

Sand Trap Louvers



KOMPONET
LOUVER SERIES



MODEL STL 4.2-XT ULTRA LOW PRESSURE VERTICAL BLADE SAND TRAP LOUVER

STANDARD CONSTRUCTION:

Frame: 0.08" (2.00mm) Extruded Aluminum 6063 T6 or Galvanized Steel or Stainless Steel

Blade: 0.08" (2.00mm) Extruded Aluminum 6063 T6 or Galvanized Steel or Stainless Steel

Bird Screen: 0.75" x .051" Flattened Aluminum in removable frame. Screen is mounted as standard on inside (rear) as looking from exterior of building. Galvanized Steel or Stainless Steel screens are also available in various sizes.

Finish: Mill Aluminum (Std.)

Minimum Size: 12" x 12" (300mm x 300mm)

Maximum Section Size: 120" x 84" (3000 mm x 2100 mm) / 84" x 120" (2100 mm x 3000 mm)

OPTIONS:

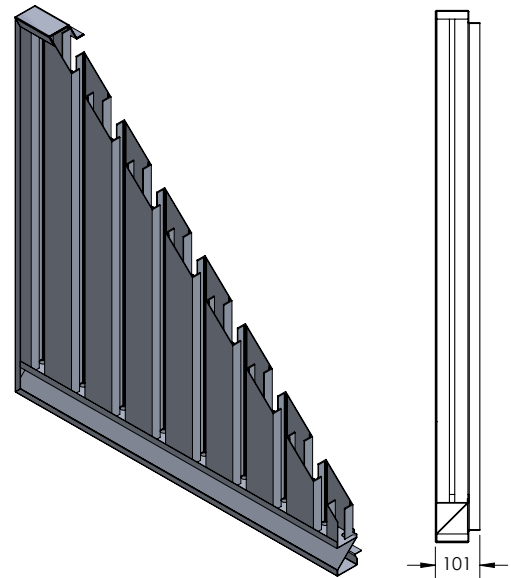
- ☐ Galvanized Steel Construction
- ☐ Stainless Steel Construction
- ☐ Welded Construction (Wind Load +/- 50 psft)
- ☐ Heavy Gauge (Please consult for availability)
- ☐ Security Bars
- ☐ Filter Racks
- ☐ Bird Screen
- ☐ Washable Filter (1/2", 3/5", 1")
- ☐ Extended Sill (with Chute)
- ☐ Optional Flange (with Chute)



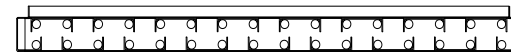
AVAILABLE FINISHES:

- ☐ **Powder Polyester TGIC** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2603 Standards
- ☐ **Powder Super durable polyester** (2 coats) baked on at 410°F, 2.5 to 3.5 mils Meets AAMA-2604-05 Standards
- ☐ **Acrylic baked enamel** (ACRA-BOND® ULTRA) by AkzoNobel baked on at 350°F, 0.8 to 1.2 mils dry Meets AAMA-2603 Standards
- ☐ **Kynar®** (ALUM*A*STAR®) 2 coats by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry Meets AAMA-2604-04 Standards
- ☐ **Kynar 500®** or **HYLAR®** 5000 70% TRINAR® (2 coats) by AkzoNobel baked on at 450°F, 1.2 to 1.6 mils dry, Meets AAMA-2605-05 Standards OPTIONAL
- ☐ **Kynar 500®** or **HYLAR®** 5000 (70% Tri-Escent II) (2 coats) by AkzoNobel, a superior finish to other metallic or anodized finishes. A blend of mica, ceramic, and inorganic pigments create subtle yet dazzling design that goes beyond metallic color without the requirement of a clear coat. 14 standard colors - custom colors available. Baked on at 415°F, 1.4 to 1.8 mils dry, meets AAMA 2605-05.
- ☐ **Clear Anodize** 204 R-1 Class II (AA-C22A31)(0.4 to 0.7 mil)
- ☐ **Clear Anodize** 215 R-1 Class I (AA-C22A41)(>0.7 mil)
- ☐ **Integral Color Anodize** (AA-C22A42)(>0.7 mil)
- ☐ Clear coat available for all above finishes.
- ☐ Hylar® 5000 is a registered trademark of Solvay Solexis, Inc.
- ☐ Kynar® 500 is a registered trademark of Arkema.
- ☐ ALUM*A*STAR® 50 and TRINAR® are registered trademarks of AkzoNobel
- ☐ ACRA-BOND® ULTRA is a registered trademark of AkzoNobel

