STANDARD ACCESSORY PERFORMANCE DATA

Table Notes

a) Glass is not by Metal Building Manufacturer

b) VLT = Visible Light Transmittance

c) LTP = Light Transmitting Panel

d) Shading Coefficient is the ratio of solar heat gain through a particular product compared to 1/8" clear glass. It is based on the same conditions as the summer daytime U-value.

e) U-value is the overall coefficient of the heat transmission (air to air) due only to difference in indoor and outdoor temperatures. The lower the U-value, the less heat is transmitted through a material in a given time for a given temperature difference. Winter U-values are based on an outdoor temperature of 0oF, an indoor temperature of 70oF and a 15mph wind velocity with no sun. Summer U-values and Shading Coefficients are based on an outdoor temperature of 89oF, an indoor temperature of 75oF, a solar intensity of 248 Btu/Hr.-Ft.2 and a 7.5 mph wind velocity.

f) Walk Doors have been successfully tested for compliance with various windstorm and impact resistance requirements for metal buildings. These doors cover the wind load and impact requirements of :

State of Florida - Florida Building Code (Test Protocols TAS 201, 202 and 203)

Southern Building Code Congress International (SBCCI) - Standard Building Code SSTD 12-99

Texas Department of Insurance - (TDI - 98)

These tests were done in accordance with the following:

ASTM E330-02

Structural Performance of Exterior Windows, Curtains Walls and Doors by Uniform Static Air Pressure Difference.

ASTM E1996-02

Standard Specification for Performance of Exterior Windows, Curtain Walls Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes.

ASTM E1886-02

Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missiles and Exposed to Cyclic Pressure

STANDARD ACCESSORY PERFORMANCE DATA

Accessory	Size W x H	Frame Type	No. of Panes	Glass Coating	Glass Tinting	Glass Film	Gas Filled	Glass Gap Width	Insulated	U Factor	R Factor	Shading Coefficient	VLT [b]	Air Infiltration
3070-M [f] Walk Door	3'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
3070-M [f] Walk Door	3'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF
3070-G [a] [f] Walk Door	3'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
3070-G [a] [f] Walk Door	3'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF
4070-M [f] Walk Door	4'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
4070-M [f] Walk Door	4'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF
4070-G [a] [f] Walk Door	4'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
4070-G [a] [f] Walk Door	4'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF
6070-M [f] Walk Door	6'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
6070-M [f] Walk Door	6'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF
6070-G [a] [f] Walk Door	6'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	No	0.41	2.44	–	–	1.9 CFM/SF
6070-G [a] [f] Walk Door	6'-0 x 7'-0	Metal Kerf	–	–	–	–	–	–	Yes	0.67	14.97	–	–	1.9 CFM/SF

STANDARD ACCESSORY PERFORMANCE DATA

Accessory	Size W x H	Frame Type	No. of Panes	Glass Coating	Glass Tinting	Glass Film	Gas Filled	Glass Gap Width	Insulated	U Factor	R Factor	Shading Coefficient	VLT [b]	Air Infiltration
3030 Horz. Slide Window	3'-0 x 3'-0	Metal	One Clear	–	–	–	–	–	No	1.02 Summer 1.11 Winter	–	1.01 [d]	Daylight 90% Solar 85%	–
3030 Horz. Slide Window	3'-0 x 3'-0	Metal	One Bronze	–	–	–	–	–	No	1.08 Summer 1.11 Winter	–	0.85 [d]	Daylight 68% Solar 65%	–
4030 Horz. Slide Window	4'-0 x 3'-0	Metal	One Clear	–	–	–	–	–	No	1.02 Summer 1.11 Winter	–	1.01 [d]	Daylight 90% Solar 85%	–
4030 Horz. Slide Window	4'-0 x 3'-0	Metal	One Bronze	–	–	–	–	–	No	1.08 Summer 1.11 Winter	–	0.85 [d]	Daylight 68% Solar 65%	–
4040 Horz. Slide Window	4'-0 x 4'-0	Metal	One Clear	–	–	–	–	–	No	1.02 Summer 1.11 Winter	–	1.01 [d]	Daylight 90% Solar 85%	–
4040 Horz. Slide Window	4'-0 x 4'-0	Metal	One Bronze	–	–	–	–	–	No	1.08 Summer 1.11 Winter	–	0.85 [d]	Daylight 68% Solar 65%	–
6030 Horz. Slide Window	6'-0 x 3'-0	Metal	One Clear	–	–	–	–	–	No	1.02 Summer 1.11 Winter	–	1.01 [d]	Daylight 90% Solar 85%	–
6030 Horz. Slide Window	6'-0 x 3'-0	Metal	One Bronze	–	–	–	–	–	No	1.08 Summer 1.11 Winter	–	0.85 [d]	Daylight 68% Solar 65%	–
2070 Slim Line Window	2'-0 x 7'-0	Metal	One Gray	–	–	–	–	–	No	1.08 Summer 1.11 Winter	–	0.83 [d]	Daylight 62% Solar 63%	–
PBR - LTP [c]	3'-0 x 10'-8	_	_	_	_	_	_	_	_	1.0 - 1.2	_	_	55 - 60%	_

