



## Section 08830

### MIRRORS

**\*\*Note to Specifier: Vitro America ScarGard® Mirror. \*\*** This section is based on products manufactured by Vitro America, LLC. located at 501 E. Govan Street, Grenada, Mississippi 38901. Phone: 800-221-8408  
Email: sales@vitroamerica.com Website: www.vitroamerica.com. This specification should be used as a guideline only.

Vitro America, LLC. offers a variety of architectural building products, including tempered glass, laminated glass, all glass doors, handrails, clad doors and insulated glass.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Decorative Mirrors
- B. Door Mirrors
- C. Vanity Mirrors
- D. Sheet Mirrors (standard and custom)

##### 1.2 RELATED SECTIONS

- A. Section 08850 Glazing Accessories

##### 1.3 REFERENCES

- A. ASTM C1036-01 Standard Specifications for Flat Glass
- B. ASTM C1503-01 Standard Specification for Silvered Flat Glass Mirror

- C. ASTM B117-97 Method of Salt Spray Testing
- D. ASTM 1048-04 Standard Specification for Heat Treated Glass
- E. ASTM D3359-97 Standard Test Methods for Measuring Adhesion by Tape
- F. ASTM 1172-03 Standard for Laminated Architectural Glass
- G. Glass Association of North America (GANA) Glazing Manual  
[www.glasswebsite.com](http://www.glasswebsite.com)

#### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300
- B. Product Data: Submit manufacturer's product data
- C. Shop Drawings: Submit manufacturer's or fabricator's shop drawings, including plans, elevations, sections and details, indicating glass dimensions, tolerances, thicknesses, types and coatings.
- D. Samples: Submit two samples representing manufacturer's full range of available types and thicknesses
- E. Cleaning Instructions: Submit manufacturer's cleaning instructions in accordance with the Glass Association of North America (GANA) recommendations.
- F. Warranty: Submit manufacturer's standard 5 year warranty for mirror.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Minimum of 10 years experience manufacturing mirror.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Delivery:

1. Deliver mirror to site in accordance with manufacturer's instructions.
2. Deliver mirror in original containers and packaging from manufacturer or fabricator with labels clearly identifying the product name and manufacturer.

B. Storage:

1. Store mirror in accordance with manufacturer's instructions.
2. Store mirror indoors and in a clean and dry area.
3. Protect mirror from exposure to direct sunlight or extreme heat and freezing temperatures.
4. Apply coverings as needed to protect and allow adequate ventilation.
5. Protect from contact with corrosive chemicals.
6. Avoid placing mirror edge on concrete, metal or other hard surface.
7. Install mirror on clean, cushioned pads at quarter points.

C. Handling:

1. Handle mirror in accordance with manufacturer's instructions.
2. Protect mirror from damage during handling and installation.
3. Do not slide mirror from end of case or one lite against another.
4. Do not use sharp objects near unprotected mirror.

## 1.7 ADHESIVES

- A. Vitro America does not endorse any specific mastic manufacturer and there is no guaranteed result with any particular product, since manufacturers may reformulate the product without notice. Vitro America has no responsibility for quality control of products manufactured by others.
- B. Compatibility test should be verified with the sealant or adhesive supplier.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. Vitro America, LLC. 501 E. Govan Street, Grenada, Mississippi 38901. Toll Free 800-221-8408 Phone 662-226-7977 Email: [sales@vitroamerica.com](mailto:sales@vitroamerica.com) Website: [www.vitroamerica.com](http://www.vitroamerica.com)

### 2.2 MIRROR GLASS

A. Decorative Mirrors:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirror]

- a. Type: [Diameter] [Oval] [Rectangular]
- b. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- c. Bevel: [1/2"] [1"] [1 1/4"]
- d. Edgework: [Clean Cut] [Pencil Polished]
- e. Tint: [Clear] [Grey] [Bronze] [Black] [Blue] [Green]
- f. Dimension: [\_\_\_\_ inches width x \_\_\_\_ inches height]

B. Door Mirrors:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirrors]

- a. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- b. Bevel: [1/2"] [No bevel]
- c. Edgework: [Clean Cut] [Pencil Polished]
- d. Dimension: [16" x 60"] [16" x 68"] [18" x 60"] [18" x 68"]  
[20" x 60"] [20" x 68"] [22" x 60"] [22" x 68"] [24" x 60"]  
[24" x 68"]

