



CLEAR-DIVISIONS KWP- FOLD Product Specification

PART 1 – GENERAL SPECIFICATIONS

1.01 WORK INCLUDED

- A. Moveable glass wall system shall be furnished, installed, and serviced by wall manufacturer's authorized distributor, in compliance with the architectural drawings and specifications contained herein.

1.02 RELATED WORK

- A. Structural Support: Structural support system required for suspending the moveable glass wall shall be designed, installed, and pre-punched by others, in accordance with ASTM E 557 and manufacturer's shop drawings.
- B. Opening Preparation: Proper and complete preparation of the moveable glass wall system opening shall be by others in accordance with ASTM E 557, and shall include floor leveling; plumbness of adjoining permanent walls; substrate and / or ceiling tile enclosures for the track system; and the painting and finishing of trim and other materials adjoining the head and jamb areas of the moveable glass wall. Refer to a copy of the shop drawings for additional details.

1.03 SYSTEM DESCRIPTION

- A. The moveable glass wall system shall consist of Paired Panels that are top supported by one (1) carrier per panel riding on an overhead track.
- B. The moveable glass wall system shall consist of nominal 3/8" [10] or 1/2" [12.7] thick tempered glass panels suspended from a continuous aluminum glass retainer located at the top and bottom of each panel.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified in writing by the moveable glass wall manufacturer as qualified to install the manufacturer's systems for work similar in material, design, and extent to that indicated for this project.
- B. The moveable glass wall panel shall utilize clear tempered glass per ASTM C 1048-04.
- C. The moveable glass wall shall be installed by the manufacturer's authorized distributor in accordance with ASTM E 557.
- D. The glass wall panel construction and finish materials shall consist of Class A rated materials in accordance with ASTM E 84.

1.05 REFERENCES

- A. ASTM C 1036-01: Standard Specification for Flat Glass.
- B. ASTM C 1048-04: Standard Specification for Heat Treated Flat Glass.
- C. ASTM E 557: Architectural Application and Installation of Operable Partitions.

1.06 SUBMITTALS

- A. Manufacturer shall provide written technical information and related detail drawings, which demonstrate that products comply with contract documents for each type of moveable glass wall system specified.
- B. Manufacturer shall provide detailed engineering drawings featuring track plan, panel elevation, horizontal and vertical details and beam punching template as required.
- C. Manufacturer shall provide written instructions specifying the proper operation and maintenance of the moveable glass wall system.
- D. Manufacturer shall provide a color selector demonstrating the manufacturer's selections of the specified hardware finish.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Panels shall be shipped in a completely enclosed wooden crate with high-density polystyrene blocks positioned between each panel to protect glass and hardware during delivery, storage and handling.
- B. Panels shall be stored on edge and above the floor on cushioned blocking in a dry and ventilated area, protected from humidity and temperature extremes.

1.08 SEQUENCING / SCHEDULING

- A. Beam Punching: Manufacturer shall provide beam punching template drawing detailing the anchor locations for the suspended track system for Drop Rod Mounting, as required for the fabrication and installation of structural overhead support by others.
- B. Track Installation: Scheduling of moveable glass wall track installation shall occur after structural overhead support has been properly and completely fabricated and installed by others.
- C. Panel Installation: Moveable glass wall panel installation shall occur after fixed wall substrate construction is properly and completely installed by others, as required to protect panels from ongoing adjacent construction.

1.09 WARRANTY

- A. Manufacturer shall warrant each moveable glass wall system and its hardware components to be free from defects in material and workmanship for a period of two (2) years from the date of delivery to the original purchaser, when installed by an authorized KWIK-WALL distributor. (Glass is specifically excluded from the warranty.)

PART 2 – PRODUCT SPECIFICATIONS**2.01 ACCEPTABLE MANUFACTURER**

- A. Moveable glass walls shall be CLEAR-DIVISIONS KWP-FOLD Paired Panels as manufactured by KWIK-WALL Company.

2.02 PANEL CONSTRUCTION

- A. Panel Dimensions: Standard panel dimension shall be a nominal 1 7/16" [36.5] thick.
- B. Horizontal Top and Bottom Rails: Top and bottom rails shall be continuous one-piece extrusion manufactured of structural grade aluminum as engineered by HAWA® with removable end caps. Rails shall utilize a cam lock feature to provide positive mechanical attachment to glass. (Passive friction type or adhesive applied rails shall not be allowed for safety reasons.)
- C. Bottom Rail Locking System: Each bottom rail glass retainer shall contain (select):
 1. *Standard Operable Floor Lock*: consisting of a Face-activated foot lock located on one (1) side of the panel that engages a recessed spring loaded dust-proof strike to provide stability and security when the moveable glass wall system is setup in the extended position.

2. **Optional Keyed / Thumb Turn Lock:** consisting of key operated cylinders on both sides or key operation on one (1) side and thumb turn operation on opposite side.