STANDARD ACCESSORY PERFORMANCE DATA

Accessory	Size W x H	Frame Type	No. of Panes	Glass Coating	Glass Tinting	Glass Film	Gas Filled	Glass Gap Width	Insulated	U Factor	R Factor	Shading Coefficient	VLT [b]	Air Infiltration
PBR - LTP [c]	3'-0 x 5'-4	_	_	_	_	_	_	_	_	1.0 - 1.2	_	_	55 - 60%	_
A - LTP [c]	3'-0 x 5'-4	_	_	_	_	_	_	_	_	1.0 - 1.2	_	_	55 - 60%	_
BattenLok Std. Acrylic LTP [c]	1'-4 x 10'-6	Metal	_	_	_	_	_	_	_	1.0 - 1.2	_	_	_	_
UD/DL Std. Acrylic LTP [c]	2'-0 x 10'-6	Metal	_	_	_	_	_	_	_	1.0 - 1.2	_	_	_	_
UD/DL "Acrylite" LTP	2'-0 x 10'-3	Metal	_	_	_	_	_	_	_	_	0.9 - 1.1	_	_	_
Louver Fixed	2'-0 x 2'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	3'-0 x 2'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	3'-0 x 3'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	4'-0 x 3'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	3'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	4'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Fixed	5'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	2'-0 x 2'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	3'-0 x 2'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	3'-0 x 3'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	4'-0 x 3'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	3'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	4'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_
Louver Adj.	5'-0 x 4'-0	Metal	_	_	_	_	_	_	_	_	_	_	_	_

STANDARD ACCESSORY PERFORMANCE DATA

CONTINUOUS TYPE RIDGE VENTILATOR

	PERFORMANCE DATA	
SIZE	VENT ABOVE GROUND	CFM
12" Throat x 10'-0 Long	10'	1764

Assumes 10° Temperature differential and 5 mph wind speed

ROUND GRAVITY VENTILATOR

Size	CFM Base Rating
20" Throat	712

TABLE A

Height and Temperature Factors

HEIGHT IN FEET	Temperature Difference						
	15°	20°	25°	30°	35°	40°	50°
15	.64A	.78A	.84A	.90B	.96B	1.02B	1.10C
20	.76A	.86A	.93B	1.00B	1.07B	1.13C	1.22C
25	.84A	.95B	1.02B	1.10C	1.18C	1.25C	1.34C
30	.91B	1.03B	1.12C	1.20C	1.29C	1.36C	1.47D
35	.97B	1.09B	1.18C	1.27C	1.36C	1.43D	1.55D
40	1.02B	1.15C	1.25C	1.34C	1.43D	1.52D	1.64D
45	1.07B	1.20C	1.30C	1.40C	1.50D	1.58D	1.71D
50	1,11C	1.26C	1.36C	1.46C	1.56D	1.65D	1.78D

TABLE B

Wind Velocity Factors

Wind M.P.H.	Factors			
	A	B	C	D
3	1.14	1.09	1.05	1.02
5	1.25	1.18	1.13	1.09
7	1.41	1.29	1.22	1.16
9	1.62	1.43	1.33	1.25
11	1.82	1.57	1.43	1.32

TO ESTIMATE VENTILATOR CAPACITY:

Determine the height of vent above the air intakes and the "Temperature Difference" between inlet air temperature and outlet air temperature with these two constants find the "Factor" from Table "A". Multiply the base rate C.F.M. by the factor from Table "A". The result is approximate vent capacity at "0" M.P.H. outside wind velocity. Beside the factor in Table "A" is the letter A, B, C or D. This letter refers a factor in Table "B". Multiply vent capacity for "0" M.P.H. wind by appropriate factor from Table "B" for vent capacity under the given wind condition.

EXAMPLE:

Ventilator Size 20" Throat

Ventilator Height Above Intake 20'-0

Factor From Table "A" is .76A at 15° Temperature Difference

Multiply: .76 x712 = 541 CFM at "0" M.P.H.

Using 3 M.P.H. Wind Vent Capacity is 541 x 1.14 = 617 C.F.M.

STANDARD ACCESSORY PERFORMANCE DATA

RIDGE LINE COR-A-VENT XL

Size
18" Throat x 10'-0 Long

TABLE A

Air Movement per Lineal Foot Factors

HEIGHT IN FEET	Temperature Difference					
	5°	10°	15°	20°	25°	30°
10	16.65_A	22.05_A	26.10_A	28.80_A	31.50_A	34.20_A
15	18.90_A	27.00_A	31.95_A	36.00_A	38.70_A	41.45_B
20	23.85_A	31.50_B	36.45_A	41.40_A	44.50_B	48.15_B
25	26.10_A	34.65_A	40.05_A	45.00_B	48.60_B	53.10_C
30	28.35_A	37.35_A	43.65_B	48.60_B	52.65_C	57.60_C
35	29.70_A	39.15_B	45.90_B	51.30_B	55.80_C	60.75_C
40	31.50_B	41.85_B	48.60_B	54.90_C	58.50_C	63.45_C
45	33.30_B	43.20_B	50.40_B	57.60_C	62.10_C	66.60_C
50	34.65_B	45.45_B	53.10_C	59.85_C	64.80_C	70.20_D

TABLE B

Wind Velocity Factors

Wind M.P.H.	Factors			
	A	B	C	D
3	1.14	1.09	1.05	1.02
5	1.25	1.18	1.13	1.09
7	1.41	1.29	1.22	1.16
9	1.62	1.43	1.33	1.25
11	1.82	1.57	1.43	1.32

TOTAL CFM = (TABLE A) X (TABLE B) X LENGTH