

Division 8

Section 083000

Thermally broken, wash down ready frame

I. Part 1 – General

A. Section Includes

1. Weiland Inc wash down ready, thermally broken fixed window for complete installation

B. Related Sections

1. Division 16 – Electrical, if glass is heated

C. Submittals

1. Product Data: Completely describing components.
2. Shop Drawings: Showing details of fabrication, installation and dimensions.
3. Installation Instructions: For window.
4. Operating and Maintenance Data: For window.

D. Quality Assurance

1. Installer Qualification: Trained, approved, and licensed window installer. See installation instructions.
2. Manufacturer Qualification: Must have a minimum of 25 years of experience providing industrial and cold storage solutions.

E. Delivery, Storage, and Handling

1. Unless otherwise stated, windows shall be package and shipped in a manner that is best for the manufacturer's process and standards.
2. Manufacturer shall do everything in power to ensure product arrives in a timely, safe manner that minimizes damages.
3. Windows shall be uncrated upon arrival at job site by job site personnel to ensure product is not damaged.

F. Warranty

1. Manufacturer shall offer a limited lifetime warranty on the craftsmanship of the stainless steel frame. Scratches that cannot be felt by fingernail are not warranted.
2. Poly-coating shall be warranted by the manufacturer of the product. Poly-coated clear, tempered glass can have small (1/4" or less) bubbles that persist. If there are more than 10 bubbles per 6 inch square, manufacturer will warrant the poly-coating to be replaced.
3. Clear, tempered insulated glass units shall be warranted by manufacturer's warranty.

II. Part 2 – Products

A. Manufacturers

1. Weiland Inc wash down ready, thermally broken fixed window manufactured by Weiland, Inc.
2. Substitutions: No substitution will be considered unless written request for approval has been submitted by the bidder and has been received by the architect at least ten (10) days prior to the date for receipt of bids.

B. Window Frames

1. Fixed windows shall be constructed of 16 ga., 304-4 finish stainless steel. The frames shall be in two parts, a “front” and a “back”. Both sides shall be sloped. The glazing shall be set back from the wall 1-1/2” on the front side. The slope on the front side shall be 45°. The slope on the back side shall vary depending on wall thickness and glazing thickness but to be no more than 60° and no less than 39°. There shall be no ledge along the walls for liquids or dust to settle.
2. Viewable dimensions shall be 1” smaller on all sides than the “in-clear” dimensions. Rough opening dimensions shall be ½” larger on all sides than the “in-clear” dimensions. Out-to-Out dimensions shall be 3-1/2” larger than the “in-clear” dimensions on all sides. “In-clear” dimensions will be assumed on all orders unless otherwise stated.

C. Glazing Options

1. For “in-clear” dimensions 48”W x 48”H or less glazing can range from ¼” to 1-9/16” thick.
2. For “in-clear” dimensions larger than 48”W x 48”H the glazing cannot be ¼” thick.
3. No fixed windows shall have “in-clear” dimensions larger than 96”W x 48”H.
4. Glazing may be Polycarbonate, Abrasion Resistant Polycarbonate, clear, tempered heated (120V) insulated double pane glass, laminated two sheet plate glass, clear, tempered double pane insulated glass, or clear, tempered triple pane insulated glass. Any of the clear, tempered glass can be poly-coated by Weiland with a 7-mil safety film so that in the event the glass breaks it cannot fall out of the frame.

D. For Heated windows only

1. Heated windows can be no bigger than 36” in one of the dimensions
2. They can be ½” thick to 1” thick
3. They can be poly-coated
4. They require 120V power & 13.3 watts/square foot

III. Execution

A. Installation Conditions

1. Prior to installing, ensure walls are properly prepared to receive the window. Rough opening is ½" larger than the "in-clear" dimension on all sides.
2. Ensure wall depth is as ordered

B. Installation Instructions

1. Prepare wall with 3" of bucking on all sides
2. Use silicone or polyurethane caulk around the perimeter of the buck opening
3. Install front trim section (with glazing pre-mounted)
4. Shim to plumb and level as necessary
5. Optional-fill frame cavity with poly-urethane foam (by other)
6. Peel back the corners of the VHB tape from the back trim
7. Ensure glazing is free of grease and dust
8. Lightly press back trim into place and adjust the fit as desired
9. Remove the remaining film from the VHB tape and press firmly
10. Use desired fasteners to mechanically attached the frame to the wall
11. Use silicone or polyurethane caulk that is formulated for windows to fill any voids and to seal back trim to glazing (if required)

C. Maintenance and Operations

1. Do not spray directly with high pressure stream washer
2. Wash weekly or as needed with mild detergent and rags
3. Remove and replace caulking as required
4. Check electrical connections on heated window units