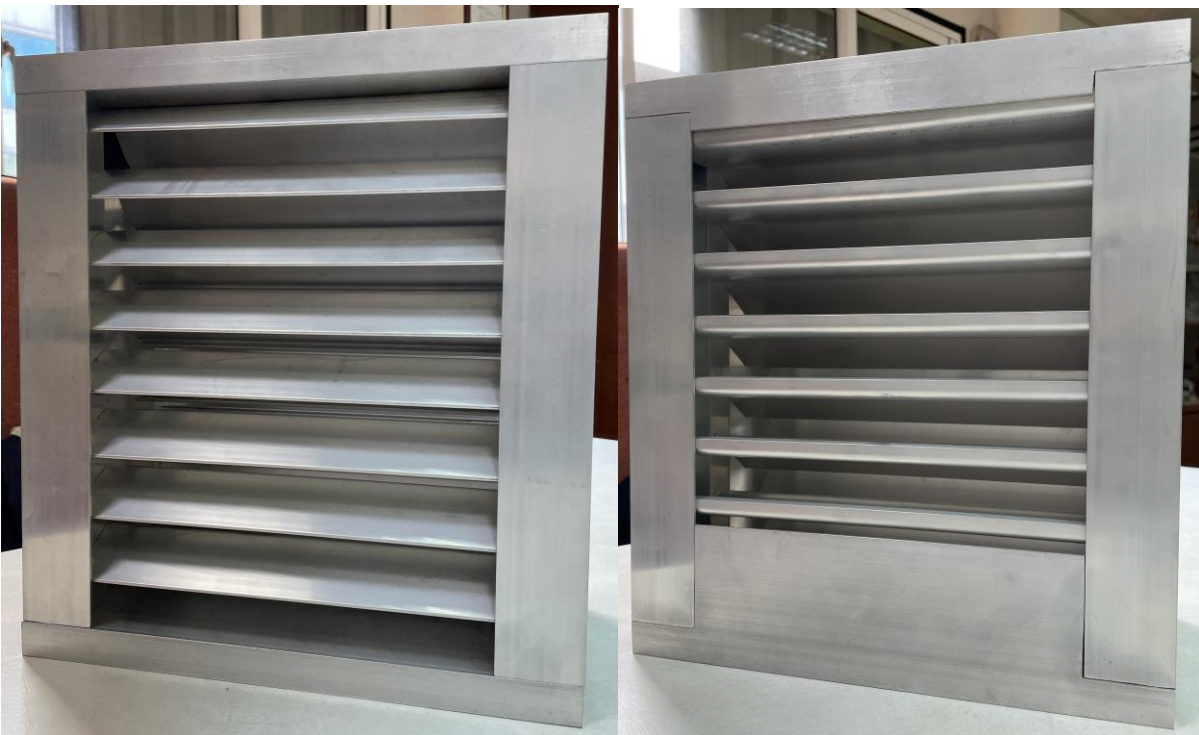


# SAFE LOUVER

## GE-158-152/50



PRODUCT CATALOG



今一鋁科技  
科技與鋁窗的結合

# GE-158-152/50

Double structure of vertical and horizontal

- FRAME Extruded 6063-T5 Aluminum
- BLADE 6063-T5 of 1.5 ~ 2.0mm thickness
  
- Minimum size  
(W) 12 in. , (H) 12 in.
- Maximum size  
(W) 78 in. , (H) 78 in.
  
- ◆ OPTIONS
  - Bird and Insect screens (Stainless steel)
  - Duct flange (Steel)
  - Fire damper (Steel)
  - Other parts

