# ESM-6LS-H

WIND DRIVEN RAIN & IMPACT LOUVER (PENDING)
HIGH PERFORMANCE LOUVER
STATIONARY LOUVER

E|S Louvers & Screens

## APPLICATION

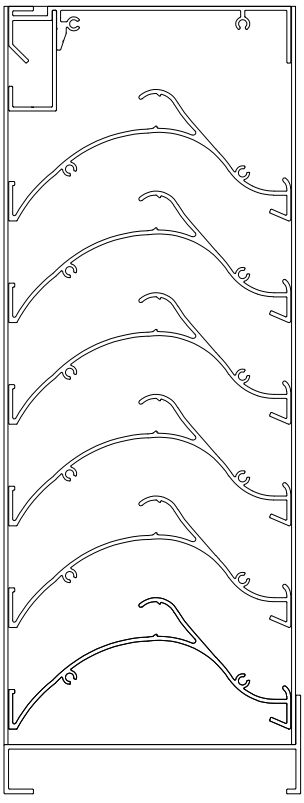
ESM-6LS-H is an extruded aluminum sightproof stationary louver system designed to protect air intake and exhaust openings in building exterior walls. The louver system will be AMCA 540 and AMCA 500-L certified. This system shall only be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water resistant/waterproof equipment, components or supplies.

System is pending to be 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 6" deep<br>0.081" nominal wall thickness |
| BLADES | 0.081" nominal wall thickness.<br>The distance between centers is 2"<br>Double drainable |
| MAXIMUM LOUVER SIZE | Dimensions:<br>1. 120"w x 60"h<br>2. 60"w x 120"h<br>Single section Area: 50sqft<br>Louvers exceeding maximum single section will be built in multiple sections |
| MINIMUM LOUVER SIZE | Dimensions: 12"w x 12" h |
| APPROX. WEIGHT | 7,16 lb/ft$^2$ |



## FEATURES

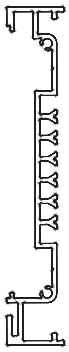
- High performance
- High Free Area: 51%
- AMCA 540/500L (Pending)
- TAS 201, TAS 202 and TAS 203 (Pending)
- Florida Building Code Approval (Pending)
- Hurricane Resistant (Pending)
- Stainless Steel Hardware
- 150 psf max design pressure
- Corrosion resistant
- Durability and low maintenance

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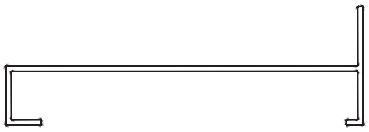
## FRAME



JAMB

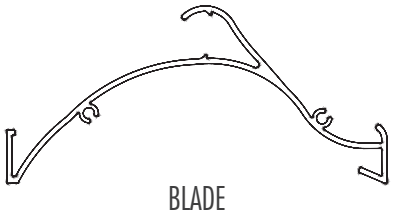


HEAD



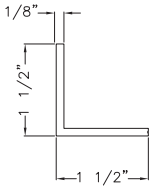
SILL

## BLADE

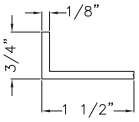


BLADE

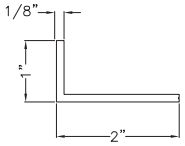
## INSTALLATION ANGLES




ALU-A-019



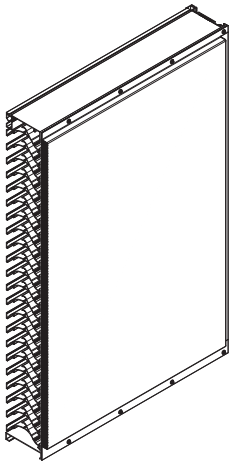

ESM-081



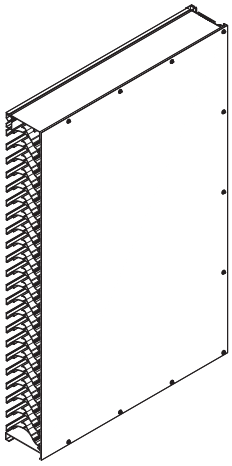

ALU-A-002

## OPTIONAL ACCESSORIES

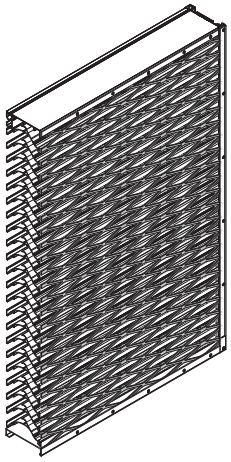
Options available at additional cost include:



