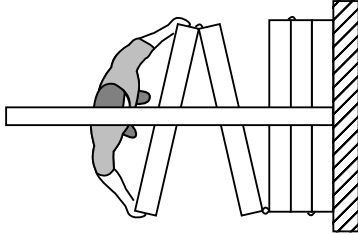


SERIES 642F SPECIFICATIONS

Firewall Paired Panels

PRODUCT OVERVIEW:



One Hour Fire Rated
Top Supported
Center Stack
Paired Panels
Manually Operated
Maximum Opening Height: 24'2" [7.366]
Maximum Opening Width: Unlimited
STC Ratings: 51, 54

Select for Durability & Fire Protection: These rugged steel panels resist daily wear and tear and have a one-hour fire rating. They are an excellent choice for meeting rooms, heavy-use facilities, or wherever local codes require a fire rated partition.

Standard Features: Steel frame, 4" [100] nom. thickness, no vertical trim, one-piece steel face, retractable top and bottom seals.

Paired Panels: Select for wall-to-wall space division. Panels are hinged in groups of two, allowing fast setup. They may be stacked at either or both ends of the track or in a "pocket".

How to Obtain: Hufcor partitions are sold, installed, and serviced by factory-trained local authorized Distributors in the United States and by Licensees and Distributors outside the U.S.A.

Delivery: Panels are custom built for your specific project. Lead times vary due to seasonal fluctuations (average 6-8 weeks from receipt of final dimensions). Check with your Distributor for the current schedule.

Warranty: Track and panels are guaranteed for **two years** against defects in material and workmanship.

"Standard" Product Features and Benefits:

Look for these features when comparing similar products.

- Feature:** One-hour fire rated
Benefit: Complies with local code requirements.
- Feature:** Fire and sound rated
Benefit: Fire protection with no loss of sound control.
- Feature:** One piece steel face
Benefit: Optimum acoustics; no unsightly horizontal butt joints.
- Feature:** No vertical trim
Benefit: Provides a monolithic look.
- Feature:** Quick-set retractable top & bottom seals
Benefit: Retractable seals accommodate out-of-level floor conditions; provide constant force for consistent sound control and stability when the seals are set. When retracted, nothing drags on the floor or track when the panels are moved. Panels can be "locked" in place.
- Feature:** Minimum 110 lb. [50 kg] seal force when seals are set.
Benefit: Maintains panel stability and optimum acoustics even on carpet or other porous floor materials.
- Feature:** Waist high seal activator
Benefit: Fast, easy seal activation without bending or stooping.
- Feature:** Removable operating handle
Benefit: Prevents unauthorized operation.
- Feature:** Low profile hinges
Benefit: Safety and aesthetics - no unsightly hinges protruding from the panel faces.
- Feature:** Expanding Jamb Closure (Lever Closure) Panel
Benefit: Exerts 250 lbs [113.4 kg] of force against the fixed wall. The compression creates tight panel joints for optimum sound control.
- Feature:** Interlocking vertical seal
Benefit: Helps panel-to-panel alignment and prevents sound leaks between panels.



Optional accessories enable the standard product to be modified for maximum versatility. See details provided or just ask your Hufcor representative for the features you want.

GENERAL SPECIFICATIONS/SERIES 642F

Firewall Paired Operable Partitions

PART 1 - GENERAL

1.01 DESCRIPTION

A. General

1. Furnish and install operable partitions and suspension system.
Provide all labor, materials, tools, equipment, and services for operable walls in accordance with provisions of contract documents.

1.02 RELATED WORK BY OTHERS

- A. Preparation of opening will be by General Contractor. Any deviation of site conditions contrary to approved shop drawings must be called to the attention of the architect.
- B. All header, blocking, support structures, jambs, track enclosures, surrounding insulation, and sound baffles as required in 1.05 Quality Assurance.
- C. Prepunching of support structure in accordance with approved shop drawings.
- D. Paint or otherwise finishing all trim and other materials adjoining head and jamb of operable partitions.

1.03 SUBMITTALS

- A. Complete shop drawings are to be provided prior to fabrication indicating construction and installation details. Shop drawings must be submitted within 60 days after receipt of signed contract.

1.04 FIRE RESISTANCE

- A. Product shall be Listed by a recognized testing, classification and follow-up agency as a one-hour Special Purpose Fire Door Assembly, after testing for fire resistance per UL 10B.
- B. The listing shall include all variations of panel configuration, tracks, hardware, end conditions, options, finishes, and pass doors contained in project design.

