

5WDRL-CF(Miami-Dade approved) WIND DRIVEN RAIN RESISTANT LOUVER

STANDARD CONSTRUCTION

FRAME

5" deep, 6063-T5 extruded aluminum.
.081" nominal wall thickness.

BLADES

6063-T5 extruded aluminum.
.081" nominal wall thickness.
Double Drainable, sight-proof blades
spaced on approximately 2.125" centers.

SCREEN

3/4" x .051" thick, flattened expanded metal,
aluminum bird screen in removable frame.
Screen will add approximately 1/2" to the
depth of the louver.

FINISH

Mill

MINIMUM LOUVER SIZE

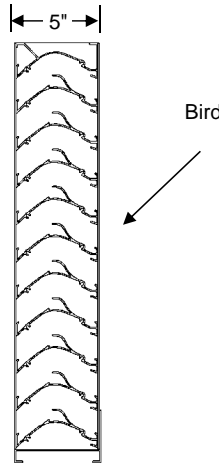
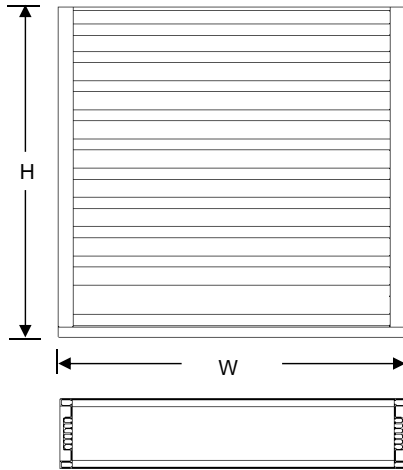
12"w x 12"h

MAXIMUM LOUVER SIZE

70 sq. ft. per section
Single section size not to exceed 120"w x 84"h
or 84"w x 120"h.
Louvers exceeding maximum single section
size will be built in multiple sections and require
field assembly.

BLADE BRACE SUPPORT ANGLES

Depending on louver size, windload or other
special requirements, louvers will have rear
mounted blade support angles that will increase
overall depth of the louver.



STANDARD FEATURES

- Special blade design and close spacing minimizes penetration of Wind-Driven Rain for excellent weather protection.
- Tested in accordance with AMCA 500-L Laboratory Methods of testing Wind-driven Rain Performance.
- Published performance ratings data based on testing in accordance with AMCA Publication 511
- 52% Free Area.
- Aluminum construction providing high resistance to corrosion.

OPTIONS AVAILABLE

Options available at additional cost include:

- Sill Extension/Head Flashing.
- Hinged Frame/ Channel Subframe.
- Security Bars.
- Filter Rack.
- Bird/Insect screens. (See Screen Submittal)
- Blank-off Panels. (Standard or insulated)

FINISHES

- Baked Enamel.
- Kynar.
- Prime coat.
- Clear and Color Anodized. (Some variation in Anodized color consistency is possible)

Contact Air Performance for any additional information or special requirements

Note: Louvers built 1/4" smaller than opening size given.

| QTY | OPENING SIZE (inches) | | OPTIONS | TAG |
|-----|-----------------------|------------|---------|-----|
| | WIDTH (W) | HEIGHT (H) | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| | | | | |

PROJECT: _____

CONTRACTOR: _____

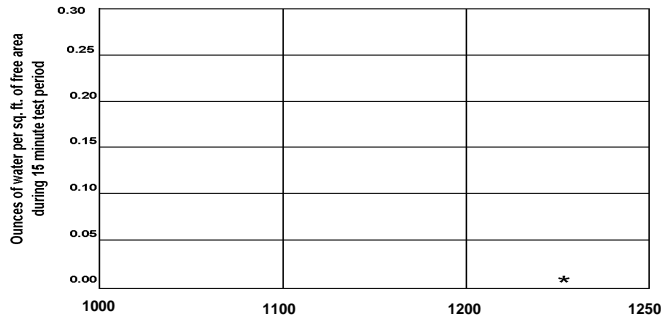
LOCATION: _____

REPRESENTATIVE: _____

DATE: _____

ARCHITECT/ENGR: _____

WATER PENETRATION
 *Beginning point of water penetration is above 1250 fpm
 (Based of 48" x 48" test size louver)



Air Performance certifies that louver shown herein is licensed to bear the AMCA Seal. 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, water penetration, and wind-driven rain ratings only.

