

Commercial Sectional Steel Doors

H-325S

25 Gauge (.019" min)
2" Sections

H-324S

24 Gauge (.022" min)
2" Sections

Strength and Energy-Efficiency

Hörmann commercial steel doors are available in a wide range of styles, sizes and design options. Sophisticated engineering and state-of-the-art manufacturing provide the basis for durable, reliable and long-lasting quality products.

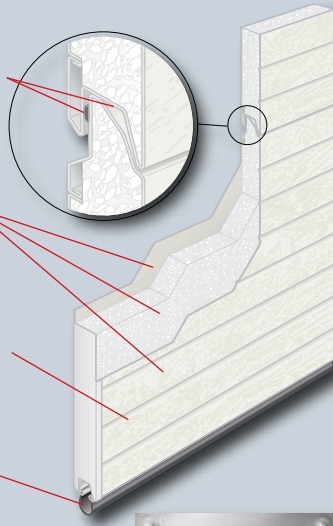
Two steel thicknesses are available: **25 gauge (.019" min)** for H-325S or **24 gauge (.022" min)** for H-324S. Both series offer an R-value of 8.9., 3-layer bonded construction with a hot-dipped galvanized, finished steel front and back enclosing a HCFC-free polystyrene core. No matter which door suits your needs best, all H-325S and H-324S doors are manufactured to the highest quality standards and come with FingerGuard™ pinch-resistant section joints as standard.

Deep tongue and groove section joint contribute to the door's **excellent strength**. Intermediate seals prevent air infiltration, which enhances the insulation properties.

The steel front and back 3-layer sandwich construction with **insulating polystyrene core** increases energy savings and provides a very smooth and quiet door operation.

Galvanized **finished painted steel** provides superior corrosion resistance for years of trouble-free performance.

The heavy duty aluminum retainer and bottom weather seal limits corrosion and **keeps out wind, rain, debris and other elements** for added energy savings.



Energy-efficient polystyrene core

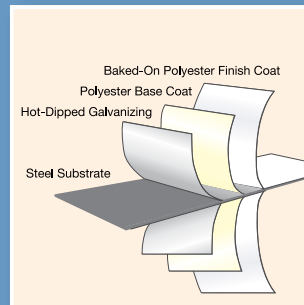


The H-325S & H-324S series of doors offers enhanced energy efficiency and sound-dampening qualities. The polystyrene insulation fills the top of the door channel for maximum insulation. With 2" thick sections, both series gives you an R value of 8.9.



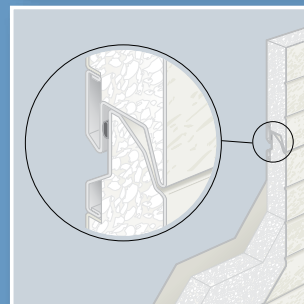
Engineering Excellence

- Unique precision hinges with solid pivoting shaft to minimize wear on moving parts to provide long service life
- All center hinges utilize a steel reinforcing backer plate for added structural integrity.
- Deep tongue and groove section profile adds to the door's overall structural integrity and its longterm performance



Durability

H-325S and H-324S door panels are prepared inside and out to offer maximum protection against the adverse effects of the elements to provide you with a long-lasting surface finish and reduced maintenance cost. First, hot-dipped galvanizing is applied to the steel substrate, followed by a baked-on polyester base coat and a durable baked-on polyester finish coat. We use this steel finish on both, the inside and outside door skins which are bonded to the HCFC-free polystyrene core.



Against Elements

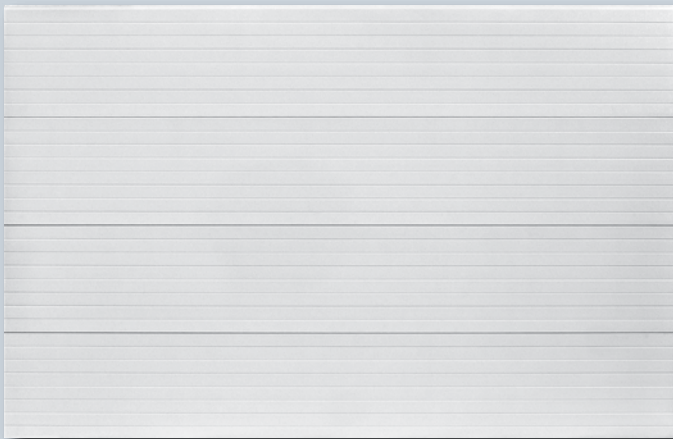
A commercial grade material was carefully selected to maximize protection from outside elements. The between section seal is constructed of a special heavy duty material that acts as a gasket between sections to reduce the air infiltration while further enhancing the insulation properties of a door.

