

KriegerSonic STC 46 Hollow Metal Door

Model: NC3-HM-STC46



STC 46
Acoustical Rating

ADA
COMPLIANT

FIRE RATED
UP TO 3 HOURS

1 3/4" THICK
DOOR PANEL

The KriegerSonic acoustical door is custom engineered with an STC 46 sound rating and our unique compression sound seal system—all in a 1 3/4" thick door panel. It's an ideal choice for any facility where superior sound control in all octave ranges is required.



Configurations

Available in single, uneven paired, and double door assemblies; two-panel options come with an astragal or removeable mullion.

Frame

Innovative frame design includes slip-in with trim, Z anchor, nailing straps, T anchor, and punch & dimple.

Door Panel

Typical 1 3/4" thick panel with seamless edge on top and sides, and adjustable door bottom. ADA-compliant for push/pull maximum force.

Custom Finishes



Prime
Painted



Stainless
Steel



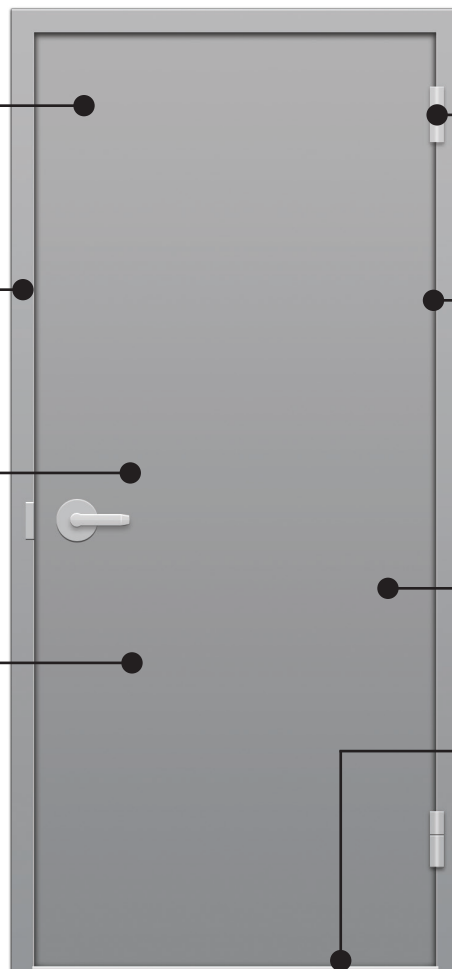
Historic
Designs



Moldings
& More

Wood Veneer Available

See separate cut sheet for details.

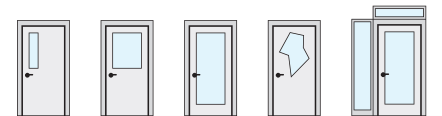


Cam Lift Hinges

Krieger's Cam Lift Hinges provide enhanced radial strength for longer lasting performance; option to add an electrified hinge.

Sound Seal

Unique seal system includes NC3 perimeter seal and NC2 door bottom seal for optimal sound control, even on uneven floors.



Vision Lights

Available with fully customizable vision lights, side lights, and transoms.

Threshold

Krieger's 1/4" aluminum threshold meets ADA requirements and guarantees the acoustical rating.

Customize Your Assembly

Contact your Krieger Regional Sales Manager to discuss your project requirements, get a quote, and request full test report data.

Call us at 877.671.7011 or visit KriegerProducts.com to get started.

HM-00013 Jan 2026





Tests and Certifications

- STC 46 acoustical rating ensures professional, commercial-quality sound control.
- Krieger acoustical doors are available up to STC 55.
- Superior low frequency sound control due to higher weight density (pounds per sq. foot) of proprietary door panel design.
- Tested to: ASTM E90, ASTM E336, ASTM E1408, ASTM E413, ASTM A 1008, JUIAF, JAFAN, DCID 6/9, and ICPM 2006-700-7.

Door and Frame Construction

- Choice of frame design includes: slip-in with trim, Z anchor, nailing straps, T anchor, and punch & dimple.
- Unique compression sound seal system includes Krieger's NC3 perimeter seal and NC2 door bottom seal.
- NC2 semi-mortised door bottom adjustability ensures optimal performance, even on uneven floors.
- Features 1¾" thick door panel and can meet all specifications for size, finish, and performance; contact us to customize your assembly.
- Door panel meets ADA requirements for push/pull maximum force.
- Comes with an ADA-compliant ¼" aluminum threshold.

