

## Tata Steel International (Australasia) Ltd

7 Bruce Roderick Drive, East Tamaki, Auckland 2013

Ph: (09) 271-1780

Fax: (09) 271-1799

Email: [architecture@tatasteelnz.com](mailto:architecture@tatasteelnz.com)



## ADVANTAGES OF TEXTURED STAINLESS STEEL

The range of Rimex Metals' products is diverse enough to cope with all types of specialised manufacturing demands.

The unique cold rolling process produces a three-dimensional pattern on flat sheet and coil. The patterns are scientifically designed to maximise strength in particular directions whilst giving greater impact and scratch resistance.

Here are some of the reasons for which Rimex Metals has been specified:

### ➤ **DAMAGE RESISTANCE**

All Rimex patterns will disguise scratches and dents, hence lengthening product life and reducing maintenance costs. The patterned surfaces thus lend themselves to anti-vandal applications or simply for use in high traffic areas. Oil rig modules, telephone boxes, lifts, cold stores and transport are examples of areas which benefit from our products in this way.

### ➤ **WEIGHT SAVING**

The process increases the strength to weight ratio of all type of ferrous, non-ferrous, coated and non-coated metals. This means where weight consideration is important thinner gauges can be used without sacrificing strength. Oil rig modules, ventilation, transportation and ducting industries use textured metals for these reasons.

### ➤ **LOW FRICTION SURFACES**

Patterns 5WL, 6WL & 7GM are being used for slides, dead plates and under conveyor belts. The reduced contact area helps to overcome friction problems. The postal, photographic, food processing & packaging industries have surmounted difficult problems when turning to our textured metals.

### ➤ **HEAT INSULATION & DISSIPATION**

Domestic appliance manufacturers use 6WL aluminium to keep down outer case temperatures. The increased surface area of 6WL helps to dissipate heat in exhaust systems and exhaust manifold protection plates.

### ➤ **BONDING & ADHESIVES**

Concave patterns give an increased surface area thus aiding bonding where foam filling techniques are used. Together with the possibility of using thinner gauge material, this represents an attractive proposition for bonded panels in architectural, cold store and general partitioning applications.

### ➤ **OPTICAL FLATNESS**

The textured surfaces break up light patterns to produce an optical flatness to sheets which overcomes the "oil can" effect that spoils the appearance of so many prestige buildings clad in satin or mirror polished stainless steel and other metals.

### ➤ **AESTHETICS**

Notwithstanding all the functional advantages, the patterns improve the appearance of products manufactured from textured metals.