

**dormakaba HSW-FT Horizontal Sliding Walls – Guide Specification**

**dormakaba HSW Horizontal Sliding Wall Systems** are ideal for any application where total vision is required. Whether the purpose is to link or separate, add security, provide noise or thermal insulation, or remove barriers, dormakaba HSW sliding wall systems are available in a variety of configurations to meet your design requirements.

dormakaba HSW sliding wall partitions can be flexibly adapted to a wide range of customer requirements. The beauty of the system is that floor guides are not required, allowing the use of one flooring material throughout and without breaks.

Designed for each individual application and precision-made, dormakaba HSW sliding glass wall partitions are equally suitable for both renovated and newly constructed buildings.

Available versions in this Section:

**● HSW-FT - Fully framed horizontal sliding walls with thermal-break frame profiles**

Other dormakaba sliding wall versions include:

● HSW-DRS - Fully glazed horizontal sliding walls with top and bottom DRS rails in a variety of sizes and finishes

● HSW-ES - Fully glazed horizontal sliding walls with top and bottom rails 4-1/8 inch (105mm) in a variety of sizes

● HSW-GP - Fully glazed horizontal sliding walls with point-fixed track roller carriers engaging in standard track

● HSW-R - Fully framed horizontal sliding walls for toughened/laminated safety glass or double glazing

● FSW-ES - Fully glazed folding walls with top and bottom rails 4-1/8 inch (105mm)

● FSW-C - Center hung, fully glazed sliding walls with top and bottom rails 4-1/8 inch (105mm)

We recommend you consult with your dormakaba representative, who can be contacted through dormakaba USA, Inc.; (800) 523-8483; email: specifications@dormakaba.com; website: [www.dormakaba.com](http://www.dormakaba.com). dormakaba USA products appear in the following CSI MasterFormat specifications sections:

dormakaba Interior and Glass Solutions

08 17 53 Interior Glass Door Assemblies: VISUR; TENSOR, Beyond, MUTO Premium / MUTO Comfort; RS120 / RS120 SYNCHRO; DRS120

08 41 26 All-Glass Entrances and Storefronts: Rail Fittings; Patch Fittings, Headers, and glazing fittings

10 22 15 Fixed Glass Panel Partitions: PURE; PURE Enclose; Privé; Fusion;

10 22 39 Folding Partitions, Glass: FSW ES, C

10 22 43 Sliding Partitions, Glass: HSW DRS, ES, R; FT; GP, R

dormakaba Entrances

08 42 29 Automatic Entrances, Swinging: ED100/ED250; ED400; ED400-IG; ED700

08 42 29 Automatic Entrances, Folding: ED1200

08 42 29 Automatic Entrances, Sliding: ESA100/ESA100T; SA200/ESA200T; ESA300/ESA300T; ESA400; ESA500

08 42 29 Automatic Sliding Interior Entrances: MAGNEO

08 42 43 ICU/CCU Entrances: ICU300 / 300T; ICU1200

CRANE Revolving Doors

08 42 33 Revolving Door Entrances: 1000 Series; 2000 Series; 3000 Series; 4000 Series; KTC Series

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SECTION 10 22 43 – SLIDING GLASS PARTITIONS

1. GENERAL
	* + 1. SUMMARY
				1. Section includes sliding thermally-broken framed glass panel partitions.
				2. Related Requirements: Related project requirements can be found in the following documents:

Section 05 50 00 "Metal Fabrications" for overhead supports that attach glass panel partition tracks to structure.

Section 28 13 00 "Access Control" for security access system providing control for door access and intrusion detection systems interfacing with glass panel partition door controls.

* + - 1. REFERENCE STANDARDS

Specifier: If retaining References article, edit the list below to include only those references in the edited section.

* + - * 1. American Architectural Manufacturers Association (AAMA): [www.aama.org](http://www.aama.org):

AAMA 611 Voluntary Specification for Anodized Architectural Aluminum

* + - * 1. ASTM International (ASTM): [www.astm.org](http://www.astm.org):

ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar

ASTM B221/ASTM B221M Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass

ASTM C1172 Standard Specification for Laminated Architectural Flat Glass

ASTM E90 Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

ASTM E413 Classification for Rating Sound Insulation

ASTM E557 Guide for the Installation of Operable Partitions

* + - * 1. Builders Hardware Manufacturers Association (BHMA): [www.buildershardware.com](http://www.buildershardware.com):

ANSI/BHMA A156 Series

* + - * 1. Code of Federal Regulations

16 CFR 1201 Safety Standard for Architectural Glazing Materials

* + - * 1. International Code Council (ICC): [www.iccsafe.org](http://www.iccsafe.org):

ICC A117.1 Accessible and Usable Buildings and Facilities (ANSI)

* + - * 1. U.S. Architectural & Transportation Barriers Compliance Board: [www.access-board.gov](http://www.access-board.gov):

Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities

* + - 1. ADMINISTRATIVE REQUIREMENTS
				1. Coordination:

Coordinate installation of glass panel partitions with installation of floor, wall, and ceiling construction to comply with substrate tolerance requirements of partition manufacturer.