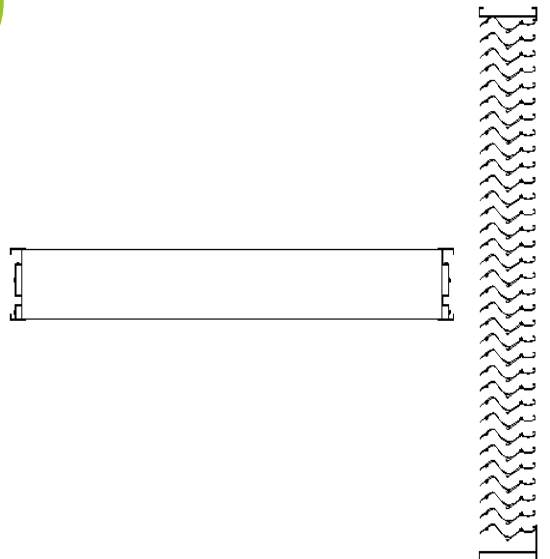
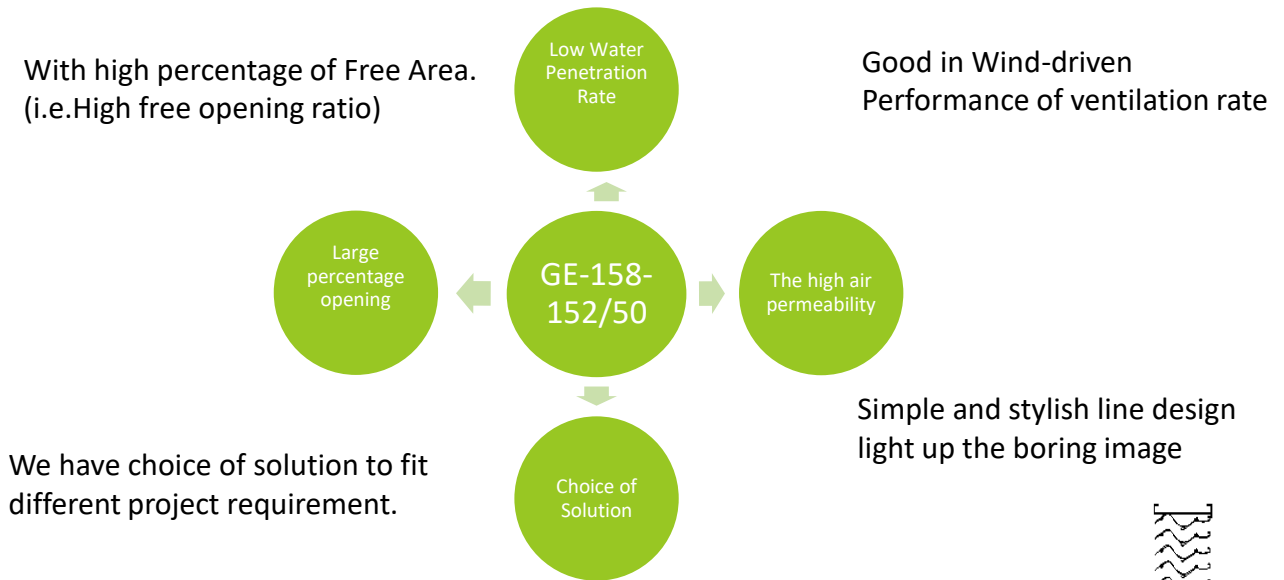
## Proof of reliability

GE-158-152/50 is suitable for using in prestige mega size project around the country.

With its low water penetration rate and high permissible ventilation performance.

We, G.E. louver, offer variety of Storm-proof/ Wind-driven louvers in different models and shape.

Minimize rain penetration under strong wind pressure.



“G.E. Aluminum Technology Co., Ltd. certifies that the GE-158-152/50 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program.

The AMCA Certified Rating Seal applies to water penetration, air performance and wind driven rain ratings only.

# WIND DRIVEN RAIN TEST

**Rainfall rate of 3" per hour (75mm) and a wind velocity of 29 mph (47 kph)**

Ventilation Air Velocity (m/s)	Core Velocity (fpm)	Rating Effectiveness	Class
0.0	0	100%	A
0.5	98.29	100%	A
1.0	196.86	100%	A
1.5	294.88	100%	A
2.0	393.54	100%	A
2.5	492.30	96.9%	B
3.0	590.68	84.30%	C
3.5	688.79	70.90%	D
4.0	787.17	57.00%	D
4.5	885.83	43.30%	D
5.0	984.40	32.3%	D

Effectiveness Rating  
 A= 1 to 0.99    B= 0.989 to 0.95    C= 0.949 to 0.80    D< 0.80

Discharge Loss Coefficient Class (Intake) = 2  
 Discharge Loss Coefficient Class (Exhaust) = 2

**Rainfall rate of 8" per hour (203mm) and a wind velocity of 50 mph (81 kph)**

Ventilation Air Velocity (m/s)	Core Velocity (fpm)	Rating Effectiveness	Class
0.0	0	97.60%	B
0.5	96.16	96.00%	B
1.0	196.68	92.30%	C
1.5	288.09	86.70%	C
2.0	396.23	78.10%	D
2.5	482.08	70.60%	D
3.0	587.71	63.60%	D
3.5	691.20	55.20%	D
4.0	791.82	48.50%	D
4.5	888.06	39.70%	D
5.0	984.68	29.50%	D

Effectiveness Rating  
 A= 1 to 0.99    B= 0.989 to 0.95    C= 0.949 to 0.80    D< 0.80

Discharge Loss Coefficient Class (Intake) = 2  
 Discharge Loss Coefficient Class (Exhaust) = 2



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- GE-158-152/50 Louver Free Area ( Test Sample 48"x48")(SQ.FT.)

