Wuppermann

Flat Products

Steel. For 150 years.
For 150 years, the name Wuppermann has stood for quality in the processing and finishing of steel. Since its founding in 1872, the medium-sized family business has pursued a strategy of long-term, sustainable growth and consistent value creation in the interests of its customers, employees and shareholders. In recent decades, Wuppermann has developed from a steel processor into an innovation leader in corrosion protection.

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Wuppermann | Flat Products

Flat products from Wuppermann

Hot Dip Galvanized Strip Steel

Pickled Strip Steel

Edge Galvanizing & Foil Coating

Re-Rolling & Rounding Off

Low CO2 Product WTopCarb

Zinc-Magnesium Product WZMax

Hot dip galvanized strip steel as wide strip or slit strip

It all starts with high-quality hot-rolled steel strip, which we pickle, hot-dip galvanize, slit and, if required, cold-roll. The result of these processes is a starting material that can be further processed by our customers in a variety of ways.

Wuppermann supplies flat products to customers throughout Europe and from numerous sectors via a well-established production and sales network. In particular, companies from the automotive, construction, furniture, profile, silo and solar industries value our high-quality strip steel.

In the field of hot-dip galvanized strip steel, Wuppermann offers the highest corrosion protection with the lowest CO2 emissions.

Wuppermann | Flat Products

The products of Wuppermann are used in the most diverse sectors of industry

// Furniture industry
// Solar & energy technology
// Storage technology
// Silo construction
// Profile production
// Construction
// Environmental engineering
// Automotive industry
// Vehicle restraint systems

Refined technology guarantees comprehensive corrosion protection

Hot-dip galvanized steel is corrosion-protected and therefore particularly durable.
With our strip galvanizing plants at locations in Austria, the Netherlands and Hungary, we comprehensively cover the requirements for holistic corrosion protection.

Details of the dimensions, steel grades and tolerances

Steelgrades

Soft steels for cold forming	EN 10346 DX51D+Z; DX52D+Z;
Steels for use in construction	EN 10346 S220GD+Z; S250GD+Z; S280GD+Z; S320GD+Z; S350GD+Z; S390GD+Z; S420GD+Z; S450GD+Z;
Steels with higher yield strength for cold forming	EN 10346 HX260LAD+Z; HX300LAD+Z; HX340LAD+Z; HX380LAD+Z; HX420LAD+Z; HX460LAD+Z; HX500LAD+Z
Special features*	Special steels and steels with special alloys (e.g. >S500GD, >HX550LAD) upon request

*) not in standard EN 10346

Wuppermann | Flat Products | Hot Dip Galvanized Strip Steel

Dimensions and form tolerances

Strip thicknesses	1.5 - 6.00 mm according to EN 10143
Strip widths	20 - 1,650 mm according to EN 10143
Special features	tightest thickness tolerances up to +/- 0.02 mm

Zinc coatings

Coating masses	50 - 1,300 g/m2
Composition of coating	Z (pure zinc) ZM (zinc-magnesium)
Coating finish	M (minimized spangle)
Types of surface	A (normal surface) B/C (rerolled surface
Option: galvanized longitudinal edges	from 58 (50**) - 420 mm strip width from 600 - 1,650 mm strip width
Differential galvanization of the strip surfaces	in a ratio up to 2:1

Surface roughness

Skin-passed or cold rerolled surface	up to 6.00 mm thickness
Surface finish	upon request (bright/semi-bright/normal/rough)

Rounded strip

Strip thicknesses	1.50 - 6.00 mm
Edge form	(**)

**) upon request

Current Delivery Programmes

WProtect: The coating system with a zinc layer and a high-performance film

A high-performance film is additionally applied to the hot-dip coated steel strip with strip widths from 600 mm. The steel core is thus even better protected against corrosion and offers reliable and long-term protection for the finished product.

A polyolefin film is laminated onto both sides of the steel strip immediately after galvanizing. The process-optimised interaction of temperature and pressure during production ensures a strong bond between the film and the galvanized strip.

„WProtect“ defies practically all corrosion attacks. Neither moisture, mechanical abrasion nor numerous chemicals can harm this coating system. Decades of undamaged use, for example in sewage technology, prove this optimal corrosion resistance of processed steel.

