

MPS100 painting system

The "MPS100 system" identifies a prepainted steel with PVC resin (polyvinyl chloride) thus granting the highest quality of the finished product, suitable to satisfy special needs, as material workability, chemical resistance and mechanical specification of higher flexibility; is mostly used for walls, coverage and sandwich panels which will be installed, indoor.

Physical characteristics

Cold rolled steel, depending on the final quality required by customer, is subject to hot dip galvanizing as per euro-norm.

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 7 µm of primer and 120 µm of PVC paint to form a total dry layer of nominal 127 µm of organic protection. For the lower side the application of 5/7 µm of foamable backcoat is foreseen or, under specific request by the customer, of the same painting cycle used on the upper side.

Chemical and quality characteristics

Salt spray resistance (EN 13523-8)	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 hours exposure
Humidity resistance (EN 13523-25)	The test is performed with reference and according to Euro-norm and does not allow for blisters on the cross more than the degree 8 from the ASTM D714 scale after 1000 hours exposure
T-bend test (EN 13523-7)	The test determines the adhesion of the paint to the steel which must not exceed 1 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 (EN 13523-2)	It is measured with a gloss-meter having the incidence radius of 60° and must be within 25 ±5 gloss