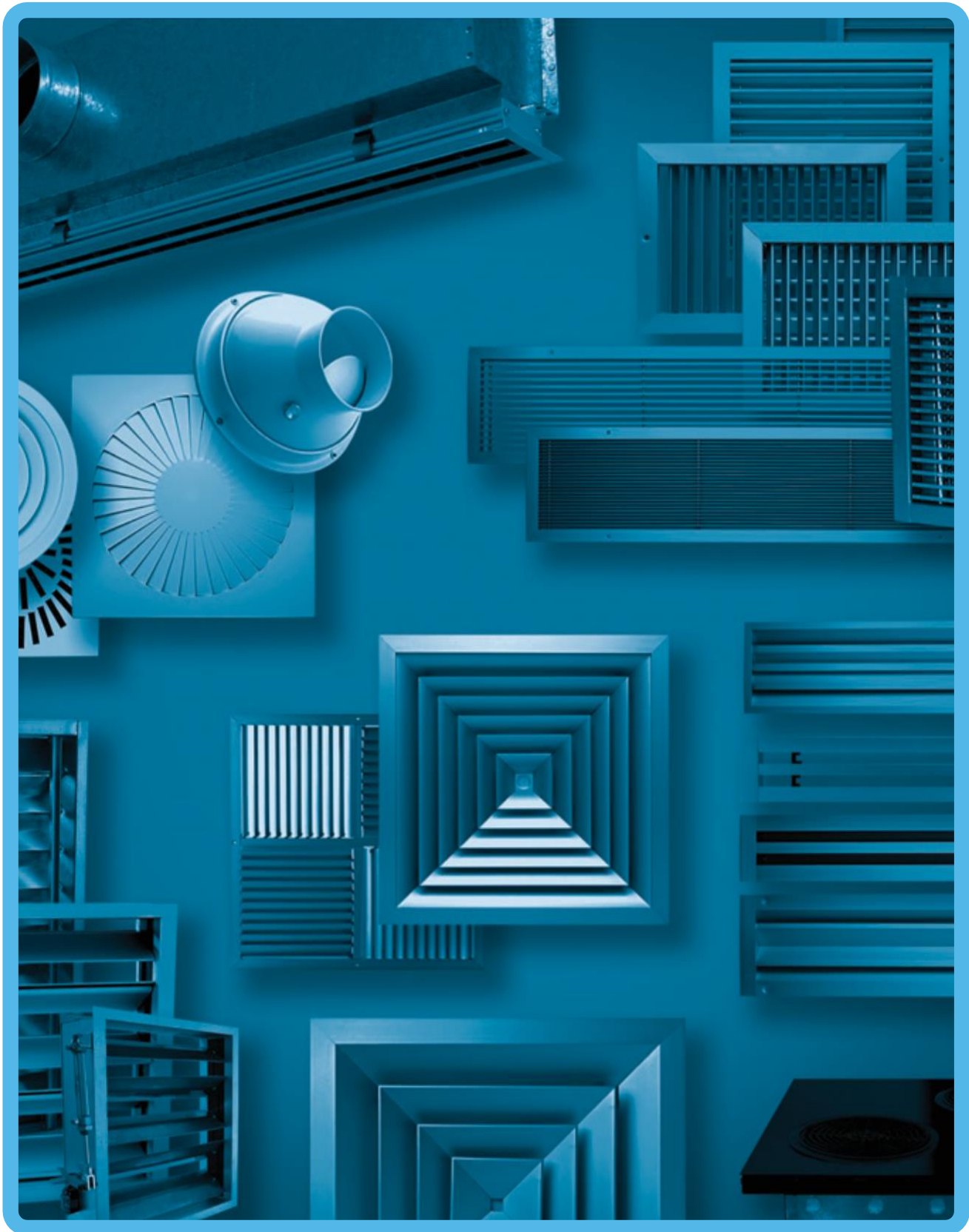




# Tropical Air Diffusion



# TROPICAL

AR SOB CONTROLE



## VED

### Drainable Louver

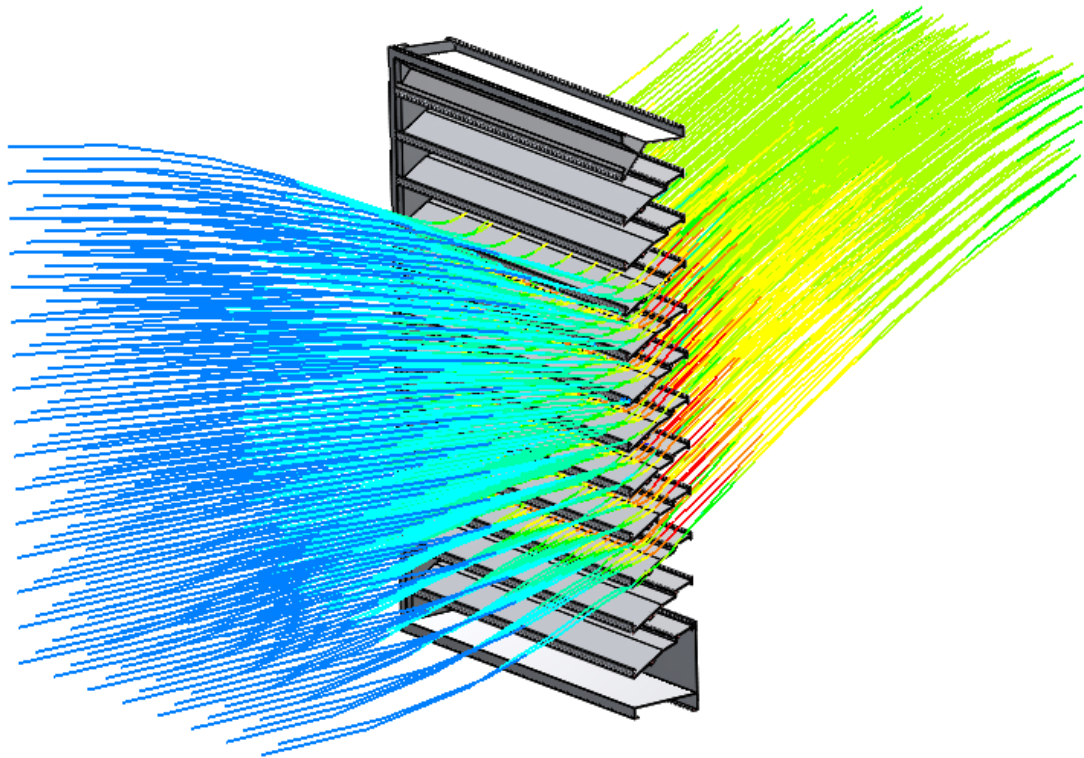
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# DRAINABLE LOUVER



## VED Drainable Louver



### APLICACION

The Tropical VED model is a drainable external air Louver, used on facades. The fin drainage system minimizes the water cascade between them, increasing its efficiency in preventing water penetration and allowing the capture of this water for eventual treatment and use in a rainwater reuse system.

### CONSTRUCTION STANDARD

Structure	Extruded aluminum frames made of 6063-T5 alloy with a nominal thickness of 2mm.
Blade(s)	Drainable fins in extruded aluminum alloy 6063-T5 with a nominal thickness of 2mm positioned at an angle of 35° with a spacing of 87mm (spacing may vary depending on project specifications).
Screen (Optional)	Aluminum bird screen (specifications as per project).
Depth	157mm (± 6").
Assembly	Welded and mechanically fixed frames.
Finishing	Natural or Anodized.