C. Vanity Mirrors:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirrors]

- a. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- b. Bevel: [1/2"] [1"] [No bevel]
- c. Edgework: [Clean Cut] [Pencil Polished]
- d. Dimension: [30" x 36"] [30" x 42"] [30" x 48"] [30" x 60"]  
[36" x 36"] [36" x 42"] [36" x 48"] [36" x 60"] [36" x 72"]  
[40" x 36"] [40" x 42"] [40" x 48"] [40" x 60"] [40" x 72"]  
[42" x 36"] [42" x 42"] [42" x 48"] [42" x 60"] [42" x 72"]  
[42" x 84"] [48" x 36"] [48" x 42"] [48" x 48"] [48" x 60"]  
[48" x 72"] [48" x 84"]

D. Laminated Mirror:

1. Vitro America: [Mirror] Laminated Mirror glass used meets CPSC 16 CFR 1201, Cat II and ANSI Z97.1-1984 safety specifications. Glass to vinyl (PVB) only.

- a. Thickness: [3mm-1/8"] [.030 PVB interlayer] [3mm – 1/8"]
- b. Edgework: [Clean Cut]
- c. Tint: [Clear] [Grey] [Bronze] [Black] [Blue] [Green]
- d. Dimension: [\_\_\_\_ inches width x \_\_\_\_ inches height]

E. Sheet Mirror – Custom Fabricated:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirror]

- a. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- b. Bevel: [1/2"] [1"] [1" 1/4"] [No bevel]
- c. Edgework: [Factory Edge – No Edgework] [Pencil Polished]
- d. Tint: [Clear] [Grey] [Bronze] [Black] [Blue] [Green]
- e. Dimensions: [\_\_\_\_ inches width x \_\_\_\_ inches height]

F. Tape-Backed Mirror:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirror] Category Category II T CPSC 16 CFR 1201, Cat II and ANSI Z97.1-1984 safety specifications. Tape back adhesive applied to paint side of mirror.

- a. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- b. Bevel: [1/2"] [1"] [1" 1/4"] [No bevel]
- c. Edgework: [Factory Edge – No Edgework] [Pencil Polished]
- d. Tint: [Clear] [Grey] [Bronze] [Black] [Blue] [Green]
- e. Dimensions: [\_\_\_\_ inches width x \_\_\_\_ inches height]

G. Tempered Mirror:

1. Vitro America: [Mirror] [ScarGard™ Surface Protected Mirror]  
Tempered glass used meets CPSC 16 CFR 1201, Cat II and ANSI Z97.1-1984 safety specifications.

- a. Thickness: [3mm – 1/8"] [5mm – 3/16"] [6mm – 1/4"]
- b. Bevel: [1/2"] [1"] [1" 1/4"] [No bevel]
- c. Edgework: [Factory Edge – No Edgework] [Pencil Polished]
- d. Tint: [Clear] [Grey] [Bronze] [Black] [Blue] [Green]
- e. Dimensions: [\_\_\_\_] inches width x [\_\_\_\_] inches height]

Note on Tempered Mirror: Some distortion may exist due to heat treating process, and will be considered acceptable by mirror manufacturer.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
- B. Notify Architect if conditions may adversely affect installation. Installation should not be performed if conditions are unsatisfactory and not corrected.

### 3.2 PREPARATION

- A. Verify areas for mirror installation are correct in size and within tolerance.
- B. Verify areas for mirror installation are clean and free of obstruction or contaminants of any type.

### 3.3 INSTALLATION

- A. Install mirror in accordance with manufacturer's instructions and Glass Association of North America (GANA) Glazing Manual, except where local codes may take precedence.
- B. Mechanical fasteners are recommended for mirror installation.
- C. J channel should incorporate weep system.
- D. Mirror should not be installed on freshly painted walls.

#### 3.4 FIELD QUALITY CONTROL

- A. Verify mirror is free of chips, cracks, inclusions or other defects that could inhibit the structural or aesthetic integrity of the installation.

#### 3.5 CLEANING

- A. Use proper cleaning instructions immediately following installation as provided by the manufacturer and in accordance with the Glass Association of North America (GANA) Glazing Manual. [www.glasswebsite.com](http://www.glasswebsite.com)
- B. Remove labels from mirror surface.
- C. Do not use harsh cleaning materials or methods that may damage mirror.

#### 3.6 PROTECTION

- A. Protect installed mirror from damage during construction.
- B. Protect installed mirror from contact with contaminating substances resulting from subsequent construction activities.
- C. Remove and replace mirrors damaged by subsequent construction activities in accordance with manufacturer's recommendations, including mirror that is broken, chipped, cracked or damaged in other ways.

END OF SECTION