STRUCTURAL PRODUCTS
from Fiberman

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APPLICATIONS
- Stair Structures
- Walkways
- Pedestrian Bridges
- Structural Framing
- Handrail Systems
- Caged and Fixed Ladders
- Decking
- Boat Docks
- Pipe Supports
- Cross Bracing
- Concrete Embedment
- Tank and Hatch Covers
- Display Racks

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- Agriculture
- Cooling Towers
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- Utilities
- Wastewater/Water Treatment

THE SMART ALTERNATIVE TO WOOD, STEEL AND ALUMINUM

Fiberglass reinforced polymer (FRP) is one of the strongest, most durable building materials available today. It's nonconductive, dimensionally stable and extremely low maintenance. It offers the strength of steel at a fraction of the weight for efficient transportation and installation. And unlike traditional materials like wood, steel and aluminum, FRP won't rust, corrode, warp, rot, decay or attract insect damage — so it's ideal for harsh environments.

In short, it's a different way to solve your design challenges — one that can reduce costs and improve long-term performance. To maximize these benefits, however, it's best to design with the properties of FRP in mind from the start. Our engineers and fabricators can help, so contact us with your questions.

Features and Benefits

- **Corrosion resistant.** Won't rot, rust or corrode.
- **Strong yet lightweight.** Helps save on transportation.
- **Virtually maintenance-free.** Durable and weather-resistant for a longer life cycle.
- **Fire-retardant and nonconductive.** Helps create a safer environment.
- **Dimensionally stable.** Won't shrink, swell, warp or bow.
- **Highly consistent.** Strength, appearance and quality are the same from piece to piece.
- **Easy to fabricate and install.** FRP can be cut, drilled and assembled with standard tools.
- **Non-leaching.** Does not require environmentally hazardous preservatives.
- **Fast turnaround.** Most in-stock orders are shipped within the next business day.
- **Backed by a 25-Year Limited Warranty***
- **Made in U.S.A.**

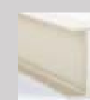
Standard Resin Systems

PROForms® and PROPlate® products are offered in three resin series to meet the requirements of different applications and environments.

STD — STANDARD NON FIRE RETARDANT POLYESTER
A general-purpose isophthalic polyester resin system with a UV inhibitor, offering good corrosion resistance. Color: Olive Green

FR — FIRE RETARDANT POLYESTER
A general-purpose fire-retardant isophthalic resin system with a UV inhibitor, offering good corrosion resistance. Colors: Dark Gray and Yellow

VE — VINYLESTER FIRE RETARDANT
A premium vinylester resin system with a UV inhibitor. It's fire retardant and highly corrosion resistant. Colors: Beige and Yellow



STRUCTURAL PRODUCT LINES

PROForms® Structural Components

Our standard structural inventory includes angles, beams, deck board, building panels, columns, tubes, rods and more. See page 12 for a complete listing.

PROPlate® Flat Sheet

Typically used for gusset plates, splice plates and base plates, as well as round and square washers, our flat sheet offers the same durability as our other FRP products.

Custom Profiles

Need a special profile? We can manufacture custom pultrusions to your specifications. Contact us for a complete FRP solution including structural shapes, decking, handrail, ladders and cages and fabricated structures such as stairways and platforms.

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FRP vs. Traditional Materials

Traditional building materials have their place. But for harsh, corrosive environments, FRP is a smart choice. Here's how FRP compares to several traditional options.

