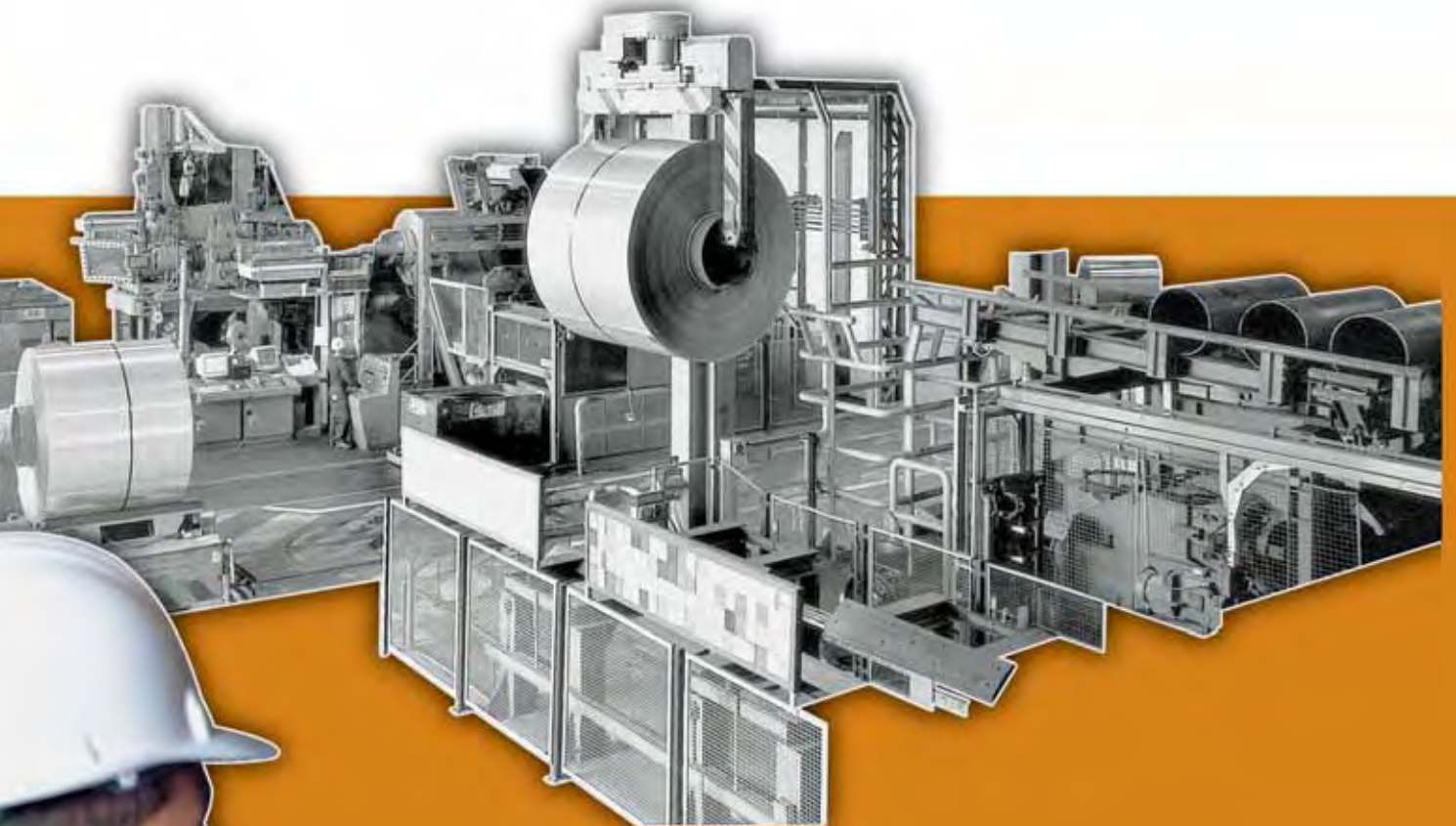




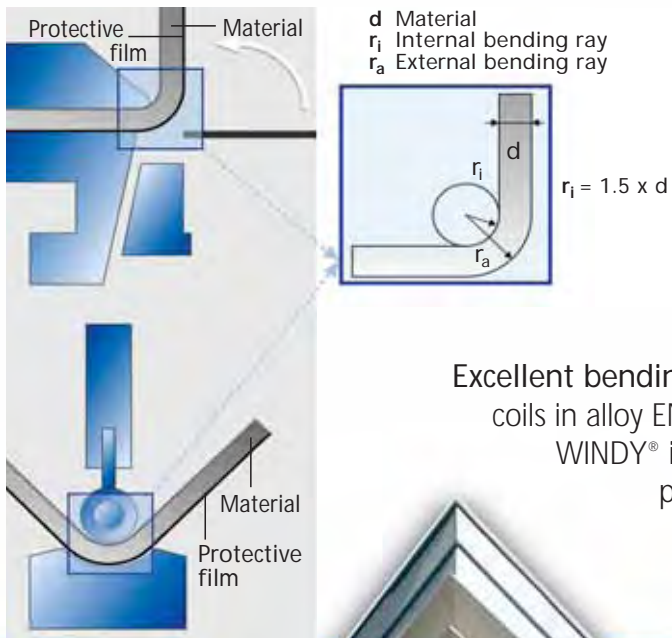
WINDY®

Prepainted aluminium sheet
polyamide paint for building
and industrial applications



