FLUOROCARBON

Fluoroglide® PTFE Slide Bearings & Skidways - Typical Configurations

Based on 30 years of technical experience Fluorocarbon offers a professional design, manufacturing and onsite consultancy service dedicated to resolving slide bearing and skidway needs. We also supply PTFE plain and dimpled inserts to leading manufacturers of pot bearings for road and bridge applications.

We produce Fluoroglide® slide bearings in a range of configurations using either virgin or glass filled Fluorinoid® PTFE as the bearing material. Each bearing is designed specifically to suit the specific application.

- All bearing configurations shown in this document are typical
- Variations are possible to suit the application
- Alternative thicknesses of PTFE, backing plates, thermal insulation pads may be specified
- The dimensions given are typical
- Backing plates - generally carbon steel but any rigid structural material or free issue material
- Surface sliding plate - mirror polished stainless steel grade 304 and 316
- Specialised bonding systems are available for temperature outside the ranges overleaf

The high temperature limit of each configuration should be regarded as the absolute maximum. Normally the temperature at the surface of the PTFE should not exceed +120°c.

For glass filled PTFE bearings, the load capacity should be multiplied by 2. For contained glass filled PTFE bearings the load capacity may be multiplied by 4. Under these conditions the deformation of the bearing material will not exceed 0.05mm.

Load conversion factors: 1kg/cm^2 = 14.20 l bf/in^2 = 98.04kPa.

For more information on our Fluoroglide® products or for advice on your specific configuration please contact our design and technical engineers today.

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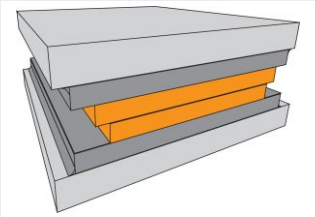
Fluoroglide® PTFE Slide Bearings - Typical Configurations

Material Key

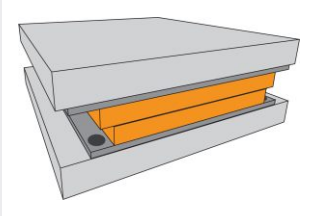
- Existing Substrate
- Fluorinoid® FL100 PTFE/FL129 PTFE
- Carbon / Stainless Steel
- Elastomer
- Concrete Substrate
- Mirror stainless steel
- Thermal Insulator



FC25120-MST
Full Weld Bearing

2.5mm PTFE top pad bonded to 12mm backing plate for full welding to substrate. 2.5mm PTFE bottom pad bonded to 12mm backing plate for full welding to substrate.

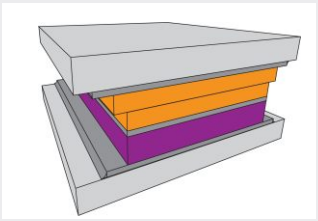
Temperature range: -30°c to +120°c



FC 2560-MSB
Bolted Bearing

2.5mm PTFE pad bonded to 6mm backing plate with countersunk holes for bolting.

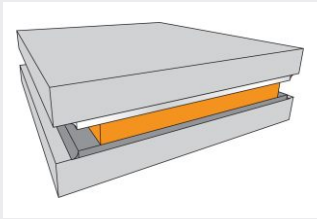
Load capacity: up to 70kg/cm²
Temperature range: -30°c to +120°c



FC 2530-SSNRT
Elastomeric Backed Bearing

2.5mm PTFE pad bonded to 3mm backing plate for tack welding. 2.5mm PTFE bottom pad bonded to 3mm backing plate, 6mm elastomer to accommodate small angular misalignments and 3mm mounting plate for tack welding or bolting.

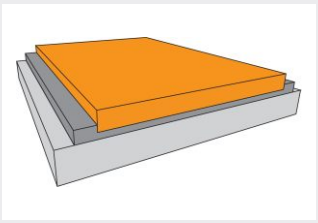
Load capacity: up to 70kg/cm²
Temperature range: -30°c to +120°c



FC SS 2530-MST
Counterfaced Bearing

2.5mm PTFE pad bonded to 3mm backing plate for tack welding, full welding or bolting. Counterfaced by a larger, mirror stainless steel plate.

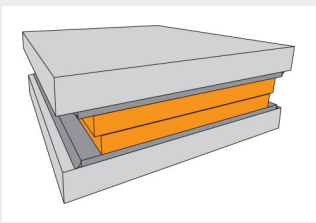
Load capacity: up to 70kg/cm²
Temperature range: -30°c to +120°c



FC SS 65-MS125T
Recessed Bearing

6.0mm PTFE pad contained in a recessed backing plate, finished for tack welding, full welding or bolting. Counterfaced by a larger, mirror finished stainless steel plate.

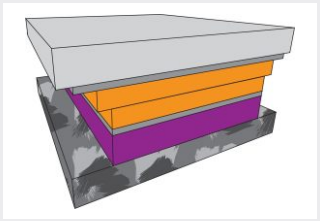
Load capacity: up to 280kg/cm²
Temperature range: -30°c to +120°c



FC 2530-MST
Tack Weld Bearing

2.5mm PTFE pad bonded to 3mm backing plate for tack welding. Welding lip surrounding PTFE.

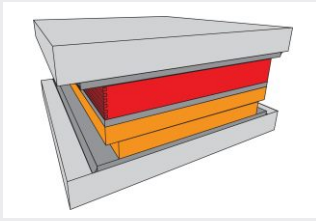
Load capacity: up to 140kg/cm²
Temperature range: -30°c to +120°c



FC 2530-SSVP125
Anti-Vibration Bearing

2.5mm PTFE pad bonded to 3mm backing plate for tack welding. 2.5mm PTFE bottom pad bonded to 12.5mm anti-vibration pad. Held in place by mechanical friction.

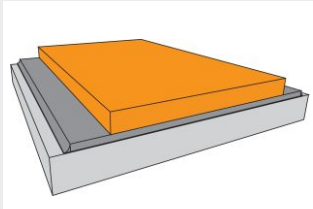
Load capacity: up to 70kg/cm²
Temperature range: -30°c to +120°c



FC 2530-MS250TI
Thermal Insulation Bearing

Used when the PTFE temperature could exceed +180°c. 2.5mm PTFE top pad bonded to 3mm backing plate, 25mm thermal insulator (Fluorex®) and 3mm mounting plate for tack welding or bolting. 2.5mm PTFE bottom pad bonded to 3mm backing plate for welding or bolting.

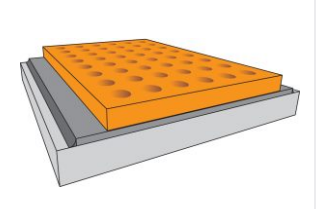
Load capacity: up to 140kg/cm²
Temperature range: -30°c to +120°c



TS 2530-STD
Skidway Plate

2.5mm PTFE pad bonded to 3mm carbon steel with 25mm welding lip for tack welding to skid beam.

Typical Size
Carbon steel: 500mm x 2000mm
PTFE: 450mm x 1950mm



JS 2530-SP
Dimpled Skidway Plate

2.5mm dimpled PTFE pad bonded to 3mm carbon steel with 25mm welding lip for tack welding to skid beam.

Typical Size
Carbon steel: 500mm x 2000mm
PTFE: 450mm x 1950mm