

PERFORMANCE TESTS

PERFORMANCE OF STANDARD DOORS AND FRAMES

PHYSICAL ENDURANCE TESTS PER ANSI A250.4

Pioneer's standard doors and frames have been tested for physical endurance per requirement of ANSI A250.8

18 Gage Doors –All series-.....Passed 500,000 Cycles –(**LEVEL B**)- Heavy Duty
16 and 14 Gage Doors-All series Passed 1,000,000 Cycle-(**LEVEL A**)- Maximum Duty

Doors tested in accordance with ANSI A250.4 for extended life cycle:

DOOR SERIES	CYCLES	FRAME SERIES
H18,HP18, EP18,LW18	3,000,000	F16
C16	4,000,000	F16

THERMAL TESTS PER SDI 113

DOORS TESTED IN ACCORDANCE WITH SDI 113-13,ASTM C1199 AND ASTM C1363

DOOR SERIES	CORE	U-FACTOR	R-VALUE
H SERIES	HONEYCOMB	0.55	1.81
H SERIES (HP)	POLYSTYRENE	0.37	2.70
H SERIES (HT)	URETHANE	0.34	2.92
C SERIES	STEEL STIFFENED	0.59	1.69

NOTE:

Thermal Test Standard SDI- 113 was revised to reflect ASTM C1199 and ASTM C1363-05 “Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus”. The change in test methods results in significant changes in performance values which are not comparable between the current and old.

Architectural Specifications must take this change into consideration as the old values cannot be obtained by the new test method.

PERFORMANCE TESTS

PERFORMANCE TEST STANDARD AND SPECIAL DOORS

STC PERFORMANCE OF STANDARD DOORS

Pioneer's standard doors have been tested for STC performance (Sound Transmission Coefficient):

The test was conducted on standard doors as a slab in accordance with ASTM E-90 and Ratings are calculated according to ASTM E 413:

Standard Doors Tested as Slabs:

DOOR SERIES	CORE	STC RATING
H SERIES	HONEYCOMB	32
HP SERIES	POLYSTYRENE	26
HT SERIES	URETHANE	31
C SERIES	STEEL STIFFENED	46

STC PERFORMANCE OF SPECIAL SOUND RATED DOOR ASSEMBLIES:

OPERABLE DOOR ASSEMBLIES - :

DOOR SERIES	DOOR TYPE	STC RATING
SR-52	FLUSH	52
SR-48	FLUSH	48
SR-46	FLUSH	46
SR-44	VISION (10X10)AND (22X32)	44(10X10) OR 42 (22X32)
SR-35	FLUSH	35

Note: Doors were tested with Special Sound Seals, Thresholds and Door Bottoms.
(STC 42 Doors are matched with Anemostat Sound rated Glass and kit)