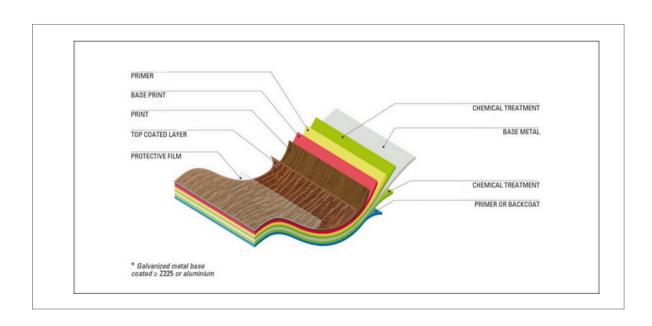


TECHNICAL FEATURES





Super polyester pre-painted support





CAP HD+

is the new and innovative product that revolutionizes the market of pre-coated steel. Our research and development department has developed an organic coating with exceptional technical features and extraordinary aesthetic qualities. The base metal, aluminium or hotdip galvanised steel (zinc coating minimum Z225) which constitutes the support of the product, is firstly treated chemically. Several layers of polyester paint are subsequently applied on the basis of the final product. The product can be of solid colour or printed. The total thickness of the organic coating can reach 50 microns. The printed coating simulates complex materials such as a wood, wall, cotto tile or Cor-ten effect.

METALLIC SU	<u>JBSTRATES</u>
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Hot-dip galvanised steel (zinc coating minimum Z225) with guarantee

Aluminium (with guarantee)

COATING OF	UPPER FACE
Solid colour	25-35 µm organic coating
Printed	30-50 µm organic coating
	Self-adhesive protection film available only on some finishes (To be removed as soon as possible and in any case within 6 months from the date of production Varcolor Srl). Protection Films not applicable on finishes 108 and 122. In the absence of a protective film, the customer assumes the responsibility for any pressure marks and small defects arising from your production process. The suitability of the protective film for its production process / finished product must be confirmed by the customer through specific tests.
BACKSIDE C	OATING
	3-5 micron thick primer, suitable for foaming/gluing with PUR or glues (all foaming/gluing tests have to be performed by the customer and are on his behalf)
On request:	- Coloured backing-coat 10-12 micron (+/- 2 μ) - 10 micron thick primer, please do refer to what mentioned in UNI EN 10169.

MEASUREMENTS	
Substrate thickness	From 0.30 to 2 mm
Substrate aluminium th.	From 0.50 to 2 mm
Max. coil size	1500 mm
Min. coil size	700 mm
Coil ID	500 mm
Max. strip width	1500 mm
Min. strip width	19 mm
Max. sheets size	1500 x 6000 mm

[#] minimum thickness x sheet cutting process 0.45mm



GENEF	GENERAL FEATURES		Test results				
CG.1	CG.1 Colour		Colour consistency cannot be instruments but only visually-uniformity it is advisable to wo manufacturing campaigns	-to obtain a better			
		Tinte unite Solid colours	□ ORANGE/RED/YELL	/N/GRAY: DE MAX 1,50 OW : DE MAX 2 blo controllo visivo per			
CG.2	Gloss level	UNI EN 13523-2	Range gloss ≤ 10 >10 ≤ 20 >20 ≤ 40 >40 ≤ 60 >60 < 80 □ 80	matt low gloss satin semi-gloss gloss high-gloss			
CG.3	Maximum temperature range for end use	-20 °C + 70 °C	No significant change				

МЕСНА	MECHANICAL FEATURES			Test results
CM.1	Adhesion after drawing 6 mm	dhesion after drawing 6 mm		Good
CM.2	Adhesion after cupping (all products)		UNI EN 13523-7	≥IT
CM.3	Pencil hardness		UNI EN 13523-4	F-H
CM.4	Resistance to cracking on bending (T-bend test))	UNI EN 13523-7	
	Hot-dip galvanised steel	Thickness ≤ 1 mm Thickness > 1 mm Thickness ≤ 1,20 mm		≥2 T free of cracks
	Hot-dip galvanised steel			≥3 T free of cracks
	Aluminium			≥2 T free of cracks
	Aluminium	Thickr	ness ≤1,20 mm	≥2 T free of cracks
	Aluminium	Thic	kness ≤2 mm	not given gurantees
	Aluminium	Thic	kness ≤1 mm	≥2 T free of cracks
	Aluminium	Thickness ≤2 mm		not given gurantees
CM.5	Surface scratch resistance	•	UNI EN 13523-16	Weight loss 30-35 square mm
СМ.6	Resistance to rapid deformation (impact test)		UNI EN 13523-5	16 J no visible cracks using a magnifying lens 10x

(*)In order to avoid possible problems of colour consistency while manufacturing a single order, it is advisable not to use coils coming from different batches.



(**) Test results refer to quality, alloy and hardness of aluminium as shown by Varcolor. Results relating to other materials/quality have to be agreed upon and specified at the time of the order. In case of materials supplied for subcontracting, the tests must be agreed between the parties. Unless otherwise agreed, the bending test is carried out vertically along the rolling direction.

