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AGENT:

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Fixed Louvers with Extruded Aluminum





FLE431



Fixed Louvers with Extruded Aluminum

FLOWTECH CO., LTD certifies that the FLE-431 shown herein is(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 Seals applies to Water penetration and Air Performance only.



GLOBALLY RECOGNIZED CERTIFICATIONS AND STANDARDS



Ventilation Performance and Smoke management Laboratory

Any series of ventilation products such as fans, dampers required performance and quality requirements, can be provided by the laboratory for a full range of testing services. Technical requirements with an independent and impartial implementation for each test was supervision under by TAF, hence, all the domestic public works and fire commuting to foreign countries any more, this even saving more time and costs.









The only UL certification LAB. in ASIA.

TUV certificates

TAF LAB certificates

Standards

■ AMCA 210

■ BS 848-1 ■ DIN 24163-2

■ ISO 5801

Standards

■ AMCA 500

■ UL 555S

■ ISO 10294 ■ GB 15930

Ower Pressure Drop Testing Facility

Standards

■ AMCA 500

Silencer / Acoustical Louver Tesring Facility

Standards

■ ASTM-E477

■ ISO 7235

Standards

■ ISO 13350

■ BS 848-10

Standards

■ UL 555

AMCA 210 AMCA 300

AMCA 500

AS 4429

ASTM-E477

ASHRAE 149

DIN 24163-2

BS 7346-2 BS 848-1

BS 848-2

BS 848-10

GA 211

GB 15930

EN 12101-3 ISO 5801

UL 555 UL 555S

ISO 7235

ISO 10294

ISO 13350



Exhaust Duct exit of Reverberant



Multiple Nozzles for Flow Measurement



Reverberant Room 360°Routing Microphone in Reverberant



Flow Straightener



Silencer in Exhaust Duct

















Application and design

FLE-431 is a louver designed to air intake and exhaust openings in building exterior walls. Design the blades with non-drainable. It have the better efficiency to prevent water penetration. The FLE-431 is an extremely efficient louver with AMCA Certified enabling designers to select and apply with confidence.



| Model Name | FLE-431 | FLE-431-S |
|------------------------------|----------------------------|------------------------------|
| Material | 6063 Extruded Aluminum | AISI 304/316 Stainless Steel |
| Frame | 2.5mm | |
| Blade | 2.5mm | |
| Construction | Screw | |
| Louver Depth | 100mm | |
| Blade Centers Distance | 102mm | |
| Blade Angle | Blade Center 45° | Blade Entrance 37° |
| Min. Size | 305mm x 305mm (12"x12") | |
| Max. Size | 1829mm x 2438mm (72"x96") | |
| Free Area 1220 mmx1220 mm | 0.662m² Free Area 44.5% | |
| Finish | Standard Mill | |



Options

- The birdscreen material could be option 1.0mm, 1.2mm or others diameter galvanized wire steel or stainless wire steel. The size pitch may be 10~20 mm square mesh or the others size.
- Filter racks.
- Flanged frame.

Suggested Specification

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall be stationary type contained within a 100 mm frame. Louver components (jambs, mullions, sills and blades) shall be factory assembled by the louver manufacturer. Louver sizes too large for shipping shall be built up by the contractor from factory assembled louver sections to provide overall sizes required.

Features

- Over 15% Free Area Coefficient.
- Architecturally styled hidden mullions allowing continuous line appearance.
- Published performance ratings based on testing in accordance with AMCA Standard 500-L.

Free Area Chart

| 1.80 |
|-------|
| 0.115 |
| 0.220 |
| 0.400 |
| 0.506 |
| 0.686 |
| 0.791 |
| 1.006 |
| 1.152 |
| 1.257 |
| 1.437 |
| 1.543 |
| 1.723 |
| 1.828 |
| 2.009 |
| 2.114 |
| |



FLE 431 Fixed Louvers with Extruded Aluminum

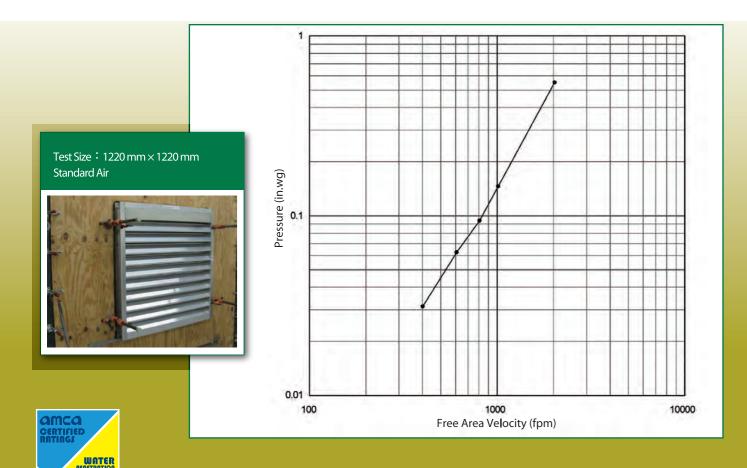
Test Construction

| Frame | 6063 Extruded Aluminum | |
|-----------|-----------------------------|--|
| Blades | 6063 Extruded Aluminum | |
| Sizes | 1220 mm × 1220 mm | |
| Free Area | 44.5% Free Area Coefficient | |

Air Performance

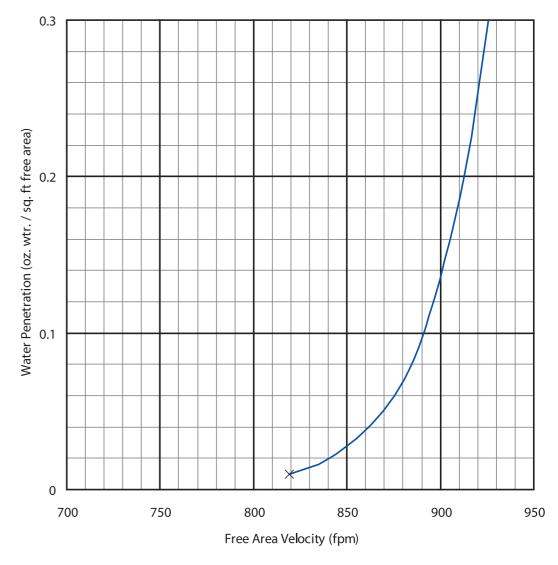
Published louver performance data bearing the AMCA Certified Ratings Seal for Air Performance must be submitted for approval prior to fabrication and must demonstrate pressure drop and water penetration equal to or less than the model specified.

Label "Exhaust" on the Pressure Drop chart.



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Water Penetration





Test Size: 1220 mm × 1220 mm Standard Air The Beginning of water penetration is 817.3 fpm (15 min. duration)



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