Fire Labels and Positive Pressure

- **Up to 3 Hours:** UL 10C, UBC 7-2, UBC 7-4, 250°, 450°, 650° temperature rise up to 10'0" x 9'10" opening size
- **Smoke Labels:** Up to 20 minutes

Door Sizes

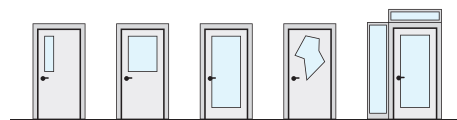
- Acoustical doors are available in standard and custom sizes, including oversized doors.

Hardware

- Krieger's unique HC30 Cam Lift Hinge offers enhanced radial strength for longer lasting performance and easy maintenance. Comes with 2 standard HC30 Cam Lift Hinges, with option to add a non-load-bearing HC30 Electrified Cam Lift Hinge.
- Designed to interface with recommended builder's hardware, including latches and locksets, panic devices, security hardware, access controls, and other options.

Finishes

- Krieger's custom finish options include prime painted, stainless steel, specialty finishes, and more—all perfectly matched to complement your project.
- Wood veneer is available. See separate cut sheet for details.



Vision Lights • Side Lights • Transoms

Fully customizable vision lights, side lights, and transoms are available. Krieger offers tested and certified glass options, including acoustical glass, fire-rated glass, smart glass, clear glass, optical white glass, low-emissivity (low-e) glass, and more.

Acoustical Door Noise Levels

This chart provides example noise levels for reference only. Consult your acoustician for a recommendation on the appropriate STC (sound transmission class) rating for your project.