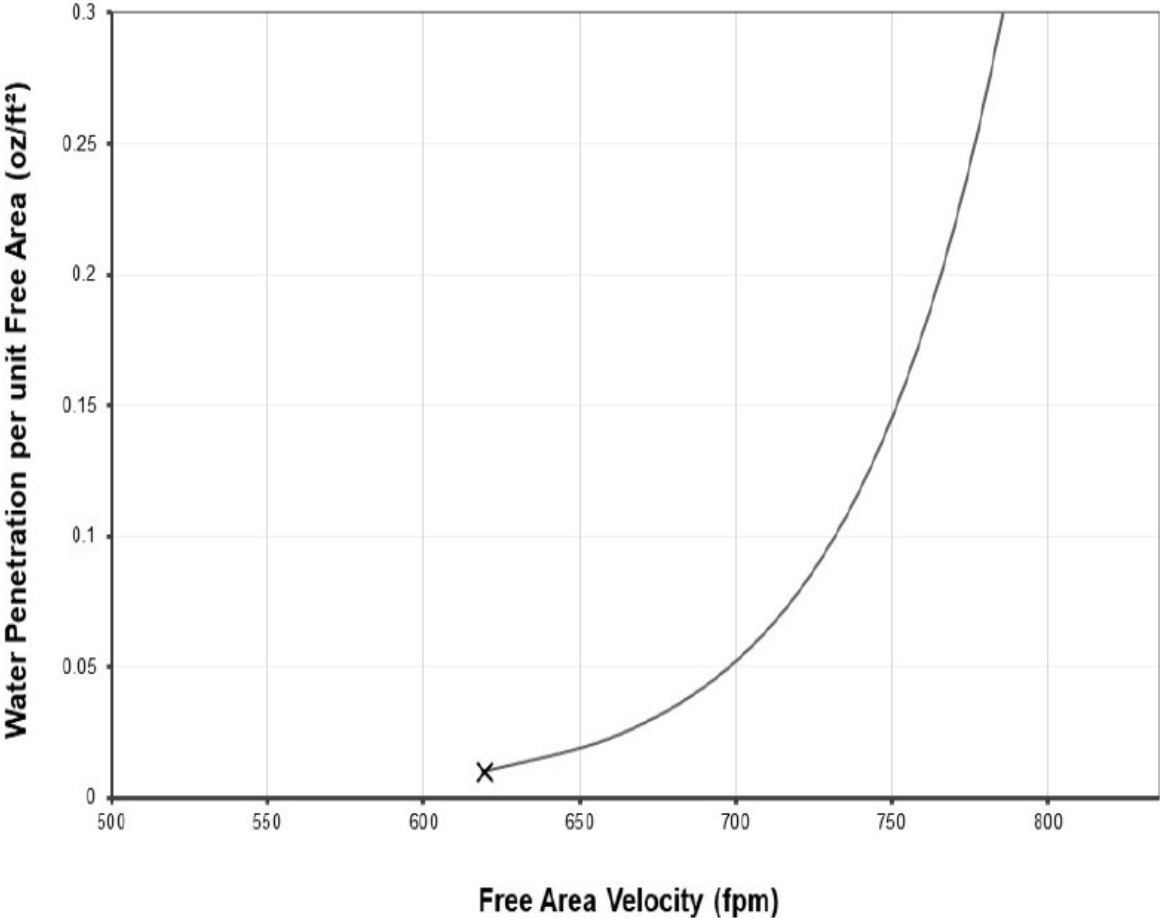
### Height-inches

Width-inches

	12	18	24	30	36	42	48	54	60	66	72	78
12	0.45	0.71	0.96	1.22	1.48	1.74	1.99	2.25	2.51	2.77	3.02	3.28
18	0.72	1.14	1.55	1.97	2.39	2.80	3.22	3.63	4.05	4.46	4.88	5.29
24	1.01	1.60	2.18	2.76	3.34	3.92	4.50	5.08	5.67	6.25	6.83	7.41
30	1.31	2.07	2.82	3.57	4.33	5.08	5.83	6.59	7.34	8.09	8.85	9.60
36	1.58	2.49	3.39	4.30	5.20	6.11	7.02	7.92	8.83	9.74	10.64	11.55
42	1.88	2.96	4.03	5.11	6.19	7.26	8.34	9.42	10.50	11.57	12.65	13.73
48	1.98	3.11	4.25	5.38	6.51	7.65	8.78	9.92	11.05	12.18	13.32	14.45
54	2.44	3.84	5.25	6.65	8.05	9.45	10.85	12.25	13.66	15.06	16.46	17.86
60	2.74	4.32	5.89	7.46	9.04	10.61	12.18	13.76	15.33	16.90	18.48	20.05
66	3.03	4.77	6.50	8.24	9.98	11.71	13.45	15.19	16.92	18.66	20.40	22.13
72	3.31	5.21	7.10	9.00	10.90	12.79	14.69	16.59	18.49	20.38	22.28	24.18
78	3.62	5.70	7.77	9.85	11.93	14.00	16.08	18.16	20.24	22.31	24.39	26.47