	FRP Composites *Pultruded GFRP*	**Steel** *A 709 Grade 50*	**Aluminum** *6061-T651 & 6061-T6*	**Wood** *Douglas Fir*
CORROSION, ROT AND INSECT RESISTANCE	**Resists a broad range of chemicals and is unaffected by moisture** or immersion in water. **Resists insect damage.** Painting is only suggested when exposed to UV rays/direct sunlight.	Subject to oxidation and corrosion. Requires painting or galvanizing for many applications.	Can cause galvanic corrosion. (Anodizing and other coatings increase corrosion resistance.)	Can warp, rot and decay when exposed to moisture, water and chemicals. Susceptible to attack by insects such as termites and marine borers.
STRENGTH	**Has greater flexural strength** than timber and pound-for-pound is **often stronger than steel and aluminum** in the lengthwise direction. Ultimate flexural strength (F_u): LW = 30,000 psi (30 ksi) CW = 10,000 psi (10 ksi) Compression strength: LW = 30,000 psi (30 ksi) CW = 15,000 psi (10 ksi)	Homogeneous material. Yield strength (F_y) = 36 ksi	Homogeneous material. Flexural strength (F_u) = 35 ksi	Modulus of rupture is 12,000 psi
WEIGHT	Weighs 75% less than steel and 30% less than aluminum.	Could require lifting equipment to move and place. 1/2-in. thick plate = 20.4 lbs/sq ft	Lightweight — about a third of the weight of copper or steel.	Specific gravity 0.48
ELECTRICAL CONDUCTIVITY	**Nonconductive.** High dielectric capability.	Conducts electricity. Grounding potential.	Conducts electricity. Grounding potential.	Can be conductive when wet.
THERMAL PROPERTIES	**Good insulator with low thermal conductivity.** Thermal conductivity = 4 (BTU in. /(hr ft^2 °F) Low thermal coefficient of expansion. = 7 - 8 (in./in./°F) 10^{-6}	Conducts heat. Thermal conductivity = 260-460 (BTU/sf/hr/°F/in.) Thermal coefficient of expansion. = 6 - 8 (in./in./°F) 10^{-6}	Conducts heat. Thermal conductivity = 150 (BTU/sf/hr/°F/in.) Thermal coefficient of expansion. = 13 (in./in./°F) 10^{-6}	Low thermal conductivity. Thermal conductivity = .8 (BTU/sf/hr/°F/in.) Thermal coefficient of expansion. = 1.7 - 2.5 (in./in./°F) 10^{-6}

	FRP Composites *Pultruded GFRP*	**Steel** *A 709 Grade 50*	**Aluminum** *6061-T651 & 6061-T6*	**Wood** *Douglas Fir*
STIFFNESS	**Up to 3.3 times as rigid as timber. Will not permanently deform under working load.** Modulus of elasticity: 2.8 x 10^6 psi	Modulus of elasticity: 29 x 10^6 psi	Modulus of elasticity: 10 x 10^6 psi	Modulus of elasticity: up to 1.6-1.8 x 10^6 psi*
IMPACT RESISTANCE	**Will not permanently deform under impact.** Glass mat in pultruded parts distributes impact load to prevent surface damage, even in subzero temperatures.	Can permanently deform under impact.	Easily deforms under impact.	Can permanently deform or break under impact.
ENVIRONMENTAL IMPACT	**Not hazardous to the environment.**	Not hazardous.	Not hazardous.	May be treated with hazardous preservatives or coatings to increase corrosion/rot/insect resistance. Contributes to depletion of forest systems.
COLOR	**Color is molded through; no painting required.** Variety of colors available.	Must be painted for color, and may require repainting over time.	Colors require prefinishes, anodic coatings and paints. Mechanical, chemical and electroplated finishes can be applied.	Must be primed and painted for color, and may require repainting over time.
COST	**Lower installation costs, less maintenance and longer product life allow for a lower lifecycle cost.**	Lower initial material cost.	Part price comparable to FRP.	Has a lower initial cost, but usually requires more maintenance and replacement.
EMI/RFI TRANSPARENCY	**Transparent to radio waves and EMI/RFI transmissions.** Used for radar and antennae enclosures and supports.	Can interfere with EMI/RFI transmissions.	Highly reflective to EMI/RFI transmissions.	Transparent.
FABRICATION	**Can be field-fabricated using simple carpenter's tools** with carbon or diamond tip blades — no torches or welding required. Light weight allows easier transport and installation.	Often requires welding and cutting torches. Heavier material requires special equipment to erect and install.	Good machinability (welding, brazing, soldering or mechanical joining).	Can be field-fabricated using simple carpenter's tools.

*12% moisture content

Compare the Numbers ...

