



STC WALL CHART



INSTALLATION

The Key to Eliminating Sound Penetration

- STC Frames are most often filled or grouted – Follow manufacturer's guidelines to install
- The frame must be installed plumb, square, level, and without twist
- It is critical that the floor under the opening is flat and level
- Any field modifications to the door or frame can affect sound performance
- The tolerances are very tight in acoustical door systems
- Follow seal instructions for installation and adjustments for maximum acoustical results
- Recheck seals after installation — even a tiny gap or hole can cause significant sound leak

Basic Related Information

- Field Tests (FSTC) are likely to be 4-5 points lower than laboratory tested STC ratings
- Specifications for sound control products can be found in ANSI/NAAMM HMMA-865
- STC Ratings are for Interior Openings to control noise from speech, radio, TV, etc.
- OITC Ratings are for Exterior Openings to control outside noise from vehicles, aircraft, etc.

Overview of ASTM Sound Control Criteria

Typical E413 STC Rating Applications

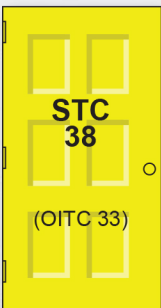
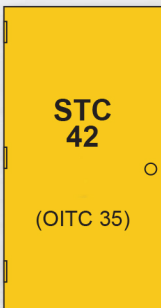

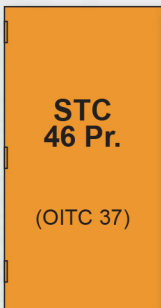



25	Normal speech understood clearly
30	Normal speech muffled
35	Loud speech heard, not understood clearly
40	Loud speech heard, not understood
45	Loud speech not heard
50	Very loud speech heard, not understood
60	Very loud speech not heard

Effect of STC Rating Changes

1 STC point	Almost imperceptible
3 STC points	Just perceptible
5 STC points	Noticeable
10 STC points	Twice or half as loud

HMF EXPRESS Current STC Offering

(All 1 3/4" Thick Doors, up to 4080, and available in 2-3 weeks lead time)

 STC 38 (OITC 33)	 STC 42 (OITC 35)	 STC 46 (OITC 36)	 STC 46 Pr. (OITC 37)	 STC 46 Pr. (OITC 37)	 STC 51 (OITC 39)	 STC 54 (OITC 39)
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For more information visit www.hmfexpress.com or call us to learn more about our sound rated openings.

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