**SECTION 08 56 19 .02**

**PASS WINDOWS**

**(Shannon Series Frameless Pass-Thru Windows)**

[**https://fhc-usa.com/catalogsearch/result/?q=Shannon**](https://fhc-usa.com/catalogsearch/result/?q=Shannon)

1. **GENERAL**
	1. **Summary**
		1. Section Includes
			1. Frameless interior pass-thru sliding service windows.
		2. Related Requirements
			1. Section 01 33 00 – Submittal Procedures
			2. Section 01 70 00 – Execution and Closeout Requirements
			3. [Section 06 20 00 – Finish Carpentry]
			4. [Section 06 20 23 – Interior Finish Carpentry]
			5. [Section 08 80 00 – Glazing]
			6. [Section 08 88 00 – Special Function Glazing]
	2. **References**
		1. Abbreviations and Acronyms

|  |  |
| --- | --- |
| * + - 1. O
 | Fixed Panel Designation (viewed from Clerk’s side) |
| * + - 1. X
 | Sliding Panel Designation (viewed from Clerk’s side) |

* + 1. Reference Standards
			1. ASTM International (ASTM) Publications:

|  |  |
| --- | --- |
| * + - * 1. B241/B241M – 22
 | Standard Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube |

* 1. **Submittals**
		1. Section 01 33 00
	2. **Action Submittals**
		1. Product Data
			1. Manufacturer’s technical product data including:
				1. Description of each product.
		2. Shop Drawings
			1. Dimensioned drawings indicating:
				1. Size, configuration, and fabrication and installation details.
		3. Samples
			1. Manufacturer’s finishes on exposed areas:
				1. Provide 3 samples of each.
		4. Manufacturers’ Written Instructions
			1. Site Storage
			2. Installation
			3. Cleaning
	3. **Closeout Submittals**
		1. Warranty Documentation
			1. Manufacturer’s Product Warranty
		2. Record Documentation
		3. [Keys]
		4. Section 01 70 00
	4. **Quality Assurance**
		1. Manufacturer’s Certificate
			1. Certify products supplied meet or exceed requirements.
	5. **Delivery, Storage and Handling**
		1. Delivery and Acceptance Requirements
			1. Protect materials and components against damage during transit.
			2. Deliver in Manufacturer’s original, unopened, undamaged containers with identification labels intact.
			3. Upon delivery, inspect for damage.
				1. Repair of minor defects and damage subject to Architect’s approval.
				2. Remove damaged and unacceptable parts and replace with new.
		2. Storage and Protection
			1. Store materials to protect from exposure to harmful weather conditions and damage from elements, construction activities, and hazards before, during and after installation.
		3. Handling
			1. Avoid damaging materials and components during handling.
	6. **Site Conditions**
		1. Field Measurements
			1. Take field measurements before fabrication.
				1. Verify actual measurements or openings, and record measurements on shop drawings.
				2. Coordinate fabrication tolerances to insure proper fit.
			2. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.
	7. **Warranty**
		1. Manufacturer Warranty: 2 years
			1. Repair or replace components of components that fail in materials or workmanship within the specified warranty period.
		2. Section 01 70 00
1. **PRODUCTS**
	1. **Manufacturers**
		1. Acceptable Manufacturer
			1. FHC- Frameless Hardware Company

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* + - 1. Substitutions: Not permitted.
	1. **Performance/Design Criteria**
		1. Basis of Design
			1. Frameless Hardware Company LLC, FHC Shannon Series Frameless Pass-Thru Windows used for establishing quality, performance, appearance, including layout, material, attachment method and ease of installation.
				1. Sizes, profiles and dimensions are based on specific types and models, support and express the design concept.
	2. **System Components**
		1. Horizontal Sliding Pass-Thru Assembly ***Width: 72-inches, maximum***
			1. Overhead Track:
				1. Double Track Header:

Hanger Brackets

Rollers:

Concealed

Clamp-on, adjustable assembly

[Fixed Sidelite Header]

* + - * 1. Size: 2-1/2 inches by 2 inches
				2. Extruded aluminum: ASTM B241/B241M 6063-T5.
			1. Bottom Guides and Rail
			2. Hardware: ***Select Push Button or Keyed Push Button.***
				1. [Push Button Lock with Strike

FHC KL49]

* + - * 1. [Keyed Push Button Lock with Strike

FHC KL 50

Thru-Glass Mounted Keyed Lock

Keys]

* + - * 1. Finish: Match Window Assembly.
			1. Accessories:
				1. Rubber Bumpers
			2. Glazing: ***1/4-inch tempered glass is standard; custom options available.***
				1. 1/4-inch tempered glass
				2. Edges: Flat polished
				3. [Section 08 80 00] [Section 08 88 00] ***Add if Contractor supplies glass.***
		1. Model: Shannon

***48”x48”; two sliding panels***

* + - 1. Number: FHC SN4848XXA
				1. Size: 48 inches by 48 inches
				2. Configuration: XX
				3. Finish: Satin Anodized
			2. Number: FHC SN4848XXBA
				1. Size: 48 inches by 48 inches
				2. Configuration: XX
				3. Finish: Brite Anodized
			3. Number: FHC SN4848XXDU
				1. Size: 48 inches by 48 inches
				2. Configuration: XX
				3. Finish: Dark Black/Bronze Anodized