STC Rating
36 to 40

Loud Speech
Heard But Not
Understood



STC Rating
41 to 44

Loud Speech
Quietly Audible

THIS MODEL



STC Rating
45 to 48

Loud Speech
Not Audible



STC Rating
49 to 53

Music and
Heavy Traffic
Barely Heard



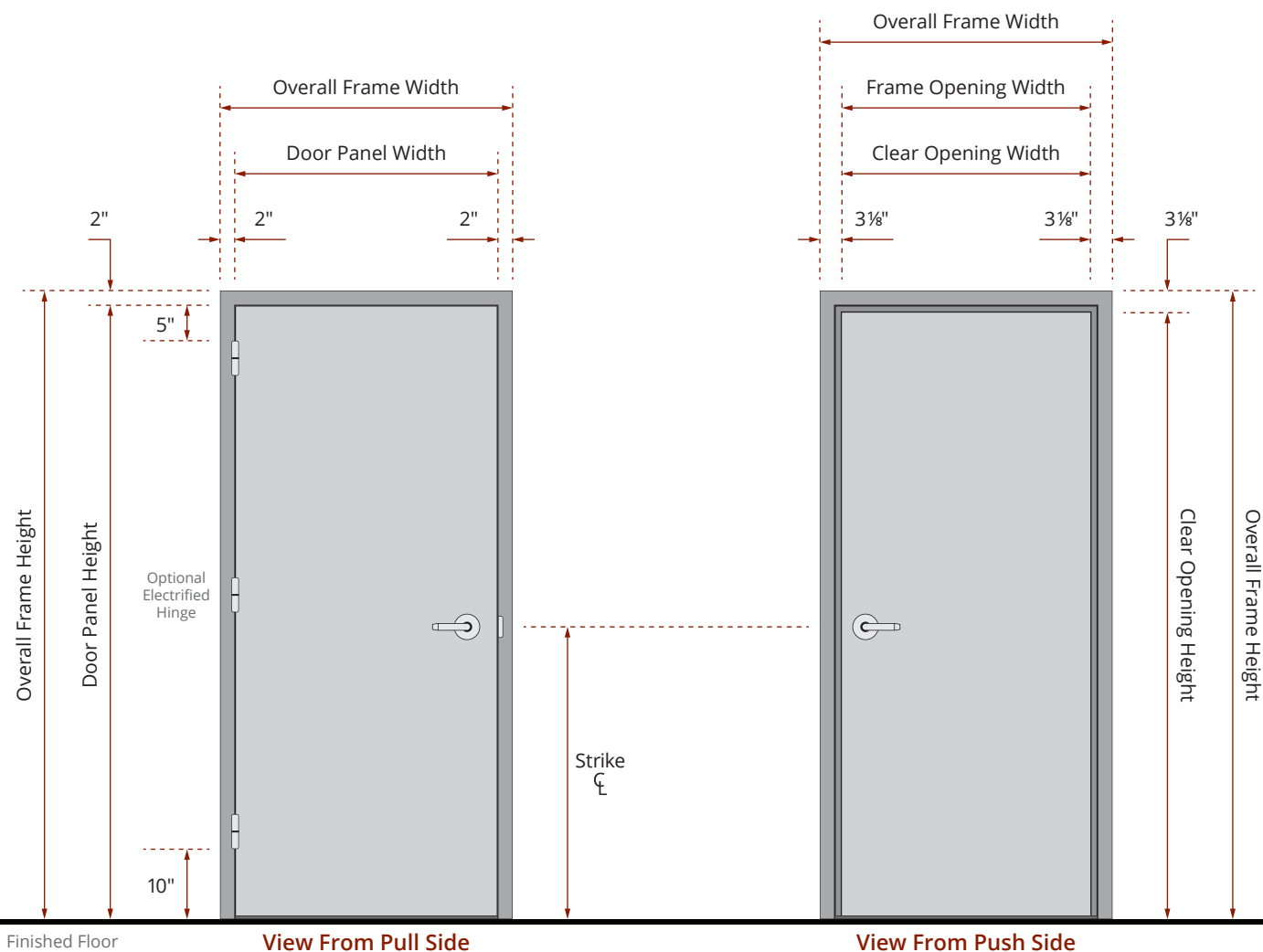