Safety

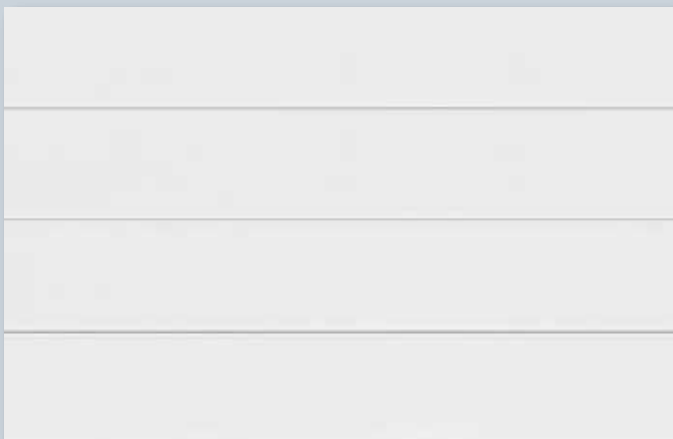
The uniquely designed FingerGuard™ pinch-resistant section joints prevent fingers from getting caught between the door sections. This increases the safety of your operations and reduces the risk of injuries which may result in worker's compensation claims.



Panel Designs



Microgroove design

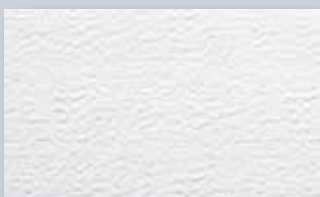


Flush design

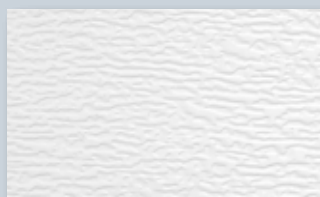


Raised panel design

Surface Finishes



Stucco (Microgroove & Flush)



Woodgrain (Raised panel)

Regardless of the color you choose, all of our surface finishes provide a durable baked-on polyester finish coat offering a long-lasting, attractive appeal.

Colors

White

Sandstone

Brown

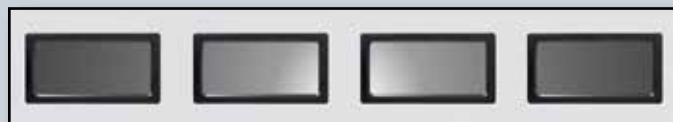
Industrial Grey*

All colors shown as accurately as printing technology allows. *Not available for H-324S Series

Window Options



Window 24" X 6"



Window 24" X 12"



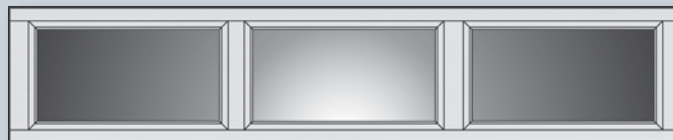
Window 34" X 16"

Single pane is standard for non-insulated doors. Insulated glass is standard for both vinyl back insulated and sandwich doors.

The number of windows available per section depends on the door width. For raised panel designs, see dealer for window options.

Window Arrangements (24" X 6" / 24" X 12" / 34" X 16")

Door Width	Maximum No. of Windows
Up to 9' 2"	2
9' 3" to 12' 2"	3
12' 3" to 16' 2"	4
16' 3" to 19' 2"	5
19' 3" to 24' 2"	6



Opti-View Windows (Not available for raised panel design)

Hörmann Opti-View is the optimum choice for commercial applications where maximum light and visibility is required. The Opti-View window design offers similar features as other full view window designs.

Clear single pane tempered glass is standard for both insulated and non-insulated doors. The number of windows available per section depends on the door width.

Window Arrangements (Opti-View)

Door Width	Maximum No. of Windows
8', 8'2", 9' & 9'2"	2
10', 10'2", 12' & 12'2"	3
14', 14'2", 16' & 16'2"	4

Series	H-325S	H-324S
Steel Thickness	25 ga.	24 ga.
Section Thickness	2 in.	2 in.
R - Value	8.9	8.9
Polystyrene Core Insulation	Standard	Standard

Panel Designs		
Microgroove	Standard	Standard
Flush	Standard	Standard
Traditional Raised Panel	Standard	Standard

External Textures		
Microgroove	Stucco	Stucco
Flush	Stucco	Stucco
Raised Panel	Woodgrain	Woodgrain

Available Colors		
White	Standard	Standard
Sandstone	Standard	Standard
Brown	Standard	Standard
Industrial Grey	Standard	N/A

Windows Options		
24" X 6"	Optional	Optional
24" X 12"	Optional	Optional
34" X 16"	Optional	Optional
Opti-View	Optional	Optional

