# Acrovyn<sup>®</sup> Doors

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# Acrovyn<sup>®</sup> Doors

#### 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



· Stainless steel edges available

See all finish options online at c-sgroup.com.

#### **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

 $\cdot$  Top & bottom rails are factory sealed with an approved sealant

See all finish options online at c-sgroup.com.

#### 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



## Acrovyn<sup>®</sup> Doors

#### **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 Duty Level		
Performance Attribute	Extra Heavy Duty	Fire Rating	Standard Duty
Adhesive Bond Durability, WDMA TM-6	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)		

\* 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.

# Acrovyn<sup>®</sup> Doors

#### LEED<sup>®</sup> v4 Contributions

	Building Product Disclosure and Optimization Credits		Indoor Environmental Quality Credits			
Performance Attribute	Environmental Product Declarations	Raw Materials FSC/POST/PRE Recycled Content	Material Ingredient Reporting & Optimization	Regional Priority (manuf. <100 miles away)	Low Emitting Materials (ULEF & NAF)	PH 01350 v1.2 Compliant
Non-Rated – Agrifiber	N/A	No/0%/56%	N/A	No	Yes	Yes
Non-Rated – SCL	N/A	No/0%/0%	N/A	No	Yes	Yes
Non-Rated – FSC-PB	N/A	YES/0%/100%	N/A	No	Yes	Yes
Non-Rated – PB	N/A	No/0%/58%	N/A	No	Yes	Yes
Non-Rated – SCL-STC30	N/A	No/0%/0%	N/A	No	Yes	Yes
Non-Rated – SCL-STC43-46	N/A	No/0%/0%	N/A	No	Yes	Yes
20min – Agrifiber	N/A	No/0%/0%	N/A	No	Yes	Yes
20min – SCL	N/A	No/0%/36%	N/A	No	Yes	Yes
20min – FSC-PB	N/A	Yes/0%/0%	N/A	No	Yes	Yes
20min – PB	N/A	No/0%/36%	N/A	No	Yes	Yes
45min – Mineral	N/A	No/0%/36%	N/A	No	Yes	Yes
60min – Mineral	N/A	No/0%/36%	N/A	No	Yes	Yes
90min – Mineral	N/A	No/0%/36%	N/A	No	Yes	Yes
Lead Lined – NR – Agrifiber	N/A	No/0%/0%	N/A	No	Yes	Yes
Lead Lined – NR – SCL	N/A	No/0%/0%	N/A	No	Yes	Yes
Lead Lined – NR – FSC-PB	N/A	YES/0%/56%	N/A	No	Yes	Yes
Lead Lined – NR – PB	N/A	No/0%/0%	N/A	No	Yes	Yes
Lead Lined – 20min – FSC-PB	N/A	YES/0%/56%	N/A	No	Yes	Yes
Lead Lined – 20min – PB	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.

## Acrovyn<sup>®</sup> Doors

#### LEED<sup>®</sup> 2009 v3.0 Contributions

	Materials & Resources Credits			Indoor Environmental Quality
Performance Attribute	MR 4 Recycled Content	MR6 Rapidly Renewable	MR 7 Certified Wood	IEQ 4.4 No Added Urea Formaldehyde
Non-Rated – Agrifiber	Х	Х	X	Х
Non-Rated – SCL			Х	х
Non-Rated – FSC-PB	Х		X	Х
Non-Rated – PB	Х			Х
Non-Rated – SCL-STC30			X	х
Non-Rated – SCL-STC43-46				
20min – Agrifiber	Х	Х	×	Х
20min – SCL			×	Х
20min – FSC-PB	Х		х	Х
20min – PB	Х			Х
45min – Mineral				х
60min – Mineral				Х
90min – Mineral				х
Lead Lined – NR – Agrifiber	Х	Х	Х	Х
Lead Lined – NR – SCL	Х			Х
Lead Lined – NR – FSC-PB	Х		Х	Х
Lead Lined – NR – PB	Х			Х
Lead Lined – 20min – FSC-PB	Х		Х	Х
Lead Lined – 20min – PB	х			Х

The U.S. Green Building Council's LEED<sup>®</sup> 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.

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## Lite Kit Options





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## Lite Kit Options (Cont.)





CENTER GLASS CUT SIZE = VISIBLE GLASS + 3/4" OUTER GLASS CUT SIZE = VISIBLE GLASS - 3/16" CUTOUT = VISIBLE GLASS + 1-5/8"

Louvers - Non-Rated (Anemostat AFDL)



#### **Standard Product Features:**

#### Material:

18GA. Cold Rolled Steel – Frame 22GA. Cold Rolled Steel – Louver Blades

#### Finish:

Grey Primer, Beige or Bronze Baked Enamel

#### Installation:

Self attaching using #8 x 1" Phillips head screws that fasten the auxiliary frame to the louver core, thru the cut out in the door. The corridor side of the frame is free of fasteners for added security.

**Free Air Flow:** 50% Free Area



#### **Optional Product Features:**

#### Material:

#304 OR #316 Stainless Steel, #4 Finish

#### Fasteners:

Special security screw fasteners available.

Louvers - Fire Rated (Anemostat FLDL)

# 

#### **Standard Product Features:**

#### Material:

18GA. Cold Rolled Steel Frame & Louver Blades 16GA. Inner support members

#### Finish:

Grey Primer, Beige or Bronze Baked Enamel

#### Installation:

Self attaching using #8 x 1" Phillips head screws that fasten the auxiliary frame to the louver core, thru the cut out in the door. The corridor side of the frame is free of fasteners for added security.

#### **Closing Assembly:**

Stainless steel operating springs assure proper action with the closing mechanism.

**Free Air Flow:** 40% Free Area



#### **Optional Product Features:**

Material:

#304 OR #316 Stainless Steel, #4 Finish

Fasteners:

Special security screw fasteners available.

#### Fire Ratings and Test Standards:

UL10C with Classification Markings Approved Listing – 20/45/60/90 Minutes Max width 24", Max height 24" Min width 10", Min height 6"

# Acrovyn<sup>®</sup> Doors

## **Door Edge Options**



# Acrovyn<sup>®</sup> Doors

## **Astragal Options**

Features:

- Field replaceable Acrovyn cover
- Made with the same durable Acrovyn sheet as the rest of the door
- Perfect color match to the door
- Offers a low profile "airfoil" design to deflect hard impacts
- Can be through bolted or attached using standard fasteners
- Offers a concealed fastener design (Unless through bolted)

#### Applications:

- Acrovyn Door pairs do not require the usage of Astragals to maintain fire rating
- To be used as a sight seal
- · Lead lined option available for use on lead lined doors

# Acrovyn Wrapped

# Acrovyn Wrapped (Lead)





# Acrovyn<sup>®</sup> Doors

#### **Standard Panel Door Designs**



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#### Montclair Panel Door Details





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#### **Somerset Panel Door Details**





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#### Madison Panel Door Details



NOTE: If detailing door widths between the sizes noted, panel widths will be used from the next largest size.

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#### Summit Panel Door Details



NOTE: If detailing door widths between the sizes noted, panel widths will be used from the next largest size.

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#### **Berkeley Panel Door Details**



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#### **Chatham Panel Door Details**



NOTE: If detailing door widths between the sizes noted, panel widths will be used from the next largest size.

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#### Montgomery Panel Door Details



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## **Plymouth Panel Door Details**





## Non-Rated Lightweight Core (FC5-NR) Bonded Lightweight Core, 5-Ply Construction

	Single Swing	Pair or Double Egress		
Core Type & Standards	Composite: WDMA "Standard Duty" *Meets WDMA "Extra Heavy Duty" for TM-6, TM-7, TM-8			
Complies with CARB Phase I &	II Emission Standards			
Maximum Sizes	4'3" x 8'0"	8′6″ x 8′0″		
Protection Plates	Up to 48" (above bottom of do	or)		
Door Thickness	1-3/4" (+/- 1/16")			
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thi	ckness: (+/- 1/16″)		
Weight	2.30lb/ft2 (3070 Door = 48lbs)	(4070 Door = 61lbs)		
Crossband	High Density FSC Fiberboard			
Blocking	(Standard) 5″ top rail; 1″ Bottor Blocks (Additional blocking up	n Rail; 1" Fixed Internal Stiles; Lock oon request)		
Assembly Adhesive	Face: Type I (waterproof); Core	: Type II (waterresistant)		
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. A Stainless Steel Replaceable Co			
Replaceable Edge Profile	Beveled, Square, Radius	Beveled, Square, Radius		
Lites	5" from edges, 1-1/2" from hardware or additional cutouts			
Max Lite Cutout Area	Up to 40% of door area. (If exceeded, SCL core required)			
Lite Frames	Metal – Painted, Wood Veneered, Acrovyn Wrapped			
Glazing	No restrictions			
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hard- ware or Additional Cutout			
Electronic Options	Not Available	Not Available		
Hinges	Mortised, Surface & Continuou	IS		
Pivots	Center hung & offset w/ interm	nediate		
Sliding Door Compatible	Yes			
Locks	Mortise & Cylindrical			
Exit Devices	Not Available			
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Type (Metal	l Door)		
Closing Devices	Mortised or Surface Mounted			
Door Bottoms	Mortised or Surface Mounted			
Transoms	Available			

(Surface mounted hardware shall be through-bolted)









## Non-Rated Agrifiber (AF5-NR) Bonded Agrifiber Core, 5-Ply Construction

	Single Swing	Pair or Double Egress		
Core Type & Standards	Agrifiber: ANSI A208.1.2009 grade LD-1 (26-28 lb/ft3)			
Complies with CARB Phase I & II Emission Standards				
Maximum Sizes	4'3" x 9'0"	8′6″ x 9′0″		
Protection Plates	Up to 48" (above bottom of doo	r)		
Door Thickness	1-3/4" OR 1-3/8" (+/- 1/16")			
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	kness: (+/- 1/16")		
Weight	5.08lb/ft2 (3070 Door = 107lbs)	(4070 Door = 142lbs)		
Crossband	High Density FSC Fiberboard			
Blocking	(Standard) 5" top rail; 1" Bottom Stiles (Additional blocking upon			
Assembly Adhesive	Face: Type I (waterproof); Core: 1	Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acr finish Stainless Steel Replaceable			
Replaceable Edge Profile	Beveled, Square, Radius	Beveled, Square, Radius		
Lites	5" from edges, 1-1/2" from hardware or additional cutouts			
Max Lite Cutout Area	Up to 40% of door area. (If exceeded, SCL core required)			
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped			
Glazing	No restrictions			
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout			
Electronic Options	Electronic hardware & raceways available			
Hinges	Mortised, Surface & Continuous			
Pivots	Center hung & offset w/ interme	diate		
Sliding Door Compatible	Yes			
Locks	Mortise & Cylindrical			
Exit Devices	Surface Vertical Rod (Includes LE	BR), RIM & Mortised		
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Type (Metal D	Door)		
Closing Devices	Mortised or Surface Mounted	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted			
Transoms	Available			











