SECTION 08842

LAMINATED GLASS GLAZING

PART GENERAL

SECTION INCLUDES

Flat laminated glass, CPS Category I.

Flat laminated glass, CPS Categories I and II.

_____.

RELATED SECTIONS

Section 07900 - Joint Sealers.

Section 08100 - Metal Doors and Frames.

Section 08200 - Wood and Plastic Doors.

Section 08520 - Aluminum Windows.

Section 08600 - Skylights.

Section 08800 - Glazing.

Section 08910 - Metal-Framed Curtain Wall.

Section 10185 - Shower and Dressing Compartments.

Section 13125 - Greenhouses.

_____.

REFERENCES

ANSI Z97.1 - American National Standard for Glazing Materials Used in Buildings -- Safety Performance Specifications and Methods of Test.

ASTM C 1036 - Specification for Flat Glass.

ASTM E 1300 - Practice for Determining the Minimum Thickness and Type of Glass Required to Resist a Specified Load.

ASTM F 1233 - Test Method for Security Glazing Material and Systems.

Consumer Product Safety Commission, Federal Standard 16CFR1201.

UL 752 - Standard for Bullet-Resisting Equipment.

UL 972 - Standard for Burglary Resisting Glazing Material.

_____.

PART PRODUCTS

MANUFACTURERS

Acceptable Interlayer Manufacturer: Solutia, Inc., 10300 Olive Boulevard, P.O. Box 66760, St. Louis, MO 63166-6760; ASD. Tel: (314) 674-1000 or (800) 248-6844; Fax: (314) 674-3439; Internet: www.saflex.com

Acceptable Laminated Glass Manufacturers: _____.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

Substitutions: Not permitted.

Provide all laminated glass from a single manufacturer.

MATERIALS

Interlayer: Plasticized polyvinyl butyral (PVB).
Thickness: 0.015 inches (0.38 mm).
Thickness: 0.030 inches (0.76 mm).
Thickness: 0.060 inches (1.52 mm).
Thickness: 0.090 inches (2.28 mm).
Color: Clear.
Color: Bronze, Light.
Color: Bronze, Medium.
Color: Bronze, Dark.
Color: Gray.
Color: Blue Green.
Color: Neutral Brown, Light.

Color: Neutral Brown, Medium.
Color: Neutral Brown, Dark.
Color: Translucent White.

Glass: Conforming to ASTM C 1036.
Annealed.
Tempered.
Heat-strengthened.
Chemically-strengthened.
Spandrel.
Tinted.
Reflective.
One-way mirror.
Two-way mirror.
Clear bent.
Tinted bent.
Reflective bent.
Wired.

LAMINATED GLASS

Provide laminated glass comprised of two or more pieces of glass and one or more interlayers, permanently bonded together under heat and pressure.

Entrance Doors:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Sliding Doors:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.

Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Shower and Tub Enclosure Doors:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Storm Doors:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Sidelights:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Fixed Glass Panels:

Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Vision and Spandrel Areas:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Greenhouses:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Skylights:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.

Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Sloped Glazing:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Burglar-Resistant Glazing:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Bullet-Resistant Glazing:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

Blast-Resistant Glazing:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

_____:
Glass Type: _____.
Glass Thickness: _____ inches (_____ mm).
Pieces of Glass: _____.
Interlayer Thickness: _____ inches (_____ mm).
Interlayer Color: _____.
Number of Interlayers: _____.
Overall Thickness: _____ inches (_____ mm).
STC Value: _____.
Visible Light Transmittance: _____ percent.
Solar Optical Transmittance: _____ percent.
Properties Shading Coefficient: _____.
Design Instantaneous Heat Gain: _____ BTUH/sq. ft.

PART EXECUTION

EXAMINATION

Inspect and verify that frame openings are correct size and conform to recommendations of the glazing manufacturer.

PREPARATION

Clean frame contact surfaces with compatible solvent and wipe dry. Do not allow solvent to pool in glazing channels.

INSTALLATION

Install laminated glass in accordance with manufacturer's recommendations for edge engagement and expansion

allowance.

Employ only sealants and glazing accessories that have been approved by laminated glass manufacturer.

END OF SECTION