STANDARD CONSTRUCTION
FRAME
Box frame, 5' (127) deep, 6063T6 extruded aluminum with .081" (2.1) nominal wall thickness. Downspouts and caulkig provided. Universal Installation Frame: Same material and gages as above with flange.
BLADES
6063T6 extruded aluminum .063" (1.6) nominal wall thickness. Double drainable blades are sightproof.
SCREEN
5/8" x .040" (16 x 1) expanded flattened aluminum bird screen in removable frame.
FINISH
Mill.
MINIMUM SIZE
12'w x 12'h (305 x 305).
APPROXIMATE SHIPPING WEIGHT
10 lbs. per sq. ft. (49 kg/m²).
MAXIMUM FACTORY ASSEMBLY SIZE
Single section: 8715'/6'w x 144'h (2234 x 3658) actual size.
Field Assembly: Unlimited width x 144'h (3658). Multiple section louvers will be shipped in single sections and must be joined together in the field by the installer. Section joint splice hardware is provided. Sections may not be stacked in height. Openings taller than the maximum louver height will need to be divided into multiple openings with suitable structural members. Structural members are not designed or provided by Reliable.
INSTALLATION
The SDDWRDC must be installed per the appropriate Installation Detail. Reference the appropriate separate Installation Instruction Sheet.
Consult Reliable for additional information.

FEATURES
• Box Frame construction for use in cast-in-place concrete, grout filled CMU, wood and steel installations.
• Maximum windload ±120 PSF (5.75 kPa).
• Closely spaced horizontal blades minimize the penetration of wind-driven rain, reducing damage and additional operating expenses.
• Universal Flange Frame allows installation in walls up to 10" (254) deep and in any wall material. Also available for walls up to 15" (381) deep with UFF15 frame.
• 47% Free Area.
• Published performance ratings based on testing in accordance with AMCA Publication 511.
• Excellent pressure drop performance.
• Aluminum construction for low maintenance and high resistance to corrosion.

VARIATIONS
• Universal Flange Frame construction when fasteners penetrating the wall are not utilized.
• Universal Flange Frame allows installation in walls up to 10" (254) deep and in any wall material. Also available for walls up to 15" (381) deep with UFF15 frame.
• Extended sill.
• Front or rear security bars.
• Filter racks.
• A variety of bird and insect screens.
• Selection of finishes: prime coat, 50% PVDF (modified fluoropolymer), epoxy, Pearledize 50 & 70, 70% PVDF, clear and color anodize. (Some variation in anodize color consistency is possible).
Consult Reliable for other special requirements.

SDDWRDC meets the requirements for the following:
• Miami Dade NOA Approval 16-0217.04

Dimensions in inches, parenthesis ( ) indicate millimeters.

<table>
<thead>
<tr>
<th>TAG</th>
<th>QTY.</th>
<th>SIZE</th>
<th>FRAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>A'-WDE</td>
<td>B'-HIGH</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

VARIATIONS

PROJECT
ARCH/ENGR.
REPRESENTATIVE
LOCATION
CONTRACTOR
DATE

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

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SUGGESTED SPECIFICATION

Furnish and install louvers as hereinafter specified where shown on plans or as described in schedules. Louvers shall possess station-
ary horizontal blades designed to prevent the penetration of wind
driven rain. Louver blades shall be contained within a 4" (102)
frame. Extended sill shall be provided to capture and drain water to
exterior of building. Louver components (heads, jambs, sill and
blades) shall be factory assembled by the louver manufacturer.
Louver sizes too large for shipping shall be built up by the contrac-
tor from factory assembled louver sections to provide overall sizes
required. Louver design shall limit single span between visible mul-
tions to 10' (3048).

Louvers shall be Reliable Model 5DDWRDC extruded 6063T6 alu-
minum alloy construction as follows:

MATERIAL
Frame: .081" (2.1) wall thickness, caulking surfaces provided.
Blades: .081" (2.1) wall thickness.
Extended Sill: .081" (2.1) wall thickness, with upturned side
panels to prevent water leakage.
Screen: 5/8" x .040" (.16 x 1) expanded, flattened alu-
minute bird screen in removable frame.
Finish: Select finish specification from Reliable Finishes
Brochure.

STRUCTURAL DESIGN
Integral structural supports shall be designed and furnished by the
louver manufacturer to carry a wind load of not less than ±120 psf
(6.7 kPa).