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## Non-Rated FSC Particleboard (FSC-PC5-NR) Bonded FSC Particleboard Core, 5 -Ply Construction

	Circula Contrar	Deinen Deutste F	
	Single Swing	Pair or Double Egress	
Core Type & Standards	FSC Certified Particleboard: ANSI A208.1.2009 grade LD-1 (32 lb/ft3)		
Complies with CARB Phase I & II Emission Standards			
Maximum Sizes	4′3″ x 9′0″	8′6″ x 9′0″	
Protection Plates	Up to 48" (above bottom of door	r)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	ness: (+/- 1/16")	
Weight	5.22lb/ft2 (3070 Door = 110lbs)	(4070 Door = 147lbs)	
Crossband	High Density FSC Fiberboard		
Blocking	(Standard) 5" top rail; 1" Bottom Stiles (Additional blocking upon		
Assembly Adhesive	Face: Type I (waterproof); Core: T	ype II (water-resistant)	
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acro finish Stainless Steel Replaceable		
Replaceable Edge Profile	Beveled, Square, Radius		
Lites	5" from edges, 1-1/2" from hardware or additional cutouts		
Max Lite Cutout Area	Up to 40% of door area. (If exceeded, SCL core required)		
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	No restrictions		
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout		
Electronic Options	Electronic hardware & raceways available		
Hinges	Mortised, Surface & Continuous		
Pivots	Center hung & offset w/ interme	diate	
Sliding Door Compatible	Yes		
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes LE	BR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal D	)oor)	
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted		
Transoms	Available		











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## Non-Rated Particleboard (PC5-NR) Bonded Particleboard Core, 5 -Ply Construction

	Single Swing	Pair or Double Egress		
Core Type & Standards	Particleboard: ANSI A208.1.2009 grade LD-1(32 lb/ft3)			
Maximum Sizes	4′3″ x 9′0″	8′6″ x 9′0″		
Protection Plates	Up to 48" (above bottom of doc	or)		
Door Thickness	1-3/4" (+/- 1/16")			
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thic	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")		
Weight	5.27lb/ft2 (3070 Door = 111lbs)	(4070 Door = 148lbs)		
Crossband	High Density FSC Fiberboard			
Blocking	(Standard) 5" top rail; 1" Bottom Stiles (Additional blocking upor			
Assembly Adhesive	Face: Type I (waterproof); Core:	Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Ac finish Stainless Steel Replaceab	rovyn and/or 20GA #4 le Covers		
Replaceable Edge Profile	Beveled, Square, Radius			
Lites	5" from edges, 1-1/2" from hard	5" from edges, 1-1/2" from hardware or additional cutouts		
Max Lite Cutout Area	Up to 40% of door area. (If exce	Up to 40% of door area. (If exceeded, SCL core required)		
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped			
Glazing	No restrictions			
Louvers	Up to 24" x 24"; 10" From Botton Hardware or Additional Cutout	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout		
Electronic Options	Electronic hardware & raceways available			
Hinges	Mortised, Surface & Continuous	S		
Pivots	Center hung & offset w/ interm	ediate		
Sliding Door Compatible	Yes			
Locks	Mortise & Cylindrical			
Exit Devices	Surface Vertical Rod (Includes L	BR), RIM & Mortised		
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Type (Metal	Door)		
Closing Devices	Mortised or Surface Mounted	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted			
Transoms	Available			
	1			









## Non-Rated SCL (SCL5-NR) Bonded SCL Core, 5-Ply Construction

	Single Swing	Pair or Double Egress		
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)			
Maximum Sizes	4'3" x 9'0"	8′6″ x 9′0″		
Protection Plates	Up to 48" (above bottom of doo	r)		
Door Thickness	1-3/4" OR 1-3/8" (+/- 1/16")			
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thicl	kness: (+/- 1/16")		
Weight	6.87lb/ft2 (3070 Door = 144lbs)	(4070 Door = 193lbs)		
Crossband	High Density FSC Fiberboard			
Blocking	(Standard) Full Core Blocking; 1	' Fixed Internal Stiles		
Assembly Adhesive	Face: Type I (waterproof); Core:	Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acr finish Stainless Steel Replaceabl			
Replaceable Edge Profile	Beveled, Square, Radius			
Lites	5" from edges, 1-1/2" from hardy	ware or additional cutouts		
Max Lite Cutout Area	No restrictions	No restrictions		
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped			
Glazing	No restrictions			
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout			
Electronic Options	Electronic hardware & raceways available			
Hinges	Mortised, Surface & Continuous			
Pivots	Center hung & offset w/ interme	ediate		
Sliding Door Compatible	Yes			
Locks	Mortise & Cylindrical			
Exit Devices	Surface Vertical Rod (Includes L	BR), RIM & Mortised		
Concealed Vertical Rod	Available (Includes LBR)			
Flushbolts	Must Be Extension Type (Metal I	Door)		
Closing Devices	Mortised or Surface Mounted			
Door Bottoms	Mortised or Surface Mounted			
Transoms	Available			









## Non-Rated Panel Door (PN SCL5-NR) Bonded SCL Core, 5-Ply Construction

	Single Swing	Pair or Double Egress	
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)		
Maximum Sizes	4'3" x 10'0"	8′6″ x 10′0″	
Protection Plates	Up to 48" (above bottom of doo		
Door Thickness	1-3/4" (+/- 1/16")	• /	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thic	knors: (+ / 1/16")	
	6.87lb/ft2 (3070 Door = 144lbs)		
Weight		(4070  D00r = 1931 bs)	
Crossband	High Density FSC Fiberboard		
Blocking	(Standard) Full Core Blocking; 1	"Fixed Internal Stiles	
Assembly Adhesive	Face: Type I (waterproof); Core:	Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Act finish Stainless Steel Replaceabl		
Replaceable Edge Profile	Beveled, Square, Radius		
Lites	5" from edges, 1-1/2" from hard	ware or additional cutouts	
Max Lite Cutout Area	Lite cutout must replace one en	Lite cutout must replace one entire panel	
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	No restrictions		
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout		
Electronic Options	Electronic Hardware & Raceways Available, Except Behind Recessed Portions of the Panels		
Hinges	Mortised, Surface & Continuous	Mortised, Surface & Continuous	
Pivots	Center hung & offset w/ interme	ediate	
Sliding Door Compatible	Yes		
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes L	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted		
Transoms	Available		
Panel Design Options	8 standard options		
	. F		







## Non-Rated Barrier Resistant (BR SCL5-NR) Bonded SCL Core, 5-Ply Construction

	Single Swing ONLY	
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)	
Maximum Sizes	4'3" x 10'0" Minimum Width: 2'8"	
Wicket Door Size	Standard: 16" X 60", Max Width: 1	14" LESS main door
Wicket Door Location	Centered in width; 10" from Bott	om of Door
Protection Plates	Up to 48" (above bottom of doo	r)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	kness: (+/- 1/16")
Weight	6.87lb/ft2 (3070 Door = 144lbs)	(4070 Door = 193lbs)
Crossband	High Density FSC Fiberboard	
Blocking	(Standard) Full Core Blocking; 1"	Fixed Internal Stiles
Assembly Adhesive	Face: Type I (waterproof); Core: 1	ype II (water-resistant)
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acr finish Stainless Steel Replaceable	
Replaceable Edge Profile	Beveled, Square, Radius	
Wicket Door Edge	Beveled Rabbeted Design	
Lites	5" from edges, 1-1/2" from hardv	vare or additional cutouts
Max Lite Cutout Area	Lite cutout Max width = 6"; Max	Height = 35"
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	No restrictions	
Louvers	Up to 24" x 24"; 10" From Botton Hardware or Additional Cutout	n of Door & 1-1/2" From
Electronic Options	Electronic Hardware & Raceways Recessed Portions of the Panels	Available, Except Behind
Hinges (Main Door)	Mortised, Surface & Continuous	
Hinges (Wicket Door)	(2) Tectus TE-340-3d, Included B	y CS
Pivots (Main Door)	Center hung & offset w/ intermediate	
Locks (Main Door)	Mortise & Cylindrical	
Locks (Wicket Door)	Recommended: Circular drive-in latch, single sided deadbolt	
Exit Devices	Not Available	
Concealed Vertical Rod	Not Available	
Flushbolts	Not Available	
Closing Devices	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Available	







# Acrovyn<sup>®</sup> Doors

#### **Barrier Resistant Door Details**



## Non-Rated Dutch Door (DD SCL5-NR) Bonded SCL Core, 5-Ply Construction

	Single Swing	Pair or Double Egress
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)	
Maximum Sizes	4′3″ x 10′0″	8′6″ x 10′0″
Protection Plates	Up to 48" (above bottom of doo	r)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thicl	kness: (+/- 1/16")
Weight	6.87lb/ft2 (3070 Door = 144lbs)	(4070 Door = 193lbs)
Crossband	High Density FSC Fiberboard	
Blocking	(Standard) Full Core Blocking; 1'	'Fixed Internal Stiles
Assembly Adhesive	Face: Type I (waterproof); Core:	Type II (water-resistant)
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acr finish Stainless Steel Replaceabl	rovyn and/or 20GA #4 e Covers
Replaceable Edge Profile	Beveled, Square, Radius	
Lites	5" from edges, 1-1/2" from hardware or additional cutouts	
Max Lite Cutout Area	No restrictions	
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	No restrictions	
Louvers	Up to 24" x 24"; 10" From Bottom of Door & 1-1/2" From Hardware or Additional Cutout	
Electronic Options	Electronic hardware & raceways available	
Hinges	Mortised, Surface & Continuous	
Pivots	Center hung & offset w/ interme	ediate
Locks	Mortise & Cylindrical	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (Includes LBR)	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Available	
Shelf Options	Optional – Single or Double sided, with or without gussets Max shelf overhang – 6 inches	