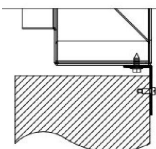
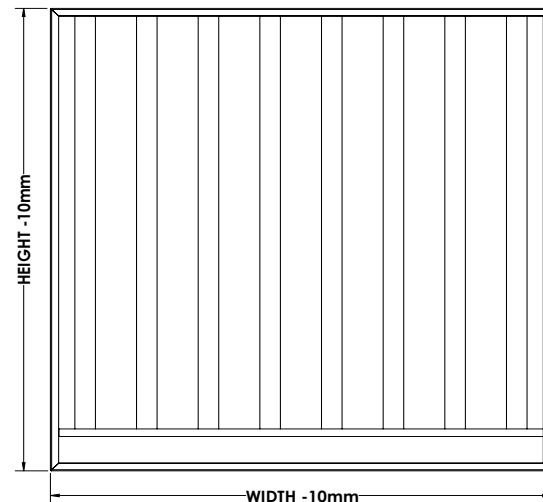
SIDE VIEW



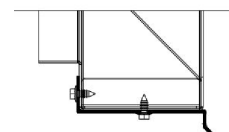
TOP VIEW



FRONT VIEW



OPTIONAL FLANGE



OPTIONAL EXTENDED SILL

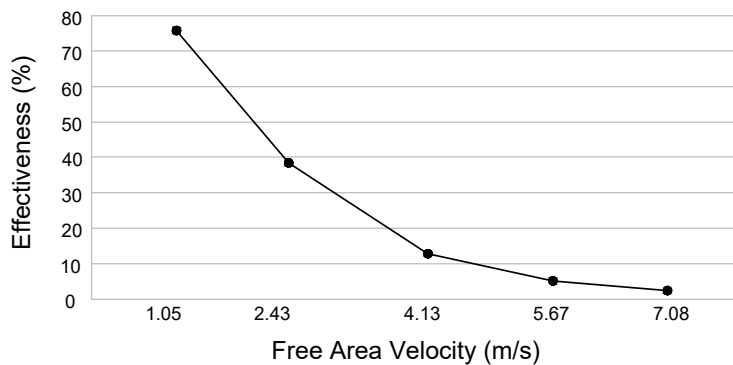


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MODEL STL 4.2-XT ULTRA LOW PRESSURE VERTICAL BLADE SAND TRAP LOUVER

Drawn By: DND	Approved BY: SB	REV. No.: 01	Date: March 2022	Cat ID: STL4.2-XT	Page: 1/4
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WIND DRIVEN SAND PERFORMANCE GRAPH