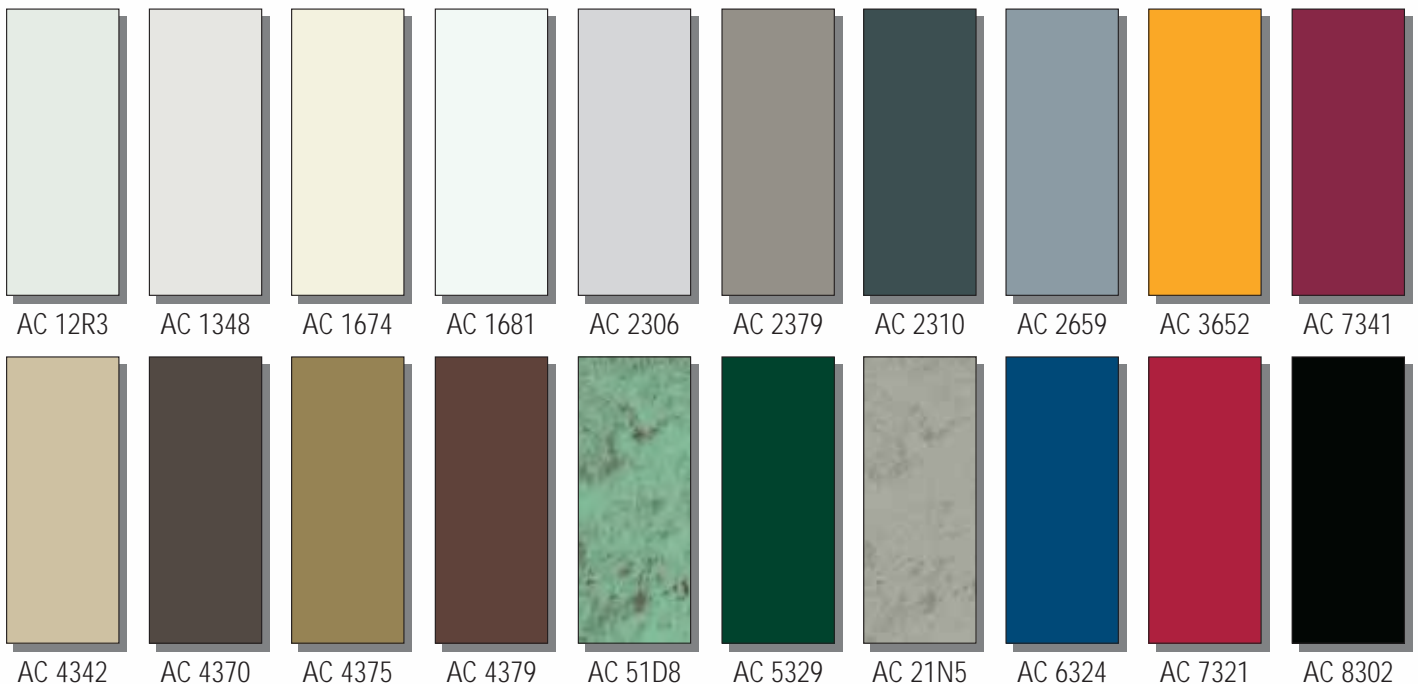


Novelis is the world leader in aluminum rolling, producing an estimated 19 percent of the world's flat-rolled aluminum products. They are the N°. 1 rolled products producer in Europe, South America and Asia, and the N°. 2 producer in North America. Novelis is globally positioned, operating in 11 countries with approximately 12,900 employees. Formed as a Canadian corporation in January 2005, Novelis is a wholly owned subsidiary of Hindalco Industries Limited - Asia's largest integrated producer of aluminium and a leading producer of copper. Based in Mumbai, India, Hindalco is one of the most cost-efficient aluminium producers globally.



WINDY® is protected with polyamide paints and it is characterised by an excellent resistance to corrosion caused by weathering. Additionally, it has a superb resistance to the rays of the sun, above all UV rays, which cause colour degradation. WINDY® guarantees excellent overall corrosion resistance thanks to a protective primer laid on the reverse side.