Warranty		
Sections	10 years	
Hardware	1 year	

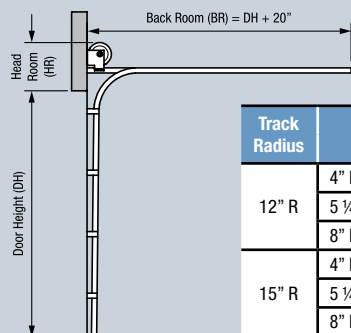
Section Arrangements

Door Height	No. of Sections
Up to 8'0"	4
8'9" to 10'0"	5
10'6" to 12'0"	6
12'3" to 14'0"	7
14'3" to 16'0"	8
16'3" to 18'0"	9

Additional Options

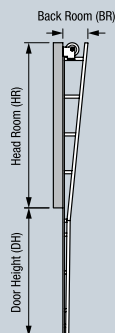
- Various track options
- Full perimeter weatherseal
- Top header seal
- Keyed locks
- Extended cycle springs - 25k, 50k & 100k
- Special windload ratings
- Chain hoist operation
- Full range of electric openers and safety devices

Head Room and Side Room Dimensions (typical)



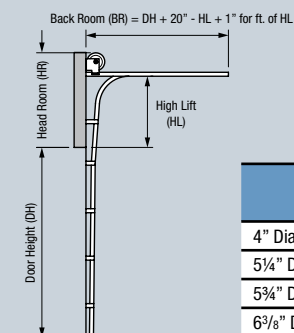
Standard Lift Doors

Track Radius	Drum Type	Head Room	
		2" Track	3" Track
12" R	4" Dia. Standard Lift	11"	—
	5 1/4" Dia. Standard Lift	14 1/2"	—
	8" Dia. Standard Lift	*Special	—
15" R	4" Dia. Standard Lift	14 3/4"	15 3/4"
	5 1/4" Dia. Standard Lift	15 1/2"	17 1/2"
	8" Dia. Standard Lift	18 3/4"	20 1/2"



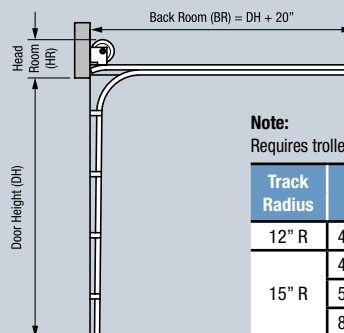
Vertical Lift Doors

Head Room		Back Room	
2" Track	3" Track	2" Track	3" Track
DH + 9"	DH + 9"	16"	16"



High Lift Doors

Drum Type	Head Room	
	2" Track	3" Track
4" Dia. High-Lift Drum 54" of HL	HL + 8 1/4"	HL + 9 1/4"
5 1/4" Dia. High-Lift Drum 54" of HL	HL + 9 1/4"	HL + 10 1/4"
5 3/4" Dia. High-Lift Drum 120" of HL	HL + 12"	HL + 13"
6 3/8" Dia. High-Lift Drum 164" of HL	HL + 12 3/4"	HL + 13 3/4"

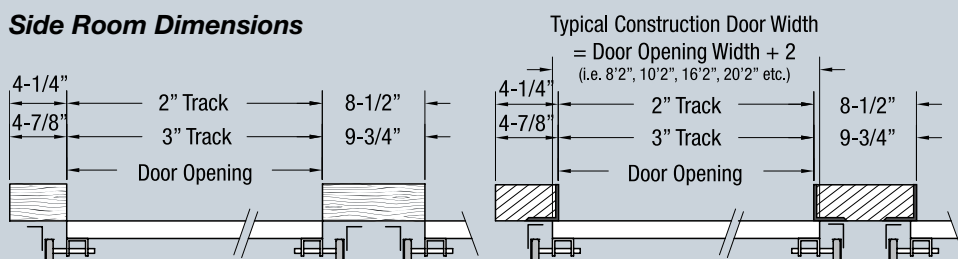


Low Head Room Doors

Note:
Requires trolley type Opener with brake for door to clear header.

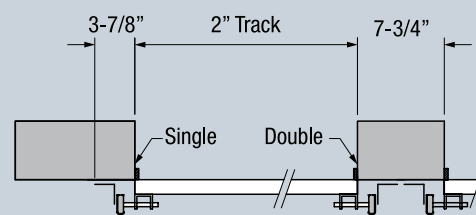
Track Radius	Drum Type	Head Room	
		2" Track	3" Track
12" R	4" Dia. Standard Lift	10"	—
	4" Dia. Standard Lift	10"	11 1/2"
15" R	5 1/4" Dia. Standard Lift	11"	12 1/2"
	8" Dia. Standard Lift	14 1/2"	16"

Side Room Dimensions



**Continuous Angle Track
Wood Jambs**

**Reverse Angle Track
Steel / Masonry Jambs**



Bracket Mounted Track

Please contact us for further details.

