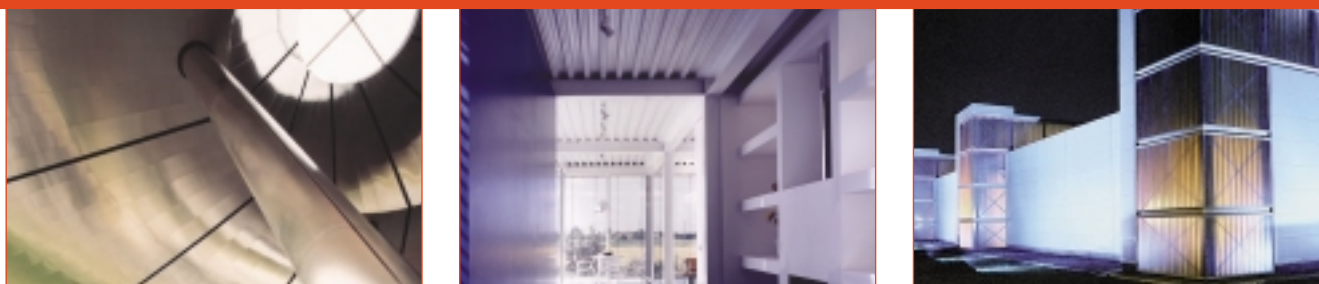


Making strip steels work harder in construction

Corus has developed the most comprehensive range of materials, systems and support services available from a single source, for the construction industry. This includes a huge range of strip steels, which are an essential ingredient in the structure, envelope and components of all shapes and sizes of building.



Products

Steel is the most versatile material available to the construction industry. Light, yet immensely strong, it offers the aesthetic and performance properties that make it the material of choice for architects and engineers.

Our steels have always played an important role inside buildings. Today, designers are making them more visible than ever by using their strengths to create new dimensions of space and efficiency. From the mundane but vital non-slip Durbar floorplate and hot rolled strip for decking and flooring, to cold reduced, hot-dip and electro-galvanised material for ducting, trunking, purlins, lintels and panelling, steel provides a cost-effective solution. 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 building components that are far lighter, or have a greater load bearing capacity, without compromising on safety, cost or performance.

Corus pioneered the use of organic-coated steels that enhance the scope of architectural design. Today over a dozen major organic-coated steel products are available for the construction industry, including dedicated materials for roofing, flashings and cladding, and internal applications such as partitions and doors. The long-established Colorcoat brand includes metallic-finish Colorcoat Celestia and Colorcoat HPS200, which is available in a huge palette of colours, and is backed by a written guarantee. In addition, there are fluorocarbons, polyesters and polyurethanes. Organic-coated steels provide superior durability and can last up to 30 years; a period which can be extended significantly with subsequent over-painting.

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. 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. And, thanks to an unparalleled combination of strength and flexibility, they can easily be pressed or roll formed into complex shapes.

As part of Corus we benefit from reliable supplies direct from the mill. In addition, we can source products from other leading metal producers if required.

Services

Corus Strip Products Service Centres are geared up to provide the highly responsive, flexible level of service which fabricators, section rollers and component manufacturers need to succeed in today's fast-moving construction industry. 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 +/-0.25mm, 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 +/-0.127mm.

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 provides comprehensive technical advice and support for all tiers of the construction industry. Our advisory engineers can help specifiers and engineers with problems related to structural work which may arise during design and construction. They also act as a point of contact between customers and the dedicated Corus Construction Centre, which offers specialist knowledge of fire resistance, corrosion, protection, metallurgical problems and welding.

We can also offer advice and support on critical issues such as the efficient selection, use and integration of building elements, site scheduling, waste minimisation and the incorporation of environmental considerations, as well as material processing, product specification and purchasing. This is backed by the world-class resources of Corus Research, Development and Technology, which offers practical testing and evaluation facilities and expertise in other key areas such as finite element analysis and fabrication.

