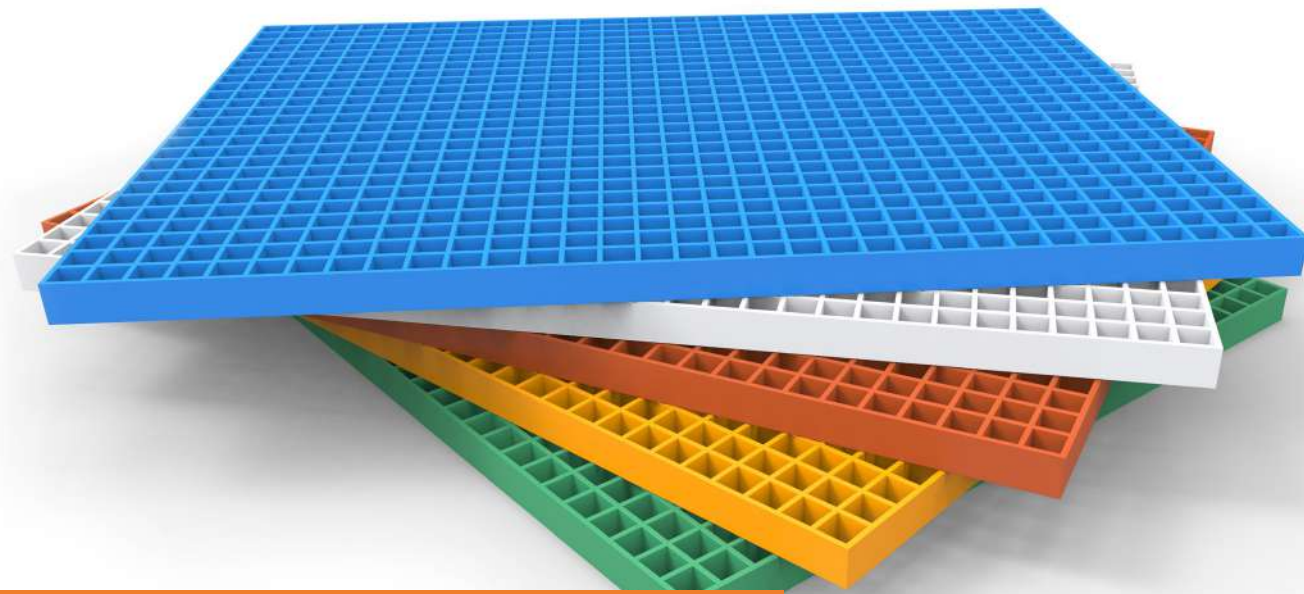




Built to Last

Arvind FRP Gratings



Arvind. We are one.
Yet, we are many.

Arvind Gratings

Founded in 1931 and valued at \$1.5bn, Arvind is one of India's largest integrated textile-to-retail conglomerates, with successful forays in advanced materials, environmental solutions and real estate. In 2014, Arvind Composites Division was founded under the AMD umbrella, manufacturing structural profiles and hand-laminated products. Now, the Composites Division can produce over 600MT of pultruded goods each month across its 26 machines and operates 12 open molds with a monthly capacity for 3000 grating panels.

Arvind offers a range of pultruded and molded gratings designed to meet the load requirement for a variety of industrial purposes. FRP gratings have exceptional strength-to-weight ratios compared to conventional materials and perform reliably for many years - even in heavy-duty conditions. Arvind's FRP gratings are made in a wide range of dimensions using isophthalic and vinyl ester resins with slip resistance options such as anti-skid coatings, chequered plates etc.

Arvind has world-class technology and are exclusive among Indian manufacturers in producing specialty Mini and Micro-Mesh moulded gratings. We manufacture molded gratings of depth 2", 1.5", 1.25" and 1". Maximum panel size is 5' x 13'