STC Rating
55

Only Extremely
Loud Sounds
Are Heard



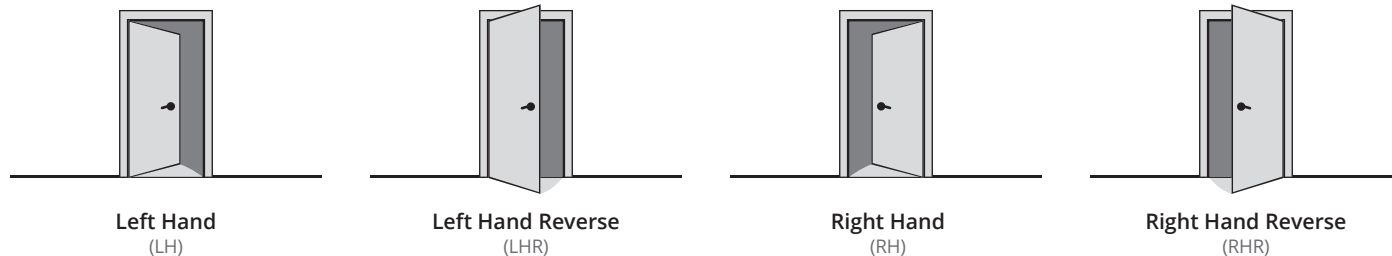
Elevation View

Single Door



Door Handing Options

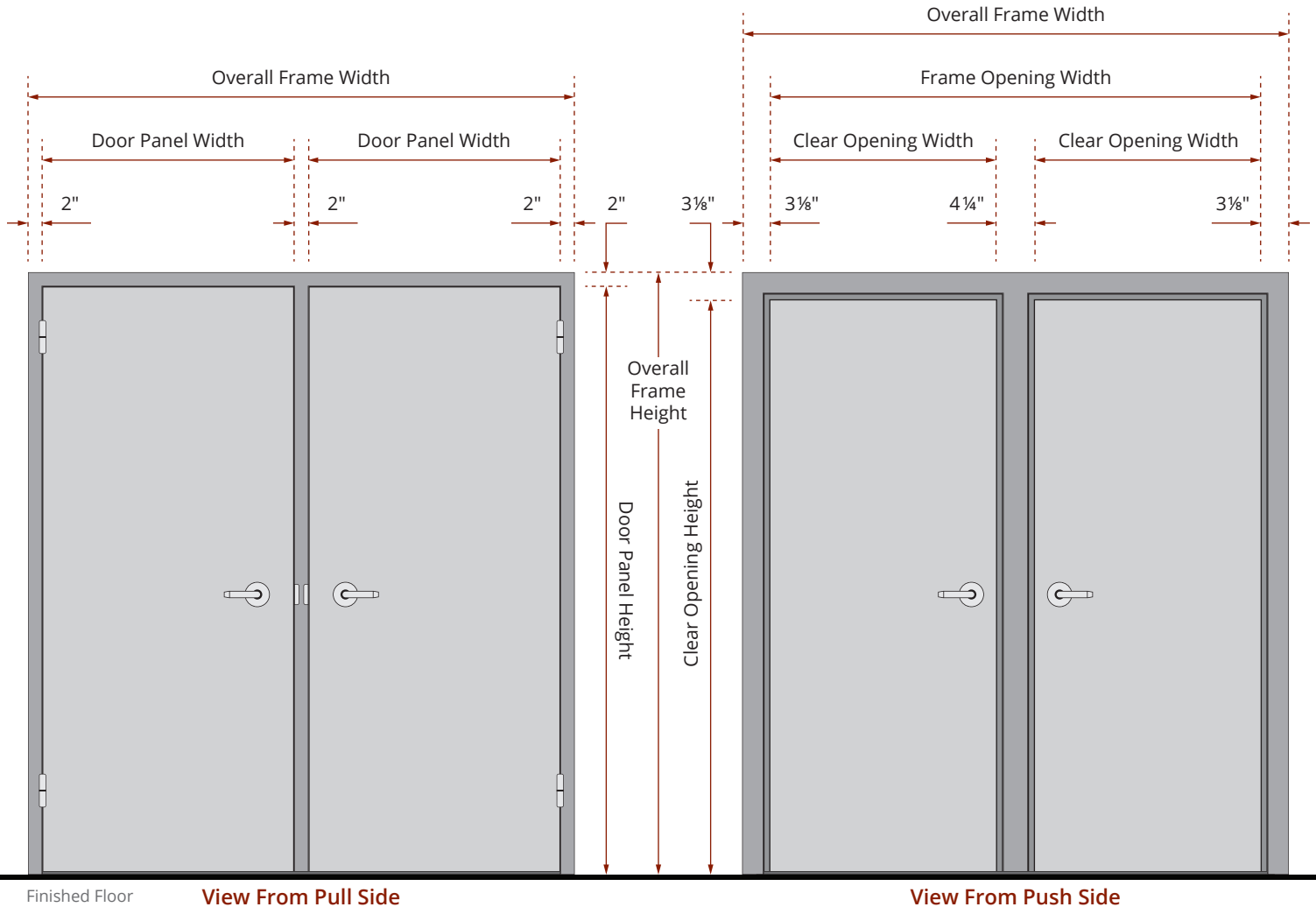
KriegerSonic doors are available in any door handing configuration your project requires.





