

STAY GRATE™ SS5

Including STAY GRATE™ SS5-SR, SS5-PC, SS5-BB and SS5-15 variants



STAY GRATE™ SS5 is a fastening device designed to safely secure steel, aluminium, and fibre-reinforced plastic grates in concrete surrounds, significantly reducing the risk of personnel injury and falls.

STAY GRATE™ SS5 is designed to engage grate frames, loadbars or crossbars, where a gap of >10mm exists between the grate frame and the concrete edge.

NB: minimum edge distance for the Anzor chemical anchor is 50mm, as per the location marks on the SS5 plate.

STAY GRATE™ SS5 fasteners comply with the requirements of:

Melbourne Water CORP AM S020: 2014 Access covers, platforms and walkways standards

STAY GRATE™ SS5-SR anti-slip fasteners have a Floorsafe® finish compliant with:

AS/NZS 4586: 2004 Slip resistance classification of new pedestrian surface materials

BENEFITS OF STAY GRATE™ SS5:

- Restricts unauthorized access and opening of grates from above or below without the use of a specific tool.
- Prevents movement of the grate within the frame.
- Prevents grates being dislodged from the frame due to pedestrian and vehicular traffic.
- Prevents grates rocking in the frame under traffic, minimizing noise under traffic loads.
- Prevents grates being dislodged from the frame in the event of uplift forces.
- Enables the removal of fasteners without completely dismantling the STAY GRATE™ SS5 assembly, by loosening of the screw and rotation of the plate. This prevents the assembly components falling into pits.
- STAY GRATE™ SS5 is supplied as a ready to install assembly including the STAYGRATE™ SS5 plate, an Anzor 316 M10 internal threaded chemical anchor and a Hobson's 316 M10 allen-key countersunk screw*

* Tamper-proof screws can be supplied when required

STAY GRATE™ SS5 is manufactured in Melbourne, Australia.

All components of the STAY GRATE™ SS5 assembly are sourced in Australia.

FEATURES OF STAY GRATE™ SS5:

- STAY GRATE™ SS5 body is manufactured from 5mm 316L Stainless Steel plate, which is resistant to corrosion, chlorine and sulphuric acid, and suited to use in potable water, stormwater and marine environments.
- STAY GRATE™ SS5 includes permanent Location Marks to ensure correct anchor installation in the concrete grate surround.
- STAY GRATE™ SS5 includes a bevelled edge to minimise trip hazards.
- STAY GRATE™ SS5 assembly has an uplift load resistance of 0.67kN[^]

STAY GRATE™ SS5 PRODUCT VARIANTS:

- STAY GRATE™ SS5-15 has a tooth gap width of 15mm, designed to fasten adjacent grates using a single STAY GRATE™ SS5-15 assembly.
- STAY GRATE™ SS5-SR has a Floorsafe® anti-slip finish which meets AS/NZS Standard 4586: 2004.
- STAY GRATE™ SS5-PC has a powder-coated Dulux Yellow Gold 33617 finish which enables service personnel to readily identify the edge of the grate in reduced visibility conditions.
- STAY GRATE™ SS5-PC Powder-coated colour finish is available in a range of alternate colour selections.
- STAY GRATE™ SS5-BB has a bead-blasted anti-reflective textured finish.

STAY GRATE™ SS5 - INTENDED USE AND RECOMMENDED APPLICATIONS

STAY GRATE™ SS5 units are suited for use as a fastening device for grates in concrete surrounds.

VIBRATION RESISTANCE OF STAY GRATE™ SS5

In applications where resistance to vibration is required the use of a suitable Locktite™ thread-adhesive or similar product is recommended.

GUARANTEE OF PRODUCT QUALITY*

Grate Engineering™ guarantee the quality and durability of the STAY GRATE™ SS5 plates in field conditions commonly encountered in industry for 25 years, when used for the intended purpose and installed in accordance with our specifications.

*The anchors, screws and chemical agents used to install STAY GRATE™ SS5 plates are not covered by our guarantee.

[^]STAY GRATE™ SS5 Load Calculations by Bodo Siemienowicz, Copernicus Engineering. Mt.Waverley VIC 3149, Australia.

TYPICAL INSTALLATIONS OF STAY GRATE™ SS5

STAY GRATE™ SS5 units are suited for use for grates over pits in:

- Water treatment facilities
- Sewerage treatment facilities
- Water storage and transfer facilities
- Sewerage storage and transfer facilities

STAY GRATE™ SS5 units are suited for use for grates in service areas such as:

- Plant rooms
- Commercial kitchens
- Maintenance storerooms
- Maintenance access ways
- Oil Rigs and platforms
- Delivery docks

Grate and mesh types suited to installation of STAY GRATE™ SS5 units include:

- Open Mesh Steel grating, flooring, walkways and pit covers
- Steel Grid Flooring
- Expanded Mesh Grates
- Grid Grating
- Grid Mesh
- Aluminium Grid Flooring
- Fibre-glass Reinforced Plastic (FRP) Grates and Mesh

LIMITATIONS TO INSTALLATION OF STAY GRATE™ SS5 ASSEMBLY

STAY GRATE™ SS5 is not suitable for use with grate or mesh types where the load-bar or crossbar dimensions or spacings are incompatible with the configuration of the engagement teeth.

STAY GRATE™ SS5 is not suited for use in public and pedestrian accessible areas.

Grate Engineering™ have an alternative range of STAY GRATE™ products including a STAY GRATE™ SS2 single-tooth model suited to use in public and pedestrian accessible areas, and range of STAY GRATE™ SS3 brackets suited for fastening grates into steel supports .

Grate Engineering™ can design, engineer and manufacture specialized configurations of STAY GRATE™ to suit client's requirements.

For further information see www.grateengineering.com