## VED Drainable Louver

### FEATURES

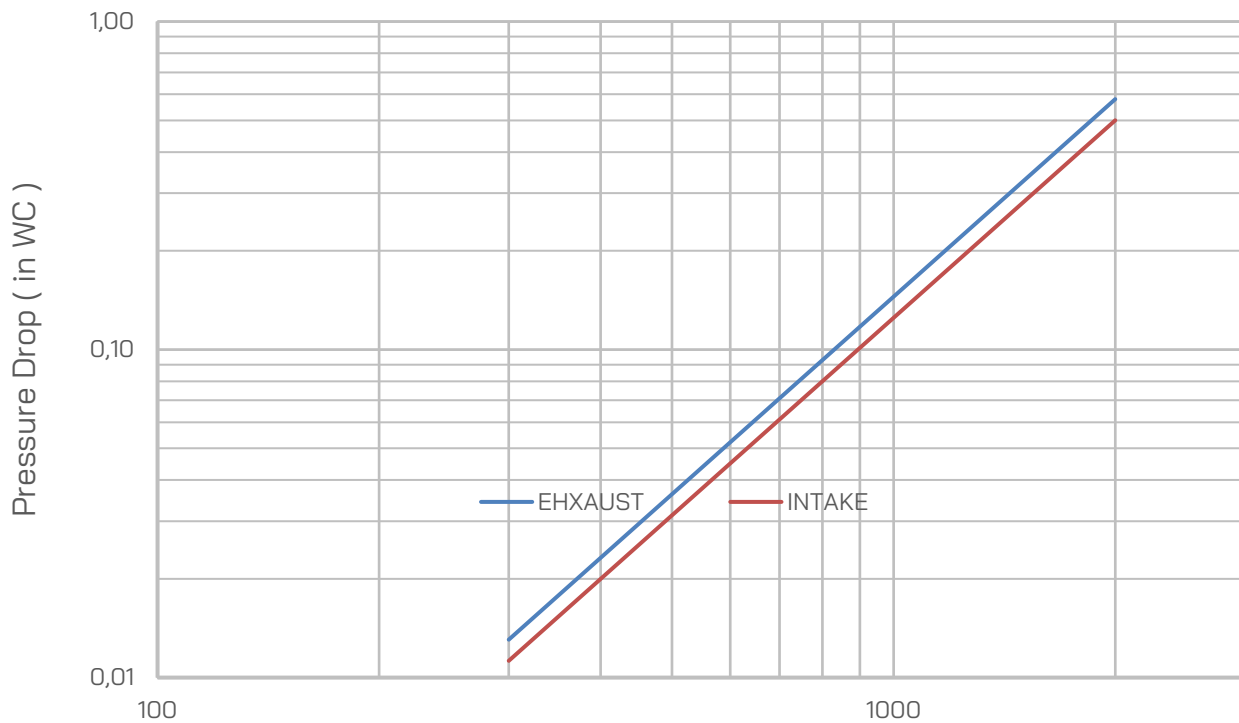
58% Free Area

- Beginning point of water penetration above 1,250 fpm free area velocity
- Published performance ratings based on testing in accordance with AMCA Publication 511
- High performance frame system with drainable head collects and removes water to provide excellent water penetration performance
- Drain gutter in each blade minimizes water cascade between blades
- Continuous blades up to 120" (3048)
- All aluminum construction for low maintenance and high resistance to corrosion
- All welded construction

### PRESSURE DROP

#### Louver size 48" x 48"

(Ratings do not include effect of a bird screen)



Air velocity in free area (fpm)  
air density = 0.075 lbm/ft<sup>3</sup> - AMCA fig. 5.5