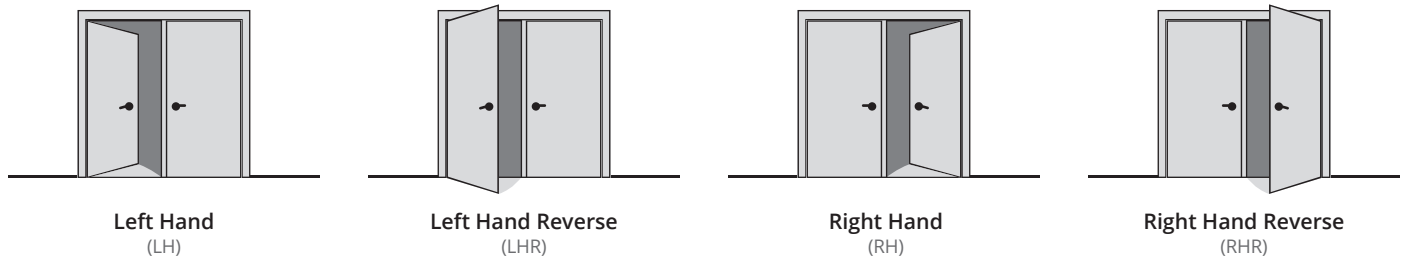
Elevation View

Double Door With Mullion



Door Handing Options

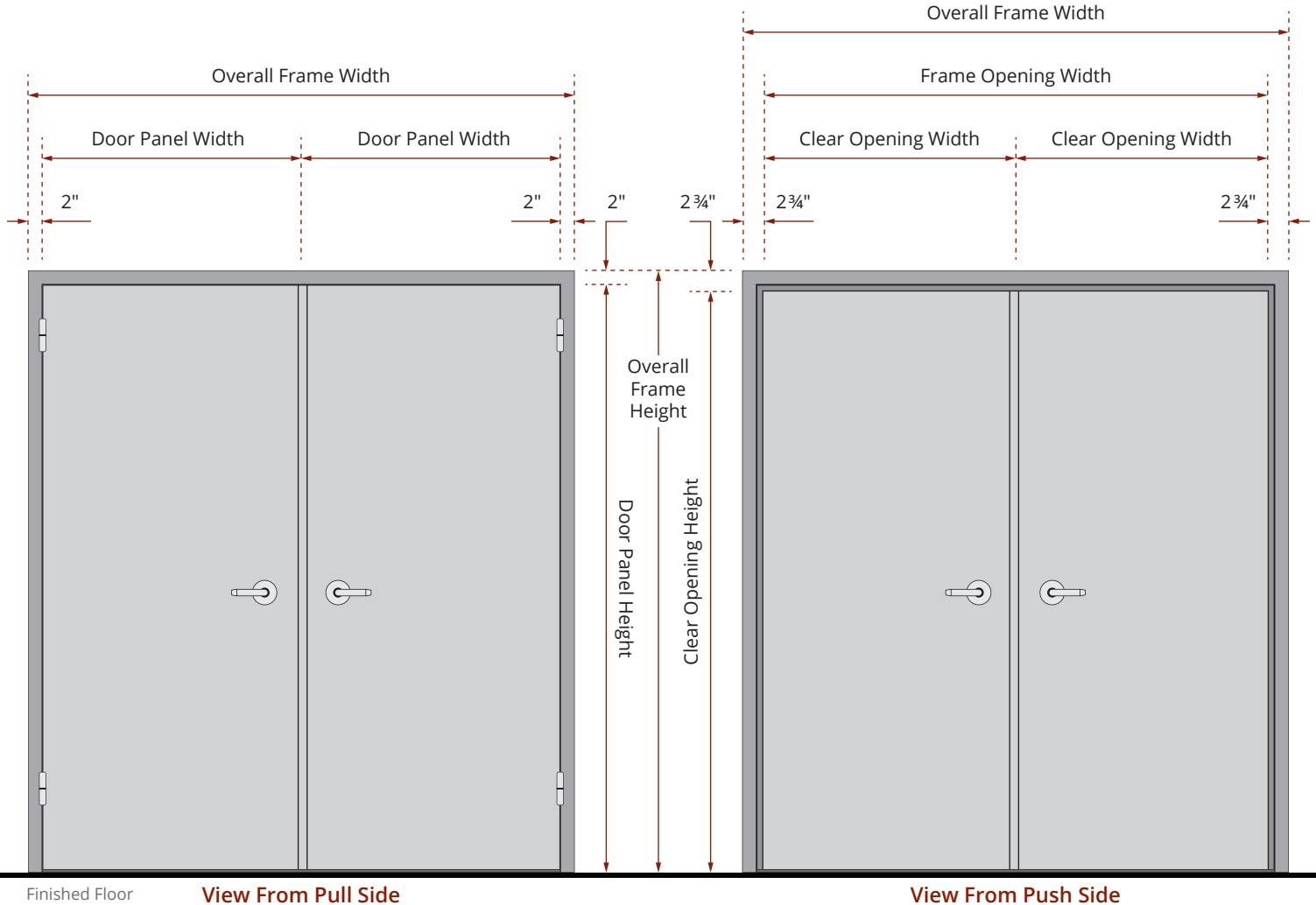
KriegerSonic doors are available in any door handing configuration your project requires.





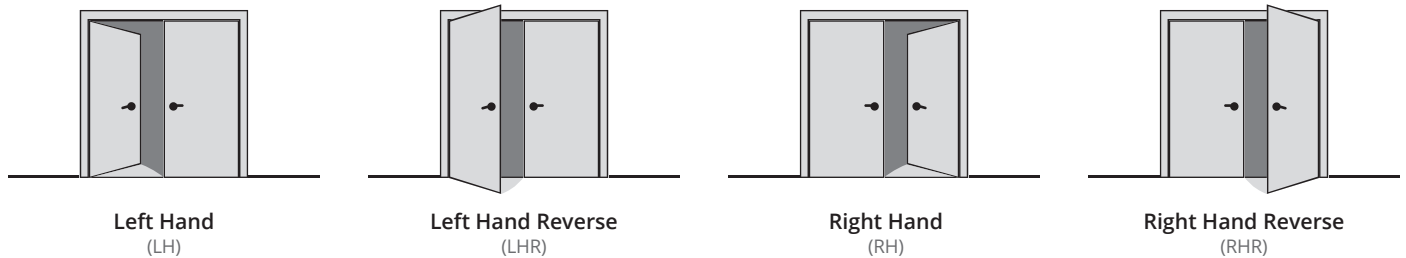
Elevation View

Double Door With Astragal



Door Hanging Options

KriegerSonic doors are available in any door handing configuration your project requires.





