mm] [ ]mm). We need to separate colors from patterns and metallic because of the thickness differences.
- Laminated Glass - color, (pattern, fabric or metallic) [Safety] Type:
  - [Double] [Triple] layers of glass panes with interlayer between each pane.
  - Laminated with Carvart® custom color, (pattern, fabric or metallic) interlayer to ASTM C1172
    - Transparency: [CLEAR.] [Translucent Level] [1], [2], [3], [4]
    - Conforming to Safety Regulations: [ANSI Z97.1] [CPSC 16CFR 1201 Cat. I.] [CPSC 16CFR 1201 Cat.II.]

### 2.2 CURVED GLASS MATERIALS

- Curved Glass:
  - [Clear] [[\_\_\_\_\_] color tinted [PVB][Resin] interlayer].
  - Thickness: [\_\_\_\_\_] inch ([\_\_\_\_\_] mm) thick minimum.
  - Curved to [\_\_\_\_\_] configuration with [\_\_\_\_\_] inches ([\_\_\_\_\_] mm) radius.
  - Conforming to Safety Regulations: [ANSI Z97.1] [CPSC 16CFR 1201 Cat. I.] [CPSC 16CFR 1201 Cat.II.]
  - Sound Transmission Rating: [OITC.] [STC.] , [NUMBER] [\_\_\_\_\_] to [ASTM E90.] [ASTM E413.] [ASTM E1332.]

### 2.3 INSTALLATION INTERIOR DRY METHOD

- Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sight line.
- Place setting blocks at [1/4] [1/3] points with edge block no more than [6] [\_\_\_\_\_] inches ([150] [\_\_\_\_\_] mm) from corners.
- Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.
- Place glazing tape on free perimeter of glazing in same manner described above.
- Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
- Knife trim protruding tape.

## 2.4 CLEANING

- Section 01700: Cleaning installed work.
- Remove glazing materials from finish surfaces.
- Remove labels after Work is complete.
- Clean glass and adjacent surfaces.

## 2.5 PROTECTION OF FINISHED WORK

- Section 01700: Protecting installed work.
- After installation, mark pane with an 'X'.
- [Do not mark heat absorbing or reflective glass units.]

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