



PRE-PAINTED STEEL HRV



The name “HRV” identifies a prepainted steel with high scratch resistance and superlative UV stability. The paint cycle is a combination of high thickness anticorrosive primer and a polyurethane top coat added with ceramic and acrylic beads that guarantee a very good resistance to the external aggression.

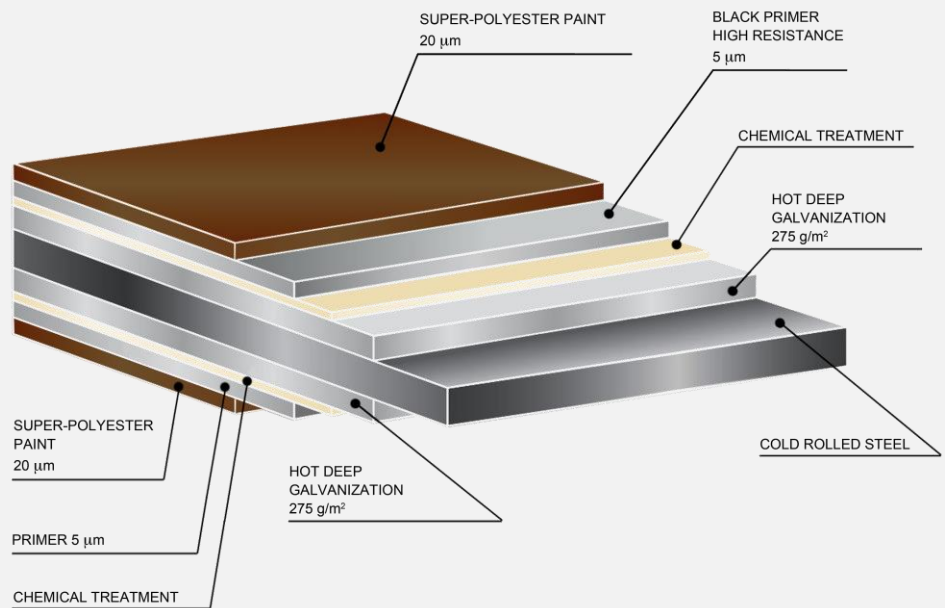
This finished product has been **mainly developed for roofing and cladding installed in high altitude**, where irradiation and thermal shock could be severe. It is mainly used in the field of the housebuilding, particularly for walls at sight, coverages, sandwich panels and gutter.

Steel substrate is covered by 275 gr/sqm of zinc, thus with an average foreseen duration of at least 15 years*.

PHYSICAL CHARACTERISTICS

Cold rolled steel, depending on the final quality required by customer, is subject to hot dip galvanizing as per norm EN 10346 with zinc coverage of 275 gr/mqs. The painting cycle foresees a non-chrome treatment of nitro-cobalt salts and a passivation of zirconium salts of the galvanized steel. This set of treatments will support the application of 5 µm of black primer high resistance and 20 µm of super-polyester paint to form a total dry layer of nominal 25 µm of organic protection.

For the lower side the is provided the same painting cycle used on the upper side.



THICKNESSES, CATEGORIES OF CORROSION RESISTANCE AND RUV CLASS ACCORDING TO EN 10169

CYCLE	THICKNESS mm	Zn COVER	PRIMER THICKNESS	TOP COAT THICKNESS	CORROSION RESISTANCE	RUV CLASS
HRV	0,55	Z275	5 µm	20 µm	RC3	RUV 4

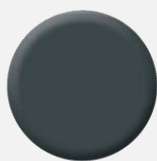
(*) Provided both Parties have reached an agreement and in presence of our evaluation of the installation site.

CHEMICAL AND QUALITY CHARACTERISTICS

Salt spray resistance <i>(EN 13523-8)</i>	The test is performed with reference and according to Euro Norm and does not allow for blisters on the cross more than 2 mm per edge (total 4 mm) and, on the surface, more than the degree 8 from the ASTM D714 scale after 500/750 hours exposure.
Umidity resistance <i>(EN 13523-25)</i>	The test is performed with reference and according to Euro Norm and does not allow for blisters more than the degree 8 from the ASTM D714 scale after 1000/2000 hours exposure.
T-bend test <i>(EN 13523-7)</i>	The test determines the adhesion of the paint to the steel which must not exceed 1,0 T, and it is performed by tearing with adhesive ribbon the bending itself and the elasticity of the paint that must not crack over 1,5 T.
Specular gloss <i>(EN 13523-2)</i>	Measured with a gloss-meter having the incidence radius of 60° and must be within 15 ± 10 gloss.
Hardness <i>(Scratch Test EN 13523-12)</i>	It is measured according the Euro Norm and has to be not less than 2.5 kgs
Resistance to solvent <i>(EN 13523-11)</i>	After 100 double rubbing (50 for metal colours) with cotton pad, soaked in Mek (metil-etilchetone) and pressure of about 1 Kg, the paint must not show any discrepancy nor defect.



AVAILABLE COLOURS



GRAY
ANTHRACITE



GRAY
7037



TESTA
DI MORO

WARRANTY PERIOD IN TERMS OF NOT-PERFORATION AND NOT-PEELING OF PAINT

HRV	WARRANTY (years)	ENVIRONMENT (corrosion resistance class)		ALTITUDE* (m.s.l.m.)				
		RC2	RC3	up to 900m	from 900m to 1300m	from 1300m to 1700m	from 1700m to 2100 m	over 2100 m
SIDE	Corrosion	15	12	100%	90%	70%	50%	Not automatic, to be evaluated
	Adhesion	10	8	100%	90%	70%	50%	
ROOF	Corrosion	15	10	100%	90%	70%	50%	Not automatic, to be evaluated
	Adhesion	10	5	100%	90%	70%	50%	

*over 42° lat. Nord