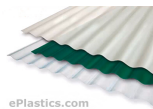


CHARTS ON CORRUGATED FIBERGLASS PROFILES

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by Anthony ZAZO



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(<https://system.netsuite.com/core/media/media.nl?id=1672&c=621686&h=90367ae48f7364e77dd7&whence=>)

Profile Guide

(<https://system.netsuite.com/core/media/media.nl?id=1672&c=621686&h=90367ae48f7364e77dd7&whence=>)

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Span and Loading Table for FRP Corrugated Panel

180 Series Panels

Span & Loading Table							
TYPE	2.5"	2.67"	R	U	4.2"	7.2"	5.33"
ROOFING							
10 psf	66"	71"	63"	71"	72"	76"	75"
20 psf	57"	62"	49"	58"	60"	65"	74"
30 psf	47"	54"	34"	44"	48"	54"	72"
40 psf	38"	46"	20"	31"	36"	42"	70"
Siding							
10 psf	67"	73"	67"	75"	75"	80"	76"
20 psf	63"	68"	57"	65"	66"	71"	75"
30 psf	59"	62"	46"	55"	58"	63"	73"
40 psf	54"	57"	36"	46"	49"	55"	72"
	2.5"	2.67"	R	U	4.2"	7.2"	5.33"

See the dimensional specifications chart to see what the type looks like!



(<https://system.netsuite.com/core/media/media.nl?id=1671&c=621686&h=e90352c97c4e7485eeb9>)

Typical Corrugated FRP Construction Details

(<https://system.netsuite.com/core/media/media.nl?id=1671&c=621686&h=e90352c97c4e7485eeb9>)

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Typical FRP Panel Physical Properties

8 oz./ft. squared Nominal Weight

TYPICAL PHYSICAL PROPERTIES		
R panel - Chopped Strand Mat Reinforcement	ASTM No.	
Tensile Strength	D638	10,000 PSI

Tensile Modulus	D638	SEE NOTE 1
Flexural Strength	D790	25,000 PSI
Flexural Modulus	D790	SEE NOTE 2
Compressive Strength	D695	25,000 PSI
Shearing Strength	D732	12,000 PSI
Barcol Hardness	D2583	45
Glass Content	D2584	22% ± 2%
Water Absorption	D570	0.25% @ 72°F/72 hrs.
Specific Gravity	D792	1.45
Izod Impact	D256	9.0 ft. lbs/in.
Coefficient of Linear Thermal Expansion	D696	SEE NOTE 3
Flash Ignition Temperature	D1929	730° F
R panel - Woven Roving/Chopped strand mat reinforcement		
ASTM No.		
Tensile Strength	D638	23,000 PSI
Tensile Modulus	D638	SEE NOTE 4
Flexural Strength	D790	33,000 PSI
Flexural Modulus	D790	SEE NOTE 5
Compression Strength	D695	30,000 PSI
Shearing Strength	D732	16,000 PSI
Barcol Hardness	D2583	45
Glass Content	D2584	35% ± 2%
Water Absorption	D570	0.25% @ 72°F/72 hrs.
Specific Gravity	D792	1.6
Izod Impact	D256	14.0 ft. lbs/in.
Flash Ignition Temperature	D1929	730° F

Note 1 = 1.6×10 to the 6th power (psi)

Note 2 = 1.10×10 to the 6th power (psi)

Note 3 = 2.09×10 to the neg. 5th power in/in/°F

Note 4 = 1.5×10 to the 6th power (psi)

Note 5 = 1.2×10 to the 6th power (psi)

Typical Light Transmission Values		
COLOR	150 Series	180 Series
400 Light Green	85%	75%
614 White	65%	55%
718 Clear	94%	93%

Percentages given were obtained using ASTM 1494-60, and are subject to tolerances of ± 5%.

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