ESM-5LS-HV

HURRICANE LOUVER
HIGH PERFORMANCE LOUVER
STATIONARY LOUVER

E|S Louvers & Screens

APPLICATION

5LS-HV is a stationary sight-proof ventilation louver system made of extruded aluminum, designed to protect air intake and exhaust openings in the exterior walls of buildings. The ventilation grille system is AMCA 550 & 540 certified and is going to be AMCA 500L certified, allowing it to be installed in rooms without drainage and capable of housing equipment that lacks water protection. System is tested and qualified per Florida test protocols: TAS 201 (LargeMissile Impact), TAS 202 (Loads) and TAS 203 (Cyclic Wind Loading).Designed and tested to comply with the requirements of the 8th Edition Florida Building Code (2023) including High Velocity Hurricane Zone (HVHZ).

STANDARD CONSTRUCTION

MATERIAL	6063-T6 extruded aluminum
FRAME	The frame is 5" deep 0.081" nominal wall thickness
HORIZONTAL BLADES	0.117" nominal wall thickness. The distance between centers is 1"
VERTICAL BLADES	0.050" nominal wall thickness. The distance between centers is 0.875" Double drainable
MAXIMUM LOUVER SIZE	Dimensions: 1. 96"w x 60"h 2. 60"w x 96"h Single section Area: 40sqft Louvers exceeding maximum single section will be built in multiple sections
MINIMUM LOUVER SIZE	Dimensions: 12"w x 12" h
APPROX. WEIGHT	7.35 lb/ft^2

FEATURES

- High performance
- High Free Area: 51%
- AMCA 550/540
- AMCA 500L (In process)
- Florida Building Code Approval: No. FL 48282
- TAS 201, TAS 202 and TAS 203
- Hurricane Resistant
- Stainless Steel Hardware
- 90 psf max design pressure (72"w x 120"h with stiffeners)
- 100 psf max design pressure (60"w x 96"h & 96"w x 60"h)
- 150 psf max design pressure (72"w x 96"h with stiffeners)
- Corrosion resistant



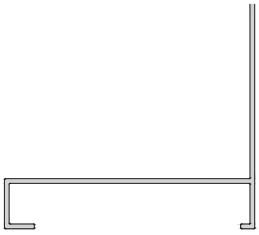


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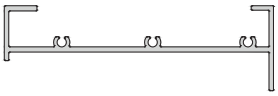
FRAME



ESM-507



ESM-508

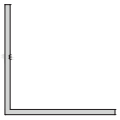


ESM-509

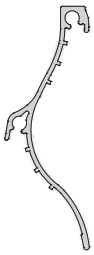
BLADE



ESM-510



ALU-A-009

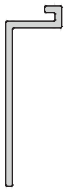


ESM-468

INSTALLATION ANGLES



ESM-149



ESM-148



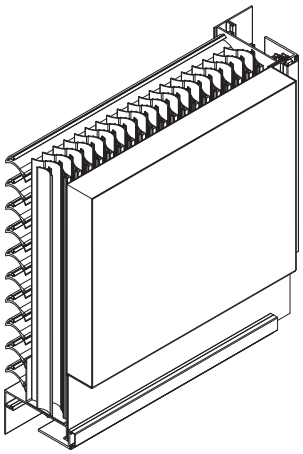
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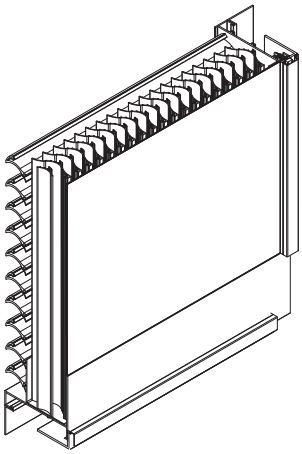
ALU-A-002

OPTIONAL ACCESSORIES

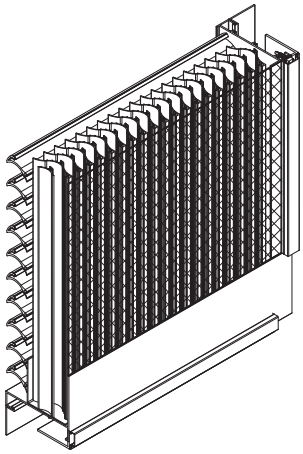
Options available at additional cost include:



