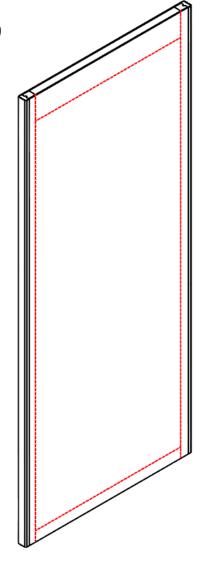


# 45 Minute Rated Mineral (FD5-45PP)

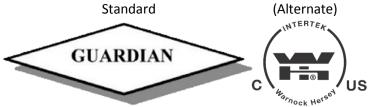
Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

(Fire Test Standards – IBC, UL-10C, CAN/ULC S104, & NFPA 252)

	Single Swing P	Pair or Double Egress	
Core Type & Standards	Mineral Composite: (28-35 lb/ft³)		
Maximum Sizes	4'0" x 9'0" 8'0" x 9'0"		
<b>Protection Plates</b>	Up to 48" (above bottom of door)		
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")		
Weight	6.20lb/ft <sup>2</sup> (3070 Door = 130lbs) (4070 Door = 173lbs)		
Crossband	High Density FSC Fil	berboard	
Blocking	(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)		
<b>Assembly Adhesive</b>	Face: Type I (water	proof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Field Replaceable Mineral/SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers		
Replaceable Edge Profile	Beveled, Square		
Lites	6" from edges, 5" from hardware or additional cutouts		
Max Visible Glass Area	1296 in <sup>2</sup>		
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	Any listed & labeled (45min or greater)		
Louvers	Not Available		
<b>Electronic Options</b>	Electronic hardware & raceways Available		
Hinges	Per NFPA 80 "Table 6.4.3.1"		
Points of Latching	• •	Pairs = 3pts (2pts w/ Blue Core) DE Pairs = 4pts (2pts w/ Blue Core)	
Pivots	Offset w/intermediate (Center hung not allowed)		
Locks	Mortise & Cylindrical (Max 5" Backset)		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
<b>Concealed Vertical Rod</b>	Available (With concealed 5" metal channel at latch edge)		
Flushbolts	Must Be Extension Type (Metal Door)		
<b>Closing Devices</b>	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted		
Transoms	Not Available		













38 -

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# Overview of Acrovyn Door Systems

#### Features & Benefits

- Acrovyn Doors will not tear, chip, or crack.
   Key to the doors durability is the rugged
   Acrovyn face and edge material.
- Acrovyn is 5 times as abrasion resistant as wood and twice as resistant as HPL.
- Integrated Acrovyn or stainless steel radiused edge guards wrap around both door stiles to provide the ultimate damage protection
- If ever damaged, the Acrovyn Door's edge guards & stiles can be easily replaced in the field for a longer door life.\*
- Contains no PBT's & is completely free of PVC
- Standard line of Acrovyn Doors are C2C certified at the Silver level

#### Acrovyn Face & Edge Finish Options

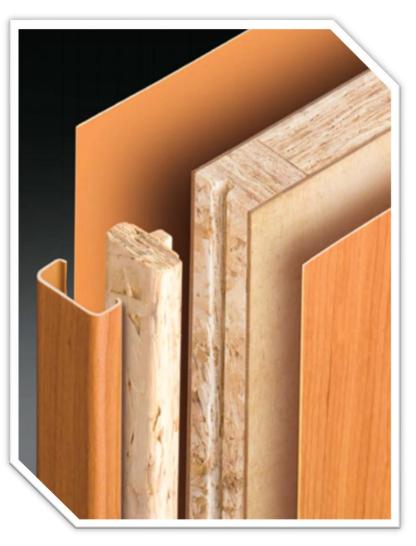
- 20 standard woodgrain & 2 metal Chameleon Acrovyn finishes available in a smooth suede texture
- 67 standard Acrovyn solid colors
- Stainless steel edges available in 20Ga type 304, #4 finish

#### **Technical Data**

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- Standards: WDMA I.S.1-A Extra Heavy Duty Door
- Lites & Louvers: Cutouts, vision kits, glazing, and louvers available\*
- Pre-machining available for all mortise hardware from manufacturer's templates & approved shop drawings
- Warranty: Limited Lifetime
- Top & bottom rails are factory sealed with an approved sealant.

#### **Standard Construction**



<u>U.S. Patents:</u> 7,621,102; 7,587,876; 7,775,013-B2; 7,886,501-B2.

