

SLAVIA GRATINGS TATRAGRATE

... For the Industry of the XXI Century

SLAVIA GRATINGS TATRAGRATE

Resin types:

ECONOM STANDARD

Orthophthalic polyester resin. Resistant to mildly aggressive environments.

ECONOM NON FIRE

Orthophthalic polyester resin with fire-retardant component. Provides fire-resistant properties and chemical resistance.

ISO NON FIRE

Isophthalic polyester resin with fire-retardant component, for use in aggressive environments.

FOOD NON FIRE

Isophthalic polyester resin with fire-retardant component for food industry and livestock farming.

VINYL NON FIRE

Vinyl ester resin with fire-retardant component for use in aggressive environments.

PHENOL NON FIRE

Phenolic resin with fire-retardant component. Fire-suppressing properties, low smoke emission index.

Popular panel sizes:

No.	Height (mm)	Cell size (mm)	Panel dimensions (mm)	Weight (kg/m ²)
1	30	19×19 minimesh	4047 × 1007	19
2	30	38×38	4046 × 1525	19
3	30	38×38	4038 × 1000	15
4	30	38×38	3660 × 1220	15
5	38	38×38	3660 × 1220	19
6	38	38×38	4038 × 1000	19
7	38	38×38	4046 × 1525	19
8	38	19×19 minimesh	4047 × 1247	21.9
9	50	50×50 minimesh	1225 × 3665	22
10	26	38×38	4038 × 1000	12.5

SLAVIA GRATINGS TATRAGRATE

GRP Gratings — Types & Applications

TRANSITION PLATFORMS · EFFECTIVE INNOVATION

Smooth moulded gratings

Same technical specs as standard gratings, smooth on both sides. Used in architectural finishes, roof enclosures, equipment guards.

Concave surface gratings

High slip resistance and ease of cleaning. Inter-floor slabs, staircases, service platforms, overpasses.

Mini-mesh gratings

Open area 12×12 mm. Prevents objects up to 15 mm from falling through (EU norms). Suitable for wheelchair/trolley movement.

Conductive surface gratings

Carbon coating for static charge dissipation. Resistance < 26 kΩ / 300 mm. For electrically hazardous locations.

Covered surface gratings (HLU)

Composite cover bonded after moulding, standard 3 mm thick. Service platforms, trench covers, transport zones.

Stair treads

Same properties as standard FRP gratings. Maximum anti-slip, minimum deflection. All industrial staircase applications.

AREAS OF APPLICATION

- | | |
|-----------------------------------|------------------------------------|
| ▶ Industrial & civil construction | ▶ Shipbuilding & port facilities |
| ▶ Oil & gas processing | ▶ Road & transport construction |
| ▶ Chemical industry | ▶ Timber & metalworking |
| ▶ Railway infrastructure | ▶ Energy & mineral processing |
| ▶ Food industry | ▶ Urban infrastructure |
| ▶ Agriculture & livestock | ▶ Architectural & landscape design |

Examples of FRP TATRAGRATE applications:

- | | |
|--------------------------------|--------------------------------------|
| • Inter-floor slabs | • Pedestrian zone coverings |
| • Transport zone coverings | • Railway platforms & bridges |
| • Pipeline & railway crossings | • Overpasses & walkways |
| • Service platforms | • Ship gangways |
| • Conveyor guards | • Staircases & handrails |
| • Manhole & trench covers | • Architectural & landscape elements |

TRANSITION PLATFORMS

FRP TATRAGRATE gratings and structures are widely used for transition platforms at industrial facilities. Their light weight, corrosion resistance and non-magnetic properties make them the optimal solution for:

- ▶ Cement plants — walkways and service platforms in dusty, corrosive environments
- ▶ Oil refineries — platforms resistant to hydrocarbon and chemical exposure
- ▶ Wastewater treatment plants — corrosion-resistant covers and walkways
- ▶ Floating pump stations — lightweight platforms for marine environments

The TATRAGRATE transition platform system offers a complete structural solution including gratings, handrails, stair treads and supporting profiles — all FRP.

- ▶ Up to 75% lighter than steel — reduces load on supporting structures
- ▶ No painting or galvanising required — zero maintenance costs
- ▶ Modular design — fast installation without heavy lifting equipment
- ▶ Available in yellow, grey, green and custom RAL colours
- ▶ Fire-retardant grades available (ISO NON FIRE, PHENOL NON FIRE)

Cement plant

Dust and alkali resistant structures

Oil refinery

Chemical and UV resistant platforms

Wastewater treatment

Corrosion-free covers and walkways

Floating pump station

Marine-grade lightweight structures

Power generation

Non-magnetic, non-sparking gratings

Shipbuilding

Lightweight gangways and deck covers

SMOOTH MOULDED GRATINGS

TATRAGRATE smooth moulded gratings have the same technical characteristics as other gratings. Their distinguishing feature is smooth surfaces on both sides. Widely used in architectural applications, building enclosures, roof structures, equipment guards, and decorative elements.

