



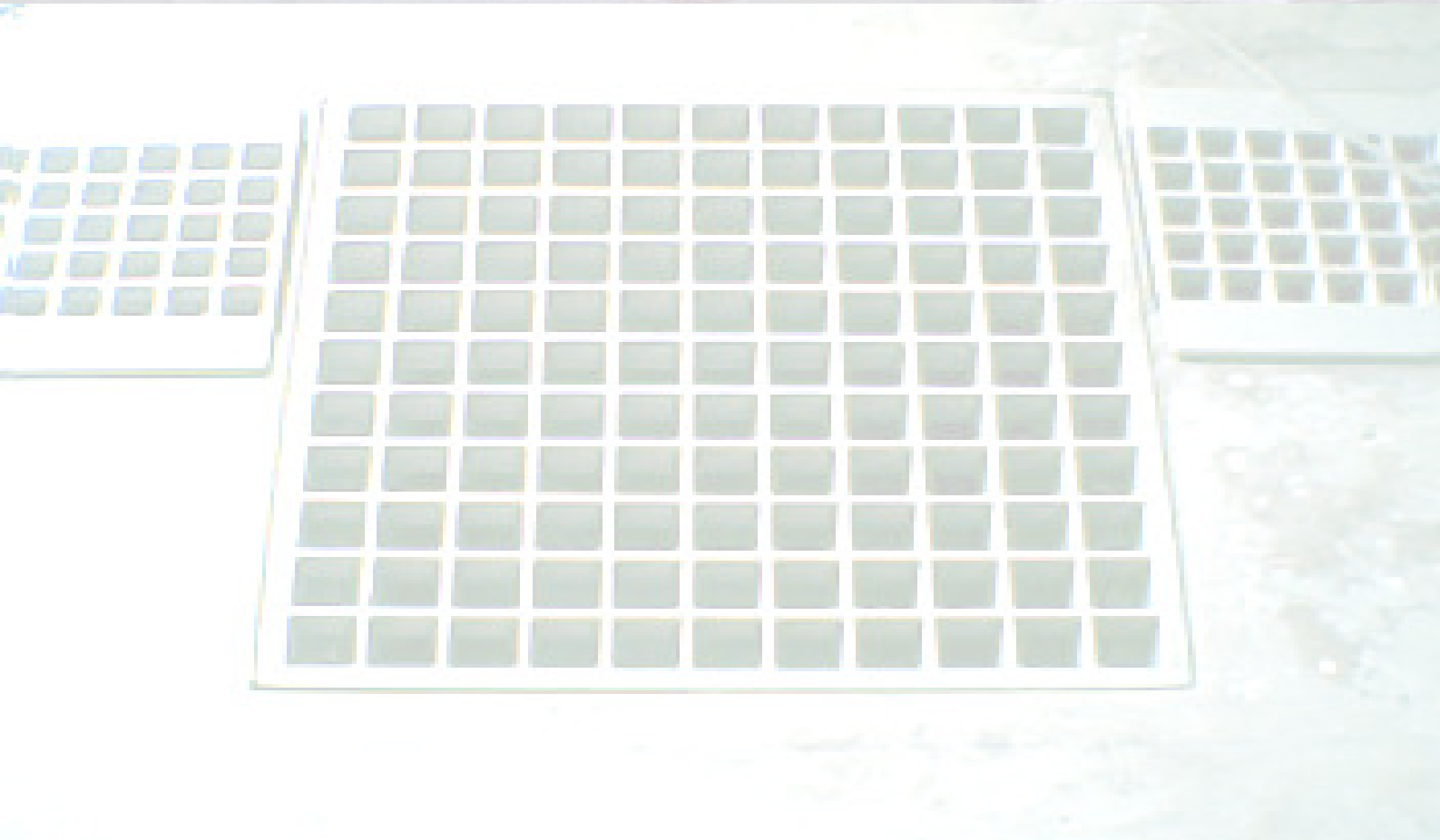
SUN SEA GRP PTE LTD

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Website : www.sunseagr.com

COVERS / STRUCTURES





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FIBERGLASS COVERS

FRP / GRP covers are used in many areas such as sewerage applications, sumps, tank tops as well as channels and drains coverage.

