Model 1604DD, dual drainable blade type louver, provides maximum weather protection in a 4" (102) deep frame, with good air performance and pleasing aesthetics that compliment any structure’s exterior styling. Standard construction features a drainable head that collects the water running down the building face and channels it out the concealed downspouts in the side frame, preventing it from flowing down into the airstream. Suitable for use in exhaust and low to medium velocity intake applications, the dual drainable blade design utilizes double rain gutters that divert collected water down concealed side downspouts and out the sill. Blades are reinforced with full length integral bosses for superior strength and the design provides good air performance through it’s 51% free area as well as maximum protection against the elements. Model 1604DD is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.

STANDARD CONSTRUCTION:
FRAME: 4" (102) deep, Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness. Integral downspouts and caulking slot provided.

BLADES: Type 6063-T5 extruded aluminum, .080" (2.03) nominal wall thickness, with reinforcing bosses.

BLADE ANGLE: Fixed at 37 degrees.

BLADE SPACING: Approx. 4" (102) on centers.

BLADE SUPPORT BRACKETS: Concealed type, factory installed on rear of louver on maximum 48" (1219) centers. Reinforced with 1" x 1" (25 x 25) angle (adds approx. 1" [25] to overall louver depth).

MULLIONS: Concealed type allowing continuous line appearance up to 120" (3048) wide. Larger assemblies require separate visible frames with downspouts.

SCREEN: 3/4" .051 (19 x 1.3) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approximately 3/8" [10] to louver depth).

FINISH: Mill.

MINIMUM SIZE: 12" W x 12" H (305 x 305).

MAX. SINGLE SECTION SIZE: 120" W x 84" H (3048 x 2134) or 84" W x 120" H (2134 x 3048). 70 sq. ft. (6.5m²). Larger louvers will require field assembly of smaller sections.

OPTIONS:
- FL Flanged Frame.
- BSSS Type 304 S.S. Bird Screen.
- BSN No Bird Screen.
- ISA Aluminum Insect Screen.
- ISSS Type 304 S.S. Insect Screen.
- WE Welded Construction.

OPTIONAL FINISHES:
- PC5 Fluoropolymer Powder Coat AAMA 2605 (Equiv. to 70% Kynar®). Color: ______________ .
- PC Prime Coat.
- AN04 Clear Anodized 204-R1.
- AN15 Clear Anodized 215-R1.

Color Anodized:
- ANLB Light Bronze.
- ANMB Medium Bronze.
- ANDB Dark Bronze.
- ANBK Black.

OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):
- U00 Exact Size.
- U38 Undersize 3/8" (9.5).
- U50 Undersize 1/2" (12.7).

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

Nailor Industries Inc. 4600 Industrial Blvd. Madisonville, OH 45042, USA

1604DD February, 2011.
### FREE AREA in Square Feet and Square Meters

<table>
<thead>
<tr>
<th>Width in Inches and Meters</th>
<th>12</th>
<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
<th>66</th>
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<th>96</th>
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<th>108</th>
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<td>0.30</td>
<td>0.46</td>
<td>0.61</td>
<td>0.76</td>
<td>0.91</td>
<td>1.07</td>
<td>1.22</td>
<td>1.37</td>
<td>1.52</td>
<td>1.68</td>
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<tr>
<td>12</td>
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**MODEL:** 1604DD

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**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

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Page 2 of 3

Dimensions are in inches (mm).
**EXTRUDED ALUMINUM STATIONARY LOUVER**  
4" (102) DEEP • DUAL DRAINABLE BLADE  
PERFORMANCE DATA  
MODEL: 1604DD

### AIRFLOW/WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

<table>
<thead>
<tr>
<th>Free Area %</th>
<th>51%</th>
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<tbody>
<tr>
<td>Free Area sq. ft. (sq. m.)</td>
<td>8.14 (0.76)</td>
</tr>
<tr>
<td>Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)</td>
<td>1000 fpm (305 m/min.)</td>
</tr>
<tr>
<td>Air Volume at 1000 fpm</td>
<td>8140 cfm (3841 l/s)</td>
</tr>
<tr>
<td>Pressure Drop @ 1000 fpm</td>
<td>.16 in. w.g. (40 Pa)</td>
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</table>

**NOTE:** To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is below the point of beginning water penetration.

**PRESSURE DROP**

<table>
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<th>Static Pressure Drop in Inches w.g. (Pa)</th>
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<td>.70 (174.0)</td>
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<tr>
<td>.60 (149.2)</td>
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<td>.50 (124.3)</td>
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<td>.40 (99.4)</td>
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<td>.30 (74.6)</td>
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<tr>
<td>.20 (49.7)</td>
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<tr>
<td>.10 (24.9)</td>
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<tr>
<td>.05 (12.4)</td>
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<tr>
<td>.03 (7.5)</td>
</tr>
<tr>
<td>.02 (5.0)</td>
</tr>
<tr>
<td>.01 (2.5)</td>
</tr>
</tbody>
</table>

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.