1.05 QUALITY ASSURANCE

- A. Preparation of the opening shall conform to the criteria set forth per ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions
- B. The partition STC (Sound Transmission Classification) shall be achieved per the standard test method ASTM E90.
- C. Noise isolation classifications shall be achieved per the standard test methods ASTM E336 and ASTM E413
- D. Noise Reduction Coefficient (NRC) ratings shall be per ASTM C423.
- E. Fire resistance classification: UL 10B
- F. Fire hazard classification: ASTM E84
- G. The manufacturer shall have a quality system registered to the ISO 9001 standards.

1.06 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Proper storage of partitions before installation and continued protection during and after installation will be the responsibility of the General Contractor.

1.07 WARRANTY

- A. Partition shall be guaranteed for a period of two years against defects in material and workmanship.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Upon compliance with all of the criteria specified in this section, Manufacturers wishing to bid products similar to the product specified must submit to the architect 10 days prior to bidding complete data in support of compliance and a list of three past installations of products similar to those listed. The submitting manufacturer guarantees the proposed substituted product complies with the product specified and as detailed on the drawings.

2.02 MATERIALS

- A. Product to be top supported Series 642F one hour fire rated paired panels as manufactured by Hufcor Inc.
 1. Panels shall be nominally 4" [100] thick and to 48-1/8" [1222] in width.
Optional: Panels shall be 58"-1/2" [1486] in width.
 2. Panel faces shall be of one-piece rollformed min. 20 ga. [.89] steel laminated to gypsum backing and assembled to welded steel frame.
 3. Face shall wrap around the vertical panel edges and require no vertical trim.
 4. Frames shall be of min. 16 ga. [1.5] painted steel.

5. Vertical panel interlock shall be of tongue and groove configuration.
The lead panel shall seal against adjacent wall surface with recessed or surface jambs.
 6. Horizontal top seals shall be retractable, provide 1" [25] nominal operating clearance, and exert 50 lbs. [22.68 kg] of upward force when fully extended.
 7. Horizontal bottom seals shall be retractable, provide 1-1/2" [38mm] nominal operating clearance, and exert 60 lbs. [27.21 kg] downward force when fully extended.
 8. Horizontal trim shall be of aluminum.
 9. Hinges on basic panels shall be of steel and project no more than 1/4" [6] beyond panel faces. Each pair of panels to have a minimum of three hinges.
- B. Weight of the panels shall be 9.5-10.9 lbs. per sq. ft. [46.00-53.2 kg. per sq. m] based on options selected.
- C. Suspension system:
 1. **For panel weights to 900 lbs. [408 kg]:**
Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by min. 3/8" [10] dia. threaded steel hanger rods. Track trim shall be of steel.
 - a. Each panel shall be supported by one 4-wheeled carrier. Wheels to be of hardened steel ball bearings encased with molded polymer tires.
 2. **For panel weights over 900 lbs. [408 kg]:**
Track shall be of 1/4" [6] formed steel, painted black. Track trim to be of steel. Track shall be connected to the structural support by pairs of min. 1/2" [13] dia. threaded steel hanger rods.
 - a. Each panel shall be supported by one 4-wheeled carrier. Wheels to be of steel with precision ground radial bearings. Bearings are inserted into a steel tire. Tire rim fully captures the bearing.
 3. Plenum closure (by others): Design of plenum closure must permit lifting out of header panels to adjust track height. Plenum closure required for optimum sound control.
- D. Finishes
 1. Face finish shall be **(select as required)**:
 - a. Factory applied standard reinforced vinyl fabric with woven backing, weighing not less than 15 oz. per lineal yard. Color shall be selected from manufacturer's standard color selectors.
 - b. Standard upgrade fabrics:
 - (1) Factory applied vertical ribbed carpet (N.R.C. .20-.30)
 - (2) Factory applied stain resistant fabric
 - c. Optional:
 - (1) Customer selected (requires factory approval and **must have UL label and 15 or less flame spread**)
 - (2) Unfinished for field decoration (**any vinyl, fabric, carpet, or other materials added to the panels must be approved by the local Fire Marshal**).
 2. Frame color shall be black
 3. Horizontal trim shall be **(select one)**:
 - a. Lamb's Wool (standard)
 - b. Brown (standard)
 - c. Gray (standard)
 - d. Custom powder coated (upgrade)
 4. Track trim shall be primed off white.
- E. Available Accessories/Options
 1. ADA compliant pass door of the same thickness and construction as the basic panels.
 - a. Automatic door closer
 - b. Door lock
 - c. Self-illuminated exit sign
 2. Inset chalk/writing/projection surfaces
 3. Inset tackboards
 4. Inset eraser pocket
 5. Intersecting partitions
 6. Inset chair rail pan (for field installation of chair rail).
 7. Pocket doors
 8. Field sound test

