

# Vanair. Ventilated Door Door Series

Division 08 14 16 Wood Flush Doors

VA8 VanAir Ventilated Door

Non-Rated

FACES:	Wood veneer Prefinished smooth or embossed hardboard Paint grade hardboard
SUBSTRATE:	Engineered wood composites
CORE:	Engineered wood composites and acoustic foam
VENTILATION SLOT:	Wood and composite material matching with faces
STILES:	Mill option clear or finger-joint softwood – AWS Type A solid wood
RAILS:	Mill option wood or composite material
ASSEMBLY:	Non-bonded (loose lay)
ADHESIVES:	Type 2
MAXIMUM SIZE:	4'0" x 10'0" (1219mm x 3048mm) Contact factory for sizing options.
THICKNESS:	1-3%" (35mm)
WARRANTY:	One (1) Year; for interior use only. SEE WARRANTY TERMS AND CONDITIONS. Possible extended warranties available; contact factory for options.
STANDARDS:	Performance attributes meet or exceed WDMA IS-1A Extra Heavy Duty standards when specified with blocking for surface applied hardware without through bolts.
FIRE-RATING:	Not applicable
ACOUSTICAL RATING:	See page 3 of 6
ENVIRONMENTAL ATTRIBUTES:	This product is manufactured with pre-consumer recycled material. For additional information on product contribution, please refer to the GreenDor™

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BLOCKING:	Lock blocks included. Special blocking options may be specified (reference WDMA I.S.1A blocking options HB-1 through HB-8). Additional blocking may affect STC rating.					
MACHINING:	Machining for hardware, applied moldings, plant-ons, and decorative routing.  Hardware cutouts shall be factory machined from manufacturers' templates and shop drawings.					
TRANSPARENT FINISH:	WDMA TR8 / AWS System 9 – UV Cured Acrylated Polyester/Urethane finishes in standard and custom match stains Options: Other finish systems available					
OPAQUE FINISH:	Factory painting in standard and custom match colors Options: Standard or color tinted priming available					

## **Standard Construction**

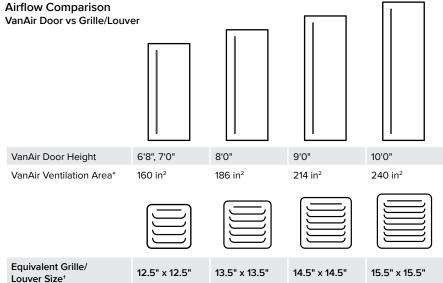


Tests conducted independently in accordance with ASTM Standards on 3'0" x 7'0" x 1-3/s" VanAir Door with:

- 1. No acoustic foam in air channel
- 2. No perimeter seals
- 3. Half inch (1/2") undercut

Airflow Performance, Flow Rate vs Pressure ASTM E779-10 Determining Air Leakage Rate by Fan Pressurization

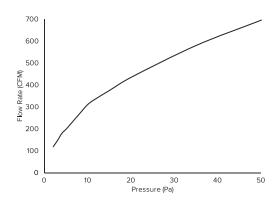
- \* Ventilation area is the equivalent grille/ louver area. The unrestricted free/open area for airflow is equal to 50% of the ventilation area.
- $^{\scriptscriptstyle \dagger}$  Compared to grilles/louvers with 50% free/open area.



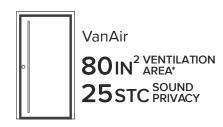
#### **Airflow Performance**

Pressure (Pa)	Airflow (CFM)
50	696
35	581
20	436
15	376
12	340
10	312
8	268
6	222
5	199
4	180
3	148
2	119

## Flow Rate vs Pressure



## **Sound Privacy Option** (Available for doors 2'6" – 4'0" wide)

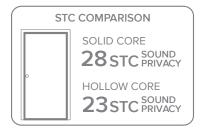


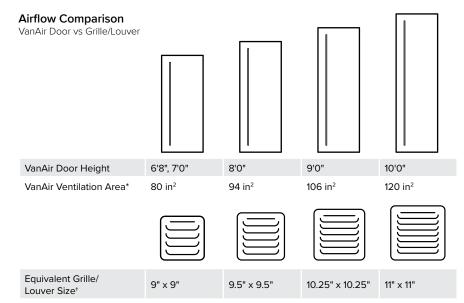
Tests conducted independently in accordance with ASTM Standards on 3'0" x 7'0" x 1-3/s" VanAir Door with:

- 1. Acoustic foam in air channel
- 2. Full perimeter seal (PEMKO STCSET-1A Seal Set)

Airflow Performance, Flow Rate vs Pressure ASTM E779-10 Determining Air Leakage Rate by Fan Pressurization

- \* Ventilation area is the equivalent grille/ louver area. The unrestricted free/open area for airflow is equal to 50% of the ventilation area.
- <sup>†</sup> Compared to grilles/louvers with 50% free/open area.

