EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVAL PENDING
WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • HORIZONTAL BLADE
MODEL: 1605WDM

QUALIFICATIONS:
• Miami-Dade County NOA No. : 18-1217.03
• Florida Product Approval Pending.
• Tested in accordance with: TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test), TAS-203 (Cyclic Wind Pressure Loading Test), TAS-100A (Wind-Driven Rain Test [with optional Model 2020 damper in closed position]).
• AMCA 500-L (Wind-Driven Rain, Water Penetration, Airflow).
• AMCA 540 (Wind-Borne Debris Impact Test [Enhanced “Level E” Protection]).
• AMCA 550 (High Velocity Wind-Driven Rain Resistance Test [with optional Model 2020 damper in closed position]).
• Wind load rating +/- 150 PSF.

STANDARD CONSTRUCTION:
FRAME: 5" (127) deep, Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.
BLADES: Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.
BLADE ANGLE: Fixed at 30 degrees.
BLADE SPACING: 1.86" (47) on centers.
BLADE SUPPORT: Concealed type, factory installed on rear of louver. Reinforced with 2" x 2" (51 x 51) angle (adds approximately 2" [51] to overall louver depth).
SCREEN: 5/8" x .050 (15.9 x 1.27) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
FINISH: Mill.
MINIMUM SIZE: 12" W x 12" H (305 x 305).
MAX. SINGLE SECTION SIZE: 72" W x 120" H (1829 x 3048). 60 sq. ft. (5.6 m²)
SECTION SIZE: (36" W x 120" H [914 x 3048] with optional Model 2020 damper). Larger louvers will require field assembly of smaller sections.
OVERALL MAXIMUM SIZE: Unlimited Width x 120" H (3048).

OPTIONS:
- BS3S Type 304 S.S. Bird Screen.
- BSN No Bird Screen.
- ISA Aluminum Insect Screen.
- ISSS Type 304 S.S. Insect Screen.
- FL Flanged Frame.
- USFL Universal Sleeve/Flanged Frame.
- ESI Extended Sill.
- PASI Sill Pan.
- Other: ____________________ .

OPTIONAL FINISHES:
- PC3 Powder Coat AAMA 2603. Color: __________.
- PC4 High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: __________.
- PC5 Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: __________.
- PCC Prime Coat.
- AN04 Clear Anodized 204-R1.
- AN15 Clear Anodized 215-R1.
- ANLB Light Bronze.
- ANMB Medium Bronze.
- ANDB Dark Bronze.
- ANBK Black.

OPT. FACTORY MOUNTED 2020 CONTROL DAMPER:
- Extruded Aluminum
- Opposed Airfoil Blades
- Concealed Linkage
- Silicone Blade Seal
- Cambered Stainless Steel Jamb Seals
- 1/2" (13) Plated Steel Axles

For Installation Instructions, see IOM-LOUVERINSTFPA.
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AIRFLOW/WATER PENETRATION DATA
for 48” x 48” (1219 x 1219) Louver Size

<table>
<thead>
<tr>
<th>Free Area %</th>
<th>47%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Area sq. ft. (sq. m.)</td>
<td>7.59 (0.71)</td>
</tr>
</tbody>
</table>

INTAKE:
Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)
1250 fpm (381 m/min.)*

Air Volume at 1250 fpm
Free Area Velocity 8,488 cfm (4477 l/s)
Pressure Drop @ 1000 fpm .22 in. w.g. (55 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is below the beginning point of water penetration.*Maximum Free Area Velocity tested is 1250 fpm.
Beginning point of water penetration for this model is above 1250 fpm.

WIND DRIVEN RAIN PERFORMANCE

<table>
<thead>
<tr>
<th>Core Ventilation</th>
<th>0</th>
<th>98</th>
<th>197</th>
<th>295</th>
<th>394</th>
<th>492</th>
<th>591</th>
<th>689</th>
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</thead>
<tbody>
<tr>
<td>Rate in fpm (m/s)</td>
<td>(0.0)</td>
<td>(0.5)</td>
<td>(1.0)</td>
<td>(1.5)</td>
<td>(2.0)</td>
<td>(2.5)</td>
<td>(3.0)</td>
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<table>
<thead>
<tr>
<th>Free Area Ventilation</th>
<th>0</th>
<th>206</th>
<th>419</th>
<th>628</th>
<th>838</th>
<th>1047</th>
<th>1257</th>
<th>1466</th>
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<td>(2.13)</td>
<td>(3.19)</td>
<td>(4.26)</td>
<td>(5.32)</td>
<td>(6.39)</td>
<td>(7.45)</td>
</tr>
</tbody>
</table>

| Effectiveness Ratio (%) | 100 | 100 | 100 | 100 | 100 | 99.6 | 99.5 | 99 |
| Penetration Class | A | A | A | A | A | A | A | A |

Test was based on a 39.375” x 39.375” (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 3” per hour (76 mm/hour) with a wind velocity of 29 mph (13 m/s).

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 3. (Discharge Loss Coefficient Classification is as follows:
1=0.4 and above, 2=0.3 to 0.399, 3 = 0.2 to 0.299, 4 = 0.199 and below.)

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<td>(7.45)</td>
</tr>
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</table>

| Effectiveness Ratio (%) | 100 | 99.6 | 99.3 | 99.2 | 98.6 | 98.1 | 97.7 | 96.4 |
| Penetration Class | A | A | A | A | A | A | A | A |

Test was based on a 39.375” x 39.375” (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 8” per hour (203 mm/hour) with a wind velocity of 50 mph (22 m/s).

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 3. (Discharge Loss Coefficient Classification is as follows:
1=0.4 and above, 2=0.3 to 0.399, 3 = 0.2 to 0.299, 4 = 0.199 and below.)

Safe-Air Dowco certifies the Model 1605WDM 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. Seal applies to air performance, water penetration and wind driven rain performance ratings.

EXHAUST INTAKE
Air Velocity in Feet (Meters) Per Minute
Through Free Area
Louver test size: 48” x 48” (1219 x 1219 mm).
Standard air density @ 0.075 lbs/ft³.
Tested to AMCA Fig. 5.5 – 6.5.

Free Area % 47%
Free Area sq. ft. (sq. m.) 7.59 (0.71)

Air Volume at 1250 fpm
Free Area Velocity 8,488 cfm (4477 l/s)
Pressure Drop @ 1000 fpm .22 in. w.g. (55 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is below the beginning point of water penetration.*Maximum Free Area Velocity tested is 1250 fpm.
Beginning point of water penetration for this model is above 1250 fpm.

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Page 2 of 3
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FREE AREA in Square Feet and Square Meters

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<thead>
<tr>
<th>Width in Inches and Meters</th>
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<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
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1605WDM April, 2019