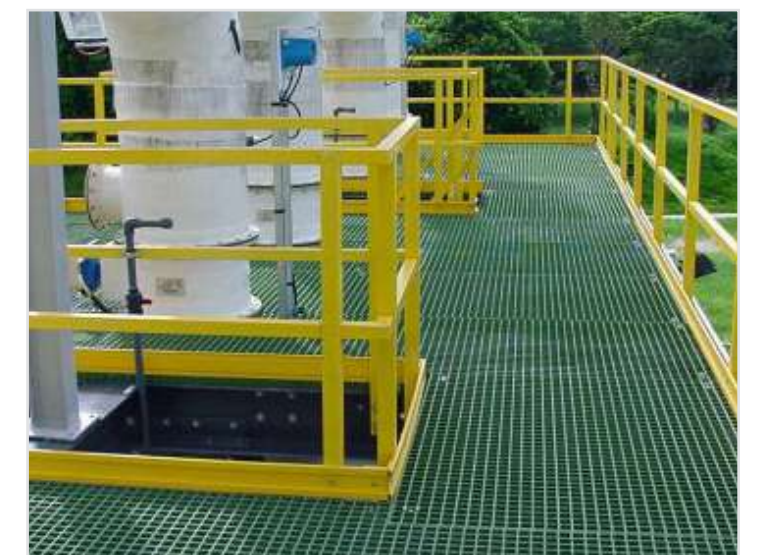


Advantages

- **Corrosion resistance:** FRP does not corrode or rot in outdoor environments as metal or wood do, giving it a long, low-maintenance lifespan.
- **Bidirectional strength:** The physical structure of molded gratings renders bidirectional properties, allowing cut-outs to be incorporated without sacrificing structural strength.
- **High strength-to-weight ratio:** Composite materials' low weight, in comparison to other materials of similar strength, reduce costs associated with the installation and removal of panels.
- **Fire retardant:** All gratings are tested in accordance with ASTM E-84 and D-635, ensuring they have excellent flame spread resistance and self-extinguishing properties, keeping damage minimal.
- **Slip resistance:** Arvind manufacture gratings with a comprehensive range of non-slip surfaces, creating product variety without sacrificing quality.

Product Applications

- Water and wastewater treatment
- Oil and gas
- Chemical plants
- Architectural
- Commercial
- Utility market
- Food processing & beverage bottling





Moulded Gratings

These are manufactured in an open mould, using a hand lay-up process. Continuous fibre rovings are manually inserted in longitudinal and transverse directions, and thoroughly wetted-out with periodic applications of resin. This use of continuous rovings allows the creation of large, single-piece panels, with bidirectional strength properties.

All moulded gratings produced by Arvind are tested to ensure compliance with ACMA guidelines that will naturally have a concave, slip-resistant "meniscus" surface, so-called for the physical process by which it forms.

The option exists to instead have a layer of grit bonded to the surface, enhancing the already excellent slip resistance of our gratings.

Alternatively, several solid - top options are also available.

Pultruded Gratings

Arvind's pultruded gratings are manufactured in a two-step process. First, the load bearing bars are manufactured in a continuous pultrusion process using a selection of reinforcement materials; a process that can produce almost any profile of constant cross-section. Notched cross-rods are then passed through the web of each bearing bar, fixing them together at a constant spacing, before being chemically bonded in place to create a mechanical and chemical lock. Pultruded gratings have a standard finish of secondarily-applied grit to create a non-slip surface.





Arvind Speciality Products



Covered Solid Top

Arvind Covered Solid Top gratings sport a continuous, grit-topped surface for maximal friction. Manufactured by incorporating a Chopped Strand Mat layer during the initial lay-up, this product has superior warp resistance compared even to other FRP gratings.

The resulting product has a consistently flat surface that covers trenches without creating a trip hazard



Micro & Mini Mesh

Based around the 1.5 x 1.5 SM style, Mini-Mesh features alternating load-bearing and non-load bearing bars on 3/4" centres. This increase in surface area makes this the ideal product for docks and marinas, where neither slip resistance nor drainage ability can be sacrificed.

Similar to Mini-Mesh, Arvind's Micro-Mesh molded gratings instead have two additional bars, on 1/2" centres, for every load-bearing bar.

This reduction in open area is perfect for access solutions, where there is a risk of losing dropped tools.



Stair Tread

Pultruded gratings offer great customisability when used as stair treads, capable of being fabricated to fit any staircase width and depth. Arvind stair treads also feature a high visibility toe for each step to improve user safety.



Chequered Plate

Also known as diamond plate, chequered plate featured raised pattern that is integrated to the surface.

In Arvind's moulded gratings, this plate is added as a secondary procedure, primarily, a non-slip surface, chequered plate can also be an ideal solution for applications requiring easy cleaning or erosion-resistant finishes.

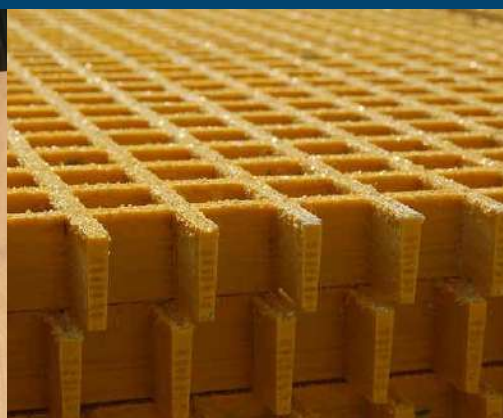
Molded Grating Models & Capacity *

Sr No	Mesh (in)	Height (in)	Standard Panel Size (ft)	Monthly Capacity (No.)
1	1-1/2 x 1-1/2	1	4 x 12	1000
2	1-1/2 x 1-1/2	1-1/4	4 x 12	400
3	1-1/2 x 1-1/2	1-1/2	5 x 13 4 x 12	1500
4	2 x 2	2	4 x 12	400
5	3/4 x 3/4	1-1/2	5 x 13	300
6	1/2 x 1/2	1-1/2	5 x 13	300

Pultruded Gratings Models

Sr No	Series	Load Bar Spacing (")	Grating Dept (")	Support Bar Spacing (")
1	I-2530	1-1/5	1	6
2	I-2538	1-1/2	1	6
3	I-3830	1-1/5	1-1/2	6
4	I-3838	1-1/2	1-1/2	6
5	I-5050	2	2	6

*molded grating measurements in U.S. customary units are approximations.



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