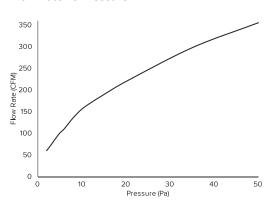




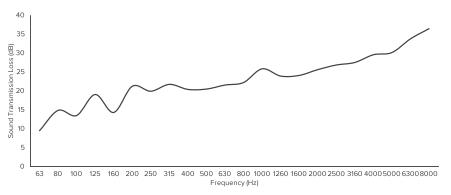
#### Airflow Performance

Pressure (Pa)	Airflow (CFM)
50	355
35	297
20	219
15	189
12	170
10	156
8	136
6	110
5	100
4	87
3	73
2	60

#### Flow Rate vs Pressure



## Sound Transmission Loss Curve



#### Sound Transmission Loss Curve

ASTM E90-09 Laboratory Measurements of Airborne Sound Transmission Loss of Building Partition Elements

ASTM E413-10 Classification for Rating Sound Insulation

# Door and Ventilation Slot Dimensions (Doors with heights up to 6'8")

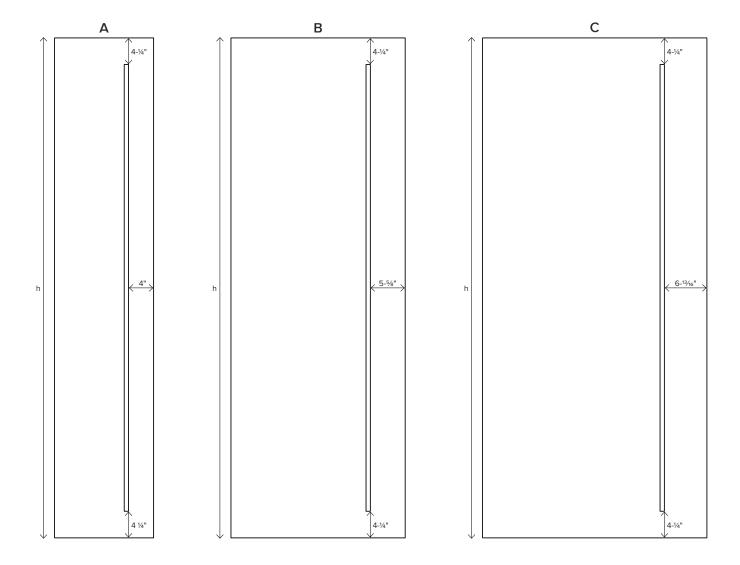
Reference the chart for standard sizes to the drawings below for the placement of the ventilation slot

Standard ventilation slot width is  $\ensuremath{\%}$ "

Custom sizes available

Sound Privacy Option available for doors 2'6"–4'0" wide and 6'8" and 7'0"–4'0" heights

	Height (I	٦)				
Width (w)	≥ 6'8"	7'0"	8'0"	9'0"	10'0"	Additional Details
1'0"						Doors narrower than 1'8" in width are limited to
1'2"	Α		[	D		pull hardware and unable to accept standard
1'4"						2-3/8" and 2-3/4" hardware.
1'6"						
1'8"						
1'10"	В			E		
2'0"	В			=		
2'2"						
2'4"						
2'6"						
2'8"						
2'10"						
3'0"		F				Available with Sound Privacy Option
3'2"	С					
3'4"						
3'6"						
3'8"						
3'10"						
4'0"						





# **Door and Ventilation Slot Dimensions** (Doors with heights of 7'0" – 10'0")

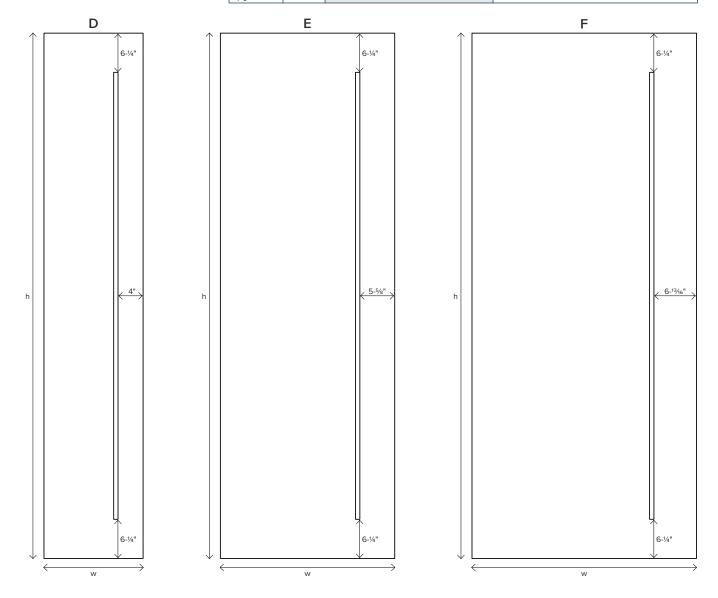
Reference the chart for standard sizes to the drawings below for the placement of the ventilation slot

Standard ventilation slot width is %"

Custom sizes available

Sound Privacy Option available for doors 2'6"-4'0" wide and 6'8" and 7'0"-4'0" heights

	Height (I	٦)				
Width (w)	≥ 6'8"	7'0"	8'0"	9'0"	10'0"	Additional Details
1'0"						Doors narrower than 1'8" in width are limited to
1'2"	Α	D				pull hardware and unable to accept standard
1'4"						2-3/8" and 2-3/4" hardware.
1'6"						
1'8"						
1'10"	В			E		
2'0"	В			=		
2'2"	1					
2'4"						
2'6"						
2'8"						
2'10"						
3'0"	C					
3'2"		F				Accelled a control Consent Date of the Control
3'4"				<b>-</b>		Available with Sound Privacy Option
3'6"						
3'8"						
3'10"	1					
4'0"	1					



# **Handing Detail For Ventilation Slot**