WIND-DRIVEN RAIN PERFORMANCE

Test size is 39" X 39" Core Area

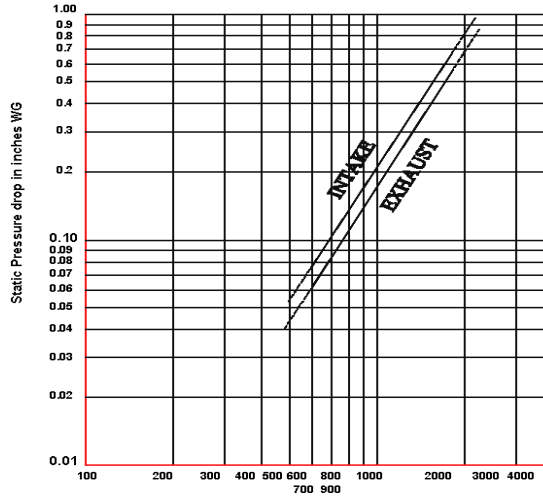
| Wind Velocity (mph) | Rain Fall Rate (in./hr.) | Core Velocity (fpm) | Airflow (cfm) | Free Area Velocity (fpm) | Effectiveness Ratio | Class | Discharge Loss Class |
|---------------------|--------------------------|---------------------|---------------|--------------------------|---------------------|-------|----------------------|
| 29 | 3 | 279 | 3009 | 476 | 99.1 | A | 2 |
| 29 | 3 | 369 | 3972 | 628 | 97.8 | B | 2 |

| Discharge Loss Coefficient Classifications | |
|--|----------------------------|
| Class | Discharge Loss Coefficient |
| 1 | 0.4 and Above |
| 2 | 0.3 to 0.399 |
| 3 | 0.2 to 0.299 |
| 4 | 0.199 and Below |

| Wind-driven Rain Penetration Classes | |
|--------------------------------------|---------------|
| Class | Effectiveness |
| A | 1 to 0.99 |
| B | 0.989 to 0.95 |
| C | 0.949 to 0.80 |
| D | Below 0.80 |

PRESSURE DROP

(Based on 48" x 48" test louver)



FREE AREA CHART

(Free Area Chart shows free area in ft²)

| | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 |
|-----|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12 | 0.29 | 0.47 | 0.65 | 0.82 | 1.00 | 1.18 | 1.36 | 1.54 | 1.71 | 1.89 | 2.07 | 2.25 | 2.43 | 2.61 | 2.78 | 2.96 | 3.14 | 3.32 | 3.50 |
| 18 | 0.53 | 0.85 | 1.18 | 1.50 | 1.83 | 2.15 | 2.48 | 2.80 | 3.13 | 3.45 | 3.78 | 4.10 | 4.43 | 4.75 | 5.08 | 5.40 | 5.73 | 6.05 | 6.38 |
| 24 | 0.79 | 1.28 | 1.77 | 2.25 | 2.74 | 3.23 | 3.72 | 4.20 | 4.69 | 5.18 | 5.67 | 6.15 | 6.64 | 7.13 | 7.62 | 8.10 | 8.59 | 9.08 | 9.57 |
| 30 | 1.06 | 1.71 | 2.36 | 3.01 | 3.66 | 4.31 | 4.96 | 5.61 | 6.26 | 6.91 | 7.56 | 8.21 | 8.86 | 9.51 | 10.16 | 10.81 | 11.46 | 12.11 | 12.76 |
| 36 | 1.30 | 2.10 | 2.90 | 3.70 | 4.50 | 5.30 | 6.10 | 6.90 | 7.70 | 8.50 | 9.30 | 10.10 | 10.90 | 11.70 | 12.50 | 13.30 | 14.10 | 14.90 | 15.70 |
| 42 | 1.54 | 2.49 | 3.43 | 4.38 | 5.33 | 6.27 | 7.22 | 8.17 | 9.11 | 10.06 | 11.01 | 11.95 | 12.90 | 13.85 | 14.79 | 15.74 | 16.69 | 17.64 | 18.58 |
| 48 | 1.78 | 2.87 | 3.96 | 5.06 | 6.15 | 7.25 | 8.34 | 9.43 | 10.53 | 11.62 | 12.72 | 13.81 | 14.90 | 16.00 | 17.09 | 18.18 | 19.28 | 20.37 | 21.47 |
| 54 | 2.02 | 3.27 | 4.52 | 5.76 | 7.01 | 8.25 | 9.50 | 10.75 | 11.99 | 13.24 | 14.48 | 15.73 | 16.97 | 18.22 | 19.47 | 20.71 | 21.96 | 23.20 | 24.45 |
| 60 | 2.29 | 3.70 | 5.11 | 6.51 | 7.92 | 9.33 | 10.74 | 12.15 | 13.56 | 14.96 | 16.37 | 17.78 | 19.19 | 20.60 | 22.01 | 23.41 | 24.82 | 26.23 | 27.64 |
| 66 | 2.55 | 4.12 | 5.69 | 7.26 | 8.82 | 10.39 | 11.96 | 13.53 | 15.10 | 16.67 | 18.24 | 19.81 | 21.37 | 22.94 | 24.51 | 26.08 | 27.65 | 29.22 | 30.79 |
| 72 | 2.79 | 4.51 | 6.23 | 7.94 | 9.66 | 11.38 | 13.10 | 14.82 | 16.53 | 18.25 | 19.97 | 21.69 | 23.40 | 25.12 | 26.84 | 28.56 | 30.28 | 31.99 | 33.71 |
| 78 | 3.03 | 4.89 | 6.76 | 8.62 | 10.49 | 12.35 | 14.22 | 16.08 | 17.95 | 19.81 | 21.68 | 23.54 | 25.41 | 27.27 | 29.13 | 31.00 | 32.86 | 34.73 | 36.59 |
| 84 | 3.27 | 5.27 | 7.28 | 9.29 | 11.30 | 13.31 | 15.32 | 17.33 | 19.34 | 21.35 | 23.36 | 25.37 | 27.38 | 29.39 | 31.40 | 33.41 | 35.42 | 37.43 | 39.44 |
| 90 | 3.52 | 5.69 | 7.85 | 10.02 | 12.19 | 14.35 | 16.52 | 18.69 | 20.85 | 23.02 | 25.19 | 27.35 | 29.52 | 31.69 | 33.85 | 36.02 | 38.19 | 40.35 | 42.52 |
| 96 | 3.78 | 6.11 | 8.44 | 10.77 | 13.10 | 15.43 | 17.76 | 20.09 | 22.42 | 24.75 | 27.08 | 29.41 | 31.73 | 34.06 | 36.39 | 38.72 | 41.05 | 43.38 | 45.71 |
| 102 | 4.04 | 6.52 | 9.01 | 11.49 | 13.97 | 16.46 | 18.94 | 21.43 | 23.91 | 26.40 | 28.88 | 31.37 | 33.85 | 36.33 | 38.82 | 41.30 | 43.79 | 46.27 | 48.76 |
| 108 | 4.28 | 6.91 | 9.54 | 12.17 | 14.80 | 17.43 | 20.06 | 22.69 | 25.33 | 27.96 | 30.59 | 33.22 | 35.85 | 38.48 | 41.11 | 43.75 | 46.38 | 49.01 | 51.64 |
| 114 | 4.51 | 7.29 | 10.07 | 12.85 | 15.63 | 18.41 | 21.18 | 23.96 | 26.74 | 29.52 | 32.30 | 35.07 | 37.85 | 40.63 | 43.41 | 46.19 | 48.97 | 51.74 | 54.52 |
| 120 | 4.75 | 7.68 | 10.60 | 13.53 | 16.45 | 19.38 | 22.30 | 25.23 | 28.15 | 31.08 | 34.00 | 36.93 | 39.85 | 42.78 | 45.70 | 48.63 | 51.55 | 54.48 | 57.40 |