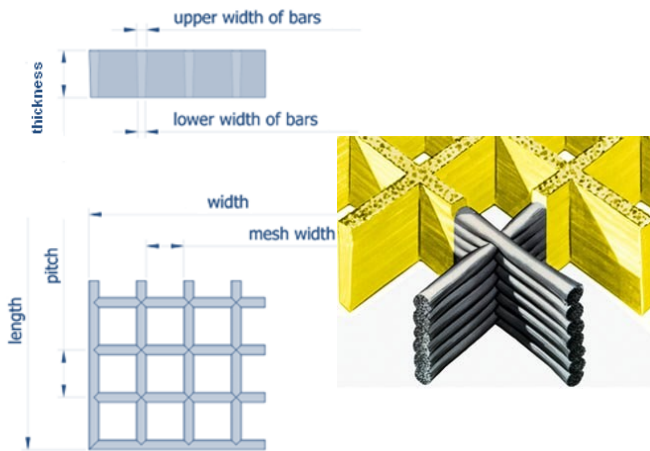


DESCRIPTION

CUMIGRATE is a moulded fibre reinforced plastics (FRP) gratings, produced in special moulds, using continuous glass strand fibres with resin system.

CUMIGRATE has high levels of chemical resistance due to high resin content.



CUMIGRATE DIMENSIONS:

Mesh type : Square

Mesh size : 31mm x 31mm / 28mm x 28mm,

Panel thickness : 28 mm, 30mm, 40 mm & Micro mesh

CUMIGRATE TOP FINISH:

CUMIGRATE is available in two finishes

Concave top for normal applications and gritted top for maximum wear resistance and skid resistance.



CUMIGRATE ADVANTAGES

- Monolithic construction
- Chemical / Corrosion resistance
- Square mesh gratings has bi-directional load bearing capacity.
- Simple and quick on site assembly

- High comfort for walking and standing
- Capable of absorbing impacts
- Sound absorbing
- Electrically Non conductive
- Anti-slip surface
- No spark formation
- High impact resistant
- Low thermal conductivity
- UV resistant
- Hygienic and bacterial resistant
- Light weight, hence low transport cost
- Short delivery times
- Permanent colors. Very low maintenance.

CUMIGRATE APPLICATIONS

Product applications include:

- Platforms
- Walkways
- Pedestals
- Stairways
- Ramps
- Covers for drains, manholes, and sewers
- Shielding dangerous areas including transformer yards etc.,
- Machinery housings
- Sewage works
- Battery Racks
- Kitchens

CUMIGRATE USAGE AREAS

- Automotive industry
- Electronics industry
- Food & Beverage Industry - bottling lines
- Food processing plants

CUMIGRATE

- Metals & Mining
- Naval and shipyards
- Offshore, Oil and Gas industry
- Chemical & Petrochemical industry
- Pharmaceutical Industry
- Pickling and galvanizing plants
- Pulp & Paper industry
- Wastewater / sewage works

CUMIGRATE SELECTION

The flexural modulus of glass fiber gratings is less than that of equivalent size metal gratings, which means that deflection of gratings will be more than that of the metal gratings. This allows the advantage of visual determination of overload long before failure loads are reached.

As a result, the desired deflection is usually the factor which determines the span in reinforced plastic gratings rather than the specific strength.

To select the suitable thickness of gratings

- Determine the type of loading—concentrated or uniform
- Estimate the load and determine the span

Use the following table to choose your CUMIGRATE thickness

Panel size in mm Span Length in mm	3660 x 1220 x 28mm thick	4045 x 1005 x 30mm thick	3660 x 1220 x 40 mm thick	4045 x 1040 x 38 mm (Micro mesh)
	Uniformly Distributed Load (Kg/m ²)			
450	1800	4160	3400	3100
600	1020	3700	2700	2890
750	650	1980	1450	2720
900	340	740	1200	1540

FABRICATION OF CUMIGRATE

For Cutting CUMIGRATE use masonry blade for straight cuts. For circular cuts, use jig saw with an abrasive blade.