- D. Glass: Panels shall be glazed with 3/8" [10] or 1/2" [12.7] tempered glass that is manufactured in accordance with ASTM C 1036-01, ASTM C 1048-04, and ANSI Z97.1. Glass finish shall be (select):
1. *Standard Clear:* consisting of clear tempered glass (select):
 - a. 3/8" [10] thick glass for Panel Heights up to 9'-0" (2.74 m).
 - b. 1/2" [12.7] thick glass for Panel Heights up to 10'-0" (3.05 m).
- E. Panel Weight: Maximum panel weight shall not exceed 240 lbs. calculated at 7.35 lbs. / ft.² .
Fixed Pivot Panel shall not exceed 330 lbs. Calculated at 7.35 lbs. / sq. ft.

2.03 OPERATION

- A. Operation shall Paired Panels, which are top supported by one (1) carrier per panel on an overhead aluminum track.

2.04 STACK ARRANGEMENTS

- A. Stack Type: Panel storage configuration shall be (select):
1. *Standard Center Stack:* consisting of panels stacking on center to the wall's installed position.
- B. Stack Quantity: Panels shall be stored at one end of the wall or both ends.

2.05 FINISHES

- A. Hardware Finish: Panel hardware including horizontal rails shall be finished of (select):
1. *Standard Finish:* Clear Anodized Aluminum.
- B. Pull Handle Finish: Handle finish shall be (select):
1. *Standard Finish:* consisting of Stainless Steel Satin Effect finish.

2.06 PERIMETER TRIM AND SEALS

- A. Trim and Seals shall consist of (select):
1. *Standard Trimless:* consisting of 3/8" [10] or 1/2" [12.7] tempered glass with a sanded / beveled edge, resulting in a minimal groove appearance between adjacent glass panels.

2.07 CLOSURE SYSTEMS

- A. Initial Closure System: The lead pair (the first panels exiting the stack) shall intersect vertically against a rigid wall surface utilizing a centering pin with dust-proof strike recessed in permanent wall, as accomplished by a lead panel that does not use any vertical jamb to affect initial closure. Trail edge of lead pair shall contain a foot-operated floor lock.
- B. Final Closure System: The final closure panel (the last panel at the stack end) shall provide a method for affecting final closure of the moveable glass wall system. The type of final closure panel shall be (select):
1. *Standard Fixed Pivot Panel Closure:* consisting of a panel utilizing top and bottom pivots that allows the panel to pivot 90° in both directions and be used to affect final closure, and provides access thru the moveable glass wall system when it is setup in the extended position.

2.08 PANEL ACCESSORIES

- A. Accessories shall be compatible with other accessories and options, furnished by Kwik-Wall as noted on submitted shop drawings.

2.09 TRACK SYSTEM

- A. Track Type: The operable wall track system shall be:
1. *Standard Hinged Pairs Aluminum Track:* extruded from structural aluminum alloy, which prohibits deterioration caused by rust or corrosion. The aluminum track shall have a durable anodized clear satin

finish, which resists color fading and flaking. The track shall utilize grooves and interlocking steel pins for positive alignment of adjacent track sections. The track joints shall be reinforced overhead by a heavy-duty steel bracket made of hot-rolled, 3/8" [10] thick plate steel. Aluminum track shall include an integral nut slot to accept a hardened steel square nut to facilitate attachment of each steel all-rod and splice brackets to the overhead structural support.

2.10 CARRIER SYSTEMS

- A. Carrier: Each panel shall be top supported by one (1) carrier utilizing 5/8" diameter pendant bolts. Each carrier shall contain permanently-lubricated, ball bearing steel wheels with high-density polymer tires as required for ease of panel movement.

2.11 SUSPENSION SYSTEMS

- A. Mounting Systems: The KWP-FOLD track system shall be supported by (select):
 1. *Standard Drop Rod Bracket Mount*: consisting of steel drop rod brackets with drop rods, consisting of adjustable rods of grade 2, 3/8" [10] diameter threaded steel all-rod provided with 3/8" [10] serrated steel nuts.
 2. *Optional Direct Mount*: consists of #16 x 3" [76] wood screws for attachment to a level overhead structural (wood) support.

PART 3 – EXECUTION

3.01 INSPECTION

- A. Proper and complete preparation of the moveable glass wall system opening shall be by others in accordance with the architectural drawings, manufacturer's shop drawings and ASTM E 557. Any deviation of the actual opening from these specifications shall be called to the attention of the architect prior to the installation of the operable wall.
- B. Deficiencies in the moveable glass wall opening shall be corrected by others prior to installation of the moveable glass wall system.

3.02 INSTALLATION

- A. The moveable glass wall system shall be installed by Kwik-Wall's authorized distributor.
- B. The moveable glass wall shall be installed in accordance with Kwik-Wall's written instructions, shop drawings, and ASTM E 557 installation guidelines.

3.03 ADJUSTING AND CLEANING

- A. The moveable glass wall panels and track system shall be adjusted and cleaned in accordance with Kwik-wall's written instructions.

3.04 PROTECTION

- A. The moveable glass wall panels shall be stored in the stacked (retracted) position prior to acceptance by the owner's representative.

3.05 DEMONSTRATION

- A. Kwik-Wall's authorized distributor shall demonstrate proper operation and explain proper and necessary maintenance requirements of the moveable glass wall system to the owner's representative.

For additional information contact:

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Note:

Due to ongoing research and development, some variations may occur in product specifications.

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