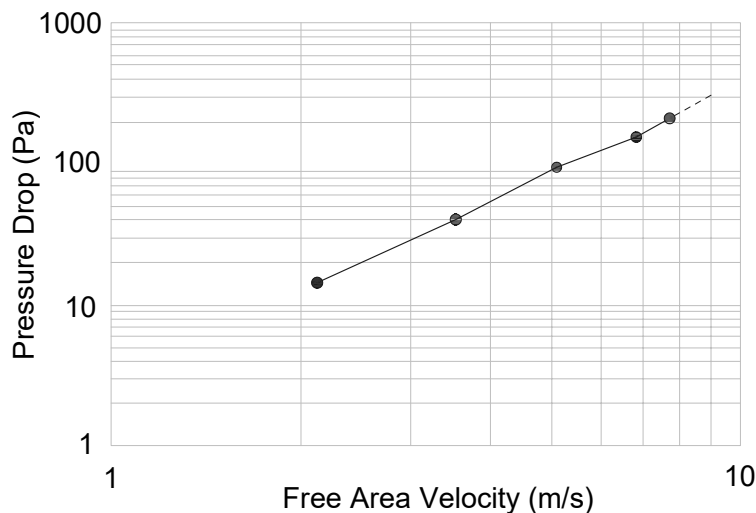
SAND REJECTION PERFORMANCE

$$\text{Free Area Velocity (m/s)} = \text{Airflow rate (m}^3/\text{s)} / \text{Free Area (m}^2\text{)}$$

Test No	Airflow Rate m ³ /s	Free Area Velocity (m/s)	Total Mass Injected g	Total mass Rejected g	Louver Effectiveness %
1	0.40	1.05	1000.3	761.2	76.10
2	0.94	2.43	1000.2	386.1	38.60
3	1.60	4.13	2000.7	257.8	12.89
4	2.19	5.67	2000.7	106.0	5.30
5	2.74	7.08	2000.9	47.2	2.36

Test Sample size is 48"x48" with a tolerance of +0, -0.25".
Wind driven sand performance data is based on intake performance.
Sand grade mass distribution per AMCA 511.

PRESSURE DROP GRAPH



PRESSURE DROP OF LOUVER

Pressure Drop (Pa)	Airflow Rate (m ³ /s)	Free Area Velocity (m/s)
14.42	0.82	2.12
41.21	1.37	3.54
95.77	1.97	5.08
156.45	2.63	6.79
210.9	2.99	7.72

SUGGESTED SPECIFICATION

"Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary with fixed vertical blades formed or extruded and contained within a 3" frame. Where Duct Connection neck or filter rack is installed, frame shall be extended on the discharge side. Louver components (heads, jambs, sills, blades and mullions) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built by the contractor from factory assembled louver sections to provide overall sizes required. Louver design shall incorporate structural supports required to withstand a wind load of 30lbs. per sq.ft."

"Published louver performance bearing the AMCA Certified Ratings Seal for Air Performance & Wind Driven Sand must be submitted for approval prior to fabrication and must demonstrate pressure drop less than the CVS model specified."

"Louver shall be model STL 4.2-XT, extruded Aluminum 6063-T6 construction as follows:
Frame: 3" Deep, 0.08" nominal wall thickness with sand discharge points at the bottom
Blades: 0.08" nominal wall thickness, blades are spaced at 2" apart"



