

GRP Grating Anti-Slip Surfaces

ZeAllgrate - izeall.com

The walking surface is a safety specification, not an aesthetic choice. ZeAllgrate manufactures four surface finishes - grit-top silica, concave, convex and smooth - matched to the expected contamination: water, oil, process chemicals or dust.

Four Surface Finishes

Surface	Description	Slip Resistance	Best For
Grit-top (silica)	Abrasive silica grit bonded into the top surface	Best wet / oily	Wet, wash-down, marine, food processing, ramps
Concave (dished)	Dished dimples on the top surface	Good dry / moderate wet	General walkways, light contamination
Convex (raised)	Raised rounded protrusions	Good dry / moderate wet	Standard industrial platforms
Smooth	Flat, non-textured top	Lowest (clean dry only)	Cleanrooms, food contact, low-hazard dry areas

Wet / Oily Performance & Maintenance

Surface	Wet / Oily Performance	Typical Service	Maintenance Note
Grit-top (silica)	Best - bonded grit maintains bite when wet	Wash-down, marine, food, ramps	Grit bonded at manufacture; no site coating needed
Concave (dished)	Good dry / moderate wet	General walkways, light contamination	Self-draining dimples; normal washdown
Convex (raised)	Good dry / moderate wet	Standard industrial platforms	Rounded profile; normal washdown
Smooth	Lowest (clean dry only)	Cleanrooms, food contact, low-hazard dry	No texture; keep dry for slip safety

Which Surface Do You Need?

Service Condition	Recommended Surface
Always wet / wash-down (pump stations, wastewater, food & beverage, marine decks)	Grit-top silica
General industrial with light contamination	Concave or convex; upgrade to grit-top where expected
Hygienic / cleanroom (pharmaceutical, microelectronics)	Smooth - easy to clean, no grit to trap residue
Ramps and stair treads	Grit-top; hybrid with standard surface on level walkways

Coefficient of friction (COF): higher is safer. A surface that achieves 0.5+ dry can fall below 0.3 wet. Specify the wet (or contaminated) COF, not the dry value. Because anti-slip surfaces are molded or bonded into the panel, they do not wear off or need site-applied coating renewal like painted anti-slip systems.

Data per ZeAllgrate published technical tables (izeall.com). Working guide - confirm with engineering before specification.