



Product Update

Jan 16, 2024

#P420

Revision 02

WDMA PERFORMANCE DUTY LEVELS

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

Door Type	Hinge Loading	Screwholding	Cycle Slam
Particleboard (PC-3) – Non-rated & 20-minutes (Holstein Facility)	Extra Heavy Duty	Extra Heavy Duty – meets requirements when blocking included for screw-attached surface hardware. Heavy Duty – meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty
Particleboard (PC-5) – Non-rated & 20-minute	Extra Heavy Duty	Extra Heavy Duty – meets requirements when blocking included for screw-attached surface hardware. Heavy Duty – meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty
Particleboard (PC-5) – 45-minute (Neenah & Two Rivers Facilities)	Extra Heavy Duty	Extra Heavy Duty	Extra Heavy Duty
Agrifiber Core Doors (WSPC-5)	Extra Heavy Duty	Extra Heavy Duty – meets requirements when blocking included for screw-attached surface hardware. Heavy Duty – meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty
Structural Composite Lumber (SCLC-5)	Extra Heavy Duty	Extra Heavy Duty	Extra Heavy Duty
Fire Composite Core (FD-5)	Extra Heavy Duty	Extra Heavy Duty – meets requirements when blocking included for screw-attached surface hardware. Heavy Duty – meets requirements without blocking for screw-attached surface hardware.	Extra Heavy Duty
Composite Sound Core (STC-5)	Extra Heavy Duty	Extra Heavy Duty – meets requirements when blocking included for screw-attached surface hardware. Heavy Duty – meets requirements without blocking for screw-attached surface hardware.*	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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Product Update

ANSI/WDMA I.S.1A Flush Wood Door Minimum Performance Standards

Performance Attribute	Performance Duty Level		
	Extra Heavy Duty	Heavy Duty	Standard Duty
Adhesive Bond Durability, WDMA TM-6	Type I or Type II	Type I or Type II	Type I or Type II
Cycle Slam, WDMA TM-7	1,000,000 cycles	500,00 cycles	250,000 cycles
Hinge-Loading, WDMA TM-8	2440 N (550 lbs.)	2110 N (475 lbs.)	1780 N (400 lbs.)
Door Finishes Various ASTM test methods	TR-6/OP-6 or equal ^(a)	TR-4/OP-4 or equal ^(a)	TR-2/OP-2 or equal ^(a)
Screwholding, WDMA TM-10 Stile and Rail Face Vertical Door Edge ^(b) Horizontal Door Edge ^(b)	2440 N (550 lbs.)	2110 N (475 lbs.)	1780 N (400 lbs.)
	2440 N (550 lbs.)	2110 N (475 lbs.)	1780 N (400 lbs.)
	1330 N (300lbs.)	1060 N (240 lbs.)	810 N (180 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 3.2mm (1/8 inch)		

Notes:

^(a) See Section F7. Other formulations may exhibit similar performance characteristics, but must meet or exceed the performance levels 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.

Extra Heavy Duty	Typically involves doors where use is considered heavy and frequent and requires the highest minimum performance standards
Heavy Duty	Typically involves doors where usage is moderate and requires intermediate minimum performance standards.
Standard Duty	Typically involves doors where use is low and requires the lowest minimum performance standards