

EMPOWERING



SOLAR EFFICIENCY

# Plalloy™

## FRP(Fiber Reinforced Plastic) structural frame

Plalloy™ is a fiber reinforced plastic footstool for solar which is lightweight, and has superior weatherability / corrosion resistance.

### PRODUCT DESCRIPTION

Application      Solar module mounting system

#### Features

- Lightness and high strength
- Rustless (Corrosion resistance)
- Excellent weatherability
- Dielectric properties
- Free coloring
- Excellent construction
- Consistent quality

### 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 <sup>3</sup>	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
Specific strength	10 <sup>4</sup> m	1.6~2.8	0.5~0.7	0.6~1.7	0.2~0.4
Specific modulus	10 <sup>6</sup> 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 <sup>-5</sup> / °C	1.1	1.2	2.3	-
Resistivity	Ω · cm	10 <sup>15</sup>	10 <sup>6</sup>	10 <sup>6</sup>	-