Excellent bending behaviour: WINDY® is produced with rolled aluminium coils in alloy EN AW-5005; thanks to its physical-chemical characteristics. WINDY® is particularly suitable for bending operations. Polyamide paint has a high modulus of elasticity and it creates, with aluminium, an ideal partner for the most rigorous architectural and industrial applications.



This colour chart includes proposals of pre-painted aluminium colours available in matt, demi and high gloss versions. It is possible to realise pre-painted aluminium coils on sample bases. The colours are as close as printing technique allows. We suggest to ask for an original painted aluminium sample.

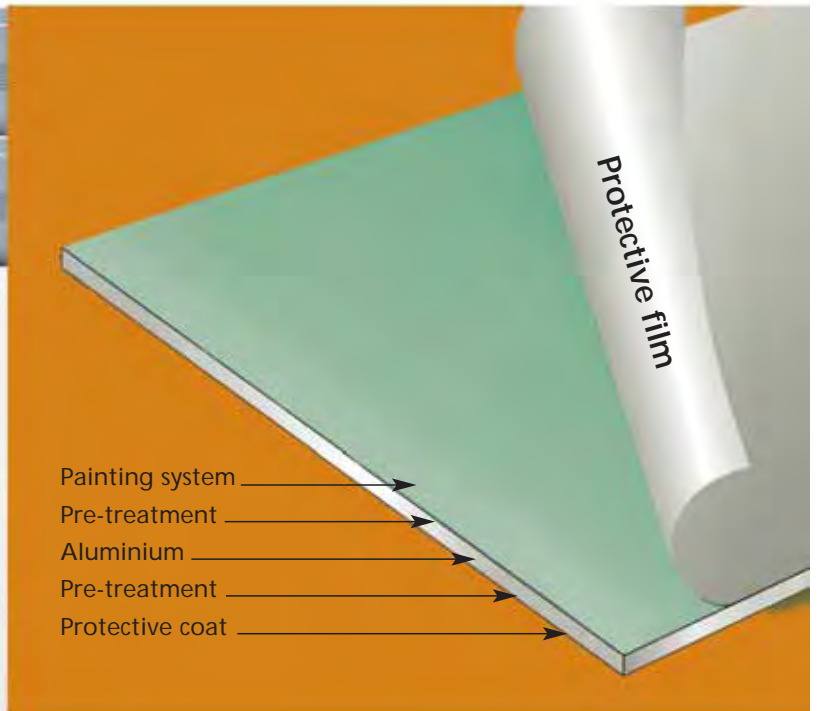
Technical Sheet - WINDY®			
Product description			Norms
Aluminium alloy:	-	UNI-EN AW-5005	UNI-EN 573/3
Metal gauge:	[mm]	1.00 - 2.00	
Temper:	-	H42	UNI-EN 1396
Coating top side:	-	Polyamide paint	int. standards
Backing coat:	-	Protective lacquer	int. standards
Metal specification			Norms
Mechanical properties after coating - transverse to rolling direction			UNI-EN 1396
Rm:	[MPa]	125 - 165	
Rp0.2:	[MPa]	80 min	
A50:	[%]	5 min from 1.00 mm up to 1.50 mm 6 min over 1.50 mm up to 2.00 mm	
Tolerance on dimensions:		Gauge Width and Length	UNI-EN 485/4 UNI-EN 485/4