Coordinate installation of anchors and secondary structural members indicated on approved glass panel partition shop drawings and specified in other sections.

* + - * 1. Preinstallation Conference: Conduct conference at Project Site.
			1. ACTION SUBMITTALS
				1. Product Data: For each glass panel partition and door component specified, including:

Glass panels.

Rails and top track.

Door hardware and accessories.

* + - * 1. Shop Drawings: For fixed glass panel partitions.

Include plans, elevations, sections, and details. Provide numbered panel installation sequence.

Show locations and requirements for tracks, bracing, blocking, and attachments to other work.

Indicated stacking arrangements and clearances.

* + - * 1. Hardware Schedule:

Submit hardware schedule for each door opening.

Include catalog cuts if not shown on shop drawings.

* + - * 1. Samples for Verification: For each exposed component including hardware, for each color and finish selected, of size indicated below:

Glass: Units 12 inches (300 mm) square.

Exposed Rail and Track Members: Not less than 6 inches (150 mm) long.

Hardware: One of each type of exposed door hardware items.

Specifier: If required by authorities having jurisdiction, add delegated design requirement for projects requiring seismic bracing designed by Contractor's qualified professional engineer.

* + - 1. INFORMATIONAL SUBMITTALS
				1. Qualification Data: For qualified installer.
				2. Warranty: Sample of unexecuted manufacturer warranty.
			2. QUALITY ASSURANCE
				1. Installer Qualifications: Experienced Installer equipped and trained for installation of glass panel partitions required for this Project with record of successful completion of not less than five projects of similar scope.
				2. Single Source Responsibility: Provide glass panel partitions and associated hardware by a single manufacturer through a single source.

Specifier: Retain below for large or complex projects where added expense of mockup is justified. Typically treat approved mockup as part of finished work.

* + - * 1. Mockups: Provide mockup consisting of initial sections of tracks, frames, and glass panels with operating doors and hardware, in location as directed by Architect. Proceed with work upon approval of mockup by Architect.
			1. WARRANTY

Specifier: Verify that warranty provisions of other products meet those offered by dormakaba.

* + - * 1. Special Manufacturer's Warranty: Standard form in which manufacturer agrees to repair or replace components of glass panel partitions that demonstrate deterioration or faulty operation due to defects in materials or workmanship under normal use within warranty period specified.

Warranty Period: [Two] years date of Substantial Completion.

1. PRODUCTS
	* + 1. MANUFACTURERS

Specifier: Retain option for substitutions below when required for project.

* + - * 1. Basis-of-Design Product: Provide sliding glass panel partitions manufactured by **dormakaba USA Inc**.; email: specifications@dormakaba.com; website:[www.dormakaba.com](http://www.dormakaba.com), [or comparable products of other manufacturer approved by Architect in accordance with Instructions to Bidders and Division 01 General Requirements].
				2. Source Limitations: Obtain glass panel partition components through one source from a single manufacturer.
			1. PERFORMANCE REQUIREMENTS

Specifier: If required by authorities having jurisdiction, add delegated design requirement and seismic performance requirements for projects requiring seismic bracing designed by Contractor's qualified professional engineer.

Specifier: Retain "Accessibility Standard" Paragraph below if sliding wall incorporates operable door to which requirements apply.

* + - * 1. Accessibility Standard: Comply with applicable provisions in ADA-ABA Accessibility Guidelines for Buildings and Facilities] [and] [ICC A117.1] [requirements of authorities having jurisdiction].
				2. Acoustical Performance: Provide glass panel partition tested by qualified testing agency as follows:

Sound-Transmission Requirements: Tested for laboratory sound-transmission loss performance according to ASTM E90, determined by ASTM E413, and rated for not less than STC indicated.

Specifier: STC and OITC may vary based upon glass panel selections; consult dormakaba representative for details.

Sound Transmission Class (STC), ASTM E 90:

Framed partition: STC 27.

Specifier: **dormakaba HSW-FT** is an Elite Line custom model using framed tempered glass with thermally-broken frame profiles. Frames accommodate insulating glass units and are equipped with weatherproof interlocking multi-lip seals.