## Non-Rated STC30 (SCL5-NR STC 30) Bonded Core, 5 -Ply Construction

	Single Swing	Pair or Double Egress
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)	
Maximum Sizes	4'0" x 8'0" N/A	
Protection Plates	Up to 48" (above bottom of door	r)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	xness: (+/- 1/16")
Weight	6.87lb/ft2 (3070 Door = 144lbs)	(4070 Door = 193lbs)
Crossband	High Density FSC Fiberboard	
Blocking	(Standard) Full Core Blocking; 1"	Fixed Internal Stiles
Assembly Adhesive	Face: Type I (waterproof); Core: T	「ype II (water-resistant)
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	
Lites	Not Available	
Lite Frames	Not Available	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Mortised, Surface & Continuous	
Pivots	Center hung & offset w/ intermediate	
Locks	Mortise & Cylindrical	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Available	
STC-30 Operable (Required Gasketing)	Top & Edge of Door: NGP 107NA; Bottom: NGP 420N	









## Non-Rated Mineral STC43/46 (SCL5-NR STC 43-46) Bonded SCL Core, 5-Ply Construction, Cat. A, PP

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

	Single Swing	Pair or Double Egress	
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)		
Maximum Sizes	4'0" x 8'0" N/A		
Protection Plates	Up to 48" (above bottom of doo	r)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thicl	kness: (+/- 1/16″)	
Weight	6.87lb/ft2 (3070 Door = 144lbs)	(4070 Door = 193lbs)	
Crossband	High Density FSC Fiberboard		
Blocking	(Standard) Full Core Blocking; 1	" Fixed Internal Stiles	
Assembly Adhesive	Face: Type I (waterproof); Core:	Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Non-Replaceable SCL Stiles. Acr finish. Stainless Steel Replaceab		
Replaceable Edge Profile	Beveled, Square		
Lites	Not Available		
Lite Frames	Not Available		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Mortised, Surface & Continuous		
Pivots	Center hung & offset w/ interme	Center hung & offset w/ intermediate	
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes L	BR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal I	Door)	
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted		
Transoms	Available		
STC-43 (Operable) (Required Gasketing)	Top & Edge of Door: Pemko Model S88, S773 & S771; Bottom: Zero 367		
STC-44 (Operable) (Required Gasketing)	Top & Edge of Door: Pemko Model 188 & 119; Bottom: Zero 367		
STC-45 (Operable) (Required Gasketing)	Top & Edge of Door: Pemko Model 475 & 119; Bottom: Zero 367		
STC-46 (Operable) (Required Gasketing)	Top & Edge of Door: Pemko Model 475 & 119; Bottom: Zero 367, Zero 328 door sweep, & Zero 63A door Threshold		







**Construction Specialties**<sup>•</sup>

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## 20 Minute Rated Agrifiber (AF5-20PP) Bonded Agrifiber Core, 5-Ply Construction, Cat. A, PP

Complies with CARB Phase I & II Emission Standards     Waximum Sizes   4'3" x 9'0"   8'0" x 9'0"     Protection Plates   Up to 48" (above bottom of door)     Door Thickness   1-3/4" (+/- 1/16")     WMMA Prefit Tolerance   Width: (+/- 1/32") Height & Thickness: (+/- 1/16")     Wolf Standard) 5"   Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Replaceable Edge Stiles & Covers   Face: Type I (water proof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Covers   Fried Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Wax Visible Glass Area   1296 in <sup>2</sup> Lite Frames   Wood beads; Metal - Painted, Wood Veneered, Acrovyn Wrapped     Stazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1 pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Privots   Offset w/ intermediate (Center hung not allowed)   Cocks		(Fire Test Standards	- IBC, UL-10C, CAN/ULC S104, & NFPA 252)	
Complies with CARB Phase I & II Emission Standards     Waximum Sizes   4'3" x 9'0"   8'0" x 9'0"     Protection Plates   Up to 48" (above bottom of door)     Door Thickness   1-3/4" (+/- 1/16")     WMMA Prefit Tolerance   Width: (+/- 1/32") Height & Thickness: (+/- 1/16")     Wolf Standard) 5"   Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Replaceable Edge Stiles & Covers   Face: Type I (water proof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Covers   Fried Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Wax Visible Glass Area   1296 in <sup>2</sup> Lite Frames   Wood beads; Metal - Painted, Wood Veneered, Acrovyn Wrapped     Stazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1 pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Privots   Offset w/ intermediate (Center hung not allowed)   Cocks		Single Swing	Pair or Double Egress	
Maximum Sizes4'3" x 9'0"8'0" x 9'0"Protection PlatesUp to 48" (above b∪tom of door)Door Thickness1-3/4" (+/- 1/16")NDMA Prefit ToleranceWidth: (+/- 1/32") Height & Thickness: (+/- 1/16")Weight5.11lb/ft2 (3070 Door = 107lbs) (4070 Door = 143lbs)CrossbandHigh Density FSC FiberboardSlocking(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)Assembly AdhesiveFace: Type I (waterprof); Core: Type II (water-resistant)Teplaceable Edge Stiles & CoversField Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable CoversReplaceable Edge ProfileBeveled, SquareLites5" From Edges, 1-1/2" From Hardware or Additional CutoutsMax Visible Glass Area1296 in²Lite FramesWood beads; Net JWood beads; Net JPainted, Wood Veneered, AcrovynWirappedSingles = 1ptSolaris of LatchingSingles = 1ptPoints of LatchingSingles = 1ptPrivotsOffset w/ intermediat/ (Center hung not allowed)LocksMortise & Cylindrical RodKir DevicesSurface Vertical RodMortise & Cylindrical RodNot AvailableExt DevicesSurface Vertical RodMax Usible Is AreaSurface Vertical RodInternediateSurface Vertical RodMax Usible Glass AreaSingles = 1ptSolaris of LatchingSingles = 1ptPoints of LatchingSingles = 1ptPoints G LatchingSurface Vertical Rod <th>Core Type &amp; Standards</th> <td colspan="3">Agrifiber: ANSI A208.1.2009 grade LD-1 (26-28 lb/ft<sup>3</sup>)</td>	Core Type & Standards	Agrifiber: ANSI A208.1.2009 grade LD-1 (26-28 lb/ft <sup>3</sup> )		
Protection Plates   Up to 48" (above bottom of door)     Door Thickness   1-3/4" (+/- 1/16")     NDMA Prefit Tolerance   Width: (+/- 1/32") Height & Thickness: (+/- 1/16")     Neight   5.11lb/ft2 (3070 Door = 107lbs) (4070 Door = 143lbs)     Crossband   High Density FSC Fiberboard     Blocking   (Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Assembly Adhesive   Face: Type I (waterproof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Covers   Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square   Ecovers     Max Visible Glass Area   1296 in <sup>2</sup> Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in <sup>2</sup> Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Slazing   Any listed & labeled (20min or greater)     Louvers   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt   Pains & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Points of Latching   Singles = 1pt   Pains & DE w/ No Hose Stream	Complies with CARB Phase I & II	Emission Standards		
Door Thickness   1-3/4" (+/- 1/16")     WDMA Prefit Tolerance   Width: (+/- 1/32") Height & Thickness: (+/- 1/16")     Weight   5.11lb/ft2 (3070 Door = 107lbs) (4070 Door = 143lbs)     Crossband   High Density FSC Fiberboard     Slocking   (Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Assembly Adhesive   Face: Type I (waterproof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Ster From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in²     Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Slazing   Any listed & labeled (20min or greater)     .ouvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt     Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Privots   Offset w/ intermediate (Center hung not allowed)     .ocks   Mortise & Cylindrical (Max 5" Backset)     Start Devices   Surface Ve	Maximum Sizes	4′3″ x 9′0″	8'0" x 9'0"	
NDMA Prefit Tolerance   Width: (+/- 1/32") Height & Thickness: (+/- 1/16")     Weight   5.111b/ft2 (3070 Door = 107lbs) (4070 Door = 143lbs)     Crossband   High Density FSC Fiberboard     Slocking   (Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Assembly Adhesive   Face: Type I (waterproof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Covers   Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in²     Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Slacting   Any listed & labeled (20min or greater)     Not Available   Electronic hardware vaceways available     Electronic Options   Electronic hardware (center hung not allowed)     Points of Latching   Singles = 1pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Privots   Offset w/ intermediate (Center hung not allowed)   Exit Devices     Surface Vertical Rod (Includes LBR), RIM & Mortised   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must us	Protection Plates	Up to 48" (above bot	tom of door)	
Weight5.11lb/ft2 (3070 Door = 107lbs) (4070 Door = 143lbs)CrossbandHigh Density FSC FiberboardBlocking(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)Replaceable XdhesiveFace: Type I (waterproof); Core: Type II (water-resistant)Replaceable Edge Stiles & CoversField Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable CoversReplaceable Edge ProfileBeveled, SquareBeveled, SquareS" From Edges, 1-1/2" From Hardware or Additional CutoutsMax Visible Glass Area1296 in²Lite FramesWood beads; Metal – Painted, Wood Veneered, Acrovyn WrappedSlazingAny listed & labeled (20min or greater)LouversNot AvailableElectronic OptionsElectronic hardware vaceways availableHingesPer NFPA 80 "Table 6.4.3.1"Points of LatchingSingles = 1 ptPairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4ptsPrivotsOffset w/ intermediate (Center hung not allowed)LocksMortise & Cylindrical (Max 5" Backset)Exit DevicesSurface Vertical Rod (Includes LBR), RIM & MortisedConcealed Vertical RodNot Available (Must use SCL core)HushbitsMust Be Extension Type (Metal Door)	Door Thickness	1-3/4" (+/- 1/16")		
Crossband   High Density FSC Fiberboard     Slocking   (Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stilles (Additional blocking upon request)     Assembly Adhesive   Face: Type I (waterproof); Core: Type II (water-resistant)     Replaceable Edge Stiles & field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Sites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in <sup>2</sup> Lites   S" Good beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Slazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Points of Latching   Singles = 1pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Privots   Offset w/ intermediate (Center hung not allowed)   Strip Second     Locks   Mortise & Cylindrical (Max 5" Backset)   Strip Second     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Huisholts   Must Be Extension Type (Metal Door)	WDMA Prefit Tolerance	Width: (+/- 1/32") He	eight & Thickness: (+/- 1/16")	
Stocking   (Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)     Assembly Adhesive   Face: Type I (waterproof); Core: Type II (water-resistant)     Replaceable Edge Stiles & Covers   Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Steel Replaceable Edge Profile   Beveled, Square     Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in <sup>2</sup> Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Stazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     tinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)   Incudes     Locks   Mortise & Cylindrical (Max 5" Backset)   Stripeed     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Meta	Weight	5.11lb/ft2 (3070 Doc	or = 107lbs) (4070 Door = 143lbs)	
Glocking(Additional blocking upon request)Assembly AdhesiveFace: Type I (waterprof); Core: Type II (water-resistant)Replaceable Edge Stiles & CoversField Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable CoversReplaceable Edge ProfileBeveled, SquareLites5" From Edges, 1-1/2" From Hardware or Additional CutoutsMax Visible Glass Area1296 in²Lite FramesWood beads; Metal - Painted, Wood Veneered, Acrovyn WrappedSoluersNot AvailableElectronic OptionsElectronic hardware (center hung not allowed)Points of LatchingSingles = 1ptPairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4ptsPrivotsOffset w/ intermediate (Center hung not allowed)CocksSurface Vertical RodInter SCL core)Exit DevicesSurface Vertical RodNot Available (Must use SCL core)Electronic Disc Wortised or Surface Wortised or Surface Wortied Door)Mark Surface Wortised Or Surface Wortied	Crossband	High Density FSC Fib	perboard	
Replaceable Edge Stiles & Covers   Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers     Replaceable Edge Profile   Beveled, Square     Lites   5" From Edges, 1-1/2" From Hardware or Additional Cutouts     Max Visible Glass Area   1296 in <sup>2</sup> Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Slazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1 pt     Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Blocking			
Coversfinish Stainless Steel Replaceable CoversReplaceable Edge ProfileBeveled, SquareS" From Edges, 1-1/2" From Hardware or Additional CutoutsMax Visible Glass Area1296 in²Lite FramesWood beads; Metal – Painted, Wood Veneered, Acrovyn WrappedSilazingAny listed & labeled (20min or greater)LouversNot AvailableElectronic OptionsElectronic hardware vaceways availableHingesPer NFPA 80 "Table 6.4.3.1"Points of LatchingSingles = 1ptPoints of LatchingOffset w/ intermediate (Center hung not allowed)LocksMortise & Cylindrical (Max 5" Backset)Surface Vertical RodNot Available (Must 5CL core)FushboltsMust Be Extension Type (Metal Door)Closing DevicesMortised or Surface Vertical Rod	Assembly Adhesive	Face: Type I (waterpr	oof); Core: Type II (water-resistant)	
Lites 5" From Edges, 1-1/2" From Hardware or Additional Cutouts Max Visible Glass Area 1296 in <sup>2</sup> Lite Frames Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped Slazing Any listed & labeled (20min or greater) Louvers Not Available Electronic Options Electronic hardware & raceways available Hinges Per NFPA 80 "Table 6.4.3.1" Points of Latching Singles = 1 pt Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts Pivots Offset w/ intermediate (Center hung not allowed) Locks Mortise & Cylindrical (Max 5" Backset) Exit Devices Surface Vertical Rod (Includes LBR), RIM & Mortised Concealed Vertical Rod Not Available (Must use SCL core) Hushbolts Must Be Extension Type (Metal Door)	Replaceable Edge Stiles & Covers			
Max Visible Glass Area   1296 in²     Lite Frames   Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped     Glazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1 pt     Privots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Mortised or Surface Mounted	Replaceable Edge Profile	Beveled, Square		
And responseNot See and WrappedLite FramesWood beads; Metal – Painted, Wood Veneered, Acrovyn WrappedGlazingAny listed & labeled (20min or greater)LouversNot AvailableLiteronic OptionsElectronic hardware & raceways availableElectronic OptionsElectronic hardware & raceways availableHingesPer NFPA 80 "Table 6.4.3.1"Points of LatchingSingles = 1 ptPairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4ptsPivotsOffset w/ intermediate (Center hung not allowed)LocksMortise & Cylindrical (Max 5" Backset)Exit DevicesSurface Vertical Rod (Includes LBR), RIM & MortisedConcealed Vertical RodNot Available (Must use SCL core)HushboltsMust Be Extension Type (Metal Door)Closing DevicesMortised or Surface Mounted	Lites	5" From Edges, 1-1/2	" From Hardware or Additional Cutouts	
Life Frames   Wrapped     Glazing   Any listed & labeled (20min or greater)     Louvers   Not Available     Louvers   Electronic hardware & raceways available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt     Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Mortised or Surface Mounted	Max Visible Glass Area	1296 in <sup>2</sup>		
Louvers   Not Available     Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt     Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Hust be Extension Type (Metal Door)   Mortised or Surface Mounted	Lite Frames			
Electronic Options   Electronic hardware & raceways available     Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1 pt     Pairs & DE w/ No Hose Stream = 2 pts Double Egress w/ Hose Stream = 4 pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Hust Be Extension Type (Metal Door)   Mortised or Surface Mounted	Glazing	Any listed & labeled (20min or greater)		
Hinges   Per NFPA 80 "Table 6.4.3.1"     Points of Latching   Singles = 1pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Mortised or Surface Mounted	Louvers	Not Available		
Points of Latching   Singles = 1 pt   Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Electronic Options	Electronic hardware	& raceways available	
Points of Latching   Singles = 1pt   Double Egress w/ Hose Stream = 4pts     Pivots   Offset w/ intermediate (Center hung not allowed)     Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Hinges	Per NFPA 80 "Table 6	.4.3.1″	
Locks   Mortise & Cylindrical (Max 5" Backset)     Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Points of Latching	Singles = 1pt		
Exit Devices   Surface Vertical Rod (Includes LBR), RIM & Mortised     Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Pivots	Offset w/ intermediate (Center hung not allowed)		
Concealed Vertical Rod   Not Available (Must use SCL core)     Flushbolts   Must Be Extension Type (Metal Door)     Closing Devices   Mortised or Surface Mounted	Locks	Mortise & Cylindrical (Max 5" Backset)		
Flushbolts Must Be Extension Type (Metal Door)   Closing Devices Mortised or Surface Mounted	Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Closing Devices Mortised or Surface Mounted	Concealed Vertical Rod	Not Available (Must use SCL core)		
	Flushbolts	Must Be Extension Type (Metal Door)		
Door Bottoms Mortised or Surface Mounted	Closing Devices	Mortised or Surface Mounted		
	Door Bottoms	Mortised or Surface Mounted		
Transoms     Available – Max opening size 4' x 9'	Transoms	Available – Max opening size 4' x 9'		