CSI Product Specifications

SECTION 08360 - SECTIONAL DOORS

H-325S (H-324S) Series Insulated Steel Sectional Doors

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the work of this Section.

1.02 SUMMARY

- A. The work of this Section includes upward-acting sectional doors.
- B. Related Sections: Other specification sections which directly relate to the work of this section include, but are not limited to, the following:
1. Section 05500 - Miscellaneous Metal; metal framing and supports.
 2. Section 08710 - Finish Hardware; key cylinders for locks.
 3. Section 09900 - Painting; field painting.
 4. Section 16100 - Electrical; wiring.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.
- B. Shop Drawings: Submit shop drawings for approval prior to fabrication. Include detailed plans, elevations, details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

1.04 QUALITY ASSURANCE

- A. Manufacturer: Sectional doors shall be manufactured by a firm with a minimum of five years experience in the fabrication and installation of sectional doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
- B. Installer: Installation of sectional doors shall be performed by the authorized representative of the manufacturer.
- C. Single-Source Responsibility: Provide doors, tracks and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
- D. Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. Provide sectional doors by Hörmann LLC, Montgomery, Illinois; Telephone 877-654-6762 or 630-859-3000; Fax 630-859-8122.

2.02 INSULATED STEEL SECTIONAL DOORS

- A. Trade Reference: H-325S (H-324S) Series Insulated Steel Doors by Hörmann LLC.
- B. Sectional Door Assembly: Insulated steel door assembly with pinch resistant rabbeted meeting rails to form weather tight joints and provide full-width interlocking structural rigidity. Units shall have the following characteristics
1. Panel Thickness: 2"
 2. Exterior Surface: Microgroove. (Also available in flush or raised panel)
 3. Section Joint: Sections to form a weather tight tongue and groove pinch resistant fit.
 4. Material: G-40 galvanized steel, complying with ASTM A-929, A-653, exterior and interior skins bonded with high quality silicone based adhesive that adheres to polystyrene core.
 5. Exterior Skin: Minimum 25 gauge exterior steel face sheet.
 6. Interior Skin: 27 gauge interior steel face sheet with stucco texture. Color: white.
 7. End Caps: 20 gauge galvanized steel primed with white baked-on polyester top coat.
 8. Standard Springs: 10,000 cycles. (Higher cycles available)
 9. Insulation: HCFC-free Polystyrene, R-value 8.9
 10. Partial Glazing of Steel Panels: (Insulated or non-insulated double strength glass available.) (Not Required.)
 11. Full Glazing Requiring Aluminum Sash Panels: (Acrylic glazing.) (1/8" double strength glass.) (Insulated double strength glass.) (Not Required.)
- C. Finish and Color: Factory-applied baked-on White, Sandstone, Brown or Industrial Grey polyester.
- D. Wind load Design: ANSI/DASMA 108 and 115 standards and as required by code.
- Hardware: 13 Gauge galvanized steel two pieced hinge assembly and fixtures. Ball bearing rollers with hardened steel races.
- Lock: Interior mounted slide lock. (Keyed lock.)
- Weatherstripping: Flexible PVC on bottom section. (Header seal and jamb weatherstripping.)
- Track: Provide track as recommended by manufacturer to suit loading required and clearances available. Note: Select type of operation
- E. Manual Operation: Manual pull rope. (Chain hoist.)
- F. Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
1. Entrapment Protection: (Pneumatic sensing edge up to 18' wide) (Electric sensing edge.) (Photoelectric sensors.)
 2. Operator Controls: (Push-button)(Key) (Push-button and key) operated control stations with open, close, and stop buttons for (flush) (surface) mounting, for (interior) (exterior) (both interior and exterior) location. Note: Select from below as applicable
 3. Special Operation: (Pull-rope release automatic opening device, vehicle detector operation, radio control operation, card reader control, photocell operation, door timer operation, commercial light package, explosion and dust ignition proof control wiring.)

PART 3 – EXECUTION

3.01 PREPARATION

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- B. Instruct Owner's personnel in proper operating procedures and maintenance schedule.

3.03 ADJUSTING AND CLEANING

- A. Test sectional doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
- B. Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

2013 Hörmann LLC. All Rights Reserved. A copyright license to reproduce this specification is hereby granted to non-manufacturing architects, engineers and specification writers.

AVAILABLE FROM:



Call us ► 1 877 OK HORMANN (1-877-654-6762)

Hörmann LLC, 5050 Baseline Road, Montgomery, Illinois 60538

Phone: 630-859-3000 Fax: 630-859-8122

Email: info@hormann.us www.hormann.us



Everything you've wanted in a commercial door, and more.

HÖRMANN