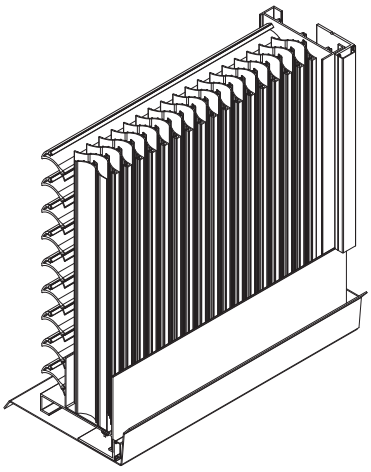
INSULATED BLANK OFF
(INTERNAL VIEW)



BACK PAN
(INTERNAL VIEW)



BIRD/INSECT SCREEN
(INTERNAL VIEW)



SILL PAN LOUVER
(INTERNAL VIEW)

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FREE AREA CHART (Free area chart shows free area in %)

ESM-5LS-HV LOUVER SYSTEM OPEN AREA %

UNIT HEIGHT \ UNIT WIDTH	12''	24''	36''	48''	60''	72''	84''	96''	108''	120''
12''	25 %	29 %	30 %	31 %	31 %	3 %	31 %	31 %	32 %	32 %
24''	36 %	43 %	44 %	45 %	46 %	46 %	46 %	46 %	47 %	47 %
36''	40 %	47 %	49 %	50 %	50 %	51 %	51 %	51 %	52 %	52 %
48''	42 %	49 %	51 %	52 %	53 %	53 %	54 %	54 %	54 %	54 %
60''	43 %	51 %	52 %	54 %	54 %	55 %	56 %	55 %	56 %	55 %
72''	43 %	51 %	52 %	54 %	55 %	55 %	55 %	55 %	56 %	57 %
84''	44 %	52 %	53 %	55 %	55 %	56 %	56 %	56 %	57 %	57 %
96''	45 %	52 %	54 %	55 %	56 %	57 %	57 %	57 %	57 %	57 %
108''	45 %	53 %	55 %	56 %	57 %	58 %	58 %	58 %	58 %	58 %
120''	45 %	53 %	55 %	56 %	57 %	57 %	57 %	58 %	58 %	58 %

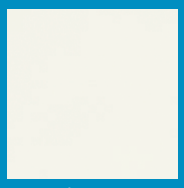
ESM-5LS-HV LOUVER SYSTEM FREE AREA SQFT

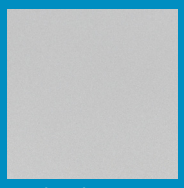
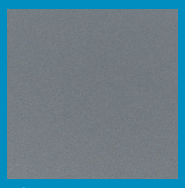
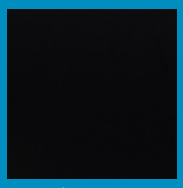
UNIT HEIGHT \ UNIT WIDTH	12''	24''	36''	48''	60''	72''	84''	96''	108''	120''
12''	0,25	0,58	0,89	1,51	1,55	1,88	2,19	2,52	2,85	3,17
24''	0,73	1,70	2,63	3,73	4,56	5,53	6,46	7,41	8,40	9,32
36''	1,21	2,83	4,37	5,95	7,57	9,18	10,72	12,30	13,94	15,47
48''	1,69	3,95	6,11	8,17	10,57	12,84	14,98	17,20	19,49	21,62
60''	2,17	5,07	7,85	10,39	13,58	16,49	19,25	22,09	25,03	27,77
72''	2,61	6,10	9,44	12,61	16,34	19,83	23,15	26,58	30,11	33,41
84''	3,09	7,23	11,18	14,83	19,35	23,49	27,42	31,47	35,66	39,56
96''	3,57	8,35	12,92	17,05	22,36	27,14	31,68	36,36	41,20	45,71
108''	4,09	9,57	14,81	19,27	25,62	31,09	36,30	41,66	47,21	52,38
120''	4,53	10,60	16,40	21,49	28,37	34,44	40,21	46,15	52,29	58,02

FINISHES

ES METALS standard colors are the following: Two coats: Primer and color coat:

E|S METALS



	Bone White	Black	Arcadia Silver	Silverstorm	Bermuda Bronze
AAMA2605	UC43350	UC40577	UC70123F	UC106685F	UC105262
AAMA2604	UC141202	UC130902	UC143459	UC139554	UC143010

Note: Contact us for more custom colors.

+1 (305) 213 2985 contact@es-metals.com www.es-metals.com