### SECTION 08842

#### LAMINATED GLASS GLAZING

# PART 1 GENERAL

# 1.1 SECTION INCLUDES

- A. Flat laminated glass, CPS Category I.
- B. Flat laminated glass, CPS Categories I and II.
- C. \_\_\_\_\_

#### 1.2 RELATED SECTIONS

- A. Section 07900 Joint Sealers.
- B. Section 08100 Metal Doors and Frames.
- C. Section 08200 Wood and Plastic Doors.
- D. Section 08520 Aluminum Windows.
- E. Section 08600 Skylights.
- F. Section 08800 Glazing.
- G. Section 08910 Metal-Framed Curtain Wall.
- H. Section 10185 Shower and Dressing Compartments.
- I. Section 13125 Greenhouses.
- J.

### 1.3 REFERENCES

- A. ANSI Z97.1 American National Standard for Glazing Materials Used in Buildings -- Safety Performance Specifications and Methods of Test.
- B. ASTM C 1036 Specification for Flat Glass.
- C. ASTM E 1300 Practice for Determining the Minimum Thickness and Type of Glass Required to Resist a Specified Load.
- D. ASTM F 1233 Test Method for Security Glazing Material and Systems.

- E. Consumer Product Safety Commission, Federal Standard 16CFR1201.
- F. UL 752 Standard for Bullet-Resisting Equipment.
- G. UL 972 Standard for Burglary Resisting Glazing Material.
- H. .

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. 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
- B. Acceptable Laminated Glass Manufacturers:

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- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- D. Substitutions: Not permitted.
- E. Provide all laminated glass from a single manufacturer.

#### 2.2 MATERIALS

- A. Interlayer: Plasticized polyvinyl butyral (PVB).
  - 1. Thickness: 0.015 inches (0.38 mm).
  - 2. Thickness: 0.030 inches (0.76 mm).
  - 3. Thickness: 0.060 inches (1.52 mm).
  - 4. Thickness: 0.090 inches (2.28 mm).
  - 5. Color: Clear.
  - 6. Color: Bronze, Light.
  - 7. Color: Bronze, Medium.
  - 8. Color: Bronze, Dark.
  - 9. Color: Gray.
  - 10. Color: Blue Green.
  - 11. Color: Neutral Brown, Light.
  - 12. Color: Neutral Brown, Medium.
  - 13. Color: Neutral Brown, Dark.
  - 14. Color: Translucent White.
- B. Glass: Conforming to ASTM C 1036.
  - 1. Annealed.

		4.	Chemically-strengthened.
		5.	Spandrel.
		6.	Tinted.
		7.	Reflective.
		8.	One-way mirror.
			Two-way mirror.
			Clear bent.
			Tinted bent.
			Reflective bent.
			Wired.
. 3	LAM	INATI	ED GLASS
	Α.		vide laminated glass comprised of two or more pieces
			glass and one or more interlayers, permanently bonded
			ether under heat and pressure.
	В.	_	rance Doors:
	_ •	1.	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.
	С.	Slic	ding Doors:
		1.	<del>-</del>
		2.	Glass Thickness: inches ( mm).
		3.	Pieces of Glass:
		4.	Interlayer Thickness: inches ( mm).
		5.	Interlayer Color:
		6.	Number of Interlayers: .
		7.	Overall Thickness:inches (mm).
		8.	STC Value:
		9.	Visible Light Transmittance: percent.
			Solar Optical Transmittance: percent.
			Properties Shading Coefficient:
		12.	Design Instantaneous Heat Gain: BTUH/sq. ft.
	D.	Shor	wer and Tub Enclosure Doors:
		1.	Glass Type:

2. Tempered.

2

3. Heat-strengthened.

	2.	Glass Thickness: inch	nes (	mm).	
	3.	Pieces of Glass: .			
	4.		inches	( mm)	•
	5.				
		Number of Interlayers: .			
			nches (	mm).	
		CTC 7/2]110 •	(		
		Visible Light Transmittance:		percent.	
		Solar Optical Transmittance:		percent.	
		Properties Shading Coefficient		percent.	
				•	£+
	12.	Design Instantaneous Heat Gair		BTUH/sq.	IL.
Ε.	Sto	rm Doors:			
	1.	Glass Type:		·	
	2.	Glass Thickness: inch	nes (	mm).	
	3.	Pieces of Glass: .		<del></del>	
	4.	Interlayer Thickness:	inches	( mm)	•
	5.	Interlayer Color:	_	•	
	6.	Number of Interlayers: .		<del></del>	
			nches (	mm).	
		STC Value:	`		
		Visible Light Transmittance:		percent.	
		Solar Optical Transmittance:		percent.	
		Properties Shading Coefficient			
		Design Instantaneous Heat Gair		BTUH/sq.	ft.
_	- 1 1				
F.		elights:			
		Glass Type: Glass Thickness: inch		· · ·	
			ies (	mm).	
		Pieces of Glass:	. 1		
		Interlayer Thickness:	_ inches	( mm)	•
		Interlayer Color:		·	
		Number of Interlayers:			
	7.		nches (	mm).	
	8.	STC Value:			
	9.	Visible Light Transmittance:			
		Solar Optical Transmittance:		percent.	
	11.	Properties Shading Coefficient	:	•	
	12.	Design Instantaneous Heat Gair	ı:	BTUH/sq.	ft.
G.	Fixe	ed Glass Panels:			
- •		Glass Type:		_	
	2 .	Glass Thickness: inch	 nes (		
		Pieces of Glass: .			
			inches	( mm)	
			<del></del>		•
		Interlayer Color: Number of Interlayers: .		<u> </u>	
	<b>O</b> •	MANUNCT OT THICETTAYETS.	•		