<u>U.S. Design Patents:</u> D512 785S; D515 713S; D517 224S; D517 701S; D518 185S

- 4 -

<sup>\*</sup>As noted on the individual product data sheets



### Performance Attributes

#### All Door Products\*

- Cycle Slam: Extra Heavy Duty per WDMA TM-7, -2,000,000 cycles (2x the WDMA requirement)
- Hinge Loading: Extra Heavy Duty per WDMA TM-8
- Screw Holding: Extra Heavy Duty per WDMA TM-10
- **Door Finish Wear Index:** ASTM D4060-90 (Abrasion Resistance Testing)
- **Door Finish Chemical Resistance Testing:** ASTM D1308-93
- Door Finish Impact Resistance: ASTM D-4226
- Warp Tolerance: WDMA TM-2
- Stain Resistance/Cleanability: ASTM D1308-93 (Common Stains Easily Removed)
- Resistance to Fungi: ASTM G-21-96 Zero Fungal Growth (On Acrovyn Sheet)
- Resistance to Bacteria: ASTM G-22-96 Zero Bacterial Growth (On Acrovyn Sheet)
- Resistance to Fungi: ASTM G-21-2013 Zero Fungal Growth (<u>At Replaceable Edge Seam</u>)
- Resistance to Bacteria: ASTM G-22-2013 Zero Bacterial Growth (At Replaceable Edge Seam)

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

Daufaumanaa Attuibuta	Performance Duty Level			
Performance Attribute	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	500,000 cycles	250,000 cycles	
Hinge-Loading, WDMA TM-8	550 lbs. (2440 N)	475 lbs. (4110 N)	400 lbs. (1780 N)	
Door Finishes Various ASTM test methods	TR-6/OP-6 or equal **	TR-4/OP-4 or equal **	TR-2/OP-2 or equal **	
Screwholding, WDMA TM-10  Door Face (Blocked or unblocked)  Vertical Door Edge  Horizontal Door Edge	550 lbs. (2440 N) 550 lbs. (2440 N) 300 lbs. (1330 N)	475 lbs. (2110 N) 475 lbs. (2110 N) 240 lbs. (1060 N)	400 lbs. (1780 N)*** 400 lbs. (1780 N) 180 lbs. (810 N)	
Telegraph, Section T-1	Maximum 0.010 inch in any 3 inch span (0.25 mm in any 76 mm span)			
Warp Tolerance, Section T-2	Maximum 0.25 inch in any 3'-6" x 7'-0" (6.4 mm in any 1050 mm x 2100 mm) door section			
Squareness, Section T-3	Diagonal variance 1/8 inch (3.2 mm)			

<sup>\*</sup> Acrovyn Door model FC5-NR, meets Extra Heavy Duty for all sections above with the exception of "Screwholding WDMA TM-10 (unblocked)"

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<sup>\*\*</sup> Other formulations may exhibit similar performance characteristics, but must meet or exceed the performance levels for the systems specified to be considered as equal.

<sup>\*\*\*</sup> If screw holding power is less than 400 lbs. (1780 N) in a Standard Duty door, blocking or thru-bolts are recommended for operable hardware.



# LEED® v4 Contributions

	Building Product Disclosure and Optimization Credits			Indoor Environmental Quality Credits		
	Environment al Product Declarations	Raw Materials FSC/POST/PRE Recycled Content	Material Ingredients (3 <sup>rd</sup> party certification)	Regional Priority (manuf <100 miles away)	Low Emitting Materials (ULEF & NAF)	Emissions And Content (non- emitting)
Non-Rated – Agrifiber	C2C Silver	NO/0%/56%	C2C Silver	NO	YES	YES
Non-Rated - SCL	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
Non-Rated – FSC-PB	C2C Silver	YES/0%/100%	C2C Silver	NO	YES	YES
Non-Rated – PB	C2C Silver	NO/0%/58%	C2C Silver	NO	YES	YES
Non-Rated – SCL-STC30	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
Non-Rated - SCL-STC43-46	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<u> 20min – Agrifiber</u>	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<u>20min – SCL</u>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
20min – FSC-PB	C2C Silver	Yes/0%/0%	C2C Silver	NO	YES	YES
<u> 20min – PB</u>	C2C Silver	No/0%/36%	C2C Silver	NO	YES	YES
<u>45min – Mineral</u>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<u>60min – Mineral</u>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<u>90min – Mineral</u>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<u>Lead Lined – NR – Agrifiber</u>	N/A	NO/0%/0%	N/A	NO	YES	YES
Lead Lined – NR – SCL	N/A	NO/0%/0%	N/A	NO	YES	YES
<u>Lead Lined – NR – FSC-PB</u>	N/A	YES/0%/56%	N/A	NO	YES	YES
<u>Lead Lined – NR – PB</u>	N/A	NO/0%/0%	N/A	NO	YES	YES
<u>Lead Lined – 20min – FSC-PB</u>	N/A	YES/0%/56%	N/A	NO	YES	YES
<u>Lead Lined – 20min – PB</u>	N/A	NO/0%/56%	N/A	NO	YES	YES

The U.S. Green Building Council's LEED® green building program is the preeminent program for the design, construction, maintenance and operations of high-performance green buildings. Learn more at usgbc.org/LEED.