2.03 OPERATION

- A. Panels shall be manually moved from the storage area, positioned in the opening, and seals set.

- B. Retractable Horizontal Seals
 1. Retractable horizontal seals shall be activated by a removable quick-set operating handle located approximately 42" [1067] from the floor in the panel edge.
 2. All retractable seals in each hinged panel group shall be operated simultaneously.
 3. Seal activation requires approximately a 190 degree turn of the removable handle.
- C. Final partition closure to be by expanding jamb which compensates for minor wall irregularities and provides a minimum of 250 lbs. [113.4 kg] seal force against the adjacent wall for optimum sound control. The jamb activator shall be located approximately 45" [1143] from the floor in the panel face and be accessed from either side of the panel. The jamb is equipped with a mechanical rack and pinion gear drive mechanism and shall extend 4"-6" [100-152] by turning the removable operating handle.
- D. Partition shall terminate in (select one):
 1. Wall recesses not to exceed 1-1/4" [32] in depth
 2. Surface wall jams not to exceed 1-3/8" [35] protrusion
- E. Stack/Store Panels
 1. Retract seals with removable operating handle and move to storage area. Panels may be stored at either or both ends of the track or in a pocket.

Program (NVLAP) and in accordance with ASTM E90 and ASTM E413 Test Standards. Partition shall have obtained an STC rating of ____ (select those required): 51, 54

1. Complete, unaltered written test report is to be made available upon request.

PART 3 - EXECUTION

- A. Installation.

The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings, manufacturer's standard printed specifications, instructions and recommendations, and one-hour fire Listing.
- B. Cleaning
 1. All track and panel surfaces shall be wiped clean and free of handprints, grease, and soil.
 2. Cartoning and other installation debris shall be removed to onsite waste collection area, provided by others.
- C. Training
 1. Installer shall demonstrate proper operation and maintenance procedures to owner's representative.
 2. Operating handle and owners manuals shall be provided to owner's representative.
 3. Upon completion, submit authorized Oversize Certificate as specified by testing, classification, and followup agency.