CERTIFICATES

Health and Safety Management System:
BSI OHSAS 18001; 1999

Environment Management System Certificate:
EN ISO 14001; 2004

Quality Management System Certificate:
EN ISO 9001; 2000

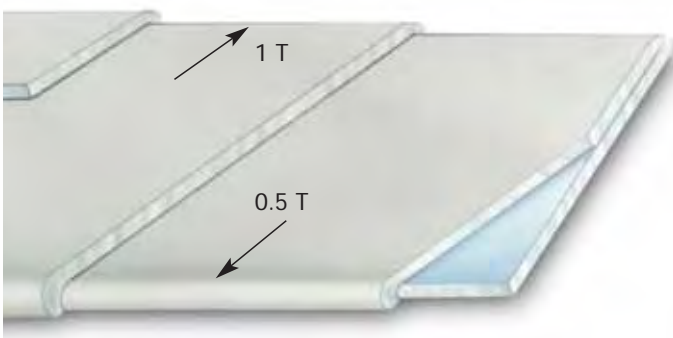


Technical Sheet - WINDY®			
Pre-treatment			
Degreasing and chromium free treatment on top and reverse side			
Organic coating specification (ECCA and UNI-EN 1396)		Top side	Backing coat
Coating system:		Polyamide	Polyester
Typical coating thickness:	ECCA T1	22	4 approx.
Pencil hardness:	ECCA T4	H	not relevant
Specular gloss to 60°:	ECCA T2	10 - 60 gloss	30 - full gloss
Adhesion 90°/180°:		100	not relevant
Adhesion on cross hatch + impact:		100	100
M.E.K. / Solvent rubbing test:	ECCA T11	150	> 50
Resistance to cracking on bending:	ECCA T7	0.5 T from 1.00 mm up to 1.20 mm 1.0 T over 1.20 mm up to 1.50 mm 1.5 T over 1.50 mm up to 2.00 mm	

Novelis Group is an important entity in Italy, too. There are two plants near Milan - Bresso and Pieve Emanuele. Novelis' Bresso plant produces prepainted rolled products using a range of paints and surface finishes. Pieve plant produces aluminium coil and sheet. It is equipped with casters and cold rolling facilities. Novelis is present throughout the whole Italian market thanks to its four sales centres in Verona, Bologna, Florence and Rome.



WINDY® is the Novelis brand name for its aluminium coils which have been prepainted with polyamide paints. WINDY® is used in the building industry, especially in facade cladding, but also in windows frames. The excellent formability, the good bending behaviour of the product and the good resistance to UV rays make WINDY® particularly versatile and adaptable to different architectural solutions and industrial applications.





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