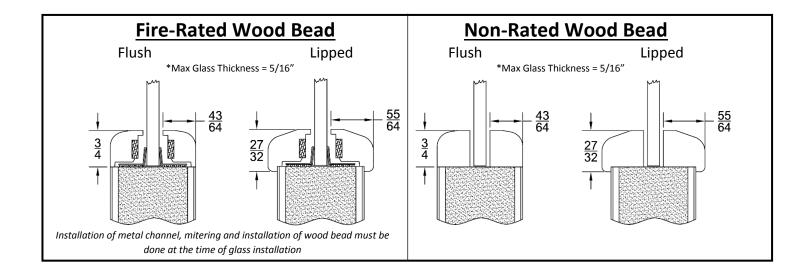
## LEED® 2009 v3.0 Contributions

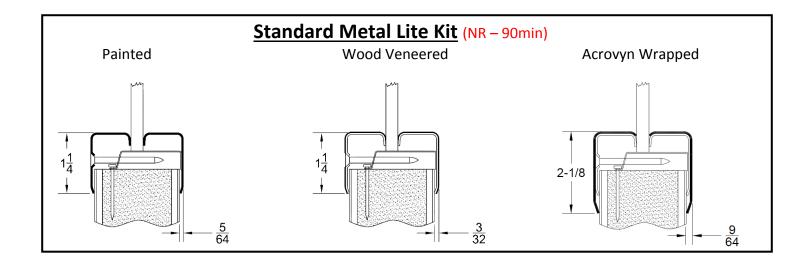
	Mater	Indoor Environmental Quality Credits		
	MR 4 Recycled Content	MR6 Rapidly Renewable	MR 7 Certified Wood	IEQ 4.4 No added Urea Formaldehyde
Non-Rated – Agrifiber	X	Х	Х	Х
Non-Rated - SCL			Х	Х
Non-Rated - FSC-PB	Х		Х	Х
Non-Rated – PB	Х			X
Non-Rated - SCL-STC30			Х	Х
Non-Rated - SCL-STC43-46				
20min – Agrifiber	Х	Х	Х	Х
<u> 20min – SCL</u>			Х	X
20min – FSC-PB	Х		Х	X
<u> 20min – PB</u>	X			X
45min – Mineral				X
<u> 60min – Mineral</u>				X
90min – Mineral				X
<u>Lead Lined – NR – Agrifiber</u>	X	Х	Х	X
Lead Lined – NR – SCL	Х			X
<u>Lead Lined – NR – FSC-PB</u>	Х		Х	X
<u>Lead Lined – NR – PB</u>	Х			X
<u>Lead Lined – 20min – FSC-PB</u>	X		Х	X
<u>Lead Lined – 20min – PB</u>	X			Х

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# Lite Kit Options

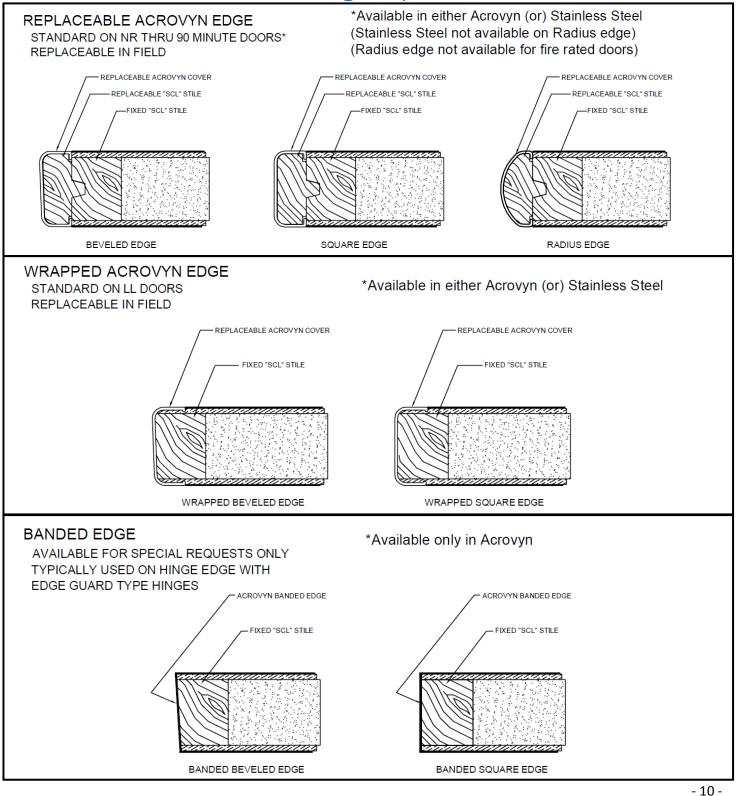




#### ALL DIMENSIONS NOTED ARE NOMINAL



# Door Edge Options



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