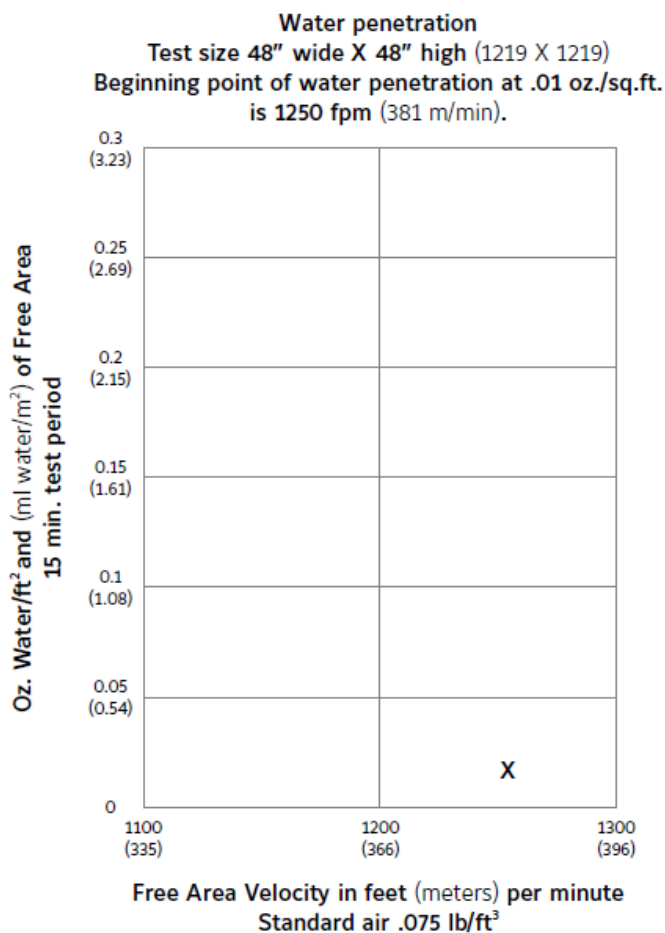


## VED Drainable Louver

### PERFORMANCE DATA

AMCA Standard 500 provides a reasonable basis for testing and rating louvers. Testing to AMCA 500 is performed under a certain set of laboratory conditions. This does not guarantee that other conditions will not occur in the actual environment where louvers must operate.

The louver system should be designed with a reasonable safety factor for louver performance. To ensure protection from water carryover, design with a performance level somewhat below maximum desired pressure drop and .01 oz./sq. ft. of water penetration.



The Tropical Department of Indústrias Tosi certifies that the VED louvers shown herein are 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 Ratings Seal applies to air performance ratings and water penetration ratings only.



## VED Drainable Louver

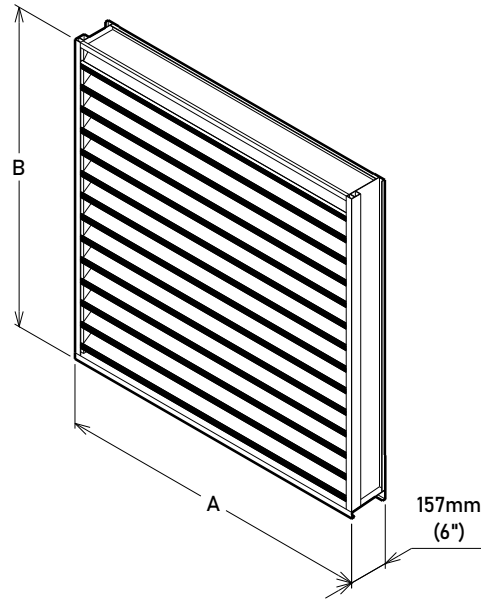
### DIMENSIONAL AND FREE AREA TABLE (m<sup>2</sup>)