* + - 1. GLASS PANEL PARTITIONS
				1. Exterior Horizontal Sliding Glass Panel Partitions: Fully-framed top-hung stackable sliding glass panel partition with thermally-broken frame profiles, perimeter seals, insulating glass [, and equipped with pivoting door panels where indicated].

Basis of Design: dormakaba Horizontal Sliding Wall HSW-FT.

Stacking Arrangements: As indicated on Drawings.

Stacking Operation: Manual.

Partition Top Track Rail: Aluminum extrusion designed for operation, size, and weight of framed glass panels, with factory-finished head closure trim and seals.

Sliding Panel Carriers: Center-mounted, self-balancing trolley system designed for operation, size, and weight of glass panel door consisting of stainless steel components with vinyl roller surfaces.

* + - * 1. Frames, General: Four-sided aluminum extrusion frame components, thermally broken, in types, sizes, and mounting locations recommended by manufacturer for fixed and pivoting glass panel types, sizes, and operation shown.

Frame Configuration:

Top Rail: 2-piece, 4-15/16 inch (126 mm) frame with double insulating strips and automatic extending rubber seal.

Bottom Rail: 5-1/16 inch (128 mm).

Vertical Stiles: 3 inch (77 mm) aluminum extrusions, with snap-in glass stops.

Rail Covers: Formed metal with snap-on face and end caps, of material and finish as follows:

Specifier: Retain one of two subparagraphs below and edit as required for Project.

Aluminum, clear anodized.

Aluminum, powder coated, <match Architect's custom color> <insert color>.

Locking System: Mounted on bottom rail, engaged by use of interlocking floor slide bolt [and face-mounted slide bolt].

* + - * 1. Partition Substructure: Modular extruded aluminum I-beam with associated threaded rod, struts, brackets, plates, and fasteners designed for continuous support and rigid bracing of partition top track and adjustable following installation of partition to maintain partition within operating tolerances specified by manufacturer.
			1. PIVOTING PANELS

Specifier: Retain this article and one of two pivoting panel options below if fixed end panels pivot to act as operable door. Show location and swing direction on Drawings.

* + - * 1. Pivoting Single Panel: Single action framed glass panel matching fixed partition panel material and thickness; size and swing as indicated on Drawings.
			1. MATERIALS
				1. Aluminum: ASTM B221 (ASTM B221M), with strength and durability characteristics of not less than Alloy 6063-T5.
			2. FINISHES

Specifier: Edit this article to correspond to sliding wall fitting finishes selected above.

* + - * 1. Aluminum Finish:

Clear anodic finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.

Powder Coat: Manufacturer's standard thermosetting polyester or acrylic urethane powder coating with cured-film thickness not less than 1.5 mils (0.04 mm), in color selected by Architect from manufacturer's full range.

Specifier: dormakaba can provide a wide array of applicable hardware options for glass panel partitions. Consult with dormakaba representative for additional options and for selection of hardware items based upon functions and glass panel weights.

* + - 1. HARDWARE
				1. Concealed Floor Closers and Top Pivots: Center hung; BHMA A156.4, Grade 1. Provide cement cases, arms, bottom insert, mounting brackets, cover plates, and accessories.

Basis of Design: dormakaba, [BTS75 Series] [BTS80 Series] Floor Concealed Door Closers.

Swing: Single or double acting as indicated on Drawings[, and positive dead stop] , [and fixed hold-open].

Opening Force: Comply with interior door operating force of authorities having jurisdiction for [accessibility requirements] [and] [egress doors].

Exposed Component Finish: [Metallic painted aluminum] [Metallic painted, as selected by Architect from manufacturer's full line] [Painted, match Architect's custom color] [Main arm plated, as selected by Architect from manufacturer's full line].

Specifier: A wide variety of dormakaba decorative operating trim designs are suitable for use with dormakaba swinging doors. Pulls and handles can be any number of lengths and attachment points. Some popular combinations are stated below for your convenience. Contact your dormakaba representative for additional assistance.

* + - * 1. Pulls and Handles: [One-sided] [Back-to-back].

Design: Vertical bar, [13-3/4 inch (350 mm)] [28-3/8 inch (720 mm)] [48-13/16 inch (1240 mm)] [69-1/4 inch (1760 mm)].

Basis of Design: dormakaba, Ladder Pull.

Design: [Specifier insert design] [As selected by Architect from manufacturer's standard designs].

Specifier: Retain one of two "Lock Cylinder" paragraphs below.