FREE AREA CHART STL 4.2-XT

Height (H)	Width (W)																			
	12 in. 300 mm	18 in. 450 mm	24 in. 600 mm	30 in. 750 mm	36 in. 900 mm	42 in. 1050 mm	48 in. 1200 mm	54 in. 1350 mm	60 in. 1500 mm	66 in. 1650 mm	72 in. 1800 mm	78 in. 1950 mm	84 in. 2100 mm	90 in. 2250 mm	96 in. 2400 mm	102 in. 2550 mm	108 in. 2700 mm	114 in. 2850 mm	120 in. 3000 mm	
12 in. 300 mm	0.09 ft ² 0.01 m ²	0.27 ft ² 0.02 m ²	0.27 ft ² 0.02 m ²	0.44 ft ² 0.04 m ²	0.45 ft ² 0.04 m ²	0.62 ft ² 0.06 m ²	0.64 ft ² 0.06 m ²	0.80 ft ² 0.07 m ²	0.83 ft ² 0.07 m ²	0.98 ft ² 0.09 m ²	1.01 ft ² 0.09 m ²	1.16 ft ² 0.10 m ²	1.20 ft ² 0.10 m ²	1.33 ft ² 0.12 m ²	1.39 ft ² 0.12 m ²	1.51 ft ² 0.14 m ²	1.57 ft ² 0.14 m ²	1.69 ft ² 0.15 m ²	1.76 ft ² 0.15 m ²	
18 in. 450 mm	0.17 ft ² 0.02 m ²	0.51 ft ² 0.05 m ²	0.51 ft ² 0.05 m ²	0.86 ft ² 0.08 m ²	0.87 ft ² 0.08 m ²	1.20 ft ² 0.11 m ²	1.23 ft ² 0.11 m ²	1.54 ft ² 0.14 m ²	1.59 ft ² 0.14 m ²	1.88 ft ² 0.17 m ²	1.95 ft ² 0.17 m ²	2.22 ft ² 0.20 m ²	2.30 ft ² 0.20 m ²	2.57 ft ² 0.23 m ²	2.66 ft ² 0.23 m ²	2.91 ft ² 0.26 m ²	3.02 ft ² 0.26 m ²	3.25 ft ² 0.30 m ²	3.38 ft ² 0.30 m ²	
24 in. 600 mm	0.25 ft ² 0.02 m ²	0.76 ft ² 0.07 m ²	0.76 ft ² 0.07 m ²	1.27 ft ² 0.12 m ²	1.29 ft ² 0.12 m ²	1.77 ft ² 0.16 m ²	1.82 ft ² 0.16 m ²	2.28 ft ² 0.21 m ²	2.35 ft ² 0.21 m ²	2.78 ft ² 0.25 m ²	2.88 ft ² 0.25 m ²	3.29 ft ² 0.30 m ²	3.41 ft ² 0.30 m ²	3.80 ft ² 0.35 m ²	3.94 ft ² 0.35 m ²	4.30 ft ² 0.39 m ²	4.47 ft ² 0.39 m ²	4.81 ft ² 0.44 m ²	5.00 ft ² 0.44 m ²	
30 in. 750 mm	0.34 ft ² 0.03 m ²	1.01 ft ² 0.09 m ²	1.01 ft ² 0.09 m ²	1.68 ft ² 0.15 m ²	1.71 ft ² 0.15 m ²	2.35 ft ² 0.21 m ²	2.41 ft ² 0.21 m ²	3.02 ft ² 0.27 m ²	3.11 ft ² 0.27 m ²	3.69 ft ² 0.34 m ²	3.81 ft ² 0.34 m ²	4.36 ft ² 0.40 m ²	4.51 ft ² 0.40 m ²	5.03 ft ² 0.46 m ²	5.22 ft ² 0.46 m ²	5.70 ft ² 0.52 m ²	5.92 ft ² 0.52 m ²	6.37 ft ² 0.58 m ²	6.62 ft ² 0.58 m ²	
