

SECTION 10.22.19**DEMOUNTABLE WALLS
SKY WALLS - HORIZON SYSTEM****PART 1 - GENERAL****1.01 SUMMARY**

A. This section includes:

1. Full height center-glazed, butt-jointed partition system.
2. Full height doors.

B. Related work in other sections (may include):

1. Glazing - Section 08800
2. Door hardware - Section 08710
3. Wood doors - Section 08200

1.02 Performance

- A. Glass wall system is not load bearing
- B. Glass wall system does not create vertical load on ceiling.
- C. All glass to be safety tempered, as required by Code.

1.03 Submittals

A. Product Data: Submit Manufacturer's product data for glass wall system including:

1. Manufacturer's standard details.
2. Data on finishing, hardware and accessories.
3. Recommendations for maintenance and cleaning of exposed finish surfaces.

B. Shop drawings for each all glass entrance system are required, including:

1. Layout and installation details.
2. Elevations at 1/4-inch scale.
3. Hardware mounting locations.
5. Anchorage and reinforcement.
6. Glazing details.
7. Acceptable tolerances for floors, ceilings and all adjacent surfaces

C. Samples for approval:

1. Submit samples of profiles, showing dimensions and finish.

1.04 **QUALITY ASSURANCE**

- A. Manufacturer's qualifications: Provide all glass wall systems produced by a firm experienced in manufacturing wall systems that are similar to those indicated for the project and that have a record of successful performance.
- B. Single source responsibility: Obtain all glass wall systems from a single manufacturer, to ensure full compatibility and warranty of parts.
- C. Design criteria: The drawings indicate the size, profile and dimensional requirements of all glass wall system required and are based on the specific types and models indicated.
- D. Safety glass standard: Provide tempered glass components that comply with ANSI Z97.1 and testing requirements of CPSC 16 CFR 1201 Category II.
- E. Installer qualifications: Manufacturer's own installer or installer trained and approved by the manufacturer experienced in manufacturer's wall system.

1.05 **DELIVERY, STORAGE, AND HANDLING**

- A. Deliver all glass wall system and related components in the manufacturer's original protective packaging. Do not deliver wall system components until the site is ready for their installation, including, but not limited to, after finish painting, and finished ceilings and finished flooring have been installed.
- B. Inspect components for damage upon delivery. Unless minor defects in metal components can be made to meet the Architect's specifications and satisfaction, damaged parts should be removed and replaced.

1.06 **PROJECT CONDITIONS**

- A. **Field Measurements:** Confirm heights and widths by accurate field measurement before fabrication. Show recorded measurements on shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of the work and possible damage to the finished product.

PART 2 - PRODUCTS

2.01 **ACCEPTABLE MANUFACTURERS**

- A. Horizon Glass Wall System, as provided by:

Sky Walls
 244 Fifth Avenue, Suite N-247
 New York, New York 10001
 646-919-5662
 sales@skywalls.com
 www.skywalls.com

2.02 **MATERIALS**

- A. Profiles
 - 1. Aluminum: Provide profiles and framing fabricated from aluminum extrusions of alloy and temper recommended by manufacturer for use intended and required for application of finish indicated, but not less than strength and durability properties specified in ASTM B 221 for 6063-T5.

- B. Glass
 - 1. Provide flat, fully tempered glass in thickness indicated for walls and doors. Comply with requirements of ASTM C 1048 for FT (fully tempered), Condition A (uncoated surfaces), Type 1 (transparent) Class 1 (clear) glass. Provide products of thickness indicated that have been tested for surface and edge compression according to ASTM C 1048 and for impact strength according to 16 CFR Part 1201 for Category II materials.
 - 2. Thickness: 1/2" for finished ceiling/soffit heights 8'-0" to 10'-0"
 - 3. Edge treatments: Provide machine ground and polished edges for exposed glass edges of doors and butting glass edges.
 - 4. Glazing: Furnish and install monolithic VHB glazing adhesive.

- C. Hardware
 - 1. Sky Walls standard hinges, pivots, sliding track hardware, floor stops, latchsets, locksets and/or door pulls, closers (each as required); US32D finish.
 - 2. Latchsets, locksets, door pulls as specified.

2.04 **FABRICATION**

- A. General: Fabricate all glass entrance components to designs and sizes indicated. Size of door and profile requirements of fittings and hardware are indicated on the drawings.
 - 1. Locate and provide holes and cutouts in glass to receive hardware before tempering glass. Do not permit cutting, drilling or other alterations to glass after tempering.
 - 2. Fabricate work to accommodate required fittings, hardware, anchors, reinforcement, and accessory items.

- B. **Prefabrication:** Complete fabrication, assembly, finishing, hardware application and other work to the greatest extent possible before shipment to the project site. Disassemble components only as necessary for shipment and installation.

2.05 **METAL FINISHES**

- A. US-28 Clear Satin Anodized Aluminum

PART 3 - EXECUTION**3.01 EXAMINATION**

- A. Examine substrates and supports with the installer, present for compliance with requirements indicated, installation tolerances and other conditions that affect the installation of all wall system components. Correct unsatisfactory conditions before proceeding with the installation.
 - 1. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Install wall system and associated components in accordance with manufacturer's instructions. Installation to be performed by the manufacturer's own installers or installers trained and approved by the manufacturer.
 - 1. Verify system to be level, plumb, true and secure.

3.03 ADJUSTING

- A. Adjust doors and hardware to provide a tight fit at meeting points and at gaskets for smooth operation.
- B. Hardware: Adjust operating hardware to ensure proper operation. Set, seal, and grout floor pivots and floor boxes (if applicable). Coordinate cylinder installation.

3.04 CLEANING

- A. Clean profiles, glass and door surfaces after installation.

3.05 PROTECTION

- A. General Contractor to Institute protective measures required throughout the remainder of the construction period to ensure that materials do not incur any damage or deterioration, until the time of acceptance.

END OF SECTION

LEED Information

Sky Walls glazing systems may contribute to LEED Certification for Interior Design & Construction per the credit sections below:

Energy & Atmosphere

Credit 1.1 Optimize Energy Performance – Lighting Power

Glass walls provide potential for maximization of daylighting and reduced energy consumption and lighting loads.

Materials & Resources

Credit 2 Construction Waste Management

Components of demountable system are recyclable, thereby diverting materials from disposal in landfills.

Credit 3.1 Materials Reuse

Components salvaged may be reused in appropriate applications, thereby reducing demand for new materials.

Credit 4 Recycled Content

Per the below, Sky Walls aluminum extrusions contribute to the recycled content credit:

70% Primary aluminum billet
30% Secondary aluminum billet

The secondary aluminum billets are produced using 10% post-consumer scrap and 60% post-industrial / pre-consumer scrap

Under the guidelines of USGBC LEED v2.2, the recycled content of the aluminum extrusions is:
 $(0.70 \times 0) + (0.30 (0.10 + \frac{1}{2} \times 0.60)) = 12\%$

Credit 5 Regional Materials

Sky Walls profiles are manufactured in eastern Pennsylvania and most raw materials are extracted in Canfield, OH. Glass is sourced locally. As a domestically-based manufacturer, Sky Walls contributes to this credit for projects located throughout the Northeast US.

Credit 7 Certified Wood

Wood doors may be specified FSC-certified.

Indoor Environmental Quality

Credit 4.4 Low-Emitting Materials – Composite Wood and Agrifiber Products

Wood doors may be specified using no added urea formaldehyde.

Credit 8.1 Daylight and Views - Daylight

Sky Walls glazing systems can be utilized to maximize daylighting and views.