Standard







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## 20 Minute Rated FSC Particleboard (FSC PC5-20PP) Bonded Agrifiber Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standards	– IBC, UL-10C, CAN/ULC S104, & NFPA 25	
	Single Swing	Pair or Double Egress	
Core Type & Standards	FSC Certified Particl (32 lb/ft <sup>3</sup> )	FSC Certified Particleboard : ANSI A208.1.2009 grade LD-1 (32 lb/ft <sup>3</sup> )	
Complies with CARB Phase I &	II Emission Standards		
Maximum Sizes	4'3" x 9'0"	8′0″ × 9′0″	
Protection Plates	Up to 48" (above bo	ttom of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") He	eight & Thickness: (+/- 1/16")	
Weight	5.26lb/ft <sup>2</sup> (3070 Doc	or = 110lbs) (4070 Door = 147lbs)	
Crossband	High Density FSC Fil	berboard	
Blocking	(Standard) 5" top rai (Additional blocking	l; 1" Bottom Rail; 1" Fixed Internal Stiles g upon request)	
Assembly Adhesive	Face: Type I (waterp	roof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	5" From Edges, 1-1/2	5" From Edges, 1-1/2" From Hardware or Additional Cutouts	
Max Visible Glass Area	1296 in <sup>2</sup>	1296 in <sup>2</sup>	
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	Any listed & labeled	Any listed & labeled (20min or greater)	
Louvers	Not Available		
Electronic Options	Electronic hardware	& raceways available	
Hinges	Per NFPA 80 "Table 6	5.4.3.1″	
Points of Latching	Singles = 1pt	Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts	
Pivots	Offset w/ intermedia	Offset w/ intermediate (Center hung not allowed)	
Locks	Mortise & Cylindrica	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Rod	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available (Must	Not Available (Must use SCL core)	
Flushbolts	Must Be Extension T	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface	Mortised or Surface Mounted	
Transoms	Available – Max opening size 4' x 9'		







Standard









## 20 Minute Rated Particleboard (PC5-20PP) Bonded Particleboard Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standard	s – IBC, UL-10C, CAN/ULC S104, & NFPA 252	
	Single Swing	Pair or Double Egress	
Core Type & Standards	Particleboard : ANSI A208.1.2009 grade LD-1 (32 lb/ft <sup>3</sup> )		
Complies with CARB Phase I & I	I Emission Standards		
Maximum Sizes	4′3″ x 9′0″	8′0″ x 9′0″	
Protection Plates	Up to 48" (above bo	ttom of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") He	eight & Thickness: (+/- 1/16")	
Weight	5.30lb/ft2 (3070 Doc	or = 111lbs) (4070 Door = 148lbs)	
Crossband	High Density FSC Fil	oerboard	
Blocking	(Standard) 5" top rai (Additional blocking	l; 1″ Bottom Rail; 1″ Fixed Internal Stiles g upon request)	
Assembly Adhesive	Face: Type I (waterp	roof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	5" From Edges, 1-1/2	" 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 (20min or greater)		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6	5.4.3.1″	
Points of Latching	Singles = 1pt	Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts	
Pivots	Offset w/ intermediate (Center hung not allowed)		
Locks	Mortise & Cylindrical (Max 5" Backset)		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Concealed Vertical Rod	Not Available (Must use SCL core)		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surface Mounted		
Transoms	Available – Max opening size 4' x 9'		







Standard



Alternate





## 20 Minute Rated SCL5 (SCL5-20PP) Bonded SCL Core, 5 -Ply Construction, Cat. A, PP

	Fire Test Standard	ds – IBC, UL-10C, CAN/ULC S104, & NFPA 252)	
	Single Swing	Pair or Double Egress	
Core Type & Standards	Structural Compo	Structural Composite Lumber: (38 lb/ft <sup>3</sup> )	
Maximum Sizes	4′3″ x 10′0″	8′0″ × 10′0″	
Protection Plates	Up to 48" (above b	pottom of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32")	Height & Thickness: (+/- 1/16")	
Weight	6.92lb/Ft2 (3070 D (4070 Door = 193l	,	
Crossband	High Density FSC	Fiberboard	
Blocking	(Standard) 5" top i (Additional blocki	rail; 1" Bottom Rail; 1" Fixed Internal Stiles ng upon request)	
Assembly Adhesive	Face: Type I (water	rproof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		SCL Stiles. Acrovyn and/or 20GA #4 eel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square		
Lites	5" From Edges, 1-1	/2" From Hardware or Additional Cutouts	
Max Visible Glass Area	1296 in <sup>2</sup> w/ Hose 9	1296 in <sup>2</sup> w/ Hose Stream; 2814in <sup>2</sup> w/ No Hose Stream	
Lite Frames	Wood beads; Meta Wrapped	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any listed & labele	Any listed & labeled (20min or greater)	
Louvers	Not Available		
Electronic Options	Electronic hardwa	Electronic hardware & raceways available	
Hinges	Per NFPA 80 "Table	e 6.4.3.1″	
Points of Latching	Singles = 1pt	Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts	
Pivots	Offset w/ intermed	Offset w/ intermediate (Center hung not allowed)	
Locks	Mortise & Cylindri	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Ro	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With co	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surfac	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surfac	Mortised or Surface Mounted	
Transoms	Available – Max opening size 4' x 9'		







