

## Tinmill steels

### Beauty that is more than skin-deep

Corus Colorsteels, the UK's leading precoated steel service centre, can supply a full range of high performance tinplate and polymer coated steels. Available in a choice of tempers, gauges, finishes and special effects, these advanced materials not only look good, but also perform to the highest levels. Offering a unique combination of style, strength and formability, tinmill steels enable you to develop dynamic, hard-wearing products that will set you apart from the competition. This makes them the ideal solution for a wide variety of demanding consumer and industrial applications.

#### Product range

##### Electrolytic Tinplate (ET)

A low carbon steel coated with a thin layer of tin by electrolytic deposition, ET can be supplied in Single Reduced (SR) or Double Reduced (DR) form in a wide range of tempers, suitable for Drawn and Wall Ironed (DWI) and Draw Redraw (DRD). It can be supplied with an equal or differential coating in the range 0.5 to 11.2 g/m<sup>2</sup>.

ET is available in Bright, Fine Stone, Stone, Silver and Matt finishes, in a gauge range of 0.13mm to 0.49mm.

##### Electrolytic Chromium/Chromium Oxide Coated Steel (ECCS)

Also known as Tin Free Steel, ECCS is a low carbon steel coated equally on both sides with a complex layer of chromium and hydrated chromium oxide applied by electro deposition. This makes it especially suitable for lacquering. ECCS can be supplied with either a Fine Stone or Stone finish and is available in a gauge range of 0.13mm to 0.49mm.

##### Blackplate

An uncoated low carbon, mild steel, this is available in both Single and Double Reduced form in a gauge range of 0.13mm to 0.49mm.

##### Polymer coated steels

###### *Ferrolite® and Protact®*

High quality polymers are bonded onto a thin steel substrate either by film coating - Ferrolite, or direct extrusion - Protact. This results in high performance products that are scratch and corrosion resistant, and meet the most stringent hygiene and food safety standards.

Protact is available in white, gold and clear, in a gauge range of 0.1mm to 0.35mm. Ferrolite can be supplied in white, gold, clear, black and blue in thicknesses from 0.1mm to 0.45mm. Other colours are available by special arrangement.





### Promica® Lumiforme®

Developed specifically for lighting applications such as luminaires, fluorescent louvres and reflectors, Promica Lumiforme offers a consistent, mirror-like finish. Its total specular reflection is approximately 85%.

### Promica® Pristine

A unique, technically advanced product, Promica Pristine is protected by 'hardcoat' resins that give it exceptional resistance to marking, scratching and staining. Coupled with its lustrous, brushed steel finish, this makes it ideal for contemporary styled products in the home and office that can withstand the demands of day-to-day use. Its carbon steel substrate coated with chromium and chromium oxide provides excellent formability coupled with high strength levels.

### Promica® Chimera®

This holographic range of products has been developed for maximum aesthetic appeal and point-of-sale impact. It offers a highly creative and versatile medium for packaging consumer products. Graphics, embossing and printing can be combined easily to further differentiate packaging.

## Applications

These products are suitable for a wide range of packaging and non-packaging applications including:

- Food, beer and beverage cans
- Industrial and paint packaging
- Can ends, lids and other closures
- Domestic appliances, house and kitchen ware
- Electric and electronic parts and equipment
- Office furniture and equipment
- Ceiling systems, lighting and interior products

## Quality assured

We make every effort to ensure that these advanced steels reach you in perfect condition. Material is stored in climate-controlled conditions, inspected at every stage of handling

## Processing guide

	Width (mm) Max/Min	Gauge (mm) Max/Min	Length (mm) Max/Min	Tolerances
Slitting	1650 - 25	2 - 0.12	N/A	+/-0.125
Blanking	1830 - 200	1.6 - 0.25	6000 - 200	+/-0.20

Please consult Corus Colorsteels for details of services not listed

and processing, and carefully packaged for maximum protection during transport. This is backed by ISO 9001: 2000 accreditation.

## Technical support

Our technical experts are on hand to help your business take full advantage of these advanced tinmill products. Supported by the world-class resources of Corus Research, Development and Technology, they can advise on everything from material selection and performance to product design and formability.

## Processing

Material can be supplied to exact size and shape, ready for immediate production or fabrication. Whether you need slit coil, blanks, sheet or notched blanks, we can provide a fast, flexible service.

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