36 in. 900 mm	0.42 ft ² 0.04 m ²	1.25 ft ² 0.11 m ²	1.25 ft ² 0.11 m ²	2.09 ft ² 0.19 m ²	2.12 ft ² 0.19 m ²	2.92 ft ² 0.27 m ²	3.00 ft ² 0.27 m ²	3.75 ft ² 0.34 m ²	3.87 ft ² 0.34 m ²	4.59 ft ² 0.42 m ²	4.74 ft ² 0.42 m ²	5.42 ft ² 0.49 m ²	5.62 ft ² 0.49 m ²	6.26 ft ² 0.57 m ²	6.49 ft ² 0.57 m ²	7.09 ft ² 0.65 m ²	7.37 ft ² 0.65 m ²	7.92 ft ² 0.72 m ²	8.24 ft ² 0.72 m ²	
42 in. 1050 mm	0.50 ft ² 0.05 m ²	1.50 ft ² 0.14 m ²	1.50 ft ² 0.14 m ²	2.50 ft ² 0.23 m ²	2.54 ft ² 0.23 m ²	3.49 ft ² 0.32 m ²	3.58 ft ² 0.32 m ²	4.49 ft ² 0.41 m ²	4.63 ft ² 0.41 m ²	5.49 ft ² 0.50 m ²	5.68 ft ² 0.50 m ²	6.49 ft ² 0.59 m ²	6.72 ft ² 0.59 m ²	7.49 ft ² 0.68 m ²	7.77 ft ² 0.68 m ²	8.48 ft ² 0.77 m ²	8.81 ft ² 0.77 m ²	9.48 ft ² 0.87 m ²	9.86 ft ² 0.87 m ²	
48 in. 1200 mm	0.58 ft ² 0.05 m ²	1.74 ft ² 0.16 m ²	1.74 ft ² 0.16 m ²	2.91 ft ² 0.27 m ²	2.96 ft ² 0.27 m ²	4.07 ft ² 0.37 m ²	4.17 ft ² 0.37 m ²	5.23 ft ² 0.48 m ²	5.40 ft ² 0.48 m ²	6.39 ft ² 0.58 m ²	6.61 ft ² 0.58 m ²	7.55 ft ² 0.69 m ²	7.83 ft ² 0.69 m ²	8.72 ft ² 0.80 m ²	9.05 ft ² 0.80 m ²	9.88 ft ² 0.90 m ²	10.26 ft ² 0.90 m ²	11.04 ft ² 1.01 m ²	11.48 ft ² 1.01 m ²	
54 in. 1350 mm	0.66 ft ² 0.06 m ²	1.99 ft ² 0.18 m ²	1.99 ft ² 0.18 m ²	3.32 ft ² 0.30 m ²	3.38 ft ² 0.30 m ²	4.64 ft ² 0.42 m ²	4.76 ft ² 0.42 m ²	5.97 ft ² 0.54 m ²	6.16 ft ² 0.54 m ²	7.29 ft ² 0.67 m ²	7.54 ft ² 0.67 m ²	8.62 ft ² 0.79 m ²	8.93 ft ² 0.79 m ²	9.95 ft ² 0.91 m ²	10.32 ft ² 0.91 m ²	11.27 ft ² 1.03 m ²	11.71 ft ² 1.03 m ²	12.60 ft ² 1.15 m ²	13.10 ft ² 1.15 m ²	