Stair treads & landings

Same properties as standard FRP gratings — maximum anti-slip surface and minimum deflection. Suitable for all industrial staircase applications including heavy-duty and outdoor environments.

Concave surface gratings

Used in structures requiring high slip resistance and ease of cleaning: inter-floor slabs, staircase landings, service platforms, overpasses. The concave profile channels liquids away from the walking surface.

Mini-mesh gratings

Open cell area of 12×12 mm. Prevents objects up to 15 mm from falling through, complying with European safety norms. Convenient for movement of wheelchairs, trolleys, equipment on wheels.

Conductive surface gratings

Special carbon fibre coating providing electrical conductivity and static charge dissipation. Surface resistance less than 26 kΩ per 300 mm. Used wherever electrostatic discharge (ESD) control is required.

Covered surface gratings (HLU)

A composite material top cover bonded to the panel after moulding. Standard cover thickness: 3 mm. Ideal for service platforms, trench and channel covers, special floor structures, and transport zones.

Additional options

All grating types can be supplied with custom cut-outs, notches, and edge banding. Panels can be cut to size on site using standard tools. No special equipment required for installation.

AREAS OF APPLICATION

Industrial & civil construction

Walkways, inter-floor slabs, service platforms, equipment enclosures, ventilation grilles, architectural cladding.

Oil & gas processing

Platforms, walkways and stair treads resistant to hydrocarbons, solvents and aggressive chemicals. Non-sparking and non-magnetic.

Chemical industry

Covers and platforms in contact with acids, alkalis and solvents. ISO NON FIRE and VINYL NON FIRE for maximum chemical resistance.

Railway infrastructure

Platform surfaces, bridge decking, pipeline and track crossings, pedestrian bridges. Lightweight, non-conductive.

Food & beverage industry

FOOD NON FIRE grade meets hygiene requirements. Easy to clean, corrosion-free, non-toxic surfaces for food processing areas.

Agriculture & livestock

Flooring for animal housing, walkways in wet and manure-contaminated areas. Resistant to biological agents and cleaning chemicals.

Shipbuilding & ports

Gangways, deck covers, walkways in salt-water environments. Lightweight and non-magnetic — no interference with navigation instruments.

Road & transport

Pedestrian bridges, footpath covers, drainage channel grilles, anti-slip surfaces for public transport infrastructure.

Energy & mining

Platforms and walkways in power plants, substations and mining facilities. Dielectric properties — safe in high-voltage environments.

Urban infrastructure

Drainage covers, pedestrian zone surfaces, park and landscape elements. Available in a wide range of colours.

Architectural & design

Feature staircases, partition screens, decorative facades, landscape furniture and interior design elements.

Timber & metalworking

Workshop flooring resistant to chips, oils, coolants and vibration. Anti-static grades available.

SLAVIA GRATINGS TATRAGRATE

Advantages of TATRAGRATE · Contact

ADVANTAGES OF TATRAGRATE

Corrosion resistance & fire retardancy

SLAVIA GRATINGS TATRAGRATE gratings and FRP structures are designed for safe, durable and cost-effective solutions where aggressive media and corrosive substances destroy metals, wood and other structural materials.

50+ years maintenance-free service life

Guaranteed for moulded gratings and FRP structures of TATRAGRATE. Gratings require no special maintenance — periodic washing with water and detergent is sufficient. Colour is preserved thanks to UV resistance.

Significant cost savings

Considering lower installation costs, long service life, and zero maintenance expenditure, FRP structures offer real economic advantages over traditional materials throughout their lifecycle.

High strength-to-weight ratio

TATRAGRATE gratings consist of a monolithic structure of continuous glass fibres and high-quality polyester resins. This gives FRP structures high strength at significantly lower weight than steel grating.

Anti-slip & ergonomics

Available in two anti-slip variants: concave surface (groove) and quartz abrasive coating. Both provide excellent slip resistance in fog, water spray and oil spill conditions. Reduces physical strain on workers.

Safety & dielectric properties

TATRAGRATE gratings are dielectric, making them ideal for electrically hazardous locations. Non-magnetic properties eliminate interference in sensitive areas. Non-sparking — safe where flammable gases may be present.

Easy access & installation

Light weight allows single-person handling without heavy lifting equipment. Panels can be cut with standard tools on site. Modular system enables fast installation and reconfiguration.

Colour & aesthetics

Through-body colouring (pigment mixed into resin) ensures permanent colour that does not fade, peel or scratch. Available in a wide range of standard and custom RAL colours.

Key properties:

- | | | |
|--|---|---|
| ☒ Corrosion resistance | ☒ Fire retardancy | ☒ Anti-slip surface |
| ☒ Light weight | ☒ Non-conductive | ☒ UV resistance |
| ☒ Ergonomic | ☒ Safe | ☒ High strength |
| ☒ Long service life | ☒ Cost-effective | ☒ Easy installation |
| ☒ Zero maintenance | ☒ Custom colours | |

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