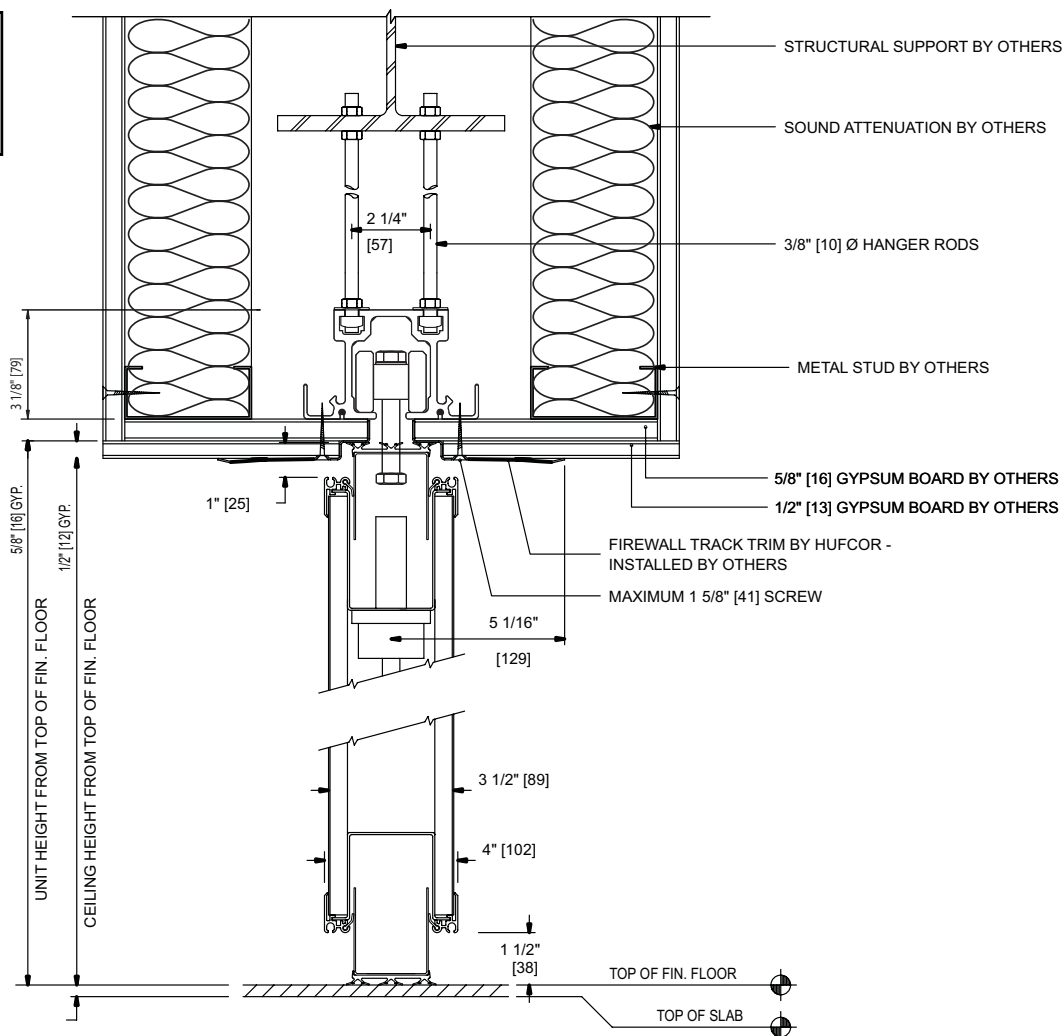
2.04 ACOUSTICAL PERFORMANCE

- A. Acoustical performance shall be tested at a laboratory accredited by the U.S. Dept. of Commerce, National Institute of Standards and Technology, under the National Voluntary Laboratory Accreditation

VERTICAL SECTION

Header construction by others. Must meet or exceed one hour fire rating.

Type 40 Aluminum track shown. Standard for weights to 900 lbs. [408 kg].



No Scale

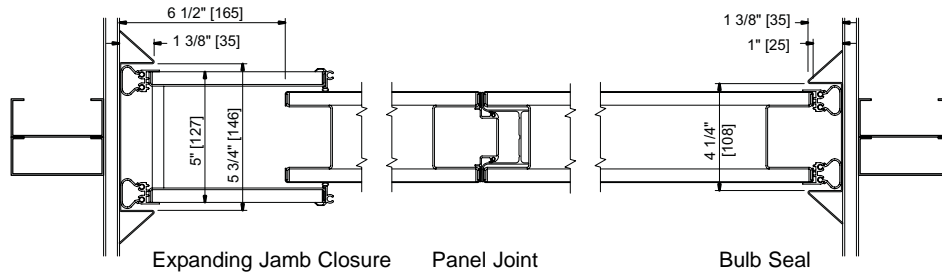


Firewall Paired Operable Partitions

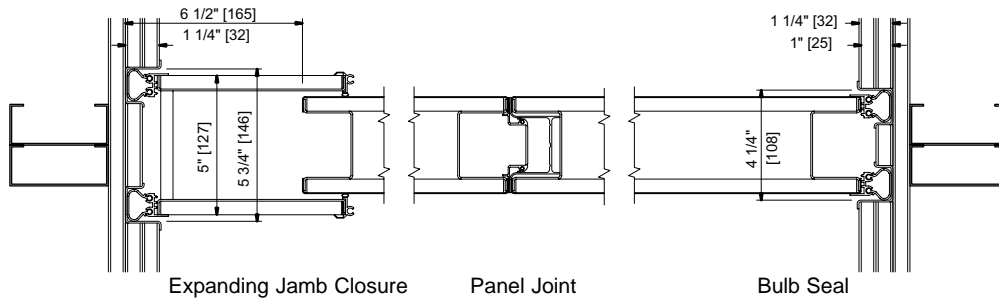
HORIZONTAL SECTIONS

Solid blocking required at both ends to withstand 250 lbs. [113.4 kg] of lateral force.