60 in. 1500 mm	0.75 ft ² 0.07 m ²	2.24 ft ² 0.20 m ²	2.24 ft ² 0.20 m ²	3.73 ft ² 0.34 m ²	3.79 ft ² 0.34 m ²	5.22 ft ² 0.48 m ²	5.35 ft ² 0.48 m ²	6.71 ft ² 0.61 m ²	6.92 ft ² 0.61 m ²	8.20 ft ² 0.75 m ²	8.48 ft ² 0.75 m ²	9.69 ft ² 0.88 m ²	10.04 ft ² 0.88 m ²	11.18 ft ² 1.02 m ²	11.60 ft ² 1.02 m ²	12.67 ft ² 1.16 m ²	13.16 ft ² 1.16 m ²	14.16 ft ² 1.29 m ²	14.73 ft ² 1.29 m ²	
66 in. 1650 mm	0.83 ft ² 0.08 m ²	2.48 ft ² 0.23 m ²	2.48 ft ² 0.23 m ²	4.14 ft ² 0.38 m ²	4.21 ft ² 0.38 m ²	5.79 ft ² 0.53 m ²	5.94 ft ² 0.53 m ²	7.44 ft ² 0.68 m ²	7.68 ft ² 0.68 m ²	9.10 ft ² 0.83 m ²	9.41 ft ² 0.83 m ²	10.75 ft ² 0.98 m ²	11.14 ft ² 0.98 m ²	12.41 ft ² 1.13 m ²	12.88 ft ² 1.13 m ²	14.06 ft ² 1.28 m ²	14.61 ft ² 1.28 m ²	15.72 ft ² 1.44 m ²	16.35 ft ² 1.44 m ²	
72 in. 1800 mm	0.91 ft ² 0.08 m ²	2.73 ft ² 0.25 m ²	2.73 ft ² 0.25 m ²	4.55 ft ² 0.42 m ²	4.63 ft ² 0.42 m ²	6.36 ft ² 0.58 m ²	6.53 ft ² 0.58 m ²	8.18 ft ² 0.75 m ²	8.44 ft ² 0.75 m ²	10.00 ft ² 0.91 m ²	10.34 ft ² 0.91 m ²	11.82 ft ² 1.08 m ²	12.24 ft ² 1.08 m ²	13.64 ft ² 1.25 m ²	14.16 ft ² 1.25 m ²	15.46 ft ² 1.41 m ²	16.06 ft ² 1.41 m ²	17.27 ft ² 1.58 m ²	17.97 ft ² 1.58 m ²	
78 in. 1950 mm	0.99 ft ² 0.09 m ²	2.97 ft ² 0.27 m ²	2.97 ft ² 0.27 m ²	4.96 ft ² 0.45 m ²	5.05 ft ² 0.45 m ²	6.94 ft ² 0.63 m ²	7.12 ft ² 0.63 m ²	8.92 ft ² 0.81 m ²	9.20 ft ² 0.81 m ²	10.90 ft ² 1.00 m ²	11.28 ft ² 1.00 m ²	12.89 ft ² 1.18 m ²	13.35 ft ² 1.18 m ²	14.87 ft ² 1.36 m ²	15.43 ft ² 1.36 m ²	16.85 ft ² 1.54 m ²	17.51 ft ² 1.54 m ²	18.83 ft ² 1.72 m ²	19.59 ft ² 1.72 m ²	
84 in. 2100 mm	1.07 ft ² 0.10 m ²	3.22 ft ² 0.29 m ²	3.22 ft ² 0.29 m ²	5.37 ft ² 0.49 m ²	5.46 ft ² 0.49 m ²	7.51 ft ² 0.69 m ²	7.71 ft ² 0.69 m ²	9.66 ft ² 0.88 m ²	9.96 ft ² 0.88 m ²	11.81 ft ² 1.08 m ²	12.21 ft ² 1.08 m ²	13.95 ft ² 1.27 m ²	14.45 ft ² 1.27 m ²	16.10 ft ² 1.47 m ²	16.71 ft ² 1.47 m ²	18.25 ft ² 1.67 m ²	18.95 ft ² 1.67 m ²	20.39 ft ² 1.86 m ²	21.21 ft ² 1.86 m ²	
