

AMERICAN SERIES FLUSH DOORS

Subject: Release of STC (Sound Transmission Class) Ratings

The purpose of the Sound Transmission Class (STC) is to provide a single figure rating that can be used for comparing the sound-insulating properties of partition elements used for general building design purposes. The higher the rating (STC) the greater the sound insulation properties of the partition.

In order for the door to reach the rated performance, the door must be installed correctly. The door frame itself needs to be fitted into the wall avoiding cracks or voids that could transmit sound. The sound insulation depends on not only the door panel but also the acoustical seals provided around the opening. In an effort to clarify the effect of hardware gasketing and sealing products, we have included test results in the table below. In testing, we used Pemko S773 seal kits in the operable column below.

In accordance with the American Society for Testing and Materials designation ASTM E413-2004, classification for Rating Sound Insulation, the following are the ratings achieved by our doors per ASTM E90-90 as conducted by Intertek Testing Services and testing per ASTM E90-04, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions, by Western Electro-Acoustic Laboratory.

The information in this bulletin is to inform you that the primer is *not* intended to act as a cure all for surface conditions of the door; but to alleviate the majority of problems a raw door would encounter through shipping and handling.

Please read this bulletin and supply a copy to your customers. If you have any questions please call your Millennium Door inside sales representative.

Door Series	Door Thickness	Core Type	Testing Installation Method
			(with S773 seal kit)
Inifinity RM or FM **	1-3/4"	28# particle board core	STC 30
Encore	1-3/4"	EPS Foam core	STC 23*
Encore	1-3/4"	44# particle board core	STC 33
Ovation	1-3/8"	3/8" flat panel	STC 25*
Ovation	1-3/8"	9/16" or 7/8" raised panel	STC 24*
Ovation	1-3/4"	1-1/4" raised panel - 20 Min	STC 29*
Ovation	1-3/4"	11/16" flat panel - 20 Min	STC 30
Ovation	1-3/4"	5/8" flat panel Intumescent Layered Core - 45-90 Min	STC 34

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* **ESTIMATED** - These doors were not tested with installation and are based only on calculations

** *Inifinity, Designer or Architectural raised or flush moldings.*

