

Making strip steels work harder in office furniture

Corus has developed an unrivalled range of strip steels and services to help manufacturers of office furniture meet their commercial, technical and production goals and stay ahead in this highly competitive market.



Products

Our specialist Strip Products Service Centres can supply a full range of materials ideally suited to the volume production of office furniture and equipment. This includes zinc-iron alloy coated steels, hot dip/electro galvanised strip, hot rolled strip and cold reduced material. As well as standard products to EN 10130 (Cold rolled low carbon steel flat products for cold forming), high and ultra high strength cold reduced grades are available with yield strengths in excess of 500 N/mm². When the dynamic properties of these steels are taken into design calculations, it is possible to produce furniture, shelving and racking that is far lighter, or has a greater load bearing capacity, without compromising on safety, cost or performance.

Our Colors Service Centre can also supply pre-finished steels in a wide range of modern colours and finishes, including leather grain, designed to perform well and look good. These enable manufacturers to eliminate the costs of pre-treatment and post-painting, together with the risks associated with these processes. Durable and easy to maintain, pre-finished steels are widely used in office furniture, demountable partitioning and shelving.

Our materials provide the consistent mechanical properties, and improved surface quality and flatness demanded by today's high-speed production processes, and expected by the end-user. Thanks to an unparalleled combination of strength and flexibility they can easily be pressed or roll formed into complex shapes. Sustained investment in precision rolling and finishing technology, combined with demanding production and control processes, enables Corus to manufacture steels to extremely tight dimensional tolerances. Rolling to thickness tolerances half normal commercial values can be achieved if required.

Services

We are geared up to provide the highly responsive, flexible level of service which manufacturers need to succeed in today's competitive, fast-moving markets.

Our processing facilities enable us to supply material to exact size and shape; helping customers to optimise material usage and reduce costs, whilst improving productivity and quality.

For the cost-effective production of precision blanks, to a standard maximum length of 4000mm and a width tolerance of ± 0.25 mm, we have a number of multi-strand blanking lines. Flatness to within 3mm per metre length is guaranteed, provided this requirement is stated at the time of enquiry and order. Our centres also offer decoiling facilities, and the industry's most advanced high-speed slitting lines. These are capable of processing coil up to 2000mm wide in a gauge, range of 0.12mm to 8.0mm, to a width tolerance of ± 0.127 mm. In addition, we have the capability to handle a wide range of secondary processing requirements for small, narrow blanks.

Our processing facilities are maintained to the highest standards to ensure that material quality, surface finish and flatness is assured from the mill, during processing, to delivery. Great care is also taken during handling, packaging and storage to ensure that products reach customers in prime condition.

These resources are supported by tailored EDI, IT and logistics systems that enable us to check order status or stock availability instantly, minimise order lead times and maintain rapid, reliable deliveries on a J-I-T or scheduled basis as required.

Technical support

Corus Strip Products Service Centres work with customers from the development phase of projects to tailor our steels and technologies to meet their production needs and stringent end-product quality and performance parameters. We can draw on the world-class resources of Corus Research, Development and Technology, which offers practical testing and evaluation facilities and expertise in key areas including finite element analysis, fabrication, corrosion, welding, adhesives and mechanical fixings.

Product guide

Cold reduced products:

EN 10130:1999 Cold-rolled low carbon steel flat products for cold forming.

Cold reduced high and ultra high strength steels. Branded grades with guaranteed minimum tensile properties, i.e. minimum yield strengths of 250 N/mm², 280 N/mm², 350 N/mm², 420 N/mm², 500 N/mm² and higher.

Electro-galvanised products:

EN 10152:1994 Specification for electrolytically zinc coated cold rolled steel sheet products.

All of the above products are supplied to tolerances as set down in EN 10131:1991

Hot rolled products to:

EN 10111: 1998 Hot rolled low carbon steel sheet and strip for cold forming.

EN 10025:1993 Hot rolled products of non-alloy structural steels, including S275JR, S275JO and S355JR

Such materials can be supplied either as unpickled or pickled and oiled plates.

EN 10149-2:1996 Hot rolled flat products made of high yield strength steels for cold forming. These are HSLA steels: Corus's branded products Tenform and YMPRESS comply with this specification.

The tolerances which apply to these products are set down in EN 10151:1992.

Bespoke grades are also available.

Hot dipped galvanised products:

EN 10142:2000 Continuously hot-dip zinc coated low carbon steel strip and sheet for cold forming.

EN 10147:2000 Continuously hot-dip zinc coated structural steel strip and sheet.

Branded extra and ultra high strength hot-dip galvanised steels are also available.

All of the hot-dip products are supplied to tolerances as set down in EN 10143:1993

Pre-finished steels:

Corus has developed three types of coating systems that can deliver a vast range of different colours, gloss levels, finishes, patterns and special effects, as well as specialised performance properties:

- Colorcoat is a liquid-applied paint system
- Stelvetite is a polymer-film laminate bonded to the steel substrate
- Colorstelve is a liquid-applied system, topped with a polymer-film laminate

The reverse sides of these products have a standard polyester coating. Additional coatings are available to meet a variety of performance requirements.

Formable substrates are available in metallic coated steels and in cold-reduced steels, which can now be used in a greater number of applications.

Processing capacity

	Gauge (mm)	Width (mm)	Length (mm)
Multi-strand blanking	0.30 - 3.2	140 - 2000	200 - 4000
Slitting	0.12 - 8.0	12 - 2000	N/A
Decoiling	0.30 - 3.2	50 - 2000	100 - 9000
Shearing	0.40 - 6.0	25 min	3000 max
Notching and piercing	Please consult Corus for details		
Polymer film coating	Please consult Corus for details		

For requirements outside of these dimensions please consult Corus.

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