***48”x48”; left fixed panel & right sliding panel***

* + - 1. Number: FHC SN4848OXA
				1. Size: 48 inches by 48 inches
				2. Configuration: OX
				3. Finish: Satin Anodized
			2. Number: FHC SN4848OXBA
				1. Size: 48 inches by 48 inches
				2. Configuration: OX
				3. Finish: Brite Anodized
			3. Number: FHC SN4848OXDU
				1. Size: 48 inches by 48 inches
				2. Configuration: OX
				3. Finish: Dark Black/Bronze Anodized

***48”x48”; left sliding panel & right fixed panel***

* + - 1. Number: FHC SN4848XOA
				1. Size: 48 inches by 48 inches
				2. Configuration: XO
				3. Finish: Satin Anodized
			2. Number: FHC SN4848XOBA
				1. Size: 48 inches by 48 inches
				2. Configuration: XO
				3. Finish: Brite Anodized
			3. Number: FHC SN4848XODU
				1. Size: 48 inches by 48 inches
				2. Configuration: XO
				3. Finish: Dark Black/Bronze Anodized

***36”x48”; two sliding panels***

* + - 1. Number: FHC SN3648XXA
				1. Size: 36 inches by 48 inches
				2. Configuration: XX
				3. Finish: Satin Anodized
			2. Number: FHC SN3648XXBA
				1. Size: 36 inches by 48 inches
				2. Configuration: XX
				3. Finish: Brite Anodized
			3. Number: FHC SN3648XXDU
				1. Size: 36 inches by 48 inches
				2. Configuration: XX
				3. Finish: Dark Black/Bronze Anodized

***36”x48”; left fixed panel & right sliding panel***

* + - 1. Number: FHC SN3648OXA
				1. Size: 36 inches by 48 inches
				2. Configuration: OX
				3. Finish: Satin Anodized
			2. Number: FHC SN3648OXBA
				1. Size: 36 inches by 48 inches
				2. Configuration: OX
				3. Finish: Brite Anodized
			3. Number: FHC SN3648OXDU
				1. Size: 36 inches by 48 inches
				2. Configuration: OX
				3. Finish: Dark Black/Bronze Anodized

***36”x48”; left sliding panel & right fixed panel***

* + - 1. Number: FHC SN3648XOA
				1. Size: 36 inches by 48 inches
				2. Configuration: XO
				3. Finish: Satin Anodized
			2. Number: FHC SN3648XOBA
				1. Size: 36 inches by 48 inches
				2. Configuration: XO
				3. Finish: Brite Anodized
			3. Number: FHC SN3648XODU
				1. Size: 36 inches by 48 inches
				2. Configuration: XO
				3. Finish: Dark Black/Bronze Anodized

***Custom Window:***

***72”x60”, maximum (provide size);***

***fixed panel, left sliding panel, right sliding panel, fixed panel.***

***select finish.***

* + - 1. Number: FHC SNOXXOC
				1. Size: [\_\_ inches by \_\_ inches]
				2. Configuration: OXXO
				3. Finish: [Satin Anodized] [Brite Anodized] [Dark Black/Bronze Anodized]
			2. Number: FHC SNOXOC
			3. Size: [\_\_ inches by \_\_ inches]
			4. Configuration: OXO
			5. Finish: [Satin Anodized] [Brite Anodized] [Dark Black/Bronze Anodized]
	1. **Fabrication**
		1. Fabricate overhead track, and bottom guides and rails of extruded aluminum.
		2. Fabricate to receive glass.
		3. Provide lock and two keys.
1. **EXECUTION**
	1. **Examination**
		1. Verification of Conditions
			1. Examine substrates and supports compliance with installation tolerances and conditions required for proper installation of pass window and identify conditions detrimental to work.
			2. Verify dimensions, tolerances, and method of attachment with other work.
			3. Verify wall opening is ready to receive work.
			4. Proceed with installation after unsatisfactory conditions have been corrected.
	2. **Preparation**
		1. Protection of In-Place Conditions
			1. Exercise care in installing pass windows.
			2. Provide means to protect other work from damage.
	3. **Assembly and Installation**
		1. Assemble and install windows in accordance with manufacturer’s written instructions.
		2. Install windows plumb and level, free of warp or twist.
		3. Secure windows with fasteners.
		4. Adjust pass windows to roll smoothly and stay in position where stopped.
		5. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.
		6. [Keys: Tag to identify associated pass window. Delivery keys to Owner.]
	4. **Field Quality Control**
		1. Inspections
			1. Verify components are installed following manufacturer’s installation instructions.
			2. Verify windows operate smoothly.
			3. Verify finishes are not marred or damaged.
		2. Non-Conforming Work
			1. Adjust.
			2. Remove and replace items that cannot be repaired to satisfaction of Architect.
			3. Inspect.
	5. **Cleaning**
		1. Glass:
			1. Clean and polish in accordance with manufacturer written instructions.
			2. Remove excess dirt, debris and other substances.
		2. Metal Surfaces:
			1. Wash with clean water and mild detergent.
			2. Avoid abrasive chemicals, detergents and implement that may mar or gouge material.
	6. **Protection**
		1. Protect from damage.
			1. Provide temporary protective covering approved by manufacturer.
			2. Remove protective coverings at [Substantial Completion] [Project Completion].
		2. Repair damaged components.
			1. Follow manufacturer’s written recommendations.
			2. If component cannot be restored to like-new condition, provide new component.
			3. Glass: Replace broken, chipped, cracked, or damaged glass.
		3. Restore damaged finishes.
			1. Refinish unit in field or shop.
			2. Reinstall and adjust.

**END OF SECTION**