RIMEX
METALS (AUSTRALIA) PTY LTD

6 Warringah Close, Somersby, NSW 2250 | Ph: (02) 4340 5599 | Fax: (02) 4340 5525
Email: sales@rimexmetals.com.au | www.rimexmetals.com.au

# WHAT ARE TEXTURED METALS?

The texturing process is a unique cold rolling process which produces a three dimensional pattern on flat sheet or coil.

Texturing provides a much greater torsional or buckling strength. The pattern results in a larger surface area, an extremely valuable property in connection with heat transfer or reflectivity.

Other advantages are imparted too. Greater impact resistance and tensile strength, optical flatness and a remarkable ability to disguise smudges and scratches are properties which have helped make Textured Metals so useful wherever strength and light weight are required.

## TEXTURED METALS FIRST FOR SUCCESS

### *ADVANTAGES OF TEXTURED STAINLESS STEEL*

Textured Stainless Steel retains all the properties and benefits associated with flat stainless steel (i.e. hygiene and corrosion resistant qualities etc...)

**Here are some of the reasons for which Textured Metals have been specified:**

### *Weight Saving*

The process increases strength to weight ratio. This means that where weight consideration is important, thinner gauges can be used and weight can be reduced by as much as 40% without sacrificing strength. This factor alone accounts for significant savings in materials costs, freight charges and handling. Oil rig modules, ventilation and ducting industries use Textured Metals for these reasons.

### *Damage Resistance*

All our patterns will disguise scratches and dents, therefore extending 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 the use of Textured Metals in this way.

### *Heat Insulation and Dissipation*

The increased surface area of 6WL helps to dissipate heat in exhaust systems and exhaust manifold protection plates.

RIMEX
METALS (AUSTRALIA) PTY LTD

# WHAT ARE TEXTURED METALS? (Continued)

***Low Friction Surfaces***

Reduced contact area of 5WL and 6WL patterns reduces friction and improves product and package flow on chutes, slides, dead plates and conveyors. The postal, photographic, food processing and packaging industries have surmounted difficult problems when turning to Textured Metals.

***Bonding and Adhesives***

Concave patterns give an increased surface area, thus providing a good key and aiding bonding where gluing and 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 products and buildings clad in flat surface stainless steels.

***Reflective Surfaces***

6WL and 8HP patterns have been successfully used to reduce glare in lamp and sunbed reflectors.

***Deep Drawing and Pressing***

The Textured process kills the springiness in metals, hence reducing the springback problem so often found in flat sheet.

Components subjected to deep drawing operations will have a better consistency of product, irrespective of work hardening variations in the metal used. The patterned surface actually improves metal flow to the point where a combination of reduced blank sizes and thinner gauges are possible.

***Cut Reject Rate***

Dents, scratches, burrs and other imperfections are obvious on flat metal surfaces. Textured Metal hides them, enabling a reduction in the reject rate. Textured Metal also hides welds, thus making weld clean ups quicker and easier.

***Aesthetics***

Not withstanding all the functional advantages, the patterns improve the appearance of products manufactured from Textured Metals.