



Imagining The Possibilities
Of Design & Process
Performance

PULTRUDED PROFILES



haysite
reinforced plastics



Shaping Composite Innovation.

Pultruded Profiles

Products

Properties/Tolerances DATA

Pultrusion - High Strength, Design Flexibility, Continuous Process

Pultrusions are constant profile parts formed by drawing continuous fiber reinforcements through a resin bath. The saturated reinforcement then enters a steel die which shapes the material into the desired profile.

If you can imagine the profile, Haysite can furnish the part ... or, you may choose from many standard profiles available as stock items.

Standard Profiles

Haysite offers standard Channel, Hat Channel, and Angle. See attached chart for standard profiles.

All standard profiles available in custom lengths (Standard Length - 120").

All standard profiles available in custom colors and resin systems.

Custom Shapes

Haysite will help you understand the pultrusion process and the many options available to you when designing a custom shape for your application. Changing Glass types and Resin systems will enable you to meet your application requirements in the following areas: Structural - HighStrength/ Light Weight, Electrical, Thermal, Corrosion Resistant, and Smoke/ Flame.

CHANNEL

Part Number	Width	Height	Thickness	Weight/ft. (In Pounds)
C2212	2-5/16	3/4	1/8	0.38
C1177	2-9/16	1-7/32	1/8	0.50
C1936	9-21/32	1-5/8	1/8	1.26
C2825	5-1/2	1-1/4	5/32	0.98
C2120	11-1/2	1-7/16	5/32	1.70
C1939	3-9/16	2-9/16	3/16	1.30
C1788	4-3/4	1-5/8	3/16	1.06
C1844	8-1/2	2-11/16	3/16	1.98
C6325	6-9/16	3-1/4	1/4	2.61
C1144	2	1	1/4	0.71
C1166	3	7/8	1/4	0.86
C2888	3	1-1/2	1/4	1.08
C1155	4	1-1/8	1/4	1.12
C2874	4-1/2	2-1/2	1/4	1.73
C3922	6	1-5/8	1/4	1.79
C3924	8	2-3/16	3/8	3.56
C2250	11-9/32	1-5/8	3/8	4.11
C1940	4-9/16	2-9/16	9/32	2.27
C2288	6-3/8	2	9/32	2.43

ANGLE

Part Number	Leg	Leg	Thickness	Weight/ft. (In Pounds)
A2878	1	1	1/8	0.18
A2880	1-1/2	1-1/2	1/8	0.29
A2889	1-1/4	1-1/4	1/8	0.2
A2881	1-1/2	1-1/2	3/16	0.41
A2883	2	2	3/16	0.57
A2876	2-1/4	1-1/2	3/16	0.45
A2879	1-1/4	1-1/4	3/16	0.34
A2882	1-1/2	1-1/2	1/4	0.55
A2884	2	2	1/4	0.8
A2877	2-3/4	2	1/4	0.9
A2885	3	3	1/4	1.27
*A3325	3/1/4	3/1/4	1/4	1.3
A2886	3	3	3/8	1.68
A1134	2	1-3/4	3/8	1.06
-	2	2	3/8	1.12
A4250	4	2	1/2	2.4
A2890	3	6	1/2	5.4
A2891	3	2-1/4	1/2	2.1

DOG BONE

Part Number	Width	Height	Available in H950 and HST-II resin systems
D3737	3/8	3/8	
D3750	3/8	1/2	

Properties	Test Method	H-950	HST-II
Approximate Temperature Class**		160° C	220° C
Specific Gravity	D-792	1.85	1.62
Water Absorption %	D-570	0.25	0.30
Tensile Strength, PSI	D-638	32,000	30,000
Flexural Strength, PSI	D-790	40,000	40,000
Compressive Strength PSI	D-695	32,000	33,000
Izod Impact Strength Ft. Lbs./In. (Notch)	D-256	36	36
Dielectric Strength, Parallel	D-149	60	62
Arc Resistance, Seconds	D-495	193	150
Incline Plane Track Resistance 1/4", Minutes	D-2303	1,000	N/A
Dielectric Strength Perpendicular, VPM	D-149	300	400
UL Flammability Class KV	UL 94	94V-O	HB
Standard Color		Red	Tan

**Actual Classification depends on end use and location of the material in a complete system.

HAT CHANNEL

Part Number	Width	Height	Flange	Thickness
H1161	4-19/32	7/8	1-7/32	1/8
H2091	5	1-3/8	1	1/8
H1272	9-9/16	2-3/8	1-1/4	3/16

STRUCTURAL SHAPES

Part Number	Width	Height	Shape
-	5/8	5/8	Square Rod
R1000	1	1	Round Rod
-	4.13	3.25	3/8" H Beam
-	2	2	1/4" Square Tube

Available in H950 and HYR resin systems

TOLERANCES

Length	+ 1-0"
Width	+/- 1/16"
Height	+/- 1/32"
Angularity	+/- 3°
Thickness	+/- .020
Straightness	.050/Ft
Twist	1 Deg/Ft



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