

STARWALL USA MOVABLE WALLS SPECIFICATIONS

PART 1 - GENERAL

1.01 SUMMARY

This specification defines the Starwall floor-to-ceiling movable wall system or equal which is designed to provide enclosed office spaces in an open plan environment and the ability to modify or reconfigure the office space to meet changing office requirements.

1.02 REFERENCES

ASTM-E90-90, Acoustical Sound Transmission Class

1.03 SYSTEM DESCRIPTION

A. The specified system shall be for interior wall application, fully re-locatable and non-progressive both solid and glass walls for front, side and back walls of offices.

B. Design and Performance Requirements:

Type – The system shall be a demountable type partition as opposed to “unitized”(pre-assembled panel type), constructed of components that are field assembled and capable of being modified in the field by qualified installation professionals.

Modification should include but not be limited to; changes of wall finish from glass to solid or solid to glass, panel height changes of greater than 6”, frames and wallboard should be capable of being field dimensioned and or replaced without replacement of entire panel.

Acoustics – The system's solid panel unit shall produce a minimum sound transmission resistance rating of STC 40/41 for Classic and Finesse series and STC 47/49 for Nxtwall series products.

Adjustability – The system shall provide minimal vertical adjustability of ¾” without field modification as well as the ability to field modify for height variances greater than 12” for changing facility applications. Panel must provide widths in 1” increments and with ability to be field modified to accommodate varying width changes that may be needed.

Applications – The system shall be capable of running from deck to deck, on top of flooring, raised flooring, and to ceiling grid as required. Product offering should provide option for walls to achieve a 1 hour fire rating.

Support of Technology – System must be capable of providing accessibility vertically and horizontally within panel as well as hard wire and quick connect power capability.

1.04 SUBMITTALS

- A. Upon receipt of customer's floor plan, Starwall shall create a computer-generated (LOGITRAM / CAD/REVIT) floor plan of the desired Starwall USA office for customer's approval.
- B. Drawings submittals should show elevation drawings for installations.

1.05 QUALITY ASSURANCE

- A. The specified Starwall USA movable wall system shall be designed, developed, manufactured, inspected, installed and serviced in accordance with the manufacturer's standards.
- B. Sound Transmission:

Independent laboratory certification shall be available which certify that the standard solid Starwall USA Classic and Finesse wall panels provide an STC rating of 40/41 with the NxtWall Extend and Excel Panels capable of meeting a minimal 45/47STC in accordance with ASTM E90-90.

- C. Installation Certification Program

Manufacturer must have a documented installation certification program that is available to distributors, dealers, facilities, independent installation firms allowing product to maintain its manufacturer's warranties.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Packing, Shipping, Handling, and Unloading:

Starwall USA products shall be shipped in cartoned or un-cartoned for bulk shipment.

All orders shipped to any destination shall be F.O.B. origin, freight prepaid, and risk of loss or damage shall pass to Buyer upon delivery to carrier. Starwall or its distributor shall determine the method and agency of transportation to be used.

Customer-directed or expedited shipments (Air Freight, Federal Express, etc.) shall be prepaid and billed at actual cost.

- B. Acceptance at Site:

In the event that special F.O.B. destination terms are agreed to by Starwall or delivery is made on Starwall owned or leased, customer or authorized representative is responsible

for noting any freight damage or shortage on the freight bill of lading at time of delivery and must notify Starwall within five (5) days of delivery day of any such damage or shortage.

Assistance in a concealed damage claim on an F.O.B. destination shipment will be provided by Starwall USA only if the product has been immediately unpacked and both the carrier and Starwall USA have been promptly notified of resultant damage so the proper inspection can be made.

C. Storage and Protection:

When shipment is delayed by the buyer, Starwall reserves the right to place the goods in storage at customer's risk and cost.

All terms and conditions of the sale including but not limited to invoicing and payment, will continue as if the product had been shipped to a Buyer specified destination; except that title remains with Starwall USA and that Starwall USA reserves the right to modify payment terms to assure recovery of any additional cost incurred.

1.07 PROJECT/SITE CONDITIONS

A. Environmental Requirements and Existing Conditions:

Note specific environmental and/or site conditions under the following topic headings which are vital in producing an accurate layout and specification for appropriate Starwall product:

- a. Inspect The Site
- b. Measurements
- c. Site accessibility including dock access.
- d. Ceilings / Floors description /Existing or adjoining wall descriptions.

1.08 SEQUENCING AND SCHEDULING

- A. For Installation Sequencing and Scheduling, refer to the Starwall Installation Guide for Starwall Floor-To-Ceiling movable walls Panels or contact Starwall Customer Service.

1.09 WARRANTY

- A. The warranty on all Starwall™ aluminum profiles and accessories is ten (10) years.

For complete Warranty description, contact Starwall Customer Service.

1.10 MAINTENANCE

- A. For proper maintenance of Starwall USA products, contact Starwall Customer Service for appropriate literature and/or instructions.

