

Acoustically Enhanced Swing (Butt-Hinge) Door

Limited Product Drop Release



The Acoustically Enhanced Swing (Butt-Hinge) Door was created with decreased sound transmission in mind. DIRTT has taken the sleek, low-profile design of the Spectra™ Thin-Profile Swing (Butt-Hinge) Door and enhanced it with key components that provide increased performance. The added features enable the door to reach the high acoustic performance of 42 STC. Test results available upon request.

The Acoustically Enhanced Swing Door is available as a single door in the Spectra swing door style in a single pane or double pane. The single pane door includes 11mm ($\frac{7}{16}$ ") SonicGuard tempered laminated glass, and the double pane door uses 6mm ($\frac{1}{4}$ ") tempered glass for both panes. The glass is surrounded by 2" (51mm) thick coplanar door rails and stiles that can be finished in an anodized or powder coat option. Size and weight parameters follow that of the Spectra single and double pane swing door and can be specified in full or partial heights with the 4" Enzo Coplanar Rectilinear door frame only. See the [Spectra Thin-Profile Swing \(Butt-Hinge\) Door Tech Sheet](#) for details. A 1" (25mm) adjustable door skirt fitted with DIRTT's standard [CCE Acoustic ALU](#) drop seal is inserted along the door base, and the door hardware option is a Schlage lever set with a 3 $\frac{3}{4}$ " (95mm) backset and a strike-side corner roller latch.

Key Acoustic Design Features

- 01** A corner roller latch has been added to the assembly and holds the door closed more tightly.
- 02** The flap seal installed in the strike-side vertical seals from the door slab base up to the door frame header.
- 03** The bi-flap seal installed in the hinge-side vertical and the door frame header allows the door to maintain a seal around the frame perimeter in conjunction with the strike-side flap seal.
- 04** The door rails and stiles align in a coplanar profile for a uniform appearance and improved acoustic door seal performance.
- 05** A CCE Acoustic ALU drop seal is incorporated into the adjustable door skirt and seals the gap between the floor and the door when closed to reduce sound leakage.
- 06** The base flap seal closes the opening between the floor, door base, and door frame on the hinge and strike sides.

IMPORTANT: Any deviation from the standards outlined will be classified as a custom application and, as such, fall outside the parameters of the Limited Product Drop (LPD) program. While we remain committed to supporting custom requests, these applications will be subject to extended lead times and adjusted pricing.