WIND DRIVEN RAIN TEST

THE BEGINNING OF WATER PENETRATION IS 619.5 FPM



Water penetration

—Water Penetration per Free Area x Beginning of Water Penetration

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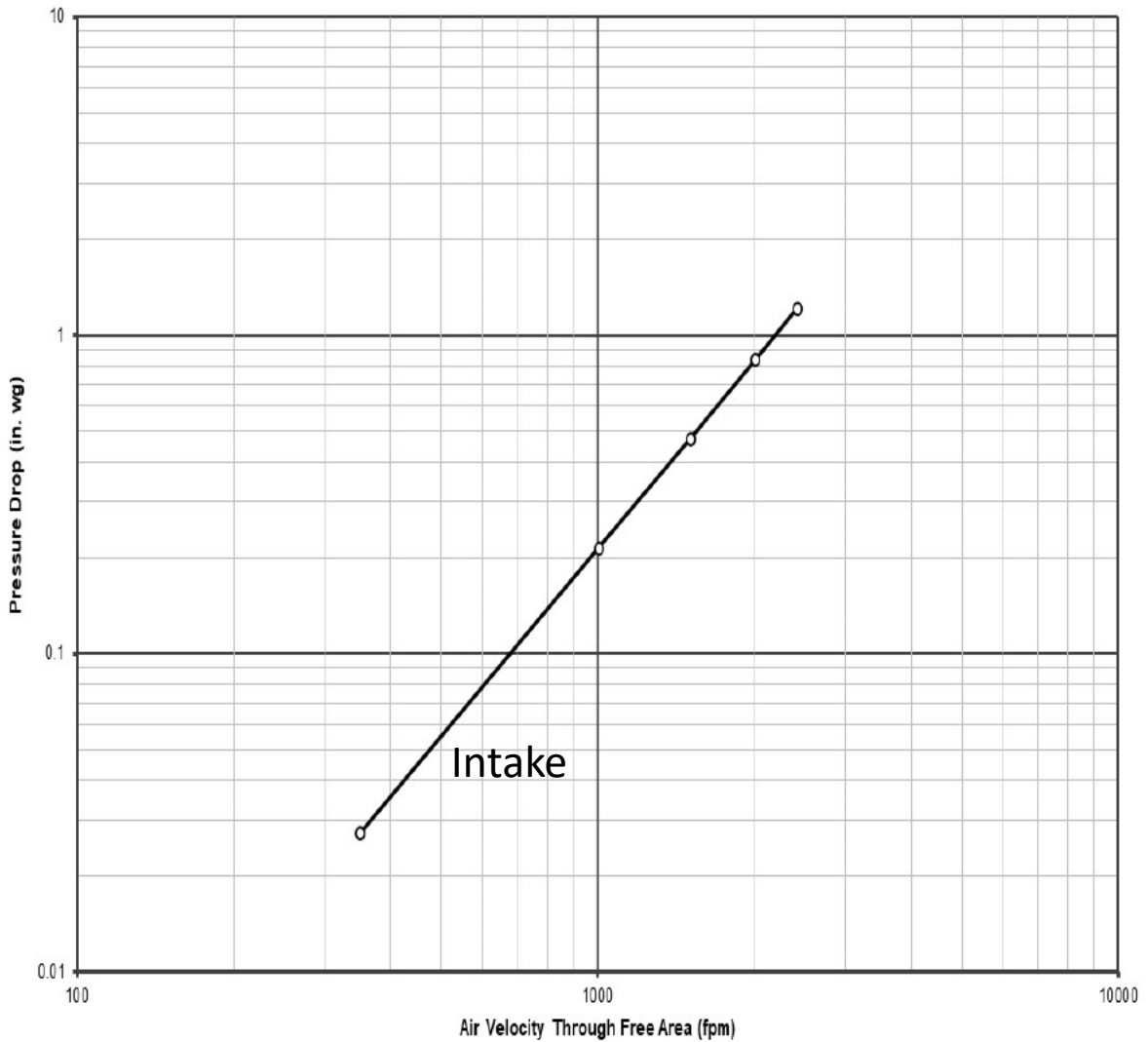
Free Area Velocity (fpm)	Pressure Drop (in.wg)
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350	0.027
1006	0.215
1509	0.473
2011	0.839
2416	1.213

