

STAY GRATE™ SS2

Including STAY GRATE™ SS2-SR, SS5-PC and SS5-BB variants



STAY GRATE™ SS2 is a fastening device designed to safely secure steel, aluminium, and fibre-reinforced plastic grates in concrete surrounds. STAY GRATE™ SS2 is designed to engage grate frames, loadbars or crossbars located in close proximity to the concrete edge.

NB: minimum edge distance for the Anzor chemical anchor is 50mm, as per the location marks on the SS2 plate.

STAY GRATE™ SS2 fasteners comply with the requirements of:

AS1657:2013 Fixed platforms, walkways, stairways and ladders

AS 3996:2006 Access covers and grates

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

STAY GRATE™ SS2-SR anti-slip fasteners have a Floorsafe® finish compliant with:

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

HB 197-1999 for Ramps, stairways & walkways

STAY GRATE™ SS2-SR are suited for use in in public and pedestrian accessible areas.

BENEFITS OF STAY GRATE™ SS2:

- 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™ SS2 assembly, by loosening of the screw and rotation of the plate. This prevents the assembly components falling into pits.
 - STAY GRATE™ SS2 is supplied as a ready to install assembly including the STAYGRATE™ SS2 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™ SS2 is manufactured in Melbourne, Australia.

All components of the STAY GRATE™ SS2 assembly are sourced in Australia.

FEATURES OF STAY GRATE™ SS2:

- STAY GRATE™ SS2 body is manufactured from 4mm 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™ SS2 includes permanent Location Marks to ensure correct anchor installation in the concrete grate surround.
- STAY GRATE™ SS2 includes a bevelled edge to minimise trip hazards.
- STAY GRATE™ SS2 assembly has an uplift load resistance of 0.65kN[^]

STAY GRATE™ SS2 PRODUCT VARIANTS:

- STAY GRATE™ SS2-SR has a Floorsafe® anti-slip finish which meets AS/NZS Standard 4586: 2004.
- STAY GRATE™ SS2-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™ SS2-PC Powder-coated colour finish is available in a range of alternate colour selections.
- STAY GRATE™ SS2-BB has a bead-blasted anti-reflective textured finish.

STAY GRATE™ SS2 - INTENDED USE AND RECOMMENDED APPLICATIONS

STAY GRATE™ SS2 units are suited for use as a fastening device for grates in concrete surrounds.
STAY GRATE™ SS2-SR units are suited for use in public and pedestrian accessible areas.

VIBRATION RESISTANCE OF STAY GRATE™ SS2

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™ SS2 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™ SS2 plates are not covered by our guarantee.

[^]STAY GRATE™ SS2 Load Calculations by Bodo Siemienowicz, Copernicus Engineering. Mt.Waverley VIC 3149, Australia.

TYPICAL INSTALLATIONS OF STAY GRATE™ SS2

STAY GRATE™ SS2-SR units are suited for grates in public access areas such as:

- Pedestrian walkways and cycle tracks
- Schools and playgrounds
- Hospital and medical facilities
- Service stations and carwashes
- Stormwater easements
- Footpaths, bridges and ramps
- Shopping precincts and car-parks
- Nature strips and streetscapes
- Sports and entertainment stadiums
- Harbours and airports

STAY GRATE™ SS2 units are suited for grates in service and production areas such as:

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

STAY GRATE™ SS2-BB (bead blasted) and STAY GRATE™ SS2-PC (powder coated) units are suited for restricted access areas in industry, such as:

- Water treatment facilities
- Sewerage treatment facilities
- Water storage and transfer facilities
- Sewerage storage and transfer facilities
- Mining and petrochemical facilities
- Industrial and food processing plants
- Warehouses and storage facilities
- Machinery wash-down facilities

Grate and mesh types suited to installation of STAY GRATE™ SS2 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™ SS2 ASSEMBLY

STAY GRATE™ SS2 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.

Grate Engineering™ have an alternative range of STAY GRATE™ products including STAY GRATE™ SSZ brackets designed to fasten grates located in narrow concrete surrounds adjacent to walls, 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