For customers using, or wishing to use, pre-finished steels, specialised support is available from the Product Development team at our Colors Service Centre. Additionally, the mill's own research and development centre has expertise in steel and paint chemistry and product design, and can create bespoke colors and finishes.

The involvement of our experts from the early stage of projects can save customers time and money, and results in optimally-designed buildings and products, which capitalise fully on steel's versatility.

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-dip 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 galvanized steels are also available.

EN 10154:1996 Continuously hot-dip aluminium-silicon (AS) coated steel sheet and strip

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

Pre-finished steels:

Corus has developed a range of organic-coated materials for all applications within the construction industry. These are available in a huge range of colours, gloss levels, finishes, patterns and special effects, and offer specialised performance properties:

- Colorcoat HPS200
Offers a thick, tough coating, exceptional durability, superb cut-edge performance, wide colour range and a unique Scintilla finish. Backed by a written, transferable guarantee. Also available double-sided.
- Colorcoat HPS200C
Colorcoat HPS200 with a thicker (100µm) coating on the reverse side, giving greater protection against corrosion.

- **Colorcoat Celestia**
Metallic-finish in a relatively thick coating. Available in six metallic colours, backed by a written, transferable guarantee.
- **Colorcoat pvf2**
Offers good durability in high UV environments.
- **Colorcoat Hyclad**
A Colorcoat pvf2 coating on stainless steel giving very high durability with 10 colours.
- **Colorcoat Architectural Polyester**
Economy with 13 colours.
- **Colorcoat Silicone Polyester**
Hard surface, good durability.
- **Colorcoat Pastel-Line Lining Enamel**
Dedicated lining tray and lining panel product.
- **Corus Armacor**
High-build Polyurethane coated. Performance guaranteed.
- **Corus Versacor**
Available with either a high-build polyurethane topcoat or pvf2 topcoat. Performance guaranteed in the UK.
- **Colorfarm AP**
For high-humidity farm buildings. Offers guaranteed internal durability, an extra thick hot-dip galvanised coating (350g/m²).
- **Ruralclad**
Farm building material for low-humidity farm buildings.
- **Colorcoat CES and Stelvetite CES**
Products for cladding the surfaces of cold stores, food preparation areas etc.

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. Durbar floorplate is also supplied to this European specification.

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.

Sound deadening products:

Sontech sound deadening metal can reduce noise by up to 30 dB(A). Its composition of two metal skins bonded together with a visco-elastic polymer is proven to be highly effective at absorbing noise produced by impact and panel resonance.

- Available in wide range of steels or combinations of materials e.g

hot-dip/electro galvanised, stainless steel/aluminium, pre-painted/zinc-alloy coated

- A variety of colours and decorative finishes is available
- Wide range of composite gauge ranges from 1mm - 4mm
- Standard sheet size - 2500mm x 1250mm. Other sizes available on request.

Processing capacity guide

| | Gauge (mm) | Width (mm) | Length (mm) |
|-----------------------|----------------------------------|-------------------|--------------------|
| Multi-strand blanking | 0.30 - 3.2 | 140 - 2000 | 200 - 15,000 |
| Slitting | 0.12 - 8.0 | 12 - 2000 | N/A |
| Decoiling | 0.30 - 13.0 | 50 - 2000 | 100 - 18,000 |
| Shearing | 0.40 - 13.0 | 25 min | 6500 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.

www.corus-servicecentres.com

Contacts for further information

Corus Service Centre - Blackburn

T +44 (0) 1254 55161

Corus Strip Processing Centre - Wednesfield

T +44 (0) 1902 484200

Corus Colorsteels - Oldbury

T +44 (0) 121 552 4022

Corus Colorsteels - Cross Keys

T +44 (0) 1495 279100

Corus Service Centre - Caldicot

T +44 (0) 1291 421732

Corus Service Centre - Colnbrook

T +44 (0) 1753 683131

Corus Service Centre - Lisburn

T +44 (0) 28 9266 0747

Corus Service Centre - Dublin

T +353 (0) 1405 0300