All cutting and grinding should be carried out in well ventilated area, Dust collection system is preferable. Wear safety goggles for eye protection and mouth mask to reduce inhalation of dust when cutting or sanding.

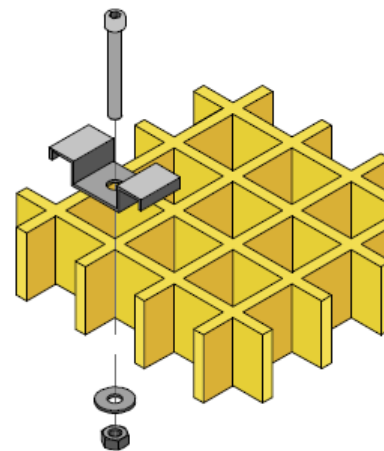
All cut edges should be sealed with similar rein system, for maximum chemical and corrosion resistance.

CUMIGRATE INSTALLATION

For supporting CUMIGRATE, we are also supplying FRP I beams, FRP Channels upon specific request.

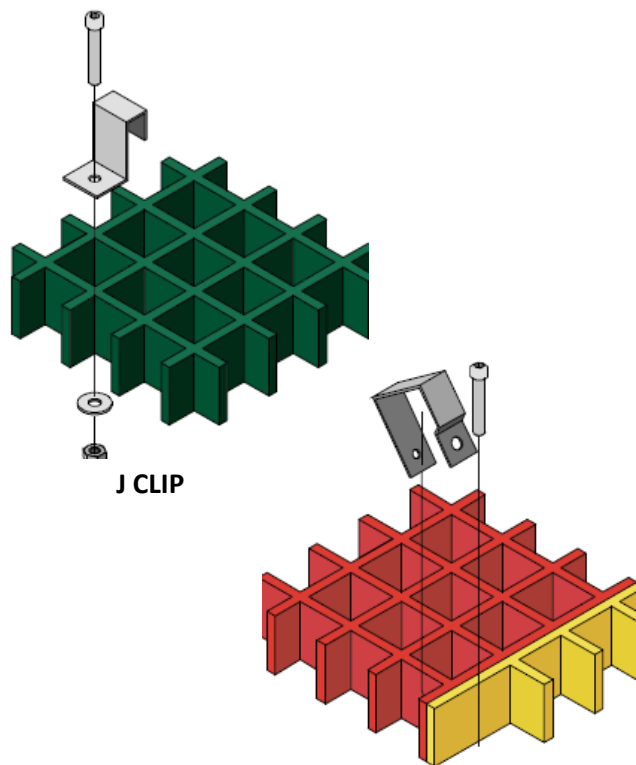
CUMIGRATE panels are designed to be supported on all sides

Properly installed CUMIGRATE should be fastened down with special clips made of SS 316 / SS 304 , to prevent panel drifting. Sufficient clips should be used to hold the CUMIGRATE firmly. It is recommended to use min 8 clips per panel of 3.66 mtr x 1.22 mtr.



M CLIP

CUMIGRATE



- Ducts
- Hoods
- Dampers
- Drying Towers
- Cooling Towers
- Absorbers
- Scrubbers
- WESP Casings
- Gratings
- I beam / Channels
- Pultruded Profiles
- Hand rails
- Domes

ADDITIONAL INFORMATION

CUMI PRODORITE also supplies Acid / Alkali resistant masonry lining, , Carbon bricks / tiles / special shapes, construction chemicals, polymer concrete electrolytic cells and floors, epoxy self leveling floors, epoxy screeds etc,.

Small pieces of CUMIGRATE be fastened with not less than 4 clips. Allow 3 to 5mm gap between panels to take care of thermal expansion of the CUMIGRATE panels.

OTHER FRP PRODUCTS

We are also fabricating other FRP & Dual Lamination like PVC-FRP, PP-FRP, PVDF-FRP products :

- Pipes & Fittings
- Storage Tanks
- Process Vessels

WARRANTY

Whilst CUMI PRODORITE strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the use of the product, since the method and place of application of the products are beyond its control.

CARBORUNDUM UNIVERSAL LIMITED

PRODORITE DIVISION

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