Property	**FRP Composites** *Pultruded GFRP*		**Steel** *A 709 Grade 50*	**Aluminum** *6061-T651 & 6061-T6*	**Wood** *Douglas Fir*
Density (lb/ft^3)	107-120		490	169	30
Tensile Strength (psi)	30,000 (LW)	7,000 (CW)	65,000	45,000	–
Tensile Modulus (x 10^6 psi)	2.8 (LW)	1 (CW)	30	10	–
Flexural Strength (psi)	30,000 (LW)	10,000 (CW)	65,000	45,000	12,000
Flexural Modulus (x 10^6 psi)	1.8 (LW)	0.8 (CW)	30	10	1.6 - 1.8
Thermal Conductivity (BTU in. /(hr ft^2 °F))	4		323	1,160	0.8
Thermal Expansion (x 10^{-6} in./in./°F)	7 to 8		6 to 8	13	1.7 to 2.5

LW = Lengthwise / CW = Crosswise

References:
1. Datasheets from www.matweb.com
2. Wood Handbook: Wood as an Engineering Material

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Typical Coupon Properties

The following table shows test results for typical coupon properties of PROForms® and PROPlate® structural fiberglass profiles (Standard, Fire Retardant and Vinylester shapes). Properties are derived per the ASTM test method shown. Synthetic surfacing veil and ultraviolet inhibitors are standard.

	ASTM TEST METHOD	UNITS	POLY-ESTER SHAPES	VINYL-ESTER SHAPES	ROD & BAR	POLYESTER PLATE 1/8"	POLYESTER PLATE 3/16"-1/4"	POLYESTER PLATE 3/8"-1"	VINYLESTER PLATE 1/8"	VINYLESTER PLATE 3/16"-1/4"	VINYLESTER PLATE 3/8"-1"
MECHANICAL PROPERTIES (minimum ultimate)											
Tensile Stress, LW	D-638	psi	30,000	30,000	100,000	20,000	20,000	20,000	20,000	20,000	20,000
		N/mm²	206.8	206.8	689	137.9	137.9	137.9	137.9	137.9	137.9
Tensile Stress, CW	D-638	psi	7,000	7,000		7,500	10,000	10,000	7,500	10,000	10,000
		N/mm²	48.2	48.2		51.7	68.9	68.9	51.7	68.9	68.9
Tensile Modulus, LW	D-638	10^6 psi	2.5	2.6	6.0	1.8	1.8	1.8	1.8	1.8	1.8
		KN/mm²	17.2	17.9	41.3	12.4	12.4	12.4	12.4	12.4	12.4
Tensile Modulus, CW	D-638	10^6 psi	0.8	0.8		0.7	0.9	1.4	1.0	1.0	1.4
		KN/mm²	5.5	5.5		4.8	6.2	9.6	6.9	6.9	9.6
Compressive Stress, LW	D-695	psi	30,000	30,000	60,000	24,000	24,000	24,000	24,000	24,000	24,000
		N/mm²	206.8	206.8	413.6	165.4	165.4	165.4	165.4	165.4	165.4
Compressive Stress, CW	D-695	psi	15,000	16,000		15,500	16,500	20,000	16,500	17,500	20,000
		N/mm²	103.4	110.3		106.8	113.7	137.9	113.79	120.6	137.9
Compressive Modulus, LW	D-695	10^6 psi	2.5	2.6		1.8	1.8	1.8	1.8	1.8	1.8
		KN/mm²	17.2	17.9		12.4	12.4	12.4	12.4	12.4	12.4
Compressive Modulus, CW	D-695	10^6 psi	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0
		KN/mm²	6.9	6.9		6.9	6.9	6.9	6.9	6.9	6.9
Flexural Stress, LW	D-790	psi	30,000	30,000	100,000	35,000	35,000	30,000	35,000	35,000	30,000
		N/mm²	206.8	206.8	689	241.3	241.3	206.8	241.3	241.3	206.8
Flexural Stress, CW	D-790	psi	10,000	10,000		13,000	15,000	18,000	13,000	15,000	18,000
		N/mm²	68.9	68.9		89.6	103.4	124.1	89.6	103.4	124.1
Flexural Modulus, LW	D-790	10^6 psi	1.8	2.2	6.0	1.8	2.0	2.0	1.8	2.0	2.0
		KN/mm²	11.0	11.0	41.9	12.4	13.8	13.8	12.4	13.8	13.8
Flexural Modulus, CW	D-790	10^6 psi	0.8	0.8		0.9	1.1	1.4	1.0	1.1	1.4
		KN/mm²	5.5	5.5		6.2	7.6	9.6	6.2	7.6	9.6
Modulus of Elasticity, E	Full Section	10^6 psi	2.6	2.8							
		KN/mm²	17.9	19.3							
Modulus of Elasticity, E (W & I Shapes > 4")	Full Section	10^6 psi	2.5	2.5							
		KN/mm²	17.2	17.2							
Shear Modulus, LW	Full Section	10^6 psi	0.425	0.425							
		KN/mm²	2.9	2.9							
Short Beam Shear, LW	D-2344	psi	4,500	4,500	8,000						
		N/mm²	31.0	31.0	55.2						
Ultimate Bearing Stress, LW & CW	D-953	psi	30,000	30,000		32,000	32,000	32,000	32,000	32,000	32,000
		N/mm²	206.8	206.8		220.6	220.6	220.6	220.6	220.6	220.6
Poisson's Ratio, LW	D-3039	in./in.	0.33	0.33		0.31	0.31	0.31	0.31	0.31	0.31
		mm/mm	0.33	0.33		0.31	0.31	0.31	0.31	0.31	0.31
Notched Izod Impact, LW	D-256	ft.-lbs./in.	25	25	40	18.5	20	20	18.5	20	20
		J/mm	1.28	1.28	2.04	0.94	1.02	1.02	0.94	1.02	1.02
Notched Izod Impact, CW	D-256	ft.-lbs./in.	4	4		5	5	5	5	5	5
		J/mm	0.2	0.2		0.26	0.26	0.26	0.26	0.26	0.26