1.11 PRODUCT RECYCLING

Products demountable nature shall provide for easy and low cost recycling by its owner. Component parts shall when disassembled be immediately ready for recycling containers. All wall/panels, framing, glazing, etc., should not be constructed or fused, screwed, stamped, etc., with materials that cannot be readily recycled or accepted at recycling centers.

Product shall provide option for use of regional material (within 500 miles of installation site) of up to 50% of constructed product including glass, wall board and insulation to allow end-users opportunity to secure LEED points for regional material as needed.

PART 2 - PRODUCT

2.01 MANUFACTURER

- A. Starwall movable wall floor-to-ceiling wall system is manufactured by Starwall USA, Kalamazoo, MI (www.starwallusa.com).

2. MATERIALS AND SYSTEM SPECIFICATIONS:

- 2-1 The partitions have to be movable or demountable and non progressive.
- 2-2 Sound transmission rating to be an estimated STC 40/41 for Classic and Finesse series walls and STC45/47 for NxtWall series.
- 2-3 The Finesse and Classic partition structures to be extruded aluminum creating overall thickness of 78 mm or 3 1/16 “.
- 2-4 The Finesse and Classic partition structure is made of 6 aluminum profiles only plus one aluminum reversible door frame and two accessories (steel brackets).
- 2-5 The NxtWall partition structure is made of 4 steel profiles and a steel panel clip.
- 2-6 The Nxtwall partition structure is made of 24 gauge galvanized cold recycled steel with an overall thickness of 3 5/8” thickness. With an ability to create a nominal thickness of 4 7/8” thick with wall board applied.
- 2-7 Angles and corners are multidirectional angles: any angle can be achieved with Starwall multidirectional angles.
- 2-8 The aluminum profiles paint shall be painted or anodized in accordance to the industry standards.
- 2-9 The extruded aluminum and steel partition frame must allow the assembly of an oversized partition height of up to 6 meters or 20ft.

- 2-10 The system can be secured to the walls, floors and ceilings with anchors, tech screws, double face tape, velcro or Caddy clip.
- 2-11 A foam or urethane sound insulation seal is recommended between the partition component and floor, ceiling and walls.
- 2-12 Electrical, voice and data cables are to run horizontally and vertically within the partition system.

3. PANELS INSERTS OR GLAZING SPECIFICATIONS :

- 3-1 Option for Melamine clad MDF, vinyl, olephyn or paper wrapped gypsum panels on each side (or similar) 13mm or ½” thick.

The panel finish will be thermo fused melamine, laminated vinyl, fabric, wood, PVC, or other material.

Panels shall be available in any width from 6" to 4'. Special fire rated steel panels available in 24" width.

To compensate for irregularities in a floor or ceiling, panels and glass shall have adjustments of 3/4" up and/or down.

- 3-2 Inside insulation Roxul type 46 mm or 1 ½” thick mineral wool, Therma Fibre Sound attenuation batts, or HealthGuard sound insulation produced with PET fibre.
- 3-5 Panel must provide for option of Single or double glazing, ¼” or 6 mm to 8 mm thick.
- 3-6 Options for venetian blinds integrated in the double glazing (Easy Blind System are from Starwall). Venetian blinds can be inserted in the double glass panels. These blinds controlled with a command button installed on the aluminum frame next to the blinds for the opening and the closing of the blinds.

4. DOOR FRAME AND DOORS :

- 4-1 Starwall Finesse and Classic door frames are made of aluminum with an acoustic seal. The door frames are ready to be assembled with reversible lift-off hinges: universal and allow the choice on site of a right or left opening door, inside or outside swing.
- 4-2 Finesse and Classic doors are :

Of aluminum frame with same panels or glazing insert.

Standard wood door painted, melamine, veneer or laminated, aluminum framed with glass, 45mm or 1 ¾ " thick. No bevel and mortises are needed on the doors.

Glass doors (10mm or ½" thickness) with specific hinges.

Sliding wood or glass doors

4-3 Accessories include:

3 lift-off hinges, Starwall type.

Any standard latch set, lock set or latch set with separate bored key lock, Schlage Apollo are standard specification.

5. TYPES OF PARTITION :

- Full height partition modules can be :
- Solid panel insert with glazing / solid transom
- Solid panel insert with glazing
- Full height glazing
- Glazing with solid transom
- Solid panel insert with glazed transom
- Full height solid panel insert
- Tackable acoustical solid panels

PART 3 - EXECUTION

3.01 EXAMINATION/INSPECTION

Before installing the Starwall movable wall system, a re-inspection of the installation site shall be made by the contractor to re-verify vital information used to specify the initial product required, such as ceiling height, floor conditions, and other physical characteristics that can affect an installation.

3.02 INSTALLATION

Five basic steps comprise Starwall installation process:

- Top track & bottom track
- Aluminum studs, angles and door frames
- Panels and Electrical
- Glazing
- Doors and Trims