**SECTION XX XX XX**

**HVAC ACCESS DOORS**

Window Technologies Inc. dba WinTech

Access Doors

SD Series Access Doors

**PART 1 – GENERAL**

1. **SUMMARY**
	1. Section Contents
		1. Foam filled access doors
	2. Related Sections
		1. Sealant and Caulking – Section 07900
2. **TEST AND PERFORMANCE REQUIREMENTS**
	1. Test Units and Test Criteria
		1. Test units should follow ASTM guidelines and the minimum size tested must be 36” x 72” with 8” x 8” viewports and Allegis K2 hardware installed and locked.
			1. Viewport and hardware are must be subject to the same air and water tests requirements as the door
			2. Blocking off viewport or hardware during the test is not allowed
			3. Air leakage and/or water penetration around the viewport and/or hardware is not allowed
		2. Testing shall be performed by an AAMA qualified independent testing agency
	2. Outswing Door (Negative Pressure) Performance Requirements
		1. Air Infiltration
			1. Must be less than .1 cfm/SF of unit per ASTM E283 at negative static air pressure different of 20” Water Column (104.2 PSF)
		2. Water Resistance Test
			1. No water leakage per ASTM E331 at negative static air pressure different of 20” Water Column (104.2 PSF)
	3. Inswing Door (Positive Pressure) Performance Requirements
		1. Air Infiltration
			1. Must be less than .1 cfm/SF of unit per ASTM E283 at positive static air pressure different of 20” Water Column (104.2 PSF)
		2. Water Resistance Test
			1. No water leakage per ASTM E331 at negative static air pressure different of 20” Water Column (104.2 PSF)
3. **SUBMITTALS**
	1. Product Data
		1. Submit manufacturer’s specifications, certified test reports, and product data showing compliance with Section 1.2
		2. Submit standard access door details
4. **DELIVERY, STORAGE, AND HANDLING**
	1. Store doors in a vertical position off the ground
	2. Protect doors against damage from construction and other hazards prior to, during, and after installation
5. **WARRANTIES**
	1. Door Material and Workmanship
		1. Submit a written warranty against defects in material and workmanship for one (1) year from date of final shipment
	2. Finish
		1. Organic Finish
			1. Warranty period will be for ten (10) years from the date of final shipment for all organic finishes meeting the AAMA 2604 standard

**PART 2 – PRODUCTS**

1. **MANUFACTURERS**
	1. WinTech SD Series Access Door manufactured by WinTech, Inc., Monett, MO
		1. SD Series Access Doors to be as follows:
			1. Choose an item.

Or

* + - 1. Choose an item.
1. **MATERIALS**
	1. Aluminum Extrusion
		1. 6063-T6 alloy and tempered
		2. Extrusion tolerances should be in accordance with the Aluminum Associations “Drafting Standards for Aluminum Extruded and Tubular Products”.
	2. Door Panel Foam
		1. Provide access door with door panel cavity filled with two-part isocyanate rigid foam
		2. Foam blowing agent: HFO 1233zd(E)
		3. Foam density must be 2.3 pcf
		4. Foam K-Factor, Initial (BTU-in/hr/ft2/Fo): 0.151
		5. Foam R-Value must be 6.67 per inch of door depth
	3. Door Panel Skins
		1. Interior Skin Material: Choose an item.
		2. Exterior Skin Material: Choose an item.
	4. Viewport – Factory Installed
		1. Provide factory glazed and installed aluminum framed viewport in access doors
		2. Viewport size to be: Choose an item.
		3. Viewport glazing should be:
			1. Choose an item.
			2. All insulated glass should have DuraLite high performance flexible spacer system
	5. Door Hardware
		1. Locking handles to be: Choose an item.
	6. Door Hinges
		1. Provide manufacturer’s standard Choose an item.
			1. Qty or length of hinges determined by manufacturer
	7. Weather-Strip
		1. Provide continuous extruded closed cell EPDM sponge gasket. Only one splice per door is permitted
		2. Gasket must be tested per ASTM D 1056
		3. Gasket must be UL157 and FDA compliant
	8. Thermal Barrier
		1. Provide manufacturer’s standard thermal barrier construction where thermally broken doors are specified
		2. Thermal barrier is to be continuous around the frame and door panel perimeter
		3. Thermally broken frames should be “stacked” during the pour and debridge process
	9. Fasteners
		1. Provide aluminum, stainless steel, or other corrosion resistant material as warranted by the manufacturer. Fasteners should be compatible with aluminum
		2. Provide concealed fasteners wherever possible
2. **FABRICATION**
	1. General
		1. SD Series Access Door shall be provided per the manufacturer’s standard fabrication and comply with specifications.
	2. Aluminum Door Material
		1. All aluminum door frame and door panel extrusions will have a minimum wall thickness of .070”
		2. Any mechanical fasteners, components, and/or hardware should not bridge the thermal barrier
	3. Aluminum Door Frame
		1. Frame members are to be mechanically fastened
		2. Frame joints should be mitered and joined neatly
	4. Aluminum Door Panel
		1. Door panels are to mechanically fastened with two crimped corner keys per corner
	5. Aluminum Viewport
		1. Viewport frame should be mechanically fastened
		2. Frame joints should be coped and joined neatly
		3. Interior viewport closure should be mitered and with corner keys crimped
		4. Viewport frame and closure should sandwich the door panel with closure mechanically fastened to the viewport frame using #8-15 sheet metal screws.
		5. Viewport frame should be taped and sealed to the door panel during installation
		6. Viewport Glazing
			1. Glass should be wet sealed to the viewport frame using polyurethane sealant
3. **ACCESS DOOR FINISHES**
	1. Door Frame, Door Panel, & Viewport Paint
		1. Provide manufacturer’s standard polyester AAMA 2604 powder coating
		2. Color: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Exterior Door Panel Skin Paint
		1. Provide manufacturer’s standard polyester AAMA 2604 powder coating
		2. Color: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. Interior Door Panel Skin Paint
		1. Provide manufacturer’s standard polyester AAMA 2604 powder coating
		2. Color: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PART 3 – EXECUTION**

1. **INSPECTION**
	1. Job Conditions
		1. Verify all openings are dimensionally within allowable tolerances, plumb, level, and clean.
		2. Verify all openings are the correct size to allow for installation of new doors per the manufacturer’s installation instructions
		3. Do not install doors into unsatisfactory openings
2. **INSTALLATION**
	1. Install access doors in accordance with the manufacturer’s installation instructions, approved submittals, and other project documents. Doors must be installed plumb, level, and true.
3. **ADJUST AND CLEAN**
	1. After installation, doors should be inspected and adjusted to provide smooth operation.
		1. Locks should be adjusted to ensure door panel is flush with the frame.
	2. After installation, leave doors clean and free of labels, dirt, sealant, etc.
	3. Future door servicing should follow the WinTech Maintenance Schedule for Doors in the Access Door Installation Instructions.

**END OF SECTION**