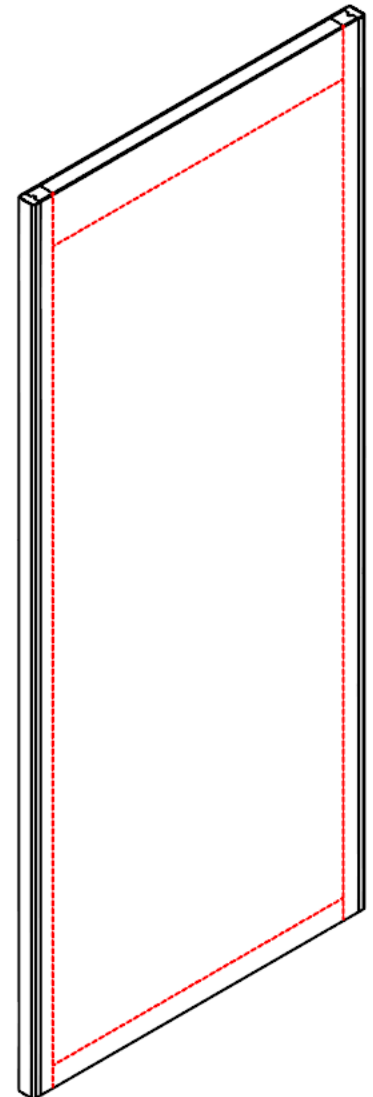


# 90 Minute Rated Mineral STC36 (FD5-90PP STC 36)

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

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

	Single Swing
<b>Core Type &amp; Standards</b>	GP Blue Core: (28-35 lb/ft <sup>3</sup> )
<b>Maximum Sizes</b>	4'0" x 9'0"
<b>Protection Plates</b>	Up to 48" (above bottom of door)
<b>Door Thickness</b>	1-3/4" (+/- 1/16")
<b>WDMA Prefit Tolerance</b>	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")
<b>Weight</b>	6.58lb/ft <sup>2</sup> (3070 Door = 137lbs) (4070 Door = 184lbs)
<b>Crossband</b>	High Density FSC Fiberboard
<b>Blocking</b>	(Standard) 5" top rail; 2" Bottom Rail; 5" Fixed Internal Stiles (Additional blocking upon request)
<b>Assembly Adhesive</b>	Face: Type I (waterproof); Core: Type II (water-resistant)
<b>Replaceable Edge Stiles &amp; Covers</b>	Non-Replaceable Mineral/SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers
<b>Replaceable Edge Profile</b>	Beveled, Square
<b>Lites</b>	Not Available
<b>Louvers</b>	Not Available
<b>Electronic Options</b>	Electronic hardware & raceways Available
<b>Hinges</b>	Per NFPA 80 "Table 6.4.3.1"
<b>Points of Latching</b>	Singles = 1pt
<b>Pivots</b>	Offset w/intermediate (Center hung not allowed)
<b>Locks</b>	Mortise & Cylindrical (Max 5" Backset)
<b>Exit Devices</b>	Surface Vertical Rod (Includes LBR), RIM & Mortised
<b>Concealed Vertical Rod</b>	Not Available
<b>Flushbolts</b>	Must Be Extension Type (Metal Door)
<b>Closing Devices</b>	Surface Mounted
<b>Door Bottoms</b>	Mortised or Surface Mounted
<b>Transoms</b>	Not Available
<b>STC-36 Operable</b> (Required Gaskets Option 1)	Pemko: S773 on head & jambs at stop face. S44 at head and jambs at outside rabbet, and 3692APK773
<b>STC-36 Operable</b> (Required Gaskets Option 2)	Pemko: S773 on head & jambs at stop face. S44 at head and jambs at outside rabbet. S771 lock stile at edge of leaf, and 3692APK773
<b>STC-36 Operable</b> (Required Gaskets Option 3)	Pemko: S44 on head & jambs at stop face. S44 at head & jambs at outside rabbet. S771 lock stile at edge of leaf, and 3692APK773



## 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

- 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.

\*As noted on the individual product data sheets

### Standard Construction



#### U.S. Patents:

7,621,102; 7,587,876; 7,775,013-B2; 7,886,501-B2.

#### U.S. Design Patents:

D512 785S; D515 713S; D517 224S; D517 701S; D518 185S

## 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 (At Replaceable Edge Seam)
- **Resistance to Bacteria:** ASTM G-22-2013 – Zero Bacterial Growth (At Replaceable Edge Seam)

