

A man with dark hair, wearing a light-colored sweater and large black headphones, is sitting at a desk in a recording studio. He is holding a black telephone receiver to his ear with his right hand. His left hand is on a computer mouse. In the background, a woman in a grey dress is standing near a microphone stand. The room has wood-paneled walls and various pieces of audio equipment.

# 01 ACOUSTICAL

Using the latest revolutionary technology, patented designs, and utilizing lightweight sound absorbing techniques, ASSA ABLOY has developed acoustical assemblies that solve noise problems for any facility.

High Sound Transmission Class (STC) ratings are typically needed to create sound resistant rooms for the government and military, airports, school band rooms, and to isolate performance halls from exterior noise. Relatively lower STC ratings are provided for less demanding applications, such as hotels or office buildings. ASSA ABLOY offers a complete range of STC rated door assemblies providing a solution for any application.



## Advantages

- Enhances learning in classrooms
- Promotes healing in healthcare environments
- Provides security and privacy
- All STC values are operable assemblies
- Assemblies have been third-party tested
- Applied moldings available for decorative applications

## Applications

- Education
- Healthcare
- Government
- Military
- Hospitality
- Transportation centers
- Commercial offices and conference areas
- Sports arenas

## Technical Options

### Doors

- Up to 4'0"x8'0" singles and 8'0"x8'0" pairs
- 3-hour fire rating by Underwriters Laboratories (UL) and ITS (fire ratings vary with STC rating)
- Wood doors available in various species, stains and finishes
- Seals, thresholds, and door bottoms (when required) are shipped with the doors along with the attached STC rating label

Acoustical Door Assemblies

	HM	Wood	Laminate
Single – Flush	Up to 66	Up to 53	Up to 66
Single – Glazed	Up to 52	Up to 51	Up to 52
Borrowed Lite – Glazed	Up to 57		
Sliders – Flush	Up to 54		
Single – Decorative*	Up to 48		
Pairs – Flush	Up to 49		
Pairs – Glazed	Up to 47		

\*Embossed Panel (s)

### Frames

- Some acoustical assemblies can be used with a standard single or double rabbet frame with welded corners.
- Higher acoustical rated assemblies require a custom acoustical frame. Frames need to be backfilled with appropriate sound deadening material.

### Hardware

- Locks: Cylindrical, mortise, mortise deadlocks, military
- Hinges: Standard weight 4-1/2", 5", continuous, and cam lift - specific hinges may be required depending on the STC rating
- Exit Devices: Surface vertical exit devices
- ElectroLynx™ option available for electrified hardware

### Testing

Acoustical assemblies are third-party, independently tested under the ASTM E90, ASTM E1332, ASTM E2235, ASTM E413, SDI 128, and HMMA 865 criteria.

For further information, lean on our industry and product experts at: [specialtyproducts.techsupport@assaabloy.com](mailto:specialtyproducts.techsupport@assaabloy.com)