Final partition closure using surface wall jambs.

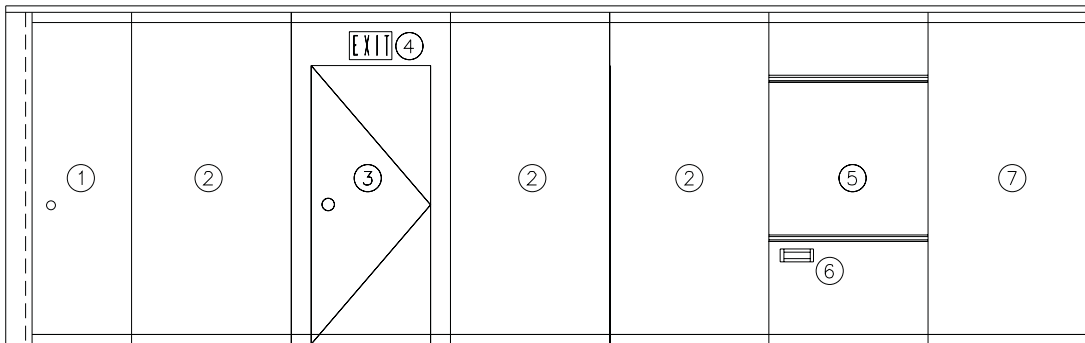


Final partition closure using wall recesses.



OPTIONS & ACCESSORIES

ELEVATION



- Expanding Jamb Closure panel.** Expanding jamb exerts 250 lbs. [113.4kg] force against adjacent wall for optimum sound control.
- Basic panel**
- ADA compliant pass doors** - Single 3/0 x 7/0 [914 x 2132]. Of the same construction, thickness, and finish as the basic panels. Push/pull latching handle. Options include key lock and automatic door closer. No threshold is required.
- Exit Sign** - self-illuminated.
- Work Surfaces** 4'0" [1219] high x panel width, recessed, mounted approx. 30" [762] above the floor:
 - Inset chalkboard and projection/writing surfaces.
 - Tackboards of 2mm cork board covered with textured vinyl fabric (from Hufcor standard color selector).
 - Chalk/marker tray (standard on chalk and projection/writing boards).
- Recessed Eraser Pocket** (8" x 2" x 1-1/4" deep [203 x 50 x 31]).
- Lead panel** with bulb seal to prevent sound leaks at adjacent wall.

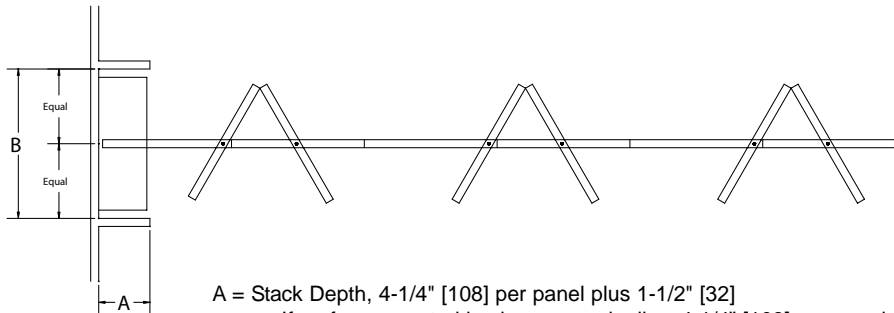
Firewall Paired Operable Partitions

LAYOUT OPTIONS

STACK DIMENSIONS

The following stack depth and width dimensions are based on standard construction with vinyl faces. Optional construction and/or face covering may increase stack depth requirements.