	ASTM TEST METHOD	UNITS	POLY-ESTER SHAPES	VINYL-ESTER SHAPES	ROD & BAR	POLYESTER PLATE 1/8"	POLYESTER PLATE 3/16"-1/4"	POLYESTER PLATE 3/8"-1"	VINYLESTER PLATE 1/8"	VINYLESTER PLATE 3/16"-1/4"	VINYLESTER PLATE 3/8"-1"
PHYSICAL PROPERTIES											
Barcol Hardness	D-2583	–	45	45	50	40	40	40	40	40	40
24-Hour Water Absorption	D-570	% max., by wt.	0.60	0.60	0.25	0.60	0.60	0.60	0.60	0.60	0.60
Density	D-792	lbs./in.³	.062-.070	.062-.070	.072-.076	0.60-0.68	0.60-0.68	0.60-0.68	0.60-0.68	0.60-0.68	0.60-0.68
		10^{-3}g/mm³	1.72-1.94	1.72-1.94	1.99-2.10	1.66-1.88	1.66-1.88	1.66-1.88	1.66-1.88	1.66-1.88	1.66-1.88
Coefficient of Thermal Expansion (Typical), LW	D-696	10^{-6} in./in./°F	7.0	7.0	5.0	8.0	8.0	8.0	8.0	8.0	8.0
		10^{-6}mm/mm/°C	1.2	1.2	5.45	14.5	14.5	14.5	14.5	14.5	14.5
Thermal Conductivity	C-177	BTU/sf/hr/°F/in.	4	4	4	4	4	4	4	4	4
		W-m/m²/ °C	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58	0.58
ELECTRICAL PROPERTIES (based on polyester and vinylester resin systems)											
Arc Resistance, LW	D-495	seconds	120								
Dielectric Strength, LW	D-149	kv/in.	35								
Dielectric Strength, PF	D-149	volts/mil.	200								
Dielectric Strength, PF	D-150	@60hz	5								
FLAMMABILITY PROPERTIES (based on fire retardant polyester and fire retardant vinylester resin systems)											
Flammability Classification (1/8")	UL 94	VO									
Tunnel Test	E-84	25 max.									
NBS Smoke Chamber E-662	E-662	600-700									
Flammability	D-635	Self Extinguishing									

LW=Lengthwise CW=Crosswise PF=Perpendicular to Laminate Face

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PROForms® Availability

ANGLE

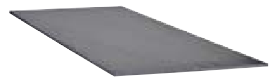
SIZE IN INCHES	LBS./LIN. FT.
1 x 1 x ⅛	0.19
1¼ x ⅛	0.23
1½ x 1½ x 3/16	0.46
1½ x 1½ x 14	0.54
2 x 2 x ¼	0.75
3 x 3 x ¼	1.16
3 x 3 x ⅜	1.62
3 x 3 x ½	2.09
4 x 4 x ¼	1.50
4 x 4 x ⅜	2.21
4 x 4 x ½	2.92
6 x 6 x ⅜	3.35
6 x 6 x ½	4.55
6 x 4 x ½	3.63