Standard









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## 20 Minute Rated Panel Door (PN SCL5-20PP) Bonded SCL Core, 5 -Ply Construction, Cat. A, PP

	Single Swing	Pair or Double Egress	
Core Type & Standards	Structural Composite Lumber: (38 lb/ft <sup>3</sup> )		
Maximum Sizes	4'0" x 10'0"	8′0″ x 10′0″	
Protection Plates	Up to 48" (above b	ottom of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32")	Height & Thickness: (+/- 1/16")	
Weight	6.92lb/Ft2 (3070 D (4070 Door = 193l		
Crossband	High Density FSC I	- iberboard	
Blocking	(Standard) 5" top r (Additional blockir	ail; 1" Bottom Rail; 1" Fixed Internal Stiles ng upon request)	
Assembly Adhesive	Face: Type I (water	proof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		SCL Stiles. Acrovyn and/or 20GA #4 el Replaceable Covers	
Replaceable Edge Profile	Beveled, Square		
Lites	5" From Edges, 1-1	5" From Edges, 1-1/2" From Hardware or Additional Cutouts	
Max Visible Glass Area	1296 in <sup>2</sup> w/ Hose S	1296 in <sup>2</sup> w/ Hose Stream; 2814in <sup>2</sup> w/ No Hose Stream	
Lite Frames	Wood beads; Meta Wrapped	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Louvers	Not Available	Not Available	
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table	Per NFPA 80 "Table 6.4.3.1"	
Points of Latching	Singles = 1pt	Pairs & DE w/ No Hose Stream = 2pts Double Egress w/ Hose Stream = 4pts	
Pivots	Offset w/ intermed	liate (Center hung not allowed)	
Locks	Mortise & Cylindrid	cal (Max 5" Backset)	
Exit Devices	Surface Vertical Rc	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With co	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Mounted		
Door Bottoms	Mortised or Surfac	Mortised or Surface Mounted	
Transoms	Available – Max op	Available – Max opening size 4' x 9'	
Panel Design Options	8 standard options	8 standard options	
Max Recess of Panel	3/8"		







Standard









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#### 20 Minute Rated Barrier Resistant (BR SCL5-20PP) Bonded SCL Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standard	ds – IBC, UL-10C, CAN/ULC S104, & NFPA 252)	
	Single Swing		
Core Type & Standards	Structural Composite Lumber: (38 lb/ft <sup>3</sup> )		
Maximum Sizes	4'3" X 10'0"	Minimum Width: 2'8"	
Wicket Door Size	Standard: 16" X 60", M (Up to 31-3/4"), Max H	ax Width: 14″ LESS main door leight: 75-3/4″	
Wicket Door Location	Centered in width; 10	" From Bottom of Door	
Protection Plates	Up to 48" (above bott	om of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Hei	ght & Thickness: (+/- 1/16")	
Weight	6.92lb/Ft2 (3070 Door (4070 Door = 193lbs)	r = 145lbs)	
Crossband	High Density FSC Fibe	erboard	
Blocking	(Standard) Full Core B	locking; 1" Fixed Internal Stiles	
Assembly Adhesive	Face: Type I (waterpro	of); Core: Type II (water-resistant)	
Face Matching	Continuous Grain Mat	tch Not Available	
Replaceable Edge Stiles & Covers		Field Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square		
Lites	5" From Edges, 1-1/2" From Hardware or Additional Cutouts		
Max Visible Glass Area	100 in2 (Max width =	4"; Max Height = 33")	
Lite Frames	Wood beads; Metal – Wrapped	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any listed & labeled (2	Any listed & labeled (20 min or greater)	
Louvers	Not Available	Not Available	
Electronic Options	Electronic hardware & raceways available		
Hinges (Main Door)	Per NFPA 80 "Table 6.4	Per NFPA 80 "Table 6.4.3.1"	
Hinges (Wicket Door)	(2) Tectus TE-340-3d, I	(2) Tectus TE-340-3d, Included By CS	
Pivots (Main Door)	Offset w/ Intermediat	Offset w/ Intermediate	
Locks (Main Door)	Mortise & Cylindrical	Mortise & Cylindrical	
Locks (Wicket Door)	Recommended: Circu deadbolt	Recommended: Circular drive-in latch, single sided deadbolt	
Exit Devices	Not Available		
Concealed Vertical Rod	Not Available	Not Available	
Flushbolts	Not Available	Not Available	
Closing Devices	Mortised or Surface N	lounted	
Door Bottoms	Mortised or Surface N	Mortised or Surface Mounted	
Transoms	Not Available		



Standard



Alternate

(Not Tested for Detention Application)



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#### 20 Minute Rated Dutch Door (DD SCL5-20PP) Bonded SCL Core, 5 -Ply Construction, Cat. A, PP

	(Fire Test Standards – I	BC, UL-10C, CAN/ULC S104, & NFPA 252)
	Single Swing	
Core Type & Standards	Structural Composite Lumber: (38 lb/ft3)	
Maximum Sizes	4′0″ x 8′0″	
Protection Plates	Up to 48" (above bottom o	f door)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height 8	a Thickness: (+/- 1/16")
Weight	6.92lb/ft2 (3070 Door = 14	5lbs) (4070 Door = 193lbs)
Crossband	High Density FSC Fiberboa	ırd
Blocking	(Standard) 5" top rail; 1" Bo (Additional blocking upon	ttom Rail; 1" Fixed Internal Stiles request)
Assembly Adhesive	Face: Type I (waterproof); (	Core: Type II (water-resistant)
Replaceable Edge Stiles & Covers	Field Replaceable SCL Stile finish Stainless Steel Repla	es. Acrovyn and/or 20GA #4 ceable Covers
Replaceable Edge Profile	Beveled, Square	
Lites	5" from edges, 1-1/2" from	hardware or additional cutouts
Max Visible Glass Area	1296 in2 (Top leaf only) Max Visible Glass width = 36"	
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any listed & labeled (20min or greater)	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Per NFPA 80 "Table 6.4.3.1"	,
Points of Latching	Singles = 2pt	Each leaf must latch into the frame
Pivots	Offset w/intermediate (Cer	nter hung not allowed)
Locks	Mortise & Cylindrical (Max	5" Backset)
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Available – Max opening size 4' x 9'	
Shelf Options	Optional – Single or Double sided, with or without gussets Max shelf overhang – 6 inches.	











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#### 45 Minute Rated Mineral (FD5-45PP) Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standard	s – IBC, UL-10C, CAN/ULC S104, & NFPA 252	
	Single Swing	Pair or Double Egress	
Core Type & Standards	Mineral Composite: (28	Mineral Composite: (28-35 lb/ft3)	
Maximum Sizes	4′0″ x 9′0″	8′0″ × 9′0″	
Protection Plates	Up to 48" (above botto	om of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	ht & Thickness: (+/- 1/16")	
Weight	6.20lb/ft2 (3070 Door =	= 130lbs) (4070 Door = 173lbs)	
Crossband	High Density FSC Fiber	rboard	
Blocking	(Standard) 5" top rail; 1 (Additional blocking u	" Bottom Rail; 1" Fixed Internal Stiles pon request)	
Assembly Adhesive	Face: Type I (waterproc	of); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		eral/SCL Stiles. Acrovyn and/or ss Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	6" from edges, 5" from hardware or additional cutouts		
Max Visible Glass Area	1296 in2	1296 in2	
Lite Frames	Wood beads; Metal – P Wrapped	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any listed & labeled (4	Any listed & labeled (45min or greater)	
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6.4	3.1″	
Points of Latching	Singles = 1pt	Pairs = 3pts (2pts w/ Blue Core) DE Pairs = 4pts (2pts w/ Blue Core)	
Pivots	Offset w/intermediate	Offset w/intermediate (Center hung not allowed)	
Locks	Mortise & Cylindrical (I	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Rod (Ir	ncludes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With concea	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension Typ	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface M	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface M	Mortised or Surface Mounted	
Transoms	Not Available	Not Available	







Standard





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#### 45 Minute Rated Mineral STC35/34 (FD5-45PP STC 35/34) Bonded Agrifiber Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standards – I	BC, UL-10C, CAN/ULC S104, & NFPA 252)
	Single Swing (STC35)	Pair or Double Egress (STC34)
Core Type & Standards	Mineral Composite: (28-35 lb/ft3)	
Maximum Sizes	4′0″ x 9′0″	8′0″ x 9′0″
Protection Plates	Up to 48" (above bottom c	of door)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height &	& Thickness: (+/- 1/16")
Weight	6.20lb/ft2 (3070 Door = 13	80lbs) (4070 Door = 173lbs)
Crossband	High Density FSC Fiberboa	ard
Blocking	(Standard) 5" top rail; 1" Bo (Additional blocking upon	ottom Rail; 1″ Fixed Internal Stiles a request)
Assembly Adhesive	Face: Type I (waterproof);	Core: Type II (water-resistant)
Replaceable Edge Stiles & Covers	Non-Replaceable Mineral/ 20GA #4 finish Stainless St	SCL Stiles. Acrovyn and/or eel Replaceable Covers
Replaceable Edge Profile	Beveled, Square	
Lites	Not Available	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Per NFPA 80 "Table 6.4.3.1"	u .
Points of Latching	Singles = 1pt	Pairs = 3pts (2pts w/ Blue Core) DE Pairs = 4pts (2pts w/ Blue Core)
Pivots	Offset w/intermediate (Ce	nter hung not allowed)
Locks	Mortise & Cylindrical (Max	5" Backset)
Exit Devices	Surface Vertical Rod (Inclu	des LBR), RIM & Mortised
Concealed Vertical Rod	Not Available	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
STC-35 (Singles) (Required Gaskets Option 1)	Pemko: S773 on head & ja and jambs at outside rabb	mbs at stop face. S44 at head et, and 3692APK773
STC-35 (Singles) (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	
STC-35 (Singles) (Required Gasketing)	Pemko: S773 on head, jambs, strike stile & bottom rail. S44 on head & jambs. S1125 on lock & strike stile, 357 astragal, PDB411, and ACP112	







Standard





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#### 45 Minute Rated Panel Door (PN FD7-45PP) Bonded SCL Hybrid Core, 7 -Ply Construction, Cat. A, PP