FRP / GRP covers are normally used when drainage water are subjected to light chemicals or in the case the surrounding are corrosive in nature. It can also be used in general purpose coverage for various industries.

FRP / GRP covers are also especially useful as they are non-conductive in nature thus useful where static electricity is present in the surrounding.

Some advantages of FRP / GRP covers are

- a) Customisation as can be fabricated to different shape and sizes
- b) Durable as high corrosion resistant
- c) Lightweight as compared to conventional materials
- d) Ease of use, easy to install and easy to maintain
- e) Can be used combined with other materials to combine the advantages of different materials.

DESIGN CHARACTERISTICS

SUN SEA's covers are fabricated based on the following principles

- 1) All covers are fabricated in reference to manufacturer standard NBS PS15-69
- 2) All covers are fabricated with the surrounding environmental conditions in mind, choosing the right raw materials to meet the surrounding environmental conditions. Fire retardent covers can be requested.
- 3) All covers are fabricated using moulding method and shape and type are picked based o required usage.
- 4) All FRP covers are designed to withstand live load of 300kg/m², 50kg soft body impact and 1kg hard body impact.
- 5) All FRP covers can be designed to include handles or hinges for easy removal and opening. Manhole can also be included in the case if entry is required.



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TYPES OF COVERS

SUN SEA fabricates a wide range of covers, herein attach a few kinds for general usage.

Chequered Surface Covers	Grating Type Drain Covers	Pipe works Cover or Tray
		


NOTE : Above is not exhaustive, please refer to your sales for more information.

FIBERGLASS PANELS

With the versatile nature of fiberglass, SUN SEA have fabricitated various panels used for various purpose, from usage in the purpose of draining to usage in the purpose of separation or space planning.

TYPES OF PANELS

SUN SEA fabricates a wide range of covers, herein attach a few kinds for general usage.

Drain Panels	Design / Separation Panels
	

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FIBERGLASS STRUCTURES

Coupled with different choices of material, SUN SEA have since fabricated various types of structures for elevation, storage and various usage.

GENERAL PROPERTY OF MATERIAL FOR STRUCTURES

	Properties	Units	Test Methods		Sharps (Mat Reinforced)	Rods&Bars (All Rovings)
			ASTM	GB of China		
Mechanical	Tensile Strength	Mpa	D638	GB1447	300 ~ 550	500 ~ 1100
	Tensile Modulus	Gpa	D638	GB1447	15 ~ 35	30 ~ 60
	Flexural Strength	Mpa	D790	GB1449	280 ~ 650	500 ~ 1100
	Flexural Modulus	Gpa	D790	GB1449	15 ~ 35	30 ~ 60
	Compressive Strength	Mpa	D695	GB1448	200 ~ 500	300 ~ 500
	Shear Strength	Mpa	D732	GB1450	100 ~ 200	
	Izod Impact	KJ/m ²	D256	GB1451	150 ~ 300	
Electrical	Dielectric Strength	KV/mm	D149	GB1408	8 ~ 40	
	Surface Resistivity	Ω	D257	GB1410	10 ¹¹ ~ 10 ¹³	
	Volume Resistivity	Ω·cm	D257	GB1410	10 ¹³ ~ 10 ¹⁵	
Physical	Density	G/cm ³	D792	GB1463	1.6 ~ 1.95	1.9 ~ 2.2
	Water Absorption	%	D570	GB1462	0.1 ~ 0.8	0.1 ~ 0.5
	Barcol Hardness		D2583	GB3584	50 ~ 60	50 ~ 70



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TYPES OF STRUCTURES

A wide range of structures can be developed with the usage of a mix of fiberglass materials.

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Supporting Structure	Equipment Holder	Maintenance Platform	Elevated Platform