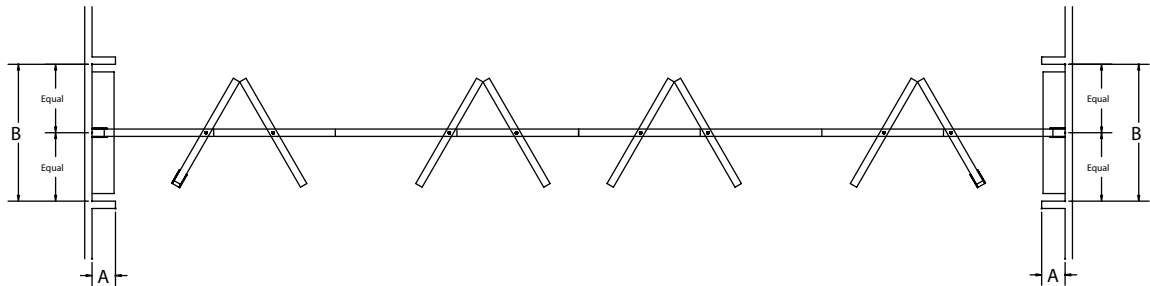
Single Opening



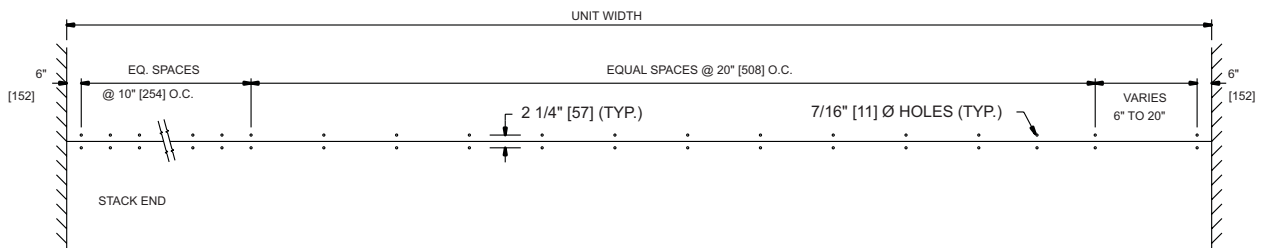
A = Stack Depth, 4-1/4" [108] per panel plus 1-1/2" [32]
 If surface mounted jambs are used, allow 4-1/4" [108] per panel plus 1-3/8" [35].
 Optional panic hardware will add to the depth of the stack. Please contact your Hufcor distributor for assistance.

B = Stack Width:
 No Pocket: Panel width + 3" [76].
 Pocket without pocket doors: Panel width + 8" [204]

Optional - Bi-parting (same stack formula at each end as single)

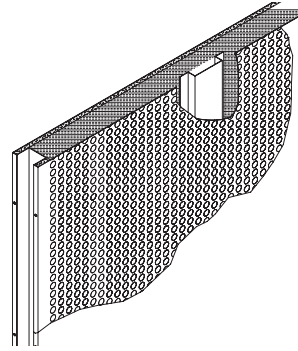


HANGER ROD LAYOUT - For Type 40 Track



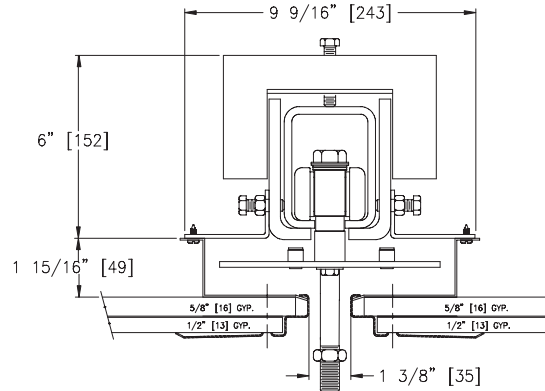
OPTIONS

MODEL SELECTOR		
STC	Hanging Weight	
	Lbs./Sq. Ft.	Kg./Sq. M
51	9.5	46.00
54	10.9	53.2



Optional Perforated Steel Faces: Available on one side of basic panels.
 18 ga., 3/32" dia. [2.38].
 staggered 5/32" [3.97] centers.
 46 holes/sq. in., 33% open area.
 Finish with fabric, carpet, or leave unfinished. Provides 48 STC and .65 NRC ratings.

OPTIONAL TRACK



Type 11 Steel Track -
 Required for panel weights
 over 900 lbs. [408 kg].
 Track trim shall be of
 steel, primed off white.

Worldwide headquarters:

Hufcor Inc.
 P.O. Box 591
 Janesville, WI USA 53547-0591
 1-800-542-2371 ext. 395; 1-608-756-1241
 FAX: 1-608-758-8253
 E-mail: info@hufcor.com
 Internet address: <http://www.hufcor.com>

Hufcor reserves the right to improve
 and change product without notice.

Select Hufcor products are also manufactured in the U.S. at:
 Hufcor/Airwall, Inc., 8739 E. Artesia Blvd., Bellflower, CA 90707
 1-562-634-3116 FAX 1-562-630-8203