	Single Swing	IBC, UL-10C, CAN/ULC S104, & NFPA 2 Pair or Double Egress	
Cous Turs & Stondards			
Core Type & Standards		SCL Hybrid: (60 lb/ft3)	
Maximum Sizes	4'0" x 9'0"	8′0″ x 9′0″	
Protection Plates	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	6.92lb/ft2 (3070 Door = 1	45lbs) (4070 Door = 193lbs)	
Crossband	High Density FSC Fiberbo	bard	
Blocking	(Standard) 5" top rail; 2" E (Additional blocking upo	Bottom Rail; 5″ Fixed Internal Stiles n request)	
Assembly Adhesive	Face: Type I (waterproof)	; Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Non-Replaceable Minera 20GA #4 finish Stainless S	l/SCL Stiles. Acrovyn and/or Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	Not Available	Not Available	
Max Visible Glass Area	Not Available	Not Available	
Lite Frames	Not Available		
Louvers	Not Available		
Electronic Options	Not Available	Not Available	
Hinges	Per NFPA 80 "Table 6.4.3."	1 ″	
Points of Latching	Singles = 1pt	Pairs = 2pts DE Pairs = 3pts	
Pivots	Offset w/intermediate (Co	enter hung not allowed)	
Locks	Mortise & Cylindrical (Ma	x 5" Backset)	
Exit Devices	Surface Vertical Rod (Incl	udes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (	Must Be Extension Type (Metal Door)	
Closing Devices	Surface Mounted		
Door Bottoms	Mortised or Surface Mou	nted	
Transoms	Not Available	Not Available	
Panel Design Options	8 standard options	8 standard options	
Max Recess of Panel	3/8″	3/8"	











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#### 60 Minute Rated Mineral (FD5-60PP) Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standards – I	IBC, UL-10C, CAN/ULC S104, & NFPA 252)	
	Single Swing	Pair or Double Egress	
Core Type & Standards	Mineral Composite: (28-35 lb/ft3)		
Maximum Sizes	4′0″ × 9′0″	8′0″ × 9′0″	
Protection Plates	Up to 48" (above bottom o	of door)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height 8	& Thickness: (+/- 1/16″)	
Weight	6.20lb/ft2 (3070 Door = 13	30lbs) (4070 Door = 173lbs)	
Crossband	High Density FSC Fiberboa	ard	
Blocking	(Standard) 5" top rail; 1" Bo (Additional blocking upor	ottom Rail; 1″ Fixed Internal Stiles n request)	
Assembly Adhesive	Face: Type I (waterproof);	Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Field Replaceable Mineral finish Stainless Steel Repla	/SCL Stiles. Acrovyn and/or 20GA #4 aceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	6" from edges, 5" from hardware or additional cutouts		
Max Visible Glass Area	100 in2		
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	Any listed & labeled (60m	Any listed & labeled (60min or greater)	
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6.4.3.1	"	
Points of Latching	Singles = 1pt	Pairs = 4pts (2pts w/ Blue Core) DE Pairs = 4pts (2pts w/ Blue Core)	
Pivots	Offset w/intermediate (Ce	enter hung not allowed)	
Locks	Mortise & Cylindrical (Max	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Rod (Inclu	ides LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With concealed	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension Type (N	Must Be Extension Type (Metal Door)	
Closing Devices	Mortised or Surface Moun	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted		
Transoms	Not Available		







Standard





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#### 60 Minute Rated Mineral STC35/34 (FD5-60PP STC 35/34) Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standards – IBC	, UL-10C, CAN/ULC S104, & NFPA 252	
	Single Swing (STC35)	Pair or Double Egress (STC34)	
Core Type & Standards	Mineral Composite: (28-35 lb	/ft3)	
Complies with CARB Phase I & II	Emission Standards		
Maximum Sizes	4'0" × 9'0"	8′0″ × 9′0″	
Protection Plates	Up to 48" (above bottom of d	loor)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Th	nickness: (+/- 1/16")	
Weight	6.20lb/ft2 (3070 Door = 130lb	os) (4070 Door = 173lbs)	
Crossband	High Density FSC Fiberboard		
Blocking	(Standard) 5" top rail; 1" Botto (Additional blocking upon re	om Rail; 1" Fixed Internal Stiles quest)	
Assembly Adhesive	Face: Type I (waterproof); Con	re: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Field Replaceable Mineral/SC finish Stainless Steel Replace	L Stiles. Acrovyn and/or 20GA #4 able Covers	
Replaceable Edge Profile	Beveled, Square		
Lites	Not Available		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6.4.3.1"		
Points of Latching	Singles = 1ptPairs = 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 (Include	s LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Met	al Door)	
Closing Devices	Surface Mounted		
Door Bottoms	Mortised or Surface Mounted	Mortised or Surface Mounted	
STC-35 (Singles) (Required Gaskets Option 1)	Pemko: S773 on head & jamb and jambs at outside rabbet,		
STC-35 (Singles) (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		
STC-35 (Singles) (Required Gasketing)	Pemko: S773 on head, jambs, strike stile & bottom rail. S44 on head & jambs. S1125 on lock & strike stile, 357 astragal, PDB411, and ACP112		
	1		







Standard





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#### 90 Minute Rated Mineral (FD5-90PP) Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

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

	(The fest standards – Ibc, or	-10C, CAN/ 0EC 5104, & NI FA 25	
	Single Swing	Pair or Double Egress	
Core Type & Standards	SCL Hybrid: (60 lb/ft3)		
Complies with CARB Phase I & II	Emission Standards		
Maximum Sizes	4'0" x 9'0" 8'0" x 9'0"		
Protection Plates	Up to 48" (above bottom of doo	r)	
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	kness: (+/- 1/16")	
Weight	6.92lb/ft2 (3070 Door = 145lbs)	(4070 Door = 193lbs)	
Crossband	High Density FSC Fiberboard		
Blocking	(Standard) 5" top rail; 2" Bottom (Additional blocking upon reque		
Assembly Adhesive	Face: Type I (waterproof); 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	Not Available		
Max Visible Glass Area	Not Available		
Lite Frames	Not Available		
Louvers	Not Available		
Electronic Options	Not Available		
Hinges	Per NFPA 80 "Table 6.4.3.1"		
Points of Latching	Singles = 1pt	Pairs = 3pts DE Pairs = 2pts	
Pivots	Offset w/intermediate (Center h	ung not allowed)	
Locks	Mortise & Cylindrical (Max 5" Bad	ckset)	
Exit Devices	Surface Vertical Rod (Includes L	BR), RIM & Mortised	
Concealed Vertical Rod	Not Available	Not Available	
Flushbolts	Must Be Extension Type (Metal D	Must Be Extension Type (Metal Door)	
Closing Devices	Surface Mounted	Surface Mounted	
Door Bottoms	Mortised or Surface Mounted		
Transoms	Not Available		
Panel Design Options	8 standard options		
Max Recess of Panel	3/8″		









#### 90 Minute Rated Mineral (FD5-90PP) Bonded Mineral Core, 5-Ply Construction, Cat. A, PP

	(Fire Test Standards – IBC, UL	-10C, CAN/ULC S104, & NFPA 252)
	Single Swing	Pair or Double Egress
Core Type & Standards	GP Blue Core: (28-35 lb/ft3)	
Complies with CARB Phase I & II	Emission Standards	
Maximum Sizes	4'0" × 9'0" 8'0" × 9'0"	
Protection Plates	Up to 48" (above bottom of door	r)
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	xness: (+/- 1/16")
Weight	6.58lb/ft2 (3070 Door = 137lbs)	(4070 Door = 184lbs)
Crossband	High Density FSC Fiberboard	
Blocking	(Standard) 5" top rail; 2" Bottom Stiles (Additional blocking upon	
Assembly Adhesive	Face: Type I (waterproof); Core: T	ype II (water-resistant)
Replaceable Edge Stiles & Covers	Field Replaceable Mineral/SCL S finish Stainless Steel Replaceable	
Replaceable Edge Profile	Beveled, Square	
Lites	6" from edges, 5" from hardware or additional cutouts	
Max Visible Glass Area	100 in2	
Lite Frames	Wood beads; Metal – Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any listed & labeled (90min or greater)	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Per NFPA 80 "Table 6.4.3.1"	
Points of Latching	Singles = 1pt	Pairs = 2pts Double Egress = 4pts
Pivots	Offset w/intermediate (Center h	ung not allowed)
Locks	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Available (With concealed 5" metal channel at latch edge)	
Flushbolts	Must Be Extension Type (Metal D	Door)
Closing Devices	Mortised or Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Not Available	







Standard





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#### 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	
Core Type & Standards	GP Blue Core: (28-35 lb/ft3)	
Maximum Sizes	4'0" × 9'0"	
Protection Plates	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	6.58lb/ft2 (3070 Door = 137lbs) (4070 Door = 184lbs)	
Crossband	High Density FSC Fiberboard	
Blocking	(Standard) 5" top rail; 2" Bottom Rail; 5" Fixed Internal Stiles (Additional blocking upon request)	
Assembly Adhesive	Face: Type I (waterproof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Non-Replaceable Mineral/SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	
Lites	Not Available	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Per NFPA 80 "Table 6.4.3.1"	
Points of Latching	Singles = 1pt	
Pivots	Offset w/intermediate (Center hung not allowed)	
Locks	Mortise & Cylindrical (Max 5" Backset)	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Surface Mounted	
Door Bottoms	Mortised or Surface Mounted	
Transoms	Not Available	
STC-36 Operable (Required Gaskets Option 1)	Pemko: S773 on head & jambs at stop face. S44 at head and jambs at outside rabbet, and 3692APK773	
STC-36 Operable (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	
STC-36 Operable (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	







Standard





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### Lead Lined, Non-Rated FSC Particleboard (LL FSC7-NR) Bonded FSC Particleboard Core, 7-Ply Construction

