

## WDMA PERFORMANCE DUTY LEVELS

VT's limited lifetime warranty covers the performance duty levels with our standard construction, as stated below:

DOOR TYPE	SCREWHOLDING	HINGE LOADING	CYCLE SLAM
Particleboard (PC-3) Non-Rated & 20-Minute (Holstein Facility)	<u>Extra Heavy Duty</u> - meets requirements when blocking included for screw-attached surface hardware.  <u>Heavy Duty</u> - meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Particleboard (PC-5) Non-rated & 20-minute*	<u>Extra Heavy Duty</u> - meets requirements when blocking included for screw-attached surface hardware.  <u>Heavy Duty</u> - meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Particleboard (PC-5) 45minute (Neenah & Two Rivers Facilities)	Extra Heavy Duty	Extra Heavy Duty	Extra Heavy Duty
Agrifiber Core Doors (WSPC-5)	<u>Extra Heavy Duty</u> - meets requirements when blocking included for screw-attached surface hardware.  <u>Heavy Duty</u> - meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Structural Composite Lumber Core (SCLC-5)	Extra Heavy Duty	Extra Heavy Duty	Extra Heavy Duty
Fire Composite Core (FD-5)	<u>Extra Heavy Duty</u> - meets requirements when blocking included for screw-attached surface hardware.  <u>Heavy Duty</u> - meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Composite Sound Core (STC-5)	<u>Extra Heavy Duty</u> - meets requirements when blocking included for screw-attached surface hardware.  <u>Heavy Duty</u> - meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty	Extra Heavy Duty
Stile & Rail Doors (SR-5)	Extra Heavy Duty	Extra Heavy Duty	Extra Heavy Duty

\*Blocking availability subject to Sound Core construction.

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**Structural Composite Lumber Stiles and Rails used in non-rated Agrifiber, Particleboard, Structural Composite Lumber and 45-minute Fire Core are as follows:**

- Hinge loading, per WDMA TM-8 is 938 lbs.
- Screw withdrawal, per WDMA TM-10 is 820 lbs.

**Fire Composite Stile and Rails used in 45-, 60- and 90-minute doors are as follows:**

- Hinge loading, per WDMA TM-8 is 773 lbs.
- Screw withdrawal, per WDMA TM-10 is 706 lbs.

All VT Architectural Wood Door types have achieved a minimum of 1,000,000 slam cycles per WDMA TM-7. Split resistance test standard are obsolete and no longer required per WDMA I.S. 1A

<b>EXTRA HEAVY DUTY</b>	Typically involves doors where use is considered heavy and frequent and requires the highest minimum performance standards
<b>HEAVY DUTY</b>	Typically involves doors where usage is moderate and requires intermediate minimum performance standards
<b>STANDARD</b>	Typically involves doors where use is low and requires the lowest minimum performance standards

PERFORMANCE ATTRIBUTE	PERFORMANCE DUTY LEVEL	
	EXTRA HEAVY	HEAVY DUTY
Adhesive Bond Durability, WDMA TM-6	Type I or Type II	Type I or Type II
Cycle Slam, WDMA TM-7	1,000,000 cycles	500,000 cycles
Hinge-Loading, WDMA TM-8	2440 N (550 lbs.)	2110 N (475 lbs.)
Door Finishes Various ATSM test methods	TR-6/OP-6 or equal <sup>(a)</sup>	TR-4/OP-4 or equal <sup>(a)</sup>
Screwholding, WDMA TM-10		
Stile and Rail Face	2440 N (550 lbs.)	2110 N (475 lbs.)
Vertical Door Edge <sup>(b)</sup>	2440 N (550 lbs.)	2110 N (475 lbs.)
Horizontal Door Edge <sup>(b)</sup>	1330 N (300 lbs.)	1060 N (240 lbs.)
Telegraph, Section T-1	Maximum 0.25 mm in any 76 mm span (0.010 inch in any 3 inch span)	
Warp Tolerance, Section T-2	Maximum 6.4 mm in any 1050 mm x 2100 mm (0.25 inch in any 3'-6" x 7'-0") door section	
Squareness, Section T-3	Diagonal variance 3.2 mm (1/8 inch)	

*WDMA Minimum Performance Standards Chart*

(a) See Section F7. Other formulations may exhibit similar performance characteristics, but must meet or exceed the performance level for the systems specified to be considered as equal

(b) Horizontal and vertical door edge screwholding applies when hardware is to be attached. See section C7 for blocking configuration and details.