



DC



Architectural Concepts / Door Collection

AC STC Ratings



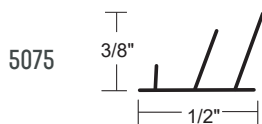
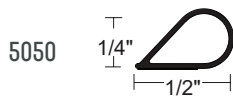
Sound Transmission Class (STC) Rating for Doors determines how successful it will be at blocking the movement of sound. Architectural Concepts MDF Doors are initially a good sound reducer, however, the door is just one piece of the equation. It is important to use the proper acoustical gasketing combinations to seal the gaps around the perimeter of the door opening. The gasketing combinations we list below, when tested with our doors, achieved a zero drop-off in our STC rating. *Ultimately, the hardware gasketing and perimeter sealing determine the sound rating that a door achieves.*

Our MDF Doors have been tested with hardware packages from National Guard Products in the following chart. All of these ratings are for operable single swing doors with the sound control hardware specified on the right-hand side of the table.

STC Ratings

Door Styles	STC Rating	Door Thickness	National Guard Products (NGP) Hardware Used:		
			Primary Seal	Threshold Saddle	Door Bottom
A100 - A200 Square Sticking (SS) Flat panel (F)	32	1-3/4"	5050 Twin Row	8144 (optional)	12T6
A100 - A200 Square Sticking (SS) Raised panel (R)	34				
A300 - A900 Square Sticking (SS) Flat panel (F)	33		-or-	-or-	-or-
A300 - A900 Square Sticking (SS) Raised panel (R)	35		5075	896S-ADJ	225S x STC2

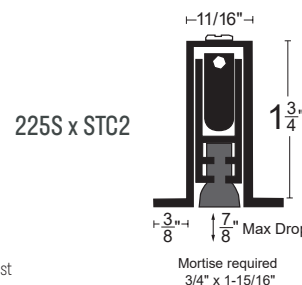
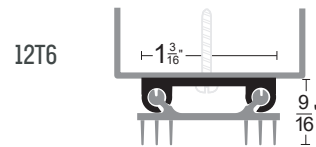
NGP Primary Seals



NGP Threshold Saddle



NGP Door Bottom



Acoustical testing to ASTM E90 Standard Test Method for Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, ASTM E2235 Standard Test Method for Determination of Decay Rates for use in Sound Insulation Test Methods, and ASTM E1332 Standard Classification for Rating Outdoor - Indoor Sound Attenuation. The sound transmission class (STC) was calculated in accordance with ASTM E413 Classification for Rating Sound Insulation.

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