



**FLUOROCARBON**

### Technical Advantages of Fluoroglide® PTFE Skidways

- PTFE has the lowest coefficient of friction of any known solid 'engineering material' including lubricated metal
- There is no stick-slip action
- Fluoroglide® skidways have near infinite life, since chemicals and weather have no effect on PTFE - moisture absorption is less than 0.01% even under icing conditions or immersion and the material is chemically inert
- No maintenance is required. Fluorinoid® PTFE will never cold weld to itself
- Fluoroglide® skidways are easily installed or on-site
- Fluoroglide® PTFE skidways are less bulky than alternative assemblies
- There is no possibility of fatigue failure
- Small particles which may become embedded do not cause binding of the surfaces
- Fluoroglide® skidways can accommodate some misalignment in construction



**Fluoroglide® PTFE Skidways**

At Fluorocarbon we have been successfully designing and manufacturing bonded PTFE/metallic Fluoroglide® skidway plates for over 25 years. Our skidway plates are used in many construction yards throughout the world to assist in skidding oil jackets, modules and heavy structures. Jackets and decks with weights up to 30,000 tonnes have been successfully loaded out on Fluoroglide® skidway plates.

The Fluoroglide® range of skidways are based on the well proven and tested slide bearing manufacturing procedures which ensure low coefficient of friction and reliability in varying environments throughout the world.

Typical friction values are 5-10% for static breakout and 1-5% for dynamic skidding. These values are dependent upon the surface finish of the timber skid shoe, flatness of the installed skidway plates and the use of Fluoroslip®.

Actual values for coefficient of friction achieved during loadout of a 15000 tonne fabrication pulled by strain jacks were:

- Static breakout friction 8 - 12%
- Uneven loading 2 - 5%

These were achieved using timber skid shoes sliding on a Fluoroglide® skidways lubricated with FL 414/5. (see graph overleaf)

### Fluoroslip® FL415 Lubrication System

To reduce breakout friction we recommend the use of Fluoroslip® 415 and Fluoroslip® 414 with PTFE additive to aid effectiveness of our bearings. This combination of materials will reduce the initial static friction caused by:

- Long construction time
- Absorbent timber skid shoe
- Uneven loading
- Construction yard debris

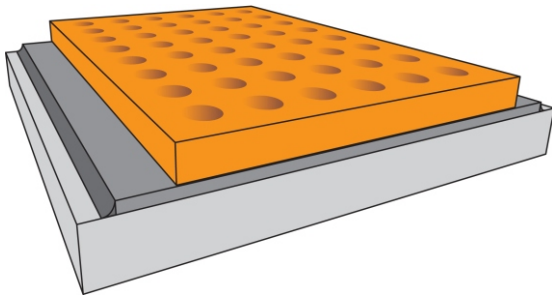
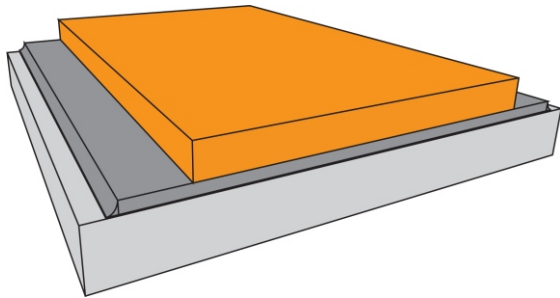


### The Skidway

We offer a range of skidway plates to suit all customer requirements and our fully experienced technical consultants are available for on-site discussions. A typical Fluoroglide® skidway plate comprises of 2.5mm Fluorinoid® PTFE hot bonded to a 3mm carbon steel plate with a 25mm welding lip, for on-site tack welding to prevent damage to the PTFE. All exposed metallic surfaces are primed to protect against corrosion.

## Typical Recommended Configurations (Other sizes available on request)

- Backing plates - generally carbon steel but any rigid structural material or free issue material



### Material Key

 Existing Substrate

 Fluorinoid® FL100  
PTFE/FL129 PTFE

 Carbon / Stainless Steel

### 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

### Typical Properties Of Fluorinoid® Materials

	FL100 Virgin PTFE	FL129 Reinforced PTFE
Specific Gravity	2.14 – 2.18	2.19 – 2.27
Tensile Strength MPa	20 – 28	14 – 20
Elongation %	200 – 350	160 – 300
Compressive Modulus MPa	415	770
Hardness Shore D	50 – 60	60 – 65

## Contact Us

For more information on our Fluoroglide® skidways or for advice on your specific configurations please contact our **design & technical engineers** today.

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