AL-PHISYCAL FEATURES	Test standards	Test results
Resistance to fluorescent UV light and water condensation	UNI EN 13523-10	D 11 1 2 2000 611 1 11 11V
	Printed	Residual gloss > 80% of the baseline UV resistance category RUV 4 2000 h UVA 340
	Solid colours	Residual gloss > 50% of the baseline UV resistance category RUV 3 Non ci sono perdite di adesione o bolliture
Resistance to water	UNI EN 13523-9	No loss of adhesion or bubbles
Corrosion resistance	UNI EN 13523-8	
Hot-dip galvanised steel ,zinc coating minimum Z225 Aluminium		500 h creepage max 2 mm no blisters
		1000 h without penetration
Resistance at 100% relative humidity		1.000 h no blisters
Hot-dip galvanised steel	UNI EN 13523-26	1.000 h no blisters
Aluminium		1.000 h no blisters
	Resistance to water Corrosion resistance Hot-dip galvanised steel ,zinc coating minimum Z225 Aluminium Resistance at 100% relative humidity Hot-dip galvanised steel	Resistance to fluorescent UV light and water condensation Printed Solid colours Resistance to water Corrosion resistance Hot-dip galvanised steel ,zinc coating minimum Z225 Aluminium Resistance at 100% relative humidity Hot-dip galvanised steel UNI EN 13523-26

(***) Test results refer to the quality of aluminium as shown by Varcolor. Results relating to other materials/quality have to be agreed upon by the parties.

In case of materials supplied for subcontracting, the tests must be agreed between the parties.

CERTIFICATIONS		Test norms	Test results
CER.1	Reaction to fire classification for building products	EN 13501	Classification A1
CER.2	Marine Equipment Certification according to European MED Directive	European Directive 2014/90/EU	Certificate MED B and MED D

CLEAN	ING INSTRUCTIONS FOR CAP HD+		
P.1	General rules	P.2	Removal of small stains
	In order to clean the surface please use only water and neutral soap. It's advisable to use a soft cloth, rinsing and drying up the surface with care. Please avoid using cleaning agents containing abrasive particles.		Surface stains can be removed using mineral turpentine or denatured alcohol.



WAREI	HOUSING AND PROCESSING CAP HD+
D.1	Coils or pallets of precoated materials should be stored under a roof and in places not subject to big changes of temperature in order to avoid the possibility of condensation.
D.2	Materials protected with peeling film for temporary protection must be placed far away from heat/humidity sources and not exposed to direct solar rays. The protective peeling film should anyway be removed within and not later than 6 months from mill's manufacturing date.
D.3	During transport the material must be protected from moisture and condensation. It must be loaded on vehicles in such a way as to ensure protection from collisions, abrasions and overturning.
L.1	Precoated materials should be preferably utilized (within six months from reception) and using appropriate machines to avoid abrasions, scratch, cuts, marks on the film surface and/ or cracks of the same or even of the zinc layer.
L.2	During rollforming or bending it is necessary that the tools should contemplate not only the thickness of the material itself but also the possible tolerances so as to avoid relaminations.
L.3	As far as flatness of strips and coils is concerned, please do refer to what mentioned in UNI EN 10143.
L.4	The ideal temperature at which materials must be formed or bent or punched should be around 18° C.

Production range:

Cold rolled steel Electrogalvanized steel HDG steel		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
	700/800	•	•	•	•	•	•	•	•	•	•	•
	800/900	•	•	•	•	•	•	•	•	•	•	•
Œ	900/1000	•	•	•	•	•	•	•	•	•	•	•
m) r	1000/1100	•	•	•	•	•	•	•	•	•	•	•
Width (mm)	1100/1200	•	•	•	•	•	•	•	•	•	•	•
>	1200/1300	•	•	•	•	•	•	•	•	•	•	
	1300/1400		•	•	•	•	•	•	•	•		
	1400/1500		•	•	•	•	•	•	•	•		



Stainles	inless steel Thickness (mm)											
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
	700/800		•	•	•	•	•	•	•	•	•	
	800/900		•	•	•	•	•	•	•	•	•	
<u></u>	900/1000		•	•	•	•	•	•	•	•	•	
Width(mm)	1000/1100		•	•	•	•	•	•	•	•	•	
idth	1100/1200		•	•	•	•	•	•	•	•	•	
×	1200/1300		•	•	•	•	•	•	•	•		
	1300/1400			•	•	•	•	•	•	•		
	1400/1500			•	•	•	•					
Alumin	ium	Thickness (mm)										
, ""		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
	700/800			•	•	•	•	•	•	•	•	•
	800/900			•	•	•	•	•	•	•	•	•
	900/1000			•	•	•	•	•	•	•	•	•
<u></u>	1000/1100			•	•	•	•	•	•	•	•	•
Width (mm)	1100/1200			•	•	•	•	•	•	•	•	•
	1200/1300			•	•	•	•	•	•	•		
	1300/1400				•	•	•	•	•	•		
	1400/1500				•	•	•	•	•	•		

If the processing carried out does not comply with the parameters indicated, the customer assumes responsibility for the processing carried out.

cceptance	
Pate :	
ompany stamp :	
lame and signature of the authorised person :	