

## FRP MOLDED GRATING

Satyam is one of the world's leading manufacturers of FRP Moulded Gratings. Satyam Gratings meet the highest international standards for its high strength, corrosion resistance, long life and safety. Manufactured from various carefully selected resin systems these Gratings are designed to deliver many years of reliable service, outperforming the traditional materials. Light in weight and easy to install, a complete range of moulded Gratings are available to satisfy various industrial needs, high load requirements, as well as mesh Grades to meet falling object requirements thus ensuring worker safety.

Solid floor solutions as well as stair treads, complimented with handrail systems enable complete access stairways and work platforms solutions.

### TYPES

- | Anti-slip Grating
- | Solid Top / Covered Gratings
- | High Load Capacity Gratings

### ACCESSORIES FOR FIXATION

- | Number of clip assemblies are available for fixation:
- | M-Clip – For See through Grating
- | Nut Bold – For Covered /solid Top Gratings

### APPLICATION SECTORS

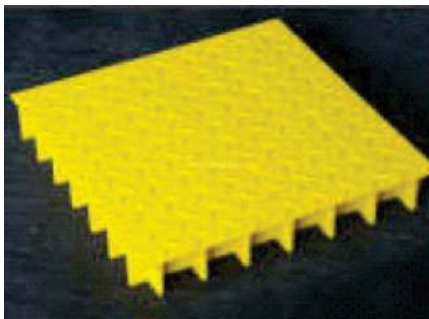
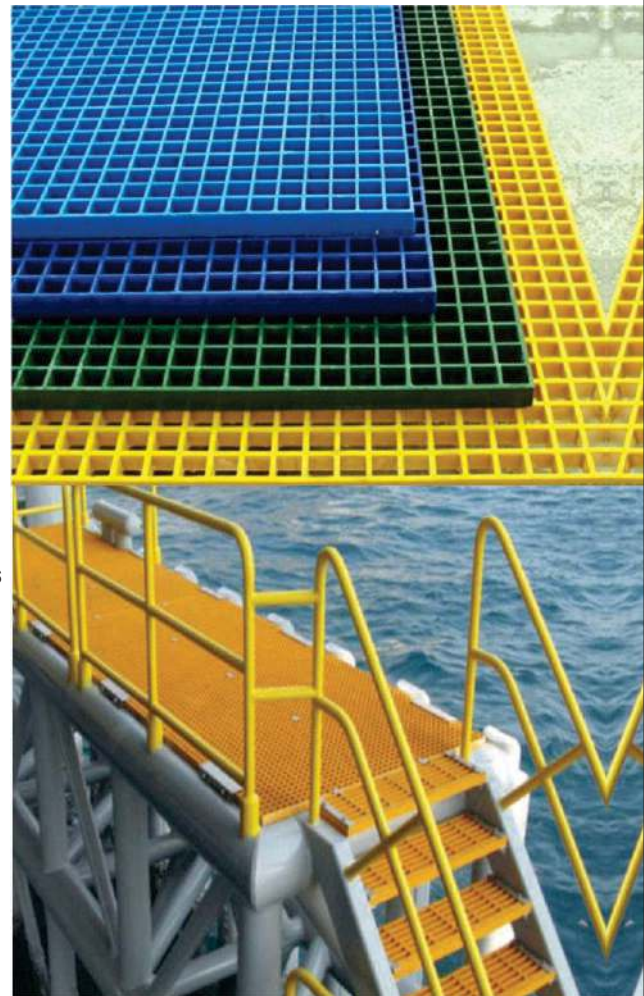
- | Chemical Processing Transportation
- | Foods & Beverage Water & waste
- | Marine & Ports Treatment
- | Oil & Gas Architectural
- | Power Sector
- | General Industry
- | Building
- | Construction
- | Pharmaceutical
- | Amusement
- | Metals & Mining
- | Pulp & paper
- | Recreation
- | Telecommunications
- | Shipping

### TYPICAL APPLICATIONS

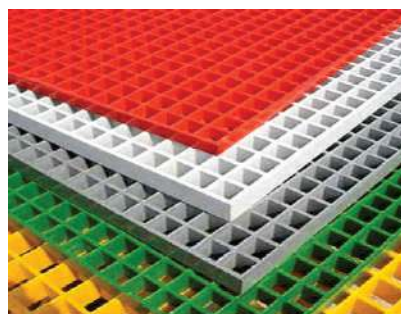
- | Flooring Drain Cover
- | Platform & Walkways Ramps
- | Assembly Lines Greenhouse
- | Trench Covers Shelving
- | Stairs
- | Catwalks

### ADVANTAGES

- | Corrosion Resistance
- | UV Protected
- | Long Service life
- | Fire Retardant
- | Slip & Impact Resistant
- | Nonconductive
- | Superior Ergonomics
- | Low Maintenance
- | Ease of Fabrication and Installation
- | Light weight yet Durable
- | Electronically Transparent



Molded Grating with FRP Chequered Plate



Molded Grating with Flat Top Surface



Molded Grating with Gritted Top (Antiskid)

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## GRATING SELECTION GUIDE

Satyam High Strength (HS) Compression Molded Grating

Satyam offers both molded and Pultruded gratings. The following table provides assistance in selecting the best grating for the application.

Satyam HS Compression Molded Grating vs. Satyam Span Pultruded Grating		
Characteristic/Application	Square Mesh Molded Grating	Pultruded Grating
Chemical Resistance	Excellent	Good
Bidirectional Strength	Excellent	Not Recommended
Unidirectional Strength	Very Good	Excellent
Impact Resistance	Excellent	Average
Weight Savings vs. Metal	Excellent	Excellent
Open Area (airflow, light penetration)	Excellent (65% to 75%)	Good (40% to 60%)
Panel Sizes Available	Excellent	Excellent
Pipe Penetrations	Excellent	Average
Safety	Excellent	Excellent
Fitting With Structure	Excellent	Average
Lorry Movement	Any Direction	Single Direction Only

Satyam High Strength Compression Molded Grating available sizes and Specifications					
Grating Thickness	Mesh/Rib Description	Panel Sizes Available (MM)	Weight (kg/m <sup>2</sup> )	% Open Area	Loading Capacity (UDL) (kg/SQM)
1" (25 mm)	Square Mesh(38 x 38 mm ) Rib Thickness-(5-7 MM)	1220X3660, 1000X4000, 1220X4000	12.20	68%	450
1-1/4" (30 mm)	Square Mesh(38 x 38 mm ) Rib Thickness-(5-7 MM)	1220X3660, 1000X4000, 1220X4000	15.62	68%	500
1-1/2" (38 mm)	Square Mesh(38 x 38 mm ) Rib Thickness-(5-7 MM)	1220X3660, 1000X4000, 1220X4000, 1500X4000	18.55	68%	750
2" (50 mm)	Square Mesh(50 x 50 mm ) Rib Thickness-(6-8 MM)	1220X3660, 1000X4000, 1220X4000, 1500X4000	22	71%	1250

**NOTE: Grating cut sizes are available as per requirement.**