WATER PENETRATION GRAPH

Test size 48" x 48" (1219 x 1219)
Beginning point of water penetration at .01 oz./sq. ft. is above 1250 fpm (381 m/min.)

[Graph showing water penetration rates]

WIND-DRIVEN RAIN PERFORMANCE

Test size is 1m x 1m (39" x 39") core area, 1.04m x 1.12m (41" x 44") nominal. Free Area of test louver is 5.45 ft² (.51m²).

<table>
<thead>
<tr>
<th>Wind Velocity mph (kph)</th>
<th>Rain Fall Rate in./hr. (mm/hr.)</th>
<th>Core Velocity, fpm (m/s)</th>
<th>Airflow cfm</th>
<th>Free Area Velocity, fpm (m/sec.)</th>
<th>Effectiveness Ratio</th>
<th>Class 3, 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 (46.4)</td>
<td>3 (75)</td>
<td>672 (3.5)</td>
<td>7236 (204)</td>
<td>1327 (6.6)</td>
<td>99.7%</td>
<td>A</td>
</tr>
<tr>
<td>50 (80.0)</td>
<td>8 (203)</td>
<td>408 (1.9)</td>
<td>4239 (120)</td>
<td>778 (4.0)</td>
<td>99.0%</td>
<td>A</td>
</tr>
</tbody>
</table>

NOTES
1. Core area is the open area of the louver face (face area less
louver frames). Core Velocity is the airflow velocity through the
Core Area of the louver (1m x 1m).
2. Free Area of test size is calculated per AMCA standard 500-L.
3. Wind Driven Rain Penetration Classes:
   Class | Effectiveness
   A     | 1 to .99
   B     | 0.999 to 0.96
   C     | Below 0.8
### FREE AREA GUIDE

**Free Area Guide shows free area in ft² and m² for various sizes of 5DDWDC.**

**Width – Inches and Meters**

<table>
<thead>
<tr>
<th>Width (Inches)</th>
<th>Width (Meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>0.3071</td>
</tr>
<tr>
<td>16</td>
<td>0.4064</td>
</tr>
<tr>
<td>20</td>
<td>0.5057</td>
</tr>
<tr>
<td>24</td>
<td>0.6049</td>
</tr>
<tr>
<td>30</td>
<td>0.7619</td>
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<td>40</td>
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<tr>
<td>48</td>
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<td>72</td>
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</tr>
<tr>
<td>84</td>
<td>2.1336</td>
</tr>
<tr>
<td>96</td>
<td>2.4384</td>
</tr>
</tbody>
</table>

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### PRESSURE DROP

**Test size 48"wide x 48" high (1219 x 1219).**

| Pressure Drop in Inches w.g. (Pa) | 0.00 (248) | 0.05 (254) | 0.10 (260) | 0.15 (266) | 0.20 (272) | 0.25 (278) | 0.30 (284) | 0.35 (290) | 0.40 (296) | 0.45 (302) | 0.50 (308) | 0.55 (314) | 0.60 (320) | 0.65 (326) | 0.70 (332) | 0.75 (338) | 0.80 (344) | 0.85 (350) | 0.90 (356) | 0.95 (362) | 1.00 (368) |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| **Air Velocity in feet and (meters) per minute through Free Area** |
| (Data corrected to standard air density and AMCA figure tested to 5.5) |

**Pressure Drop Ratings do not include the effect of a bird screen.**
FRAME CONSTRUCTION

HEAD & SILL DETAIL: UNIVERSAL FLANGE FRAME
N.T.S.

JAMB DETAIL: UNIVERSAL FLANGE FRAME
N.T.S.

FRAME CONSTRUCTION ELEVATION

MAXIMUM SINGLE SECTION WIDTH = 71⅛" (1827)

MAXIMUM HEIGHT = 120" (3048)

MAXIMUM WIDTH = UNLIMITED

GENERAL NOTES:

1. Reference separate Installation Instruction Sheet for the proper installation method. Miami-Dade and Florida product approvals are contingent upon proper installation. It is the installing contractor's responsibility to ensure that the louvers are installed properly.

2. Some orders may require special submittal and/or shop drawings provided by Reliable. Reference these drawings for additional installation information.

3. Continuous angles and fasteners are supplied and are shipped loose.

4. Louvers are provided with steel channel supports to be installed behind the visible mullions.

5. Louvers wider than the maximum single section width will be shipped in multiple sections and will require field assembly.