

