

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.01 SUBMITTALS

- A. Glass Samples: For each type of **[glass product other than clear monolithic vision glass] [the following products]**; 12 inches (300 mm) square.

Retain the following for DiamondGuard® glass products if desired.

1. Coated glass.

PART 2 - PRODUCTS

2.01 GLASS PRODUCTS

Retain the following for DiamondGuard® glass products.

- A. Carbon-Coated Interior Vision Glass: ASTM C 1376, coated using a vacuum deposition process with diamond-like, scratch-resistant, and stain-resistant carbon coating produced with ion-beam technology; and complying with other requirements specified.
1. Basis-of-Design Product: DiamondGuard® by Guardian Industries Corp.
 2. Kind: Kind CV (coated vision glass).
 3. Coating Color: Clear.
 4. Glass: **[Clear float] [Tinted float]**.

Retain first subparagraph below if retaining tinted float glass in last subparagraph above.

5. Tint Color: **[Ebony] <Insert color>**.
6. Visible Reflectance: **[8] <Insert value>** percent maximum on coating-side and glass-side.

Mirrors below may also be specified in Section 08 83 00 "Mirrors."

2.02 SILVERED FLAT GLASS MIRRORS

Retain the following for clear DiamondGuard® mirror products.

- A. Carbon-Coated Clear Glass: ASTM C 1503; manufactured using copper-free, low-lead mirror coating process (palladium-tin-silver-organic paint); Mirror Select Quality; surface coated using a vacuum deposition process with diamond-like, scratch-resistant, and stain-resistant carbon coating produced with ion-beam technology; and complying with other requirements specified.

1. Basis-of-Design Product: DiamondGuard® UltraMirror™ by Guardian Industries Corp.
2. Nominal Thickness: [2.3 mm] [3.0 mm] [4.0 mm] [5.0 mm] [6.0 mm] [As indicated] <Insert thickness>.

Retain the following for tinted DiamondGuard® products.

B. Carbon-Coated Tinted Glass: ASTM C 1503; manufactured using tinted glass. Coated using a vacuum deposition process with diamond-like, scratch-resistant, and stain-resistant carbon coating produced with ion-beam technology; and complying with other requirements specified.

1. Basis-of-Design Product: DiamondGuard® by Guardian Industries Corp.
2. Nominal Thickness: [2.3 mm] [3.0 mm] [4.0 mm] [5.0 mm] [6.0 mm] [As indicated] <Insert thickness>.
3. Tint Color: [Gray] [Black] [Bronze] [Golden Topaz] [Pink Rosa].

DiamondGuard® mirrors are also available in laminated versions. Contact Guardian Industries Corporation for additional information.

2.03 MONOLITHIC-GLASS TYPES

A. Glass Type [GL-<#>]: Carbon-coated interior vision glass, float glass.

DiamondGuard® is available on glass thicknesses from 3.1 mm to 19 mm as follows.

1. Coating Location: First surface.
2. Thickness: [3.1mm][6.0 mm] [8.0 mm] [10.0 mm] [12 mm] [19 mm] [As indicated] <Insert thickness>.

Insert performance properties in subparagraphs below to suit product(s) selected. Values below correspond to the available thicknesses above respectively

3. Visible Light Transmittance: 8mm [88] 10mm [87] 12mm [86] percent minimum.
4. Visible Reflectance: 8mm [8] 10mm [8] 12mm [8] percent maximum on coating-side and glass-side.
5. Color Rendering Index: 8mm [99] 10mm [99] 12mm [98]

PART 3 - EXECUTION

3.01 CLEANING AND PROTECTION

Retain subparagraph below if required for mirror glass.

A. Clean mirrors with a soft, grit free cloth using warm water. Do not use any acid, alkali or ammonia cleaners. Do not allow mirror edges to remain wet.

END OF SECTION 088300