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

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

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

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

\*\*\* 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)
<b><u>Non-Rated – Agrifiber</u></b>	C2C Silver	NO/0%/56%	C2C Silver	NO	YES	YES
<b><u>Non-Rated – SCL</u></b>	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<b><u>Non-Rated – FSC-PB</u></b>	C2C Silver	YES/0%/100%	C2C Silver	NO	YES	YES
<b><u>Non-Rated – PB</u></b>	C2C Silver	NO/0%/58%	C2C Silver	NO	YES	YES
<b><u>Non-Rated – SCL-STC30</u></b>	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<b><u>Non-Rated – SCL-STC43-46</u></b>	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<b><u>20min – Agrifiber</u></b>	C2C Silver	NO/0%/0%	C2C Silver	NO	YES	YES
<b><u>20min – SCL</u></b>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<b><u>20min – FSC-PB</u></b>	C2C Silver	Yes/0%/0%	C2C Silver	NO	YES	YES
<b><u>20min – PB</u></b>	C2C Silver	No/0%/36%	C2C Silver	NO	YES	YES
<b><u>45min – Mineral</u></b>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<b><u>60min – Mineral</u></b>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<b><u>90min – Mineral</u></b>	C2C Silver	NO/0%/36%	C2C Silver	NO	YES	YES
<b><u>Lead Lined – NR – Agrifiber</u></b>	N/A	NO/0%/0%	N/A	NO	YES	YES
<b><u>Lead Lined – NR – SCL</u></b>	N/A	NO/0%/0%	N/A	NO	YES	YES
<b><u>Lead Lined – NR – FSC-PB</u></b>	N/A	YES/0%/56%	N/A	NO	YES	YES
<b><u>Lead Lined – NR – PB</u></b>	N/A	NO/0%/0%	N/A	NO	YES	YES
<b><u>Lead Lined – 20min – FSC-PB</u></b>	N/A	YES/0%/56%	N/A	NO	YES	YES
<b><u>Lead Lined – 20min – PB</u></b>	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](http://usgbc.org/LEED).

## LEED® 2009 v3.0 Contributions

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

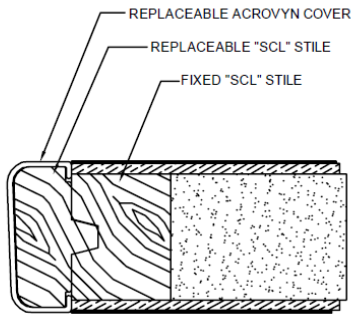
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## Door Edge Options

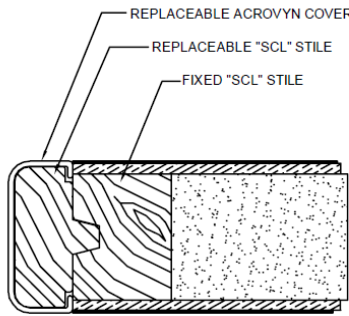
### REPLACEABLE ACROVYN EDGE

STANDARD ON NR THRU 90 MINUTE DOORS\*  
REPLACEABLE IN FIELD

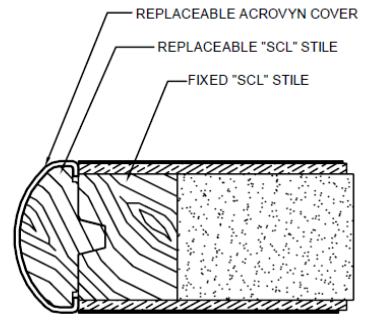
\*Available in either Acrovyn (or) Stainless Steel  
(Stainless Steel not available on Radius edge)  
(Radius edge not available for fire rated doors)



BEVELED EDGE



SQUARE EDGE

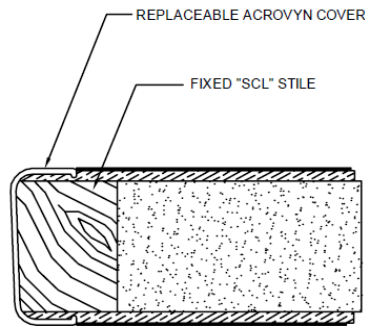


RADIUS EDGE

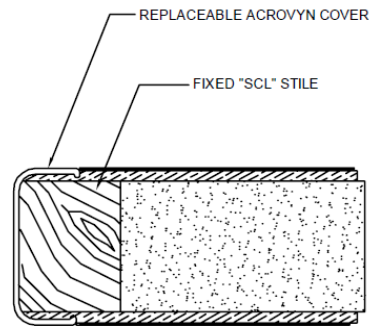
### WRAPPED ACROVYN EDGE

STANDARD ON LL DOORS  
REPLACEABLE IN FIELD

\*Available in either Acrovyn (or) Stainless Steel



WRAPPED BEVELED EDGE

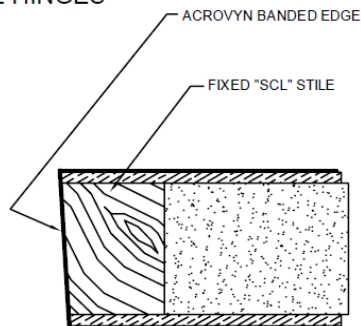


WRAPPED SQUARE EDGE

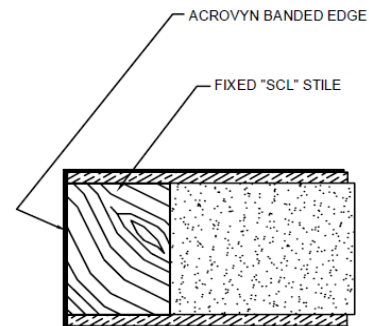
### BANDED EDGE

AVAILABLE FOR SPECIAL REQUESTS ONLY  
TYPICALLY USED ON HINGE EDGE WITH  
EDGE GUARD TYPE HINGES

\*Available only in Acrovyn



BANDED BEVELED EDGE



BANDED SQUARE EDGE