

Henderson County Capital Projects

100 North King Street, Suite 206 Hendersonville, North Carolina 28792

Memorandum To:Interested Qualified BiddersFrom:Thad Ninnemann
Henderson County Capital Projects Project ManagerSubject:Addendum #1
Replace Glazing, Gaskets, Caps, and Perimeter Sheet Metal on the
Existing Skylight System @ the Henderson County 95 Courthouse

Date: February 26, 2020

Please see attached:

- 1. Glass Specifications
- 2. Paint Specifications

ARCHITECTURAL GUIDE SPECIFICATION SECTION 08 81 00 GLASS GLAZING

Note to Specifiers:

The specifications below are suggested as desirable inclusions in glass and glazing specifications (section 08 81 00), but are not intended to be complete. An appropriate and qualified Architect or Engineer must verify suitability of a particular product for use in a particular application as well as review final specifications. Oldcastle BuildingEnvelope® assumes no responsibility or liability for the information included or not included in these specifications.

PRODUCTS

Approved Glass Fabricator Glass Description	Oldcastle BuildingEnvelope® FLOAT GLASS			
	1. USA - Annealed float glass shall Quality-Q3. Canada - Annealed float	comply t glass s	with ASTM C1036, Type I, Class 1 (cle hall comply with CAN/CGSB-12.3-M,	ear), Class 2 (tinted), Quality-Glazing.
	2. USA- Heat-strengthened float gla (tinted), Quality Q3, Kind HS. Canad CGSB-12.9-M, Type 2-Heat-Strengt 3. USA - Tempered float glass shall Quality Q3, Kind FT. Canada - Temp Tempered Glass, Class B-Float Glas 4. USA - Laminated glass to comply CGSB-12.1-M, Type 1-Laminated G	ass shall a - Heat hened C comply ered floa s. y with As lass, Cla	comply with ASTM C1048, Type I, Cl -strengthened float glass shall compl lass, Class A-Float Glass. with ASTM C1048, Type I, Class 1 (cl at glass shall comply with CAN/CGSB STM C1172, Canada - Laminated glas iss B-Float Glass.	ass 1 (clear), Class 2 / with CAN/ ear), Class 2 (tinted), -12.1-M, Type 2-
	5. Glass shall be annealed, heat-structure thermal stress and wind loads.	engthen	ed or tempered as required by codes,	or as required to meet
Sealed Insulating Glass (IG)	GENERAL			
vision Gass (Vertical)	 IG units consist of glass lites sepa a primary seal of polyisobutylene (Pl on the application. 	arated by B) and a	y a dehydrated airspace that is herme a secondary seal of silicone or an orga	tically dual sealed with nic sealant depending
	2. USA - Insulating glass units are co ASTM E2190. Canada - Insulating G Alliance (IGMA) to either the IGMAC program to ASTM E2190.	ertified ti lass uni certifica	nrough the Insulating Glass Certificati is are certified through the Insulating (tion program to CAN/CGSB-12.8, or 1	on Council (IGCC) to Glass Manufacturers through the IGMA
	IG VISION UNIT PERFORMANCE CI	HARACI	ERISTICS	
	1. Exterior Lite 1/4" PPG Solarban® R100 on Clear	Neutral	Reflective Low-E #2	
Heat Strengthened	2. Interior Lite 5/16" Laminate - 1/8" Clear - 0.060	" Clear F	VB - 1/8" Clear	
	3. 1/2" Cavity 1/2 inch (Air Fill)			
	4. Performance Characteristics Thermal Winter U-factor/U-value: Summer U-factor/U-value: Solar Heat Gain Coefficient: Shading Coefficient: Relative Heat Gain (Btu/hr-ft²): Light to Solar Gain:	0.29 0.27 0.23 0.27 57 1.78	Optical Visible Light Transmittance: Visible Light Reflectance (outside): Visible Light Reflectance (inside): Total Solar Transmittance: Total Solar Reflectance (outside): Ultraviolet Transmittance:	41% 32% 13% 18% 41% <1%

Contact Oldcastle BuildingEnvelope® at 866-Oldcastle (653-2278) for samples or additional information concerning performance, strength, deflection, thermal stress or application guidelines. GlasSelect® calculates center of glass performance data using the Lawrence Berkeley National Laboratory (LBNL) Window 7.4 program (version 7.4.8.0) with Environmental Conditions set at NFRC 100-2010. Gas Library ID#1 (Air) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass units with air. Gas Library ID#9 (10% Air/90% Argon) is used for Insulating Glass data is from the following sources: 1. LBNL International Glazing Database (IGDB) version 53.0; 2. Vendor supplied spectral data files. Laminated glass data is from the following sources: 1. LBNL International Glazing Database (IGDB) version 53.0; 2. LBNL Optics 6 (version 6.0 Maintenance Pack 1); 3. Vendor supplied spectral data files; 4. Vendor supplied data, 5. Based on vendor testing, clear acid-etched glass performance data is estimated using regular clear glass of equivalent thickness. Thermal values are in Imperial units.

South Florida Weathering	AAMA 2605	AAMA 2604	AAMA 2603	
Color Retention	10 yrs - fade = 5 Delta E	5 yrs - fade = 5 Delta E	lyr - "slight" fad	
Gloss Retention	10 yrs - 50% retention	5 yrs - 30% retention	No specification	
Erosion Resistance	10 yrs -10% loss	5 yrs -10% loss	No specification	
Chalk Resistance	10 yrs - chalk = 8	5 yrs - chalk = 8	1 yr -"slight" chal	
Accelerated Testing	AAMA 2605	AAMA 2604	AAMA 2603	
Salt Spray	4,000 hours	3,000 hours	1,500 hours	
Humidity	4,000 hours	3,000 hours	1,500 hours	
Compliant Systems	AAMA 2605	AAMA 2604	AAMA 2603	
	70% Kynar 500® PVDF	50% Kynar® PVDF	Baked Enamel	