CHANNEL

SIZE IN INCHES	LBS./LIN. FT.
2 x 9/16 x ⅛	0.28
3 x ⅞ x ¼	0.80
3 x 1 x ¼	0.85
3 x 1½ x 3/16	0.81
3 x 1½ x ¼	1.03
3½ x 1½ x 3/16	0.90
4 x 1⅛ x ¼	1.14
4 x 1⅜ x 3/16	0.93
5 x 1⅜ x ¼	1.37
5½ x 1½ x ¼	1.55
6 x 1⅝ x ¼	1.69
6 x 1 11/16 x ⅜	2.41
8 x 2 3/16 x ¼	2.31
8 x 2 3/16 x ⅜	3.24
10 x 2¾ x ½	5.55
12 x 3 x ½	6.24
14 x 3½ x ¾	10.97
18 x 2½ x ⅜	6.50

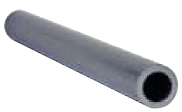
SQUARE TUBE

SIZE IN INCHES	LBS./LIN. FT.
1 x 1 x ⅛	0.34
1¼ x 1¼ x ¼	0.74
1½ x 1½ x ⅛	0.53
1½ x 1½ x ¼	0.97
1¾ x 1¾ x ⅛	0.58
1¾ x 1¾ x ¼	1.09
2 x 2 x ⅛	0.71
2 x 2 x ¼	1.35
2⅛ x 2⅛ x 3/16	0.71
2¼ x 2¼ x ⅛	0.86
2¼ x 2¼ x ¼	1.67
2½ x 2½ x ¼	1.76
3 x 3 x ⅛	1.09
3 x 3 x ¼	2.11
3 x 3 x ⅜	2.99
3½ x 3½ x ¼	2.60
4 x 4 x ¼	2.96
4 x 4 x ⅜	4.32
6 x 6 x ¼	4.35
6 x 6 x ⅜	6.54



PROPLATE® FLAT SHEET

SIZE IN INCHES	LBS./SQ. FT.
2½ x 3/16	0.37
3 x ¼	0.57
3 x ⅜	0.93
3 x ½	1.06
4 x ⅛	0.39
4 x ¼	0.76
4 x ⅜	1.15
4 x ½	1.53
6 x ¼	1.24
6 x ½	2.25
9 x ¼	1.86
10 x ¼	2.02
11 x ¼	2.26
12 x ¼	2.46
20 x ¼	4.01
24 x ¼	4.87
36 x ¼	7.49
48 x ⅛	1.30
48 x 3/16	1.88
48 x ¼	2.49
48 x ⅜	3.51
48 x ½	4.87
48 x ⅝	5.86
48 x ¾	6.72
48 x 1	8.65



ROUND TUBE

SIZE IN INCHES	LBS./LIN. FT.
1 x .100	0.25
1 x ⅛	0.28
1½ x ⅛	0.38
1½ x ¼	0.79
1¾ x ⅛	0.54
1¾ x ¼	0.97
2 x ⅛	0.57
2 x ¼	1.03
3 x .100	0.70
3 x ¼	1.72
3 x ½	3.13
4.89 x ⅛	1.81
4.89 x .195	2.13
6 x ¼	1.72

I-BEAM

SIZE IN INCHES	LBS./LIN. FT.
3 x 1½ x ¼	1.10
3½ x 1½ x 3/16	0.97
4 x 2 x ¼	1.56
5½ x 2 x ½ x ¼	1.58
6 x 3 x ¼	2.34
6 x 3 x ⅜	3.65
8 x 4 x ⅜	4.42
8 x 4 x ½	5.70
10 x 5 x ⅜	5.67
10 x 5 x ½	7.39
12 x 6 x ½	8.91
18 x 4½ x 12	8.51
24 x 7½ x ¾	15.49