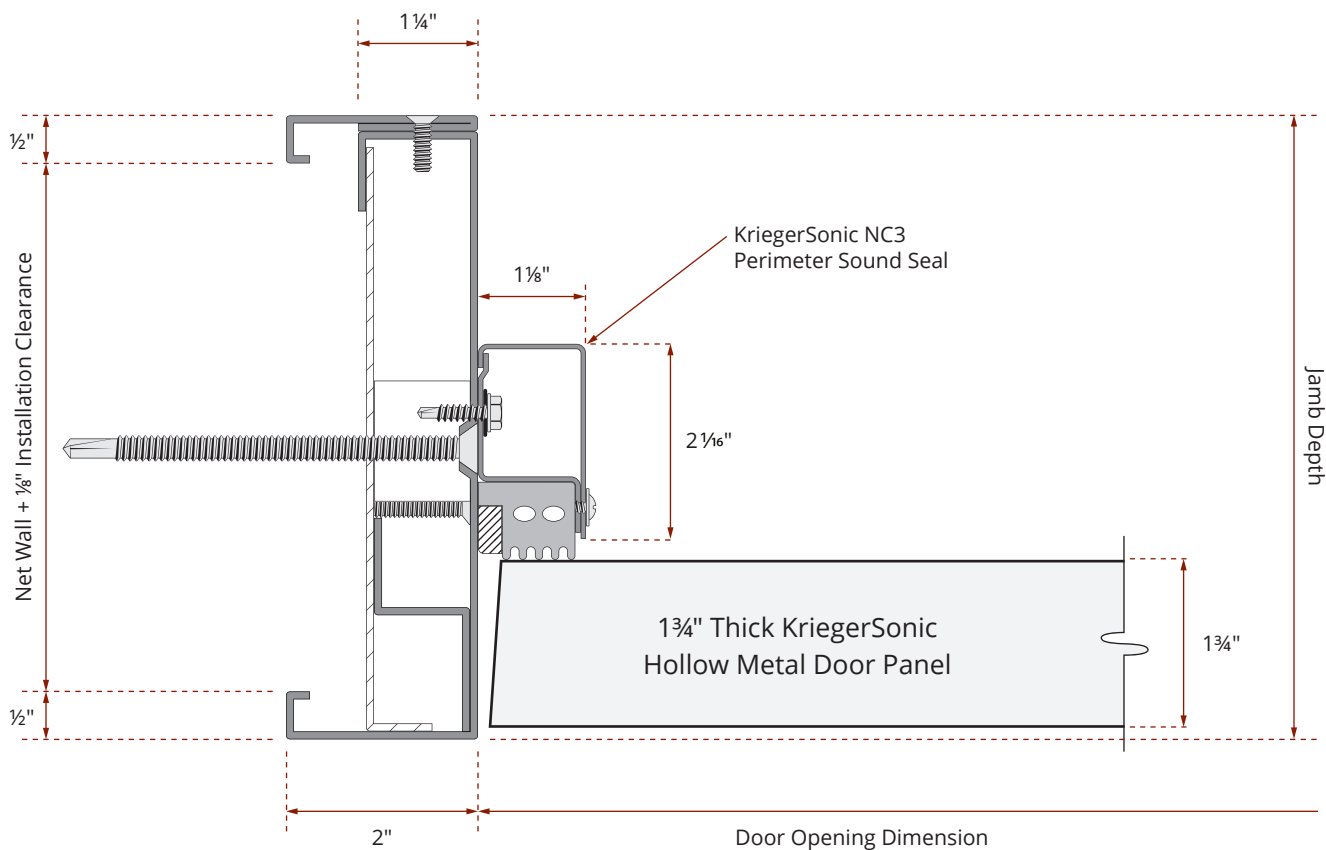
Frame Detail

Slip-In With Trim Frame

Z anchor, nailing straps, T anchor, and punch & dimple frames are also available.