		LENGTH IN METERS (A)																		
		0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00
HEIGHT IN METERS (B)	0.30	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,08	0,09	0,10	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,17
	0.45	0,04	0,07	0,10	0,12	0,15	0,18	0,21	0,24	0,27	0,29	0,32	0,35	0,38	0,41	0,44	0,47	0,49	0,52	0,55
	0.60	0,06	0,11	0,16	0,21	0,26	0,30	0,35	0,40	0,45	0,50	0,54	0,59	0,64	0,69	0,74	0,78	0,83	0,88	0,93
	0.75	0,09	0,16	0,23	0,29	0,36	0,43	0,50	0,56	0,63	0,70	0,77	0,83	0,90	0,97	1,04	1,10	1,17	1,24	1,31
	0.90	0,10	0,18	0,26	0,33	0,41	0,49	0,57	0,64	0,72	0,80	0,88	0,95	1,03	1,11	1,18	1,26	1,34	1,42	1,49
	1.05	0,13	0,23	0,32	0,42	0,52	0,61	0,71	0,81	0,90	1,00	1,10	1,19	1,29	1,39	1,48	1,58	1,68	1,77	1,87
	1.20	0,16	0,27	0,39	0,50	0,62	0,74	0,85	0,97	1,09	1,20	1,32	1,43	1,55	1,67	1,78	1,90	2,02	2,13	2,25
	1.35	0,18	0,32	0,45	0,59	0,72	0,86	1,00	1,13	1,27	1,40	1,54	1,67	1,81	1,95	2,08	2,22	2,35	2,49	2,62
	1.50	0,19	0,34	0,49	0,63	0,78	0,92	1,07	1,21	1,36	1,50	1,65	1,79	1,94	2,09	2,23	2,38	2,52	2,67	2,81
	1.65	0,22	0,39	0,55	0,72	0,88	1,05	1,21	1,38	1,54	1,71	1,87	2,04	2,20	2,37	2,53	2,70	2,86	3,03	3,19
	1.80	0,25	0,43	0,62	0,80	0,98	1,17	1,35	1,54	1,72	1,91	2,09	2,28	2,46	2,64	2,83	3,01	3,20	3,38	3,57
	1.95	0,26	0,45	0,65	0,84	1,04	1,23	1,42	1,62	1,81	2,01	2,20	2,40	2,59	2,78	2,98	3,17	3,37	3,56	3,76
	2.10	0,29	0,50	0,71	0,93	1,14	1,35	1,57	1,78	2,00	2,21	2,42	2,64	2,85	3,06	3,28	3,49	3,71	3,92	4,13
	2.25	0,31	0,54	0,78	1,01	1,24	1,48	1,71	1,94	2,18	2,41	2,64	2,88	3,11	3,34	3,58	3,81	4,04	4,28	4,51
	2.40	0,34	0,59	0,84	1,10	1,35	1,60	1,85	2,11	2,36	2,61	2,86	3,12	3,37	3,62	3,88	4,13	4,38	4,63	4,89
	2.55	0,35	0,61	0,88	1,14	1,40	1,66	1,93	2,19	2,45	2,71	2,98	3,24	3,50	3,76	4,03	4,29	4,55	4,81	5,08
	2.70	0,38	0,66	0,94	1,22	1,50	1,79	2,07	2,35	2,63	2,91	3,20	3,48	3,76	4,04	4,32	4,61	4,89	5,17	5,45
	2.85	0,40	0,70	1,01	1,31	1,61	1,91	2,21	2,51	2,81	3,12	3,42	3,72	4,02	4,32	4,62	4,92	5,23	5,53	5,83
	3.00	0,43	0,75	1,07	1,39	1,71	2,03	2,35	2,68	3,00	3,32	3,64	3,96	4,28	4,60	4,92	5,24	5,56	5,89	6,21

The Free Area reported in the table above may vary depending on project conditions. For more information, please contact our technical team.



## VED Drainable Louver



### PRODUCT CODING

178 - 1219 X 1219 T  
1 2 3

#### DIGIT 1 – Product Line

178 – VED Drainable Louver

#### DIGIT 2 – Dimension (mm)

Length x Height

#### DIGIT 3 – Screen

T – Bird Screen

X – Not applicable



## VED Drainable Louver

REVIEW TABLE VED [EN]

DATE	PG. REVISED	REVIEWED BY	REV. N°
23/04/2024	Realese	Fernando Reversi	00



