

EMPOWERING

AGC

SOLAR EFFICIENCY

SOLAR

INSTALLATION

Plalloy™

FRP (Fiber Reinforced Plastics) structural frame

Plalloy™ is an FRP footstool for solar which is **lightness**, and has superior in excellent weatherability / corrosion resistance.

Feature
Lightness and high strength
Rustless (Corrosion resistance)
Excellent weatherability
Insulator
Free coloring
Excellent construction
Steady quality

PRODUCT DESCRIPTION

Applications

Solar module mounting system

FRP panel mount for PV



FRP structural frame for PV



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General Properties

Item	unit	Plalloy™	SS400	Aluminum	PVC
Density	g/m ³	1.6~2.0	7.8	2.7	1.4
Tensile strength	MPa	250~550	400~510	150~470	30~60
Tensile modulus	GPa	20~30	200~230	75	1.5~3.0
Strength ratio	10 ⁴ m	1.6~2.8	5.1~6.5	0.6~1.7	0.2~0.4
Modulus	10 ⁹ m	1.2~1.5	2.6~2.9	2.8	0.1~0.2
Thermal conductivity	W/mk	0.3	7.6	188	0.1
Linear expansion coefficient	10 ⁻⁵ / °C	1.1	1.2	2.3	-
Resistivity	Ω · cm	10 ¹⁵	10 ⁵	10 ⁶	-