Door Panel

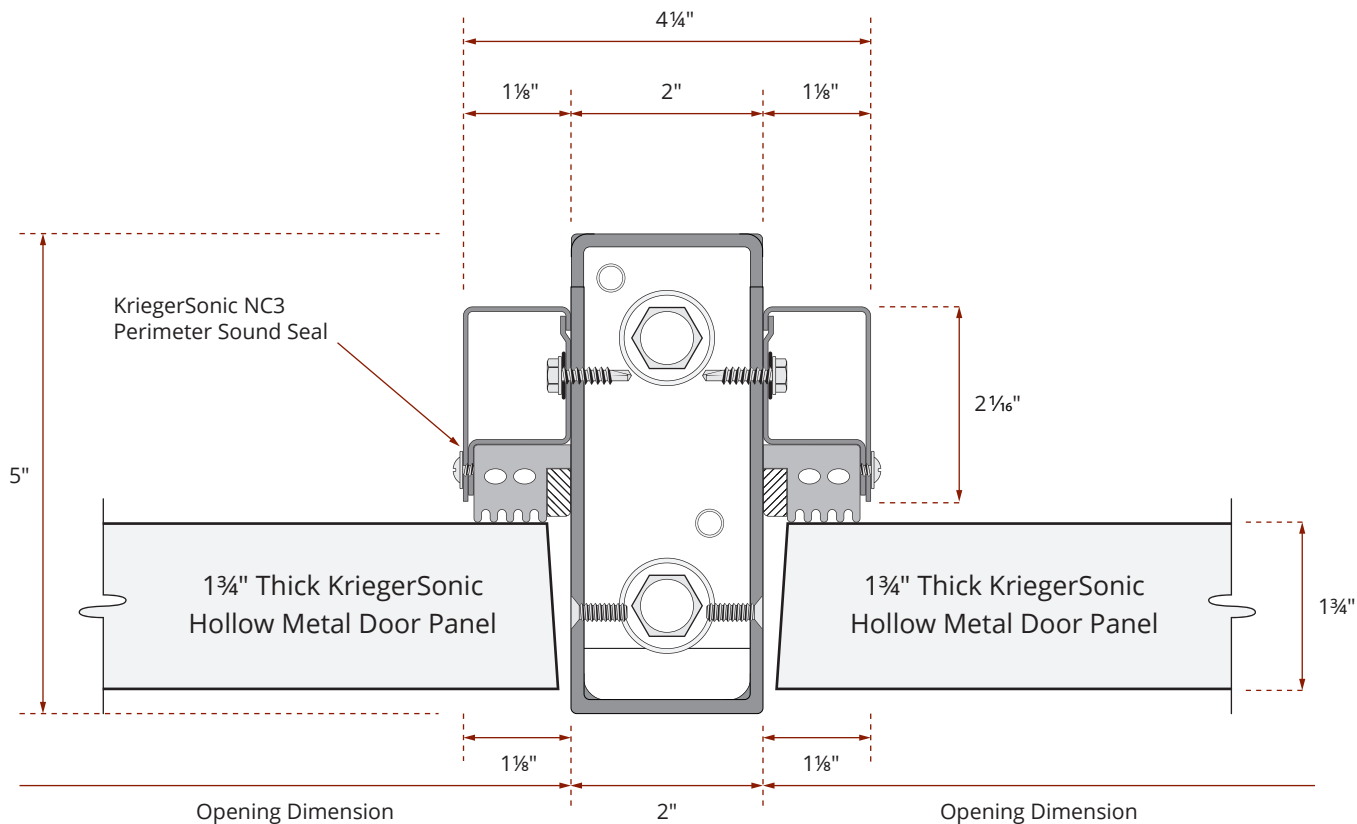
Comes with a typical $1\frac{3}{4}$ " thick door panel with a seamless edge on the top and sides, and an adjustable door bottom.