* + - * 1. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver; BHMA A156.5, Grade 1, permanent removable cores; with face finish matching lockset[, keyed to master key system].
				2. Lock Cylinders: As specified in Section 08 71 00 "Door Hardware."
				3. Weather Stripping: [Pile] [Brush] type; replaceable without removing door panels from pivots.
			1. GLASS PANELS
				1. Glass Panels, General: Provide glass panels that comply with 16 CFR 1201, Category II requirements for safety glazing. Permanently mark glazing with certification label of the SGCC.

Glass and Door Panel Thickness: Thickness required for size of panel based upon manufacturer's written recommendations, but not less than 3/8 inch (10 mm).

Specifier: Retain one or more of the following glass type selections and edit to comply with Project requirements. If utilizing more than one type of glass, indicate glass type locations on Drawings. dormakaba sliding glass walls accommodate a wide variety of standard and textured glass and custom glass treatments that are available.

HSW-FT panels can accommodate glazing units from 3/8 to 7/8 inch (9.5 to 22 mm); pivoting panels accommodate 3/8 or 1/2 inch (9.5 or 12 mm) units.

* + - * 1. Fully Tempered Clear Float Glass [GL#\_\_]: ASTM C1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3; thickness 5/16 inch [8 mm] 1/2 inch [13 mm].
				2. Fully Tempered Ultraclear (Low-Iron) Float Glass [GL#\_\_]: ASTM C 1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3, with visible light transmission of not less than 91 percent; thickness 5/16 inch [8 mm] 1/2 inch [13 mm].
				3. Fully Tempered Tinted Float Glass [GL#\_\_]: ASTM C1048, Kind FT, Condition A, Type I, Class 2, Quality-Q3; thickness 5/16 inch [8 mm] 1/2 inch [13 mm].
				4. Laminated Fully Tempered Clear Float Glass [GL#\_\_]: ASTM C1172; consisting of two plies of 6 mm. thick glass with interlayer of 0.060-inch-thick clear polybutyral; unit thickness 1/2 inch (13 mm).
				5. Insulating Safety Glass Unit [GL#\_\_]: Two lites of 6 mm thick fully tempered clear float glass, ASTM C1048, Kind FT, Condition A, Type I, Class 1, Quality-Q3, with 1/2 inch (12 mm) thick [air-] [argon] filled interspace; unit thickness 1 inch [25 mm].
1. EXECUTION
	* + 1. EXAMINATION
				1. Examine partition substrates to determine if work is within glass panel partition manufacturer's required tolerances and ready to receive work. Proceed with installation of partitions once conditions affecting installation and performance of partitions meet manufacturer's requirements.
			2. PARTITION INSTALLATION
				1. General: Comply with glass panel partition manufacturer's written installation instructions and approved shop drawings.
				2. Install glass panel partitions after other finishing operations have been completed.
				3. Set units level, plumb, and true to line, with uniform joints.
				4. Fasten glass panel partition track and sill to building structure and supports as indicated on approved shop drawings, utilizing approved fasteners and spacing.

Specifier: Retain paragraph below if applicable to Project.

* + - * 1. Set, seal, and grout floor closer cases.
			1. ADJUSTING

Adjust doors and hardware to produce smooth operation and tight, uniform fit.

* + - * 1. Adjust door closers to required timing and force.
				2. Adjust latches and locks for smooth operation.
				3. Test and adjust hardware linked to access control system.
				4. Replace damaged panels and accessories.
			1. CLEANING
				1. Clean glass panels in accordance with glass manufacturer's written instructions. Do not use cleaning agents or methods not approved by glass manufacturer.
				2. Clean exposed metal surfaces to factory new appearance.

END OF SECTION

**Additional Specifiers Notes**

Substitution Reviews: When reviewing substitution requests for other products for compliance with this specification, dormakaba recommends particular attention to the following issues:

Compact track, frame, and edge conditions: Design details of the dormakabas partitions are what give them a visual appeal that causing them to be selected as the basis of design.

Door Hardware Options: Our position as an international leader in decorative door hardware allows dormakaba to offer a complete array of coordinated hardware options and finishes for glass panel partitions.

Coordination: Make sure you coordinate the following:

Locations and operation of doors including swing or sliding travel

Reflected ceiling plan showing location of full-height partitions in relation to other ceiling-mounted elements, and stacking plan

Elevations of partitions indicating details of locking hardware and special decorative glass elements

Glass panel joint locations

Intersections of partitions and other elements of construction

Details of support and mounting of track or frame

Details of seismic bracing for partition where required

Details of ceiling finish in relation to track or frame

Details of floor finishes in relation to sill or bottom frame