Film-Coated, Hot-Rolled Strip – WProtect

Strip thicknesses	1.50 - 4.00 mm (> 4.00 mm upon request) according to EN 10143
Strip widths	100 - 855 mm (< 100 mm upon request) according to EN 10143
Film thickness	0,30 mm
Film color	black or grey (other colors upon request)
Zinc coating masses	100 - 800 g/m2
Steel grades	see Hot-Dip Galvanized Strip

WZMax: Best corrosion protection thanks to zinc-magnesium

Wuppermann produces steel strip with maximum corrosion protection using WZMax. WZMax is produced in Wuppermann‘s continuous strip galvanizing lines using the so-called „heat-to-coat process“. The high level of corrosion protection results from the special chemical composition, which in addition to zinc consists of approx. 3% magnesium and approx. 3.3% aluminum. This creates a stable, dense and long-lasting protective layer that allows the steel to be used in the most adverse environments.

WZMax scores with significantly lower CO2 emissions and resource conservation. Added to this are positive properties during further processing, such as increased protection at cut edges and scratches thanks to a „self-healing“ effect.

WZMax is therefore the preferred material for steel beams on photovoltaic fields. Thanks to its enormous corrosion resistance, WZMax is also used, for example, in silos as well as for road guard rails and in the construction industry. Wherever extreme conditions prevail, WZMax is the best solution with overlays of up to 1,200 g/m2.

WTopCarb: Galvanized strip steel with reduced carbon footprint

At Wuppermann, WTopCarb stands for a galvanized hot strip with a physical reduction of the CO2 footprint to a value of less than 1 t CO2-eq. / t galvanized hot strip.

Wuppermann calculates the CO2 emissions for each invoice item individually depending on the quantity of galvanized steel strip delivered, taking into account the individual weight ratio of steel to zinc. The calculation methodology used in this process was tested by the Fraunhofer institute UMSICHT and its correctness confirmed. The result of the calculation is communicated in the form of a certificate issued by Wuppermann.

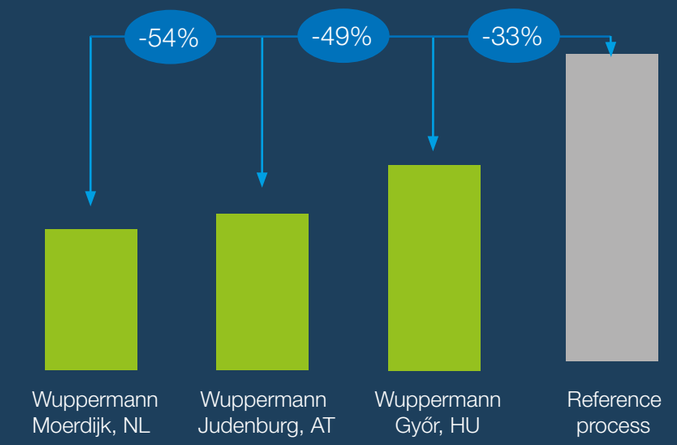
Sustainable production as part of our self-image

STEEL | ENVIRONMENT PROTECTION

At Wuppermann, we understand sustainability to be a form of ecological and economic action that ensures comparable or better living conditions for present and future generations. As a family-owned company with a long tradition, we feel an obligation to future generations and set ourselves ambitious and concrete goals in climate protection: The production process for the Wuppermann Group is to be 100% CO2 neutral by 2025.

Heat-to-coat process from Wuppermann saves up to 54% CO2

In an investigation with the Fraunhofer UMSICHT Institute, it was possible to determine:
The galvanizing process including post-treatment and zinc causes 0.080 t CO2-eq./t at the Moerdijk site in the Netherlands (WSN). The reference process causes CO2 emissions of 0.173 t CO2-eq./t. This now results in a CO2 saving of 54%. The Judenburg site in Austria (WA) produces 0.089 t CO2-eq./t CO2 emissions, which corresponds to an advantage of 49%. At the Győr site in Hungary (WH), CO2 emissions amount to 0.116 t CO2-eq./t, which corresponds to an advantage of 33%. This includes the emissions from the production of the zinc and electricity consumed.
The environmental impact of the hot strip input material is not included in this calculation.



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