WEIR PLATES, BAFFLES & TROUGHS

Notched Weirs

Notched Weirs, Scum Baffles and Density Current Baffles

Troughs & adjustable Notched Weirs

Density Current Baffles

www.protectolite.com
WEIR PLATES, BAFFLES & TROUGHS

Overview
Protectolite™ Inc., manufactures weir plates and scum baffles, specialty baffles plus related accessories molded from fiberglass reinforced polyester (FRP) composites. The inherent properties of FRP weirs, troughs and baffles make them ideal for use in water and wastewater applications.

Benefits and Features
Protectolite™ weir plates, baffles & troughs:
• Excellent corrosion resistance
• High strength
• Light weight
• Easy to install
• Long service life
• Low maintenance

Sizes
Protectolite™ weir plates and baffles are offered in standard 8’ long lengths (2.44m) and up to 4’ (0.6m) wide. Standard thickness is ¼” (6.3mm). Thicknesses up to 1” (25mm) are possible. Notched and un-notched weirs are available in a number of standard configurations and can be supplied with accessories such as mounting washers, brackets and hardware.

Materials of Construction
Protectolite™ weir plates, baffles and troughs are a composite of fiberglass reinforcements (glass and mat) and a thermoset resin system. All components are produced using a matched metal die process.

The standard resin system is a cement grey polyester resin. Pultrusion components incorporate a corrosion resistant polyester surfacing veil on the outer surfaces and the cut edges are sealed at the factory. All products are available in fire retardant and various resin grades and color combinations upon request.
SPECIFICATIONS

ANSI / NSF-61 (available)
ANSI / AWWA F102-02 Type II
Standard color cement grey, other colors available upon request

Baffle Plates—Un-notched (straight edge)

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Thickness</th>
<th>Mounting Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 48” (122mm)</td>
<td>8 feet (2.44m) standard. Longer lengths available by special order</td>
<td>¼” (6.3mm) Up to 1” (25mm)</td>
<td>None 2” (51mm) Dia.  2 ½” (63mm) Dia. Other sizes available</td>
</tr>
</tbody>
</table>

Weir Plates—90° V-notched

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
<th>Thickness</th>
<th>Mounting Hole</th>
<th>Depth</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 48” (122mm)</td>
<td>8 feet (2.44m) standard. Longer lengths available by special order</td>
<td>¼” (6.3mm) Up to 1” (25mm)</td>
<td>None 2” (51mm) Dia.  2 ½” (63mm) Dia. Other sizes available</td>
<td>2” (51mm) 2 ½” (63mm) 3” (76mm) Other depths available</td>
<td>Spacing per customer’s specifications</td>
</tr>
</tbody>
</table>

ACCESSORIES

A variety of accessories are available to satisfy all weir plate, baffle and trough project requirements:
- Connector splice plates
- Square washers
- Scum baffle brackets
- Hardware and gaskets
- Custom brackets

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (pultrusion LW)</td>
<td>30,000 psi (206 MPa)</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Flexural Strength (pultrusion LW)</td>
<td>30,000 psi (206 MPa)</td>
<td>ASTM D 790</td>
</tr>
<tr>
<td>Tensile Strength (high heat/pressure molded)</td>
<td>15,000 psi (103 MPa)</td>
<td>ASTM D 638</td>
</tr>
<tr>
<td>Flexural Strength (molded)</td>
<td>20,000 psi (138 Mpa)</td>
<td>ASTM D 790</td>
</tr>
<tr>
<td>Coefficient of Thermal Expansion Molded Pultrusion</td>
<td>1.6 x 10⁻⁶ in/in/°F (2.9 cm/cm/°C)</td>
<td>ASTM D 696</td>
</tr>
<tr>
<td></td>
<td>4.4 x 10⁻⁶ (8.0 cm/cm/°C)</td>
<td></td>
</tr>
<tr>
<td>Water Absorption</td>
<td>&lt; 0.4%</td>
<td>ASTM D 570</td>
</tr>
</tbody>
</table>
Other FRP products available from Protectolite™ Composites Inc.

Density Current Baffles

Pro’Deck Flat Cover

Weirs, Scum Baffles & Density Current Baffles

Launder Covers

Contact:
Karl Szasz
President
Email: kszasz@protectolite.com

Corporate Head Office:
84 Railside Road
Toronto, ON. M3A 1A3
Canada
Telephone: 416-444-4484
Fax: 416-444-4485
Email: kszasz@protectolite.com
Web: www.protectolite.com

PRO’DECK
Flat covers composed of interlocking planks for easy installation and long life.

LAUNDER COVERS
Reduce algae growth with modular FRP launder covers for easy installation and long life.

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