		Overall Thickness: inches (	mm).	
		STC Value:		
	9.	Visible Light Transmittance:		
		Solar Optical Transmittance:	percent.	
		Properties Shading Coefficient:	•	
	12.	Design Instantaneous Heat Gain:	BTUH/sq.	ft.
	77.	in and Orandon I America		
Н.		ion and Spandrel Areas:		
		Glass Type:	•	
		Glass Thickness: inches (	mm).	
		Pieces of Glass:	,	
		Interlayer Thickness: inches		
		Interlayer Color:	•	
	6. 7	Number of Interlayers: Overall Thickness: inches (		
	/ •	Overall Thickness:inches (	mm).	
		STC Value:		
		Visible Light Transmittance:		
			percent.	
		Properties Shading Coefficient:	•	C .
	⊥∠.	Design Instantaneous Heat Gain:	BTUH/sq.	IT.
I.	Gree	enhouses:		
-•		Glass Type:		
		Glass Thickness: inches (	mm) .	
		Pieces of Glass:		
		Interlayer Thickness: inches	( mm).	
	5.			
	7.	Number of Interlayers: Overall Thickness: inches (	mm).	
	8.	STC Value:		
	9.	Visible Light Transmittance:	percent.	
			percent.	
	11.	Properties Shading Coefficient:	•	
		Design Instantaneous Heat Gain:	BTUH/sq. :	ft.
J.	_	lights:		
		Glass Type:	·	
		Glass Thickness: inches (	mm) .	
		Pieces of Glass:		
			( mm).	
		Interlayer Color:	•	
		Number of Interlayers:		
		Overall Thickness:inches (	mm).	
		STC Value:		
		Visible Light Transmittance:	percent.	
		Solar Optical Transmittance:	percent.	
	11.	Properties Shading Coefficient:	•	

	12.	Design Instantaneous Heat	Gain:	BTUH/sq.	ft.
К.	Slo	oed Glazing:			
	1.	Glass Type:		•	
	2.	Glass Thickness:	inches (	mm) .	
	3.	Pieces of Glass:		<del></del>	
		Interlayer Thickness:	inches	( mm)	
			<del> </del>		
		Number of Interlayers:	•		
		Overall Thickness:	inches (	mm).	
		STC Value:			
		Visible Light Transmittanc	e:	percent.	
		Solar Optical Transmittanc		percent.	
		Properties Shading Coeffic			
		Design Instantaneous Heat		BTUH/sq.	ft.
	•	beergn instantanted near		210117 89.	
L.	Bur	glar-Resistant Glazing:			
т.					
		Glass Type: Glass Thickness:	inches (	mm).	
		Pieces of Glass: .	11101105 (		
			inches	( mm)	
		<pre>Interlayer Thickness:</pre> <pre>Interlayer Color:</pre>			•
		Number of Interlayers:		•	
		Overall Thickness:	inches (	mm).	
	0	CTC Value.	inches (	IIIIII <b>,</b>	
		STC Value:  Visible Light Transmittanc		norgont	
		<del>-</del>		• <del>-</del>	
		Solar Optical Transmittanc		percent.	
		Properties Shading Coeffic		•	ᆮᆫ
	12.	Design Instantaneous Heat	Gain:	BTUH/sq.	IT.
Μ.	Bul	let-Resistant Glazing:			
		Glass Type:			
		Glass Thickness:	inches (	mm).	
		Pieces of Glass:		- <del></del>	
		Interlayer Thickness:		( mm)	•
	5.				
		Number of Interlayers:	•		
	7.	Overall Thickness:	inches (	mm).	
	8.	STC Value:	(		
	9.	Visible Light Transmittanc	e:	percent.	
		Solar Optical Transmittanc		percent.	
		Properties Shading Coeffic	ient:	_ porodiio.	
		Design Instantaneous Heat		BTUH/sq.	ft
	•	2022911 Indianicalicate field		21011/04.	
N.	Bla	st-Resistant Glazing:			
	1.	Glass Type:		•	
	2	Class Thickness.	inches (	mm )	

	3.	Pieces of Glass:	
	4.	<pre>Interlayer Thickness: inches</pre>	( mm).
	5.	Interlayer Color:	•
	6.	Number of Interlayers: .	<del></del>
	7.	Overall Thickness: inches (	mm).
	8.	STC Value:	<del></del>
	9.	Visible Light Transmittance:	percent.
	10.	Solar Optical Transmittance:	percent.
	11.	Properties Shading Coefficient:	•
	12.	Design Instantaneous Heat Gain:	$\overline{}$ BTUH/sq. ft.
			<del></del>
Ο.		:	
	1.	Glass Type:	·
	2.	Glass Thickness: inches (	mm).
	3.	Pieces of Glass:	
	4.	<pre>Interlayer Thickness: inches</pre>	( mm).
	5.	<pre>Interlayer Color:</pre>	•
	6.	Number of Interlayers:	
	7.	Overall Thickness: inches (	mm).
	8.	STC Value:	
	9.	Visible Light Transmittance:	percent.
	10.	Solar Optical Transmittance:	percent.
	11.	Properties Shading Coefficient:	•
	12.	Design Instantaneous Heat Gain:	BTUH/sq. ft.

# PART 3 EXECUTION

### 3.1 EXAMINATION

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

## 3.2 PREPARATION

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

#### 3.3 INSTALLATION

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

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

END OF SECTION