90 in. 2250 mm	1.16 ft ² 0.11 m ²	3.47 ft ² 0.32 m ²	3.47 ft ² 0.32 m ²	5.78 ft ² 0.53 m ²	5.88 ft ² 0.53 m ²	8.09 ft ² 0.74 m ²	8.30 ft ² 0.74 m ²	10.40 ft ² 0.95 m ²	10.73 ft ² 0.95 m ²	12.71 ft ² 1.16 m ²	13.14 ft ² 1.16 m ²	15.02 ft ² 1.37 m ²	15.56 ft ² 1.37 m ²	---	---	---	---	---	---	
96 in. 2400 mm	1.24 ft ² 0.11 m ²	3.71 ft ² 0.34 m ²	3.71 ft ² 0.34 m ²	6.19 ft ² 0.57 m ²	6.30 ft ² 0.57 m ²	8.66 ft ² 0.79 m ²	8.89 ft ² 0.79 m ²	11.14 ft ² 1.02 m ²	11.49 ft ² 1.02 m ²	13.61 ft ² 1.24 m ²	14.08 ft ² 1.24 m ²	16.08 ft ² 1.47 m ²	16.66 ft ² 1.47 m ²	---	---	---	---	---	---	
102 in. 2550 mm	1.32 ft ² 0.12 m ²	3.96 ft ² 0.36 m ²	3.96 ft ² 0.36 m ²	6.60 ft ² 0.60 m ²	6.72 ft ² 0.60 m ²	9.24 ft ² 0.84 m ²	9.48 ft ² 0.84 m ²	11.87 ft ² 1.08 m ²	12.25 ft ² 1.08 m ²	14.51 ft ² 1.33 m ²	15.01 ft ² 1.33 m ²	17.15 ft ² 1.57 m ²	17.77 ft ² 1.57 m ²	---	---	---	---	---	---	
108 in. 2700 mm	1.40 ft ² 0.13 m ²	4.20 ft ² 0.38 m ²	4.20 ft ² 0.38 m ²	7.01 ft ² 0.64 m ²	7.13 ft ² 0.64 m ²	9.81 ft ² 0.90 m ²	10.07 ft ² 0.90 m ²	12.61 ft ² 1.15 m ²	13.01 ft ² 1.15 m ²	15.41 ft ² 1.41 m ²	15.94 ft ² 1.41 m ²	18.22 ft ² 1.66 m ²	18.87 ft ² 1.66 m ²	---	---	---	---	---	---	
114 in. 2850 mm	1.48 ft ² 0.14 m ²	4.45 ft ² 0.41 m ²	4.45 ft ² 0.41 m ²	7.42 ft ² 0.68 m ²	7.55 ft ² 0.68 m ²	10.38 ft ² 0.95 m ²	10.65 ft ² 0.95 m ²	13.35 ft ² 1.22 m ²	13.77 ft ² 1.22 m ²	16.32 ft ² 1.49 m ²	16.87 ft ² 1.49 m ²	19.28 ft ² 1.76 m ²	19.98 ft ² 1.76 m ²	---	---	---	---	---	---	
120 in. 3000 mm	1.57 ft ² 0.14 m ²	4.70 ft ² 0.43 m ²	4.70 ft ² 0.43 m ²	7.83 ft ² 0.72 m ²	7.97 ft ² 0.72 m ²	10.96 ft ² 1.00 m ²	11.24 ft ² 1.00 m ²	14.09 ft ² 1.29 m ²	14.53 ft ² 1.29 m ²	17.22 ft ² 1.57 m ²	17.81 ft ² 1.57 m ²	20.35 ft ² 1.86 m ²	21.08 ft ² 1.86 m ²	---	---	---	---	---	---	