	Single Swing	Pair or Double Egress
Core Type & Standards	FSC Particleboard: ANSI A208.1.2009 grade LD-1 (32 lb/ft3)	
Complies with CARB Phase I & II	Emission Standards	
Maximum Sizes	4'0" x 8'0"	8'0" x 8'0" (Requires Lead Astragal)
Protection Plates	Up to 48" (above botto	m of door)
Door Thickness	1-3/4" OR 1-3/8" (+/- 1/	16")
Lead Thickness	1/16" (4lb) or 1/8" (8lb),	Balanced Construction
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	ht & Thickness: (+/- 1/16″)
Weight		(3070 = 186lbs) (4070 = 251lbs) (3070 = 265lbs) (4070 = 358lbs)
Crossband	High Density FSC Fiber	board
Blocking	(Standard) 5" top rail; 1 (Additional blocking u	" Bottom Rail; 1" Fixed Internal Stiles oon request)
Assembly Adhesive	Face: Type I (waterproc	f); Core: Type II (water-resistant)
Replaceable Edge Stiles & Covers	Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	
Lites	5" from edges, 1-1/2" from hardware or additional cutouts	
Lite Frames	Metal Lead Lined– Painted, Wood Veneered, Acrovyn Wrapped	
Glazing	Any appropriate lead equivalency	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Mortised, Surface & Continuous	
Pivots	Center Hung & Offset v	v/ Intermediate
Locks	Mortise & Cylindrical	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available	
Flushbolts	Must Be Extension Type	e (Metal Door)
Closing Devices	Mortised or Surface Mounted (Mortised will affect lead)	
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)	
Transoms	Not Available	









#### Lead Lined, Non-Rated Particleboard (LL PC7-NR) Bonded Particleboard Core, 7-Ply Construction

	Single Swing	Pair or Double Egress	
Core Type & Standards	Particleboard: ANS	Particleboard: ANSI A208.1.2009 grade LD-1 (32 lb/ft3)	
Maximum Sizes	4'0" x 8'0"	8'0" x 8'0" (Requires Lead Astragal)	
Protection Plates	Up to 48" (above b	pottom of door)	
Door Thickness	1-3/4" (+/- 1/16")		
Lead Thickness	1/16" (4lb) or 1/8"	1/16" (4lb) or 1/8" (8lb), Balanced Construction	
WDMA Prefit Tolerance	Width: (+/- 1/32")	Height & Thickness: (+/- 1/16")	
Weight		o/ft2 (3070 = 187lbs) (4070 = 252lbs) o/ft2 (3070 = 267lbs) (4070 = 360lbs)	
Crossband	High Density FSC	Fiberboard	
Blocking	(Standard) 5" top r (Additional blocki	ail; 1" Bottom Rail; 1" Fixed Internal Stiles ng upon request)	
Assembly Adhesive	Face: Type I (water	proof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	5" from edges, 1-1	5" from edges, 1-1/2" from hardware or additional cutouts	
Lite Frames	Metal Lead Lined– Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	Any appropriate le	Any appropriate lead equivalency	
Louvers	Not Available	Not Available	
Electronic Options	Electronic hardwa	Electronic hardware & raceways available	
Hinges	Mortised, Surface	Mortised, Surface & Continuous	
Pivots	Center Hung & Off	set w/ Intermediate	
Locks	Mortise & Cylindri	cal	
Exit Devices	Surface Vertical Ro	od (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension	Type (Metal Door)	
Closing Devices	Mortised or Surfac	Mortised or Surface Mounted (Mortised will affect lead)	
Door Bottoms	Mortised or Surfac	Mortised or Surface Mounted (Mortised will affect lead)	
Transoms	Not Available	Not Available	









#### Lead Lined, Non-Rated SCL (LL SCL7-NR) Bonded SCL Core, 7-Ply Construction

	Single Swing	Pair or Double Egress	
Core Type & Standards	Structural Composite Lumber: (39 Lb/Ft3)		
Maximum Sizes	4′0″ x 8′0″	8'0" x 8'0" (Requires Lead Astragal)	
Protection Plates	Up to 48" (above botto	Up to 48" (above bottom of door)	
Door Thickness	1-3/4" (+/- 1/16")	1-3/4" (+/- 1/16")	
Lead Thickness	1/16" (4lb) or 1/8" (8lb	1/16" (4lb) or 1/8" (8lb), Balanced Construction	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")		
Weight	1/16" Lead – 10.63lb/ft2 (3070 = 221lbs) (4070 = 298lbs) 1/8" Lead – 14.46lb/ft2 (3070 = 300lbs) (4070 = 405lbs)		
Crossband	High Density FSC Fibe	rboard	
Blocking		(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)	
Assembly Adhesive	Face: Type I (waterpro	of); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers		Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	Beveled, Square	
Lites	5" from edges, 1-1/2" from hardware or additional cutouts		
Lite Frames	Metal Lead Lined– Painted, Wood Veneered, Acrovyn Wrapped		
Glazing	Any appropriate lead equivalency		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Mortised, Surface & Continuous		
Pivots	Center Hung & Offset w/ Intermediate		
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface Mounted (Mortised will affect lead)		
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)		
Transoms	Not Available		









#### Lead Lined, 20 Minute Rated FSC Particleboard (LL FSC7-20PP) Bonded FSC Particleboard Core, 7-Ply Construction, Cat. A, PP

	Single Swing	Pair or Double Egress		
Core Type & Standards		FSC Certified Particleboard: ANSI A208.1.2009 grade LD-1 (32 lb/ft3)		
Complies with CARB Phase I &	Complies with CARB Phase I & II Emission Standards			
Maximum Sizes	4'0″ x 8'0″ 8'0″ x 8'0″			
Protection Plates	Up to 48" (above botte	Up to 48" (above bottom of door)		
Door Thickness	1-3/4" (+/- 1/16")	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")		
Weight	1/16" Lead – 8.96lb/ft2	1/16" Lead - 8.96lb/ft2 (3070 = 186lbs) (4070 = 251lbs)		
Crossband	High Density FSC Fibe	High Density FSC Fiberboard		
Blocking		(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)		
Assembly Adhesive	Face: Type I (waterpro	Face: Type I (waterproof); Core: Type II (water-resistant)		
Replaceable Edge Stiles & Covers		Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers		
Replaceable Edge Profile	Beveled, Square			
Lites	5" from edges, 1-1/2" from hardware or additional cutouts			
Lite Frames	Metal Lead Lined- Painted, Wood Veneered			
Glazing	Any appropriate lead equivalency Any listed & labeled (20 min or greater)			
Louvers	Not Available			
Electronic Options	Electronic hardware & raceways available			
Hinges	Per NFPA 80 "Table 6.4.3.1"			
Pivots	Offset w/ Intermediate (Center hung – Not Available)			
Locks	Mortise & Cylindrical			
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised			
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Typ	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface N	Mortised or Surface Mounted (Mortised will affect lead)		
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)			
Transoms	Not Available			











#### Lead Lined, 20 Minute Rated Particleboard (LL PC7-20PP) Bonded Particleboard Core, 7-Ply Construction, Cat. A, PP

	Single Swing	Pair or Double Egress	
Core Type & Standards	Particleboard: ANSI A208.1.2009 grade LD-1 (32 lb/ft3)		
Maximum Sizes	4′0″ × 8′0″	8′0″ x 8′0″	
Protection Plates	Up to 48" (above botto	Up to 48" (above bottom of door)	
Door Thickness	1-3/4" (+/- 1/16")	1-3/4" (+/- 1/16")	
Lead Thickness	1/16" (4lb), Balanced Construction		
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")	
Weight	1/16" Lead – 8.96lb/ft2	1/16" Lead - 8.96lb/ft2 (3070 = 186lbs) (4070 = 251lbs)	
Crossband	High Density FSC Fibe	High Density FSC Fiberboard	
Blocking		(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)	
Assembly Adhesive	Face: Type I (waterproo	Face: Type I (waterproof); Core: Type II (water-resistant)	
Replaceable Edge Stiles & Covers	Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers		
Replaceable Edge Profile	Beveled, Square		
Lites	5" from edges, 1-1/2" from hardware or additional cutouts		
Lite Frames	Metal Lead Lined– Painted, Wood Veneered		
Glazing	Any appropriate lead equivalency Any listed & labeled (20 min or greater)		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6.4.3.1"		
Pivots	Offset w/ Intermediate (Center hung – Not Available)		
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface Mounted (Mortised will affect lead)		
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)		
Transoms	Not Available		











### Lead Lined, 45 Minute Rated Mineral (LL FD7-45PP) Bonded Mineral Core, 7-Ply Construction, Cat. A, PP

	Single Swing	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" (Requires Lead Astragal)		
Protection Plates	Up to 48" (above bottom of door)		
Door Thickness	1-3/4" (+/- 1/16")		
Lead Thickness	1/16" (4lb), Balanced Construction		
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	Width: (+/- 1/32") Height & Thickness: (+/- 1/16")	
Weight		2 (3070 = 206lbs) (4070 = 277lbs) (3070 = 286lbs) (4070 = 385lbs)	
Crossband	High Density FSC Fiber	rboard	
Blocking	(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)		
Assembly Adhesive	Face: Type I (waterproof); Core: Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Non-Replaceable 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 in2		
Lite Frames	Metal Lead Lined- Painted, Wood Veneered		
Glazing	Any appropriate lead equivalency Any listed & labeled (45 min or greater)		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Per NFPA 80 "Table 6.4.3.1"		
Points of Latching	Singles = 1pt	Pairs = 3pts (2pts w/GP Blue Core) DE Pairs = 4pts (2pts w/GP Blue Core)	
Pivots	Offset w/ Intermediate (Center hung – Not Available)		
Locks	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Mortised or Surface Mounted (Mortised will affect lead)		
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)		
Transoms	Not Available		











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#### Lead Lined, 60 Minute Rated Mineral (LL FD7-60PP) Bonded Mineral Core, 7-Ply Construction, Cat. A, PP

	Single Swing	Pair or Double Egress		
Core Type & Standards	Mineral Composite: (2	Mineral Composite: (28-35 lb/ft3)		
Maximum Sizes	4'0" x 9'0" 8'0" x 9'0" (Requires Lead Astragal)			
Protection Plates	Up to 48" (above botto	om of door)		
Door Thickness	1-3/4" (+/- 1/16")			
Lead Thickness	1/16" (4lb) or 1/8" (8lb)	), Balanced Construction		
WDMA Prefit Tolerance	Width: (+/- 1/32") Heig	ght & Thickness: (+/- 1/16")		
Weight		t2 (3070 = 206lbs) (4070 = 277lbs) 2 (3070 = 286lbs) (4070 = 385lbs)		
Crossband	High Density FSC Fibe	rboard		
Blocking		(Standard) 5" top rail; 1" Bottom Rail; 1" Fixed Internal Stiles (Additional blocking upon request)		
Assembly Adhesive	Face: Type I (waterpro	Face: Type I (waterproof); Core: Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Non-Replaceable SCL Stiles. Acrovyn and/or 20GA #4 finish Stainless Steel Replaceable Covers			
Replaceable Edge Profile	Beveled, Square	Beveled, Square		
Lites	6" from edges, 5" from hardware or additional cutouts			
Max Visible Glass Area	100 in2			
Lite Frames	Metal Lead Lined– Painted, Wood Veneered			
Glazing	Any appropriate lead equivalency Any listed & labeled (60 min or greater)			
Louvers	Not Available	Not Available		
Electronic Options	Electronic hardware & raceways available			
Hinges	Per NFPA 80 "Table 6.4.3.1"			
Points of Latching	Singles = 1pt	Pairs = 4pts (2pts w/GP Blue Core) DE Pairs = 4pts (2pts w/GP Blue Core)		
Pivots	Offset w/ Intermediate (Center hung – Not Available)			
Locks	Mortise & Cylindrical	Mortise & Cylindrical		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised			
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Type (Metal Door)			
Closing Devices	Mortised or Surface Mounted (Mortised will affect lead)			
Door Bottoms	Mortised or Surface Mounted (Mortised will affect lead)			
Transoms	Not Available			











