

5. Coated steel

5.1. HOT-DIP GALVANIZED STEEL

Hot-dip galvanized rolled steel is intended for cold forming, painting, manufacturing of formed components, houseware, packaging materials and other metal components.

Applications:

- industrial facility and office building construction, individual and mass residential construction, interior decorating, infrastructure facility construction (bus stop pavilions, sales outlets, other);
- manufacturing of home appliances, furniture;
- automotive industry.

Components and materials:

- corrugated sheet, roofing materials, formed sections and beams for pre-fabricated buildings and installations;
- ventilation systems;
- automotive body parts.

The rolled steel is produced on three continuous hot-dip galvanizing lines using state-of-the-art materials and equipment. Zinc coating ensures high degree of corrosion protection. Rolled steel is produced with a wide range of mechanical properties of base steel.

During the delivery to the customer and till the moment of recycling zinc coating is protected from "white corrosion" by oiling and chemical passivation. There is the possibility to apply passivating coatings on the basis of Cr^{6+} , and coatings without Cr^{6+} (execution of EU directives).

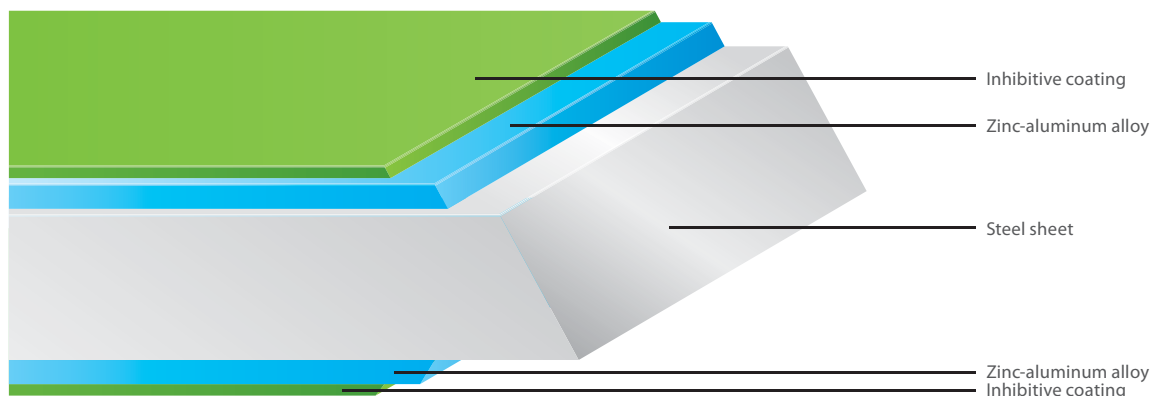


Figure 5.1. Coating structure

5.1.1. Cold-rolled hot-dip galvanized steel

Dimensions:

Thickness:	0.35–2.0 mm
Width:	900–1800 mm
Slit width:	100–850 mm
Coil ID:	600 ^{±10} , 500 ^{±10} mm
Coil weight:	5–15 t
Sheet bundle weight:	up to 10 t
Sheet length:	1500–3500 mm

Surface quality of cold-rolled hot-dip galvanized steel is in compliance with GOST R 52246 as well as with requirements for groups "A", "B", "C" under EN 10327:2004 (EN 10142), EN 10326:2004 (EN 10147), EN 10292:2005.