--- Louvers will be manufactured in multi-section configuration for these highlighted sizes.



Central Ventilation Systems certifies that STL4.2-XT 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 certified ratings seal applies to wind driven sand and air performance ratings.

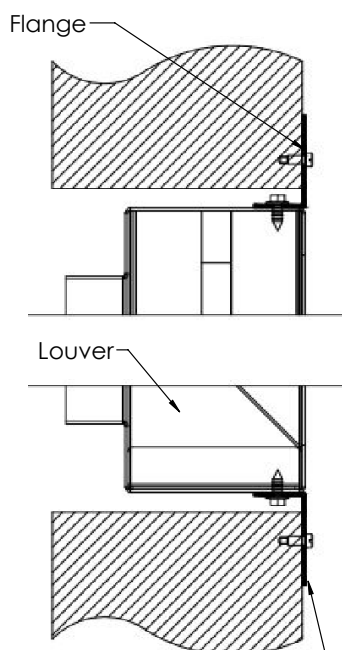
Tested for wind driven sand rejection in accordance with AMCA Standard 500-L, Figure 5.12.

KOMPONET
LOUVER SERIES



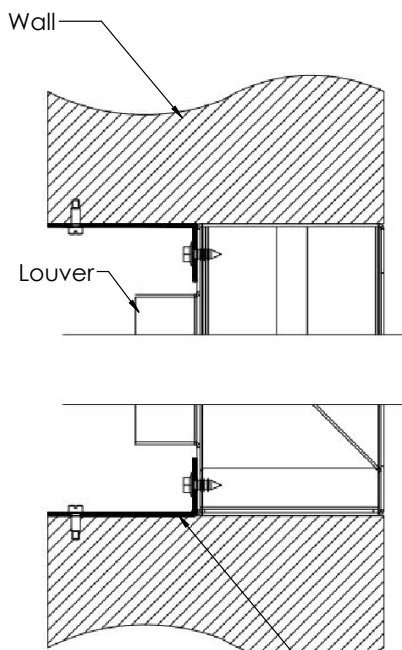
SAND TRAP LOUVER INSTALLATION INSTRUCTIONS

Flange Mount



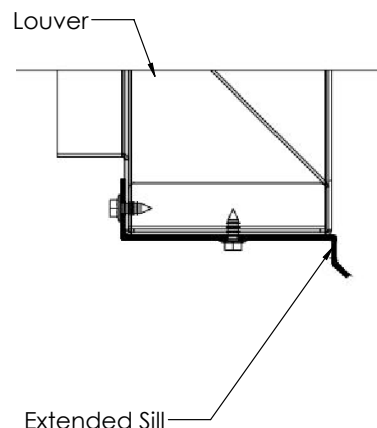
Attach louver sections together with L-Angle using suitable fasteners.
Fasteners are not supplied by CVS

Masonry Wall

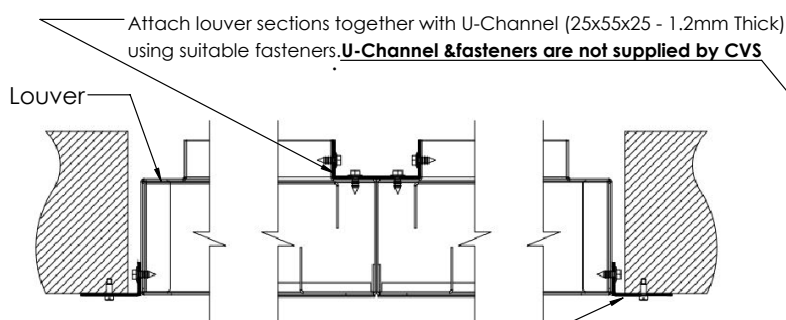


Attach louver sections together with L-Angle using suitable fasteners.
Fasteners are not supplied by CVS

Extended Sill

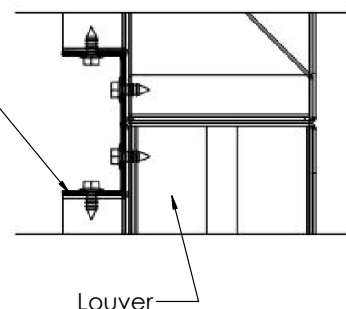


Multi-Section Assembly Plan View



Attach louver sections together with L-Angle thru suitable fasteners.
Not supplied by CVS

Multi-Section Assembly Elevation View



Notes:

- * **All the installation accessories and fasteners are not provided by CVS.**
- * Prior to installation, if the unit is to be stored on site, ensure it is stored in a clean & dry environment.
- * Don't stack excessive numbers of units as the weight of the stack may damage them.
- * Prior to installation, remove all packaging from the units.
- * **Central Ventilation Systems (CVS)** reserves the right to change specifications without notice.

Louvers Range

- Sand Trap Louvers
- Fixed Louvers
- Acoustical Louvers
- Wind - driven Rain Louvers
- Combination Louver/Damper
- Adjustable Louvers

Other Products

- Fire-rated Ductwork
- UL Classified Dampers
- Access Doors
- Sound Attenuators
- VAV Boxes
- Volume Control Dampers
- Backdraft Dampers
- Pressure Relief Dampers
- Industrial Dampers



Central Ventilation Systems

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Contact us: sales@cvshvac.com

www.cvshvac.com

Our Brands



Fire-rated Ductwork



UL Classified Dampers



Sound Attenuators



VCD's and Louvers