WIDE FLANGE (WF) BEAM

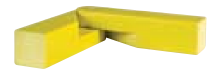
SIZE IN INCHES	LBS./LIN. FT.
3 x 3 x ¼	1.71
4 x 4 x ¼	2.33
6 x 6 x ¼	3.49
6 x 6 x ⅜	5.29
8 x 8 x ⅜	6.92
8 x 8 x ½	8.85
10 x 10 x ⅜	8.54
10 x 10 x ½	11.08
12 x 12 x ½	13.43

RECTANGULAR TUBE

SIZE IN INCHES	LBS./LIN. FT.
4 x 1 x ⅛	0.92
4⅜ x 1⅜ x ⅛	1.16
4 x 1⅛ x 2 x ¼	2.21
4 x 2 x ¼	2.21
5 x 2 x ⅛	1.21
5½ x 3½ x ¼	3.09
6 x 4 x ¼	3.77
6½ x 2 x ½	3.56

ROUND ROD

SIZE IN INCHES	LBS./LIN. FT.
⅛	0.01
3/16	0.02
¼	0.04
5/16	0.07
⅜	0.10
½	0.16
⅝	0.27
¾	0.38
⅞	0.52
1	0.68
1¼	1.07
1½	1.53
2	2.56



HANDRAIL CONNECTORS

SIZE IN INCHES	LBS./PIECE
1¼ 90° fixed	0.87
1½ 90° fixed	1.32
1¼ adjustable	0.87
1½ adjustable	1.32

EMBEDMENT ANGLE

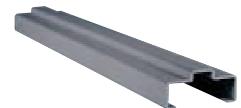
SIZE IN INCHES	LBS./LIN. FT.
1 x 1½ x ¼	0.95
1½ x 1½ x ¼	1.07
2 x 1½ x ¼	1.15

DECK BOARD

SIZE IN INCHES	LBS./LIN. FT.
12 x 2⅛	2.97
24 x 1⅛	4.61
24 x 1½	5.96

SQUARE BAR

SIZE IN INCHES	LBS./LIN. FT.
1 x 1	0.81
1¼ x 1¼	1.13
1 1/21 x 1½	1.87
2 x 2	3.32

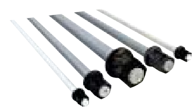


DOOR FRAME

SIZE IN INCHES	LBS./LIN. FT.
5 ¾ x 2⅝ x 3/16	1.68

BUILDING PANEL – 12"/24"

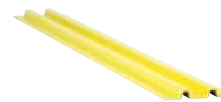
SIZE IN INCHES	LBS./LIN. FT.
12 x 1 25/32 x 3/32	2.67
24 x 2½ x ¼	13.31



THREADED ROD

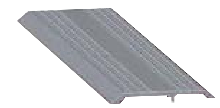
SIZE IN INCHES	LBS./LIN. FT.
⅜-16 UNC	0.09
½-13 UNC	0.15
⅝-11 UNC	0.24
¾-10 UNC	0.34
⅞ UNC	0.52

Threaded Rod available in 48" & 96" lengths.



TOE PLATE

SIZE IN INCHES	LBS./LIN. FT.
4 x ⅝ x ⅛	0.49



THRESHOLD

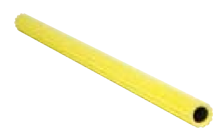
SIZE IN INCHES	LBS./LIN. FT.
5½ x ¼	1.07

CORNER COLUMN

SIZE IN INCHES	LBS./LIN. FT.
7¾ x 7¾ x ⅜	8.81

HEX NUTS

SIZE IN INCHES	LBS./LIN. FT.
⅜-16 UNC	0.02
½-13 UNC	0.02
⅝-11 UNC	0.04
¾-10 UNC	0.07
⅞ UNC	0.13



LADDER RUNG

SIZE IN INCHES	LBS./LIN. FT.
1¼ x .16	0.50

BOX BEAM – 16"

SIZE IN INCHES	LBS./LIN. FT.
16 x 4 x ⅜	11.41

SLUDGE FLIGHTS

SIZE IN INCHES	LBS./LIN FT.
3 x 6 (ANGLE)	1.28
3 x 8 (ANGLE)	1.66
3 x 6 (CHANNEL)	1.37
3 x 8 (CHANNEL)	1.50

CENTER COLUMN

SIZE IN INCHES	LBS./LIN. FT.
7¾ x 10¾ x ⅜	10.68

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