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#### Bullet Resistant – Level 1, Non-Fire Rated (BT1-BCW7-NR) Fully Bonded Ballistic Core, 7-Ply Construction

	Single Swing	Pair or Double Egress	
Core Type & Standards	Ballistic Composite Wood: UL 752 Listed		
Complies with CARB Phase I & II Emission Standards			
Maximum Sizes	4'0" x 10'0" B'0" x 10'0" (Requires BR Metal edge / Astragal)		
Protection Plates	Not Recommended		
Door Thickness	1-3/4" (+/- 1/16")		
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	kness: (+/- 1/16")	
Weight	10.07lb/ft2 (3070 = 212lbs) (407	0 = 282lbs)	
Crossband	High Density FSC Fiberboard		
Blocking	Included based on requested ha	Included based on requested hardware prep	
Assembly Adhesive	Face: Type I (waterproof); Core: Type II (water-resistant)		
Replaceable Edge Stiles & Covers	Replaceable Stiles Not Available Acrovyn Replaceable Covers		
Replaceable Edge Profile	Beveled, Square		
Lites	6" from Top edge, 8" from Hinge edge, 8" from Lock edge, 12" from Bottom edge, 5" from hardware or additional cutouts		
Max Lite Cutout Area	Determined by the above distances		
Lite Frames	Must be UL 752 Listed Frame – MUST BE FACTORY INSTALLED		
Glazing	Must be UL 752 Listed Glass – MUST BE FACTORY INSTALLED		
Louvers	Not Available		
Electronic Options	Electronic hardware & raceways available		
Hinges	Mortised, Surface & Continuous (Must be Heavy Duty Hinges)		
Points of Latching	Singles = 1pt	Pairs = 2pts	
Pivots	Center hung & offset w/ intermediate		
Locks	Mortise (BHMA 1,2,3) & Cylindrical (BHMA 1,2)		
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised		
Concealed Vertical Rod	Not Available		
Flushbolts	Must Be Extension Type (Metal Door)		
Closing Devices	Surface Mounted		
Door Bottoms	Surface Mounted		
Transoms	Not Available		







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#### Bullet Resistant – Level 2, Non-Fire Rated (BT2-BCW7-NR) Fully Bonded Ballistic Core, 7-Ply Construction

	Single Swing	Pair or Double Egress		
Core Type & Standards	Ballistic Composite Wood: UL 752 Listed			
Complies with CARB Phase I & I	Complies with CARB Phase I & II Emission Standards			
Maximum Sizes	4'0" x 10'0" 8'0" x 10'0" (Requires BR Metal edge / Astragal)			
Protection Plates	Not Recommended			
Door Thickness	1-3/4" (+/- 1/16")			
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	xness: (+/- 1/16")		
Weight	10.86lb/ft2 (3070 = 228lbs) (407	0 = 304lbs)		
Crossband	High Density FSC Fiberboard			
Blocking	Included based on requested ha	rdware prep		
Assembly Adhesive	Face: Type I (waterproof); Core: 1	ype II (water-resistant)		
Replaceable Edge Stiles & Covers	Replaceable Stiles Not Available Acrovyn Replaceable Covers			
Replaceable Edge Profile	Beveled, Square			
Lites	6" from Top edge, 8" from Hinge edge, 8" from Lock edge, 12" from Bottom edge, 5" from hardware or additional cutouts			
Max Lite Cutout Area	Determined by the above distances			
Lite Frames	Must be UL 752 Listed Frame – MUST BE FACTORY INSTALLED			
Glazing	Must be UL 752 Listed Glass – MUST BE FACTORY INSTALLED			
Louvers	Not Available			
Electronic Options	Electronic hardware & raceways available			
Hinges	Mortised, Surface & Continuous (Must be Heavy Duty Hinges)			
Points of Latching	Singles = 1pt	Pairs = 2pts		
Pivots	Center hung & offset w/ intermediate			
Locks	Mortise (BHMA 1,2,3) & Cylindrical (BHMA 1,2)			
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised			
Concealed Vertical Rod	Not Available			
Flushbolts	Must Be Extension Type (Metal Door)			
Closing Devices	Surface Mounted			
Door Bottoms	Surface Mounted			
Transoms	Not Available			









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#### Bullet Resistant – Level 3, Non-Fire Rated (BT3-BCW7-NR) Fully Bonded Ballistic Core, 7-Ply Construction

	Single Swing	Pair or Double Egress
Core Type & Standards	Ballistic Composite Wood: UL 752 Listed	
Complies with CARB Phase I & II Emission Standards		
Maximum Sizes	4'0" x 10'0" 8'0" x 10'0" (Requires BR Metal edge / Astragal)	
Protection Plates	Not Recommended	
Door Thickness	1-3/4" (+/- 1/16")	
WDMA Prefit Tolerance	Width: (+/- 1/32") Height & Thick	mess: (+/- 1/16")
Weight	11.66lb/ft2 (3070 = 245lbs) (407	0 = 327lbs)
Crossband	High Density FSC Fiberboard	
Blocking	Included based on requested ha	rdware prep
Assembly Adhesive	Face: Type I (waterproof); Core: T	ype II (water-resistant)
Replaceable Edge Stiles & Covers	Replaceable Stiles Not Available Acrovyn Replaceable Covers	
Replaceable Edge Profile	Beveled, Square	
Lites	6" from Top edge, 8" from Hinge edge, 8" from Lock edge, 12" from Bottom edge, 5" from hardware or additional cutouts	
Max Lite Cutout Area	Determined by the above distances	
Lite Frames	Must be UL 752 Listed Frame – MUST BE FACTORY INSTALLED	
Glazing	Must be UL 752 Listed Glass – MUST BE FACTORY INSTALLED	
Louvers	Not Available	
Electronic Options	Electronic hardware & raceways available	
Hinges	Mortised, Surface & Continuous (Must be Heavy Duty Hinges)	
Points of Latching	Singles = 1pt	Pairs = 2pts
Pivots	Center hung & offset w/ intermediate	
Locks	Mortise (BHMA 1,2,3) & Cylindrical (BHMA 1,2)	
Exit Devices	Surface Vertical Rod (Includes LBR), RIM & Mortised	
Concealed Vertical Rod	Not Available	
Flushbolts	Must Be Extension Type (Metal Door)	
Closing Devices	Surface Mounted	
Door Bottoms	Surface Mounted	
Transoms	Not Available	









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#### Acrovyn<sup>®</sup> Doors - Bulletin: Concealed Closers/Stops

CS Acrovyn Doors has approval to machine for listed and approved concealed overhead closers and/or stops in doors rated 20 through 90-minutes. Concealed holders are not allowed in labeled doors unless they include an automatic release function when fire is detected. The specific approvals include:

# Track in Door: WHI / Guardian (20 through 90-minute labeled doors) the cutout dimension cannot exceed 1-1/2" in depth, 1-5/16" in width or 23-5/8" in length.

#### CS Acrovyn Doors will not warranty doors that exceed the following:

Doors with concealed closers deeper than 2" or wider than 1-1/4" or machined pockets that leave less than 1/4" thick cavity walls.

Due to the large cutouts required for this hardware, a frame (header) applied intumescent will be required to be installed above the cutout (Such as Technofire 2000/2006). By definition, this makes the opening Category B from a code perspective. Whereas the door is constructed (as Category A) with intumescent stiles and rail, the only additional field-applied intumescent required will be over the hardware cutout. This rule applies to 20 through 90 minute applications.

(See intumescent installation instructions on following page)

#### Acrovyn® Doors - Concealed Closers/Stops Intumescent Installation Instructions

Due to the large cutouts required for this hardware, a frame (header) applied intumescent will be required to be installed above the cutout (Such as Technofire 2000/2006).

#### Installation of the frame applied intumescent:

1. Locate the intumescent CS Acrovyn Doors has supplied with your doors for your convenience. If Technofire Intumescent has become damaged or lost, it is your responsibility to replace it.

2. Thoroughly clean the frame surface where intumescent will be applied. Ensure surface is clean and dry before continuing.

3. Technofire Intumescent may need trimmed to fit the frame opening. If it does, the product may be cut with scissors. Notching or trimming for hardware in the frame header may also need to be completed.

4. Remove the adhesive backer from the backside of the Technofire Intumescent strip and firmly attach it to the header of the frame directly above the door.

5. At this point installation of the Technofire Intumescent is complete.

a. If you would like to paint over the surface of the Technofire Intumescent, you may do so.

#### (Failure to apply the intumescent will compromise the fire rating)

#### Acrovyn<sup>®</sup> Doors - Bulletin: Smoke Doors

The most commonly described types of smoke doors are:

- Doors required to provide an effective barrier to limit the transfer of smoke
- Doors in smoke partitions
- Doors in smoke barriers
- Fire door assemblies in corridors and smoke barriers

The majority of these smoke rated openings are required to be self-closing and require an active latchbolt that will secure the door when it is closed. Through the various code adoptions there are exceptions to this basic logic.

One of the most commonly confused exceptions involves "Cross-Corridor" doors in smoke barriers and positive-latching in Group I-1 Condition 2, Group I-2, and Ambulatory Care Facilities. Per the IBC, positive latches are not required for these doors because the exception includes the specific language: "Positive-latching devices are not required". Smoke barrier doors need to be constructed as 20 minute doors, however, the IBC has clarified that these doors are not fire-rated. An additional requirement of these Smoke Barrier doors is they must include fire rated glazing assemblies when lites will be installed.

Below is an example of the Smoke Barrier Door label that will be applied to a Cross-Corridor Smoke Barrier Door:



Due to the various building & life safety codes, please consult your local AHJ to determine the Latching & Closer requirements prior to submitting an order to Acrovyn Doors. Latching & Closer details received with the order will be considered approved by your local AHJ.

# Acrovyn<sup>®</sup> Doors