Frame Detail

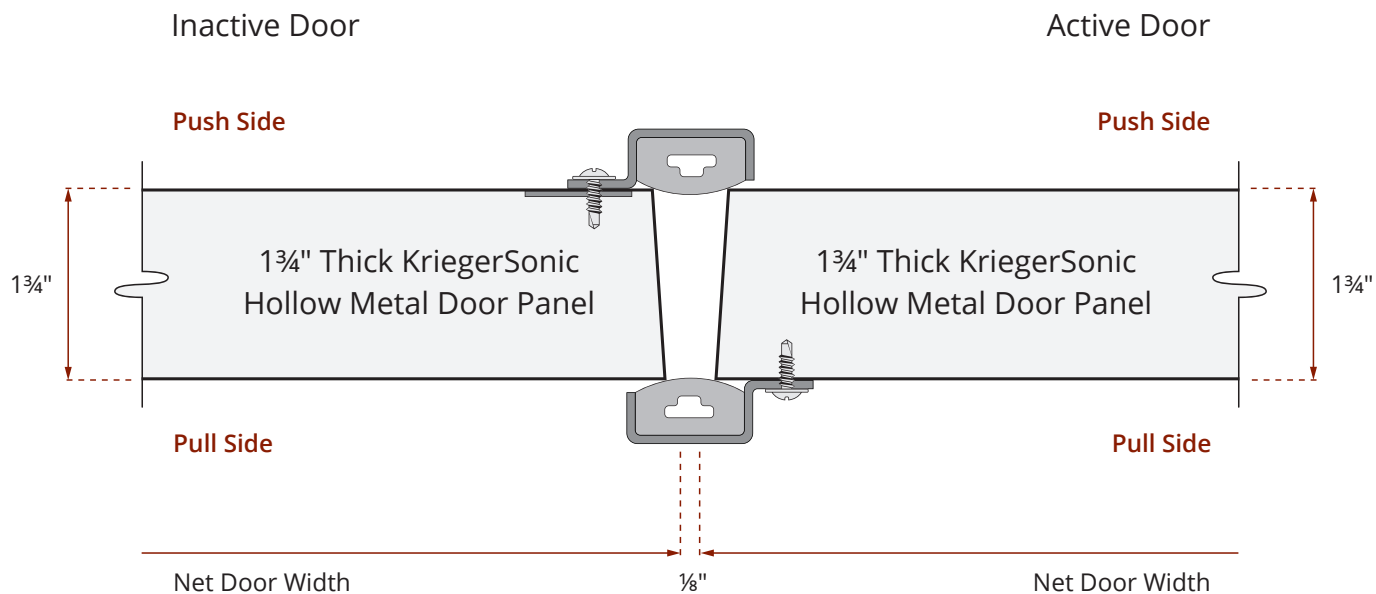
Mullion Detail





Frame Detail

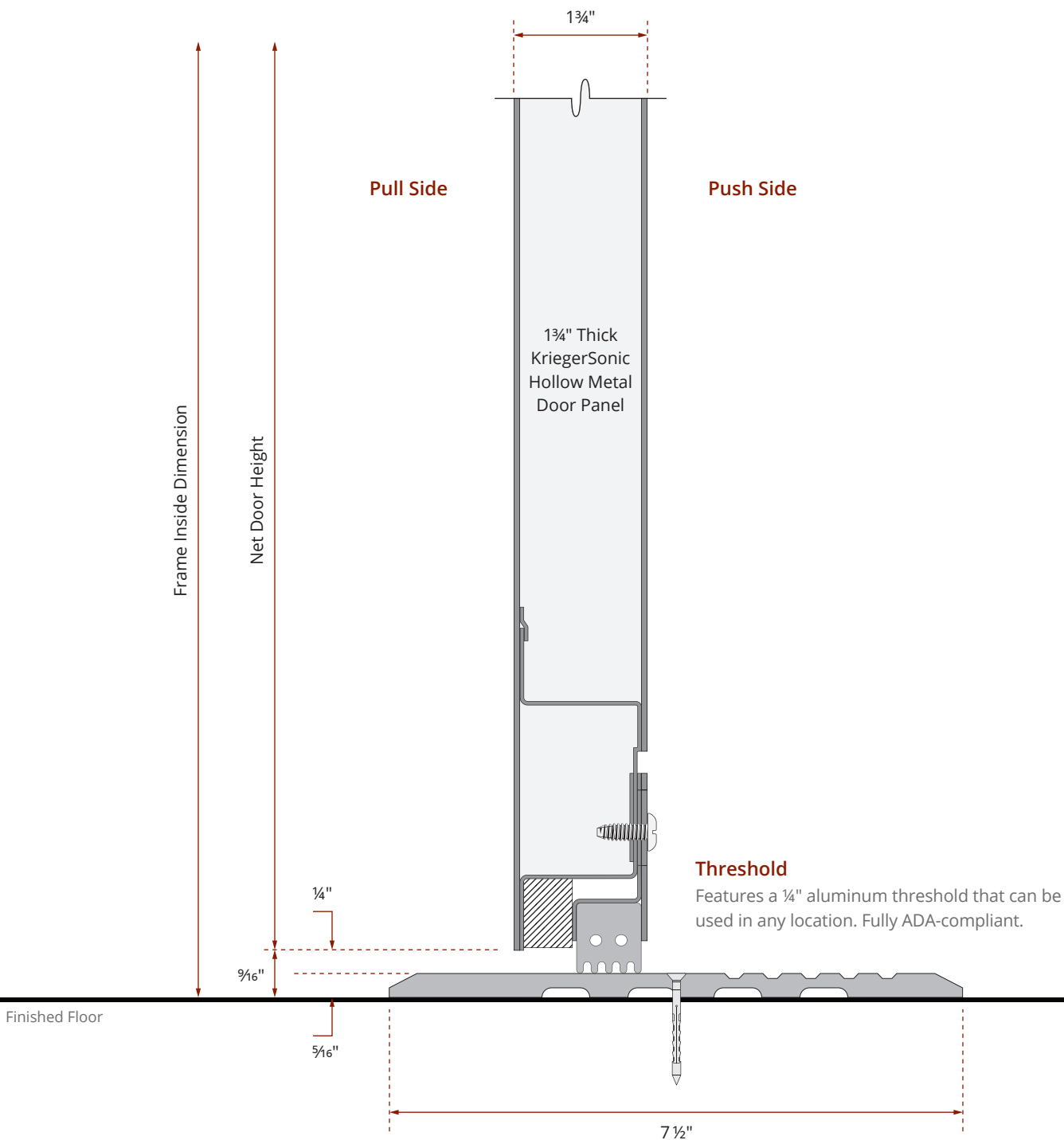
Astragal Detail





Door Bottom

Adjustable Door Bottom Detail



HM-00013 Jan 2026

Customize Your Assembly

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