

# FIBERGLASS BAFFLE PANELS



- **Corrosion Resistant**
- **High Strength**
- **Lightweight**
- **Low in Maintenance**
- **UV Resistant**
- **Low Conductivity**
- **Dimensionally Stable**

Strongwell's lightweight, high strength fiberglass baffle panels are ideal for underwater flow control applications.

Fiberglass baffle panels are cost effective because they have a much longer life cycle than wood, concrete, steel and other traditional materials that are subject to rot and corrosion. The lightweight panels are easy to install and can be easily removed for cleaning and access.

Baffle panels are available in 12" and 24" widths for easy fabrication and installation of new systems or the rehabilitation of existing systems. Baffles can be mounted to existing columns, attached to H-beams or attached to concrete walls with clip angles.

Typical applications include:

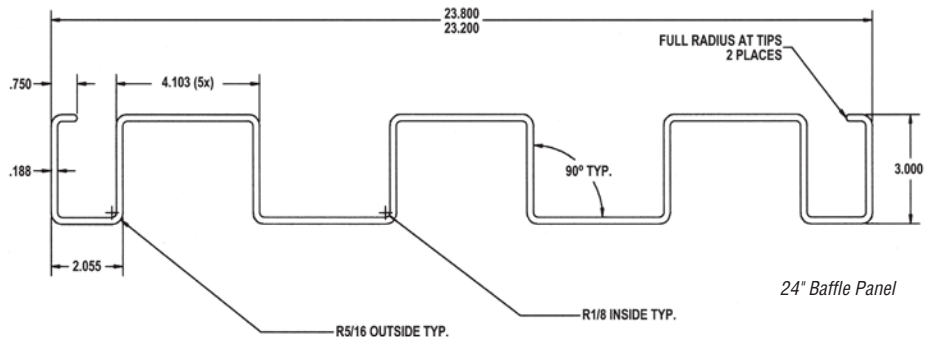
- Municipal & Industrial Water and Wastewater Systems
- Aeration Chambers
- Contact Chambers
- Retention Basins



## Materials of Construction

Baffle panels are available in 12" and 24" widths to offer flexibility in design and fabrication. Standard baffle panels are manufactured using a polyester resin. Optional resin systems offered include a fire retardant polyester resin system, a vinyl

ester resin system for enhanced corrosion resistance, and a resin system that meets NSF 61 requirements. Panels include a UV inhibitor and a surfacing veil for additional corrosion resistance and UV protection.



## BAFFLE DEFLECTION

SPAN FT (M)	HEAD 12" (300 mm)	HEAD 6" (150 mm)	HEAD 3" (75 mm)	L/100	L/150
3.28 (1)	0.006" (0.152 mm)	0.003" (0.076 mm)	0.0015" (0.038 mm)	0.393" (10 mm)	0.262" (6.67 mm)
6.65 (2)	0.101" (2.56 mm)	0.050" (1.28 mm)	0.025" (.640 mm)	0.79" (20 mm)	0.52" (13.33 mm)
9.84 (3)	0.484" (12.29 mm)	0.242" (6.15 mm)	0.121" (3.07 mm)	1.18" (30 mm)	0.79" (20 mm)
13.13 (4)	1.529" (38.84 mm)	0.764" (19.42 mm)	0.382" (9.71 mm)	1.57" (40 mm)	1.05" (26.67 mm)
16.41 (5)	3.733" (94.82 mm)	1.87" (47.42 mm)	0.933" (23.71 mm)	1.97" (50 mm)	1.31" (33.33 mm)

NOTES: 1. Deflection based on simple spans.  
2. Divide deflection by 5.0 for fixed end deflections.  
3. Uniform load based on 62.4 lb/ft<sup>2</sup>.

### Typical Coupon Properties

Tensile Strength	42,000 psi	ASTM D638
Flexural Strength	32,000 psi	ASTM D790
Flexural Modulus	1.5 x 10 <sup>6</sup> psi	ASTM D790
Water Absorption	.25%	ASTM D570
IZOD Impact (Notched)	25 ft. lbs./in.	ASTM D256
Compressive Strength	50,000 psi	ASTM D695

### 24" Baffle Design Properties

$I_{x-x} = 11.388 \text{ in}^4$	
Modulus of Elasticity	2.5 x 10 <sup>6</sup> psi



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