

WEIR PLATES, BAFFLES & TROUGHS



Notched Weirs



Notched Weirs, Scum Baffles and Density Current Baffles



Troughs & adjustable Notched Weirs



Density Current Baffles

WEIR PLATES, BAFFLES & TROUGHS



Notched weirs

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 1/4" (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.



Density Current Baffles



Troughs & Notched Weirs

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)

Width	Length	Thickness	Mounting Hole
Up to 48" (122mm)	8 feet (2.44m) standard. Longer lengths available by special order	¼" (6.3mm) Up to 1" (25mm)	None 2" (51mm) Dia. 2 ½" (63mm) Dia. Other sizes available

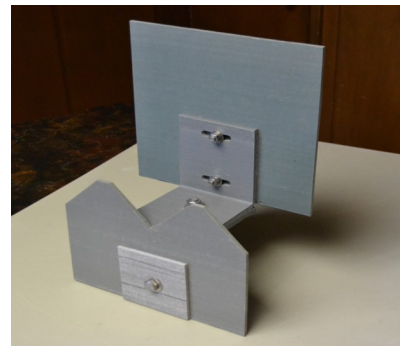
Weir Plates—90° V-notched

Width	Length	Thickness	Mounting Hole	Depth	Spacing
Up to 48" (122mm)	8 feet (2.44m) standard. Longer lengths available by special order	¼" (6.3mm) Up to 1" (25mm)	None 2" (51mm) Dia. 2 ½" (63mm) Dia. Other sizes available	2" (51mm) 2 ½" (63mm) 3" (76mm) Other depths available	Spacing per customer's specifications

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



Weir Plate & Scum Baffle assembly

PHYSICAL PROPERTIES

Property	Value	Test Method
Tensile Strength (pultrusion LW)	30,000 psi (206 MPa)	ASTM D 638
Flexural Strength (pultrusion LW)	30,000 psi (206 MPa)	ASTM D 790
Tensile Strength (high heat/pressure molded)	15,000 psi (103 MPa)	ASTM D 638
Flexural Strength (molded)	20,000 psi (138 Mpa)	ASTM D 790
Coefficient of Thermal Expansion Molded Pultrusion	1.6 x 10 ⁻⁶ in/in/°F (2.9 cm/cm/°C) 4.4 x 10 ⁻⁶ (8.0 cm/cm/°C)	ASTM D 696
Water Absorption	< 0.4%	ASTM D 570

Other FRP products available from Protectolite™ Composites Inc.



Density Current Baffles



Pro'Deck Flat Cover



Weirs, Scum Baffles & Density Current Baffles



Launder Covers

WEIR PLATES. BAFFLES & TROUGHS



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of interlocking planks
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