### Air Performance

Unit test size(48"x48")

Airflow rate at standard air density and the AMCA figure 5.5



PRESSURE DROP TEST

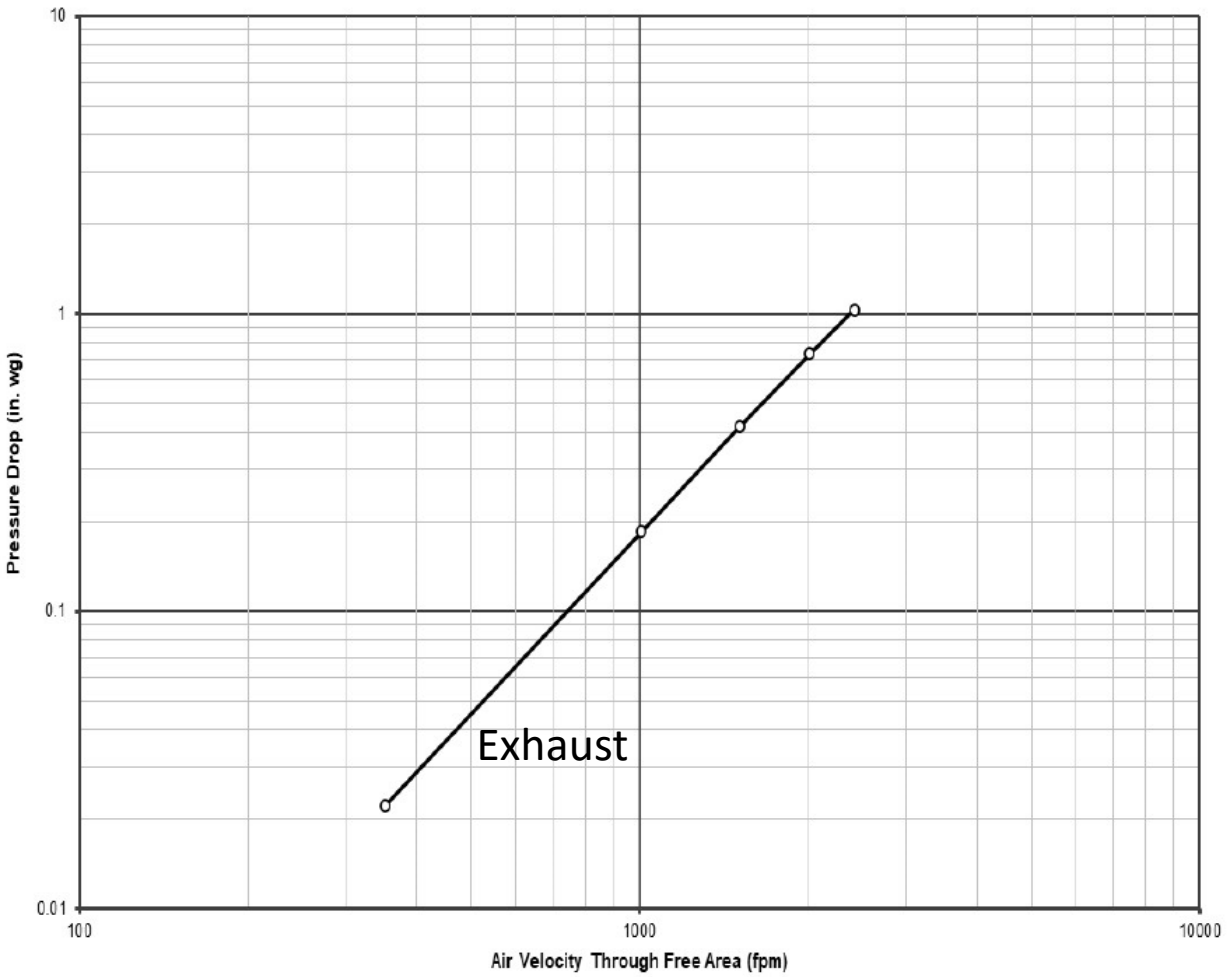
**Free Area  
Velocity (fpm)      Pressure  
Drop (in.wg)**

351	0.022
1007	0.186
1509	0.418
2011	0.732
2420	1.032

### Air Performance

Unit test size(48"x48")

Airflow rate at standard air density and the AMCA figure 5.5



**PRESSURE DROP TEST**



今一鋁科技  
科技與鋁窗的結合

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