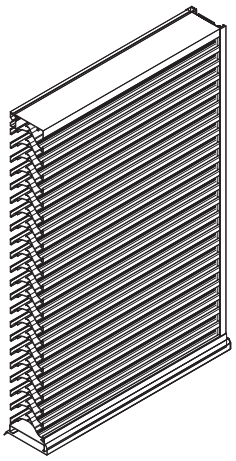
INSULATED BLANK OFF
(INTERNAL VIEW)



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-6LS-H LOUVER SYSTEM OPEN AREA %

| UNIT HEIGHT \ UNIT WIDTH | 12'' | 24'' | 36'' | 48'' | 60'' | 72'' | 84'' | 96'' | 108'' | 120'' |
|---|---|---|---|---|---|---|---|---|---|---|
| 12'' | 37 % | 41 % | 42 % | 43 % | 43 % | 43 % | 43 % | 43 % | 43 % | 43 % |
| 24'' | 43 % | 48 % | 49 % | 50 % | 50 % | 50 % | 50 % | 50 % | 50 % | 51 % |
| 36'' | 45 % | 50 % | 51 % | 52 % | 53 % | 52 % | 52 % | 53 % | 53 % | 53 % |
| 48'' | 46 % | 51 % | 53 % | 53 % | 54 % | 53 % | 53 % | 54 % | 54 % | 54 % |
| 60'' | 47 % | 52 % | 53 % | 54 % | 55 % | 54 % | 54 % | 54 % | 55 % | 55 % |
| 72'' | 47 % | 52 % | 54 % | 55 % | 55 % | 54 % | 55 % | 55 % | 55 % | 55 % |
| 84'' | 48 % | 53 % | 54 % | 55 % | 55 % | 55 % | 55 % | 55 % | 55 % | 56 % |
| 96'' | 48 % | 53 % | 54 % | 55 % | 56 % | 55 % | 55 % | 55 % | 56 % | 56 % |
| 108'' | 48 % | 53 % | 55 % | 55 % | 56 % | 55 % | 55 % | 56 % | 56 % | 56 % |
| 120'' | 48 % | 53 % | 55 % | 56 % | 56 % | 55 % | 56 % | 56 % | 56 % | 56 % |

ESM-6LS-H LOUVER SYSTEM FREE AREA SQFT

| UNIT HEIGHT \ UNIT WIDTH | 12'' | 24'' | 36'' | 48'' | 60'' | 72'' | 84'' | 96'' | 108'' | 120'' |
|---|---|---|---|---|---|---|---|---|---|---|
| 12'' | 0,37 | 0,82 | 1,27 | 1,72 | 2,16 | 2,56 | 3,00 | 3,45 | 3,90 | 4,35 |
| 24'' | 0,87 | 1,91 | 2,95 | 3,99 | 5,03 | 5,95 | 6,99 | 8,03 | 9,07 | 10,11 |
| 36'' | 1,36 | 3,00 | 4,63 | 6,27 | 7,90 | 9,33 | 10,97 | 12,61 | 14,24 | 15,88 |
| 48'' | 1,86 | 4,09 | 6,32 | 8,54 | 10,77 | 12,72 | 14,95 | 17,18 | 19,41 | 21,64 |
| 60'' | 2,35 | 5,18 | 8,00 | 10,82 | 13,64 | 16,11 | 18,94 | 21,76 | 24,58 | 27,40 |
| 72'' | 2,85 | 6,26 | 9,68 | 13,10 | 16,51 | 19,50 | 22,92 | 26,34 | 29,75 | 33,17 |
| 84'' | 3,34 | 7,35 | 11,36 | 15,37 | 19,38 | 22,89 | 26,90 | 30,91 | 34,92 | 38,93 |
| 96'' | 3,84 | 8,44 | 13,04 | 17,65 | 22,25 | 26,28 | 30,88 | 35,49 | 40,09 | 44,70 |
| 108'' | 4,33 | 9,53 | 14,73 | 19,92 | 25,12 | 29,67 | 34,87 | 40,06 | 45,26 | 50,46 |
| 120'' | 4,83 | 10,62 | 16,41 | 22,20 | 27,99 | 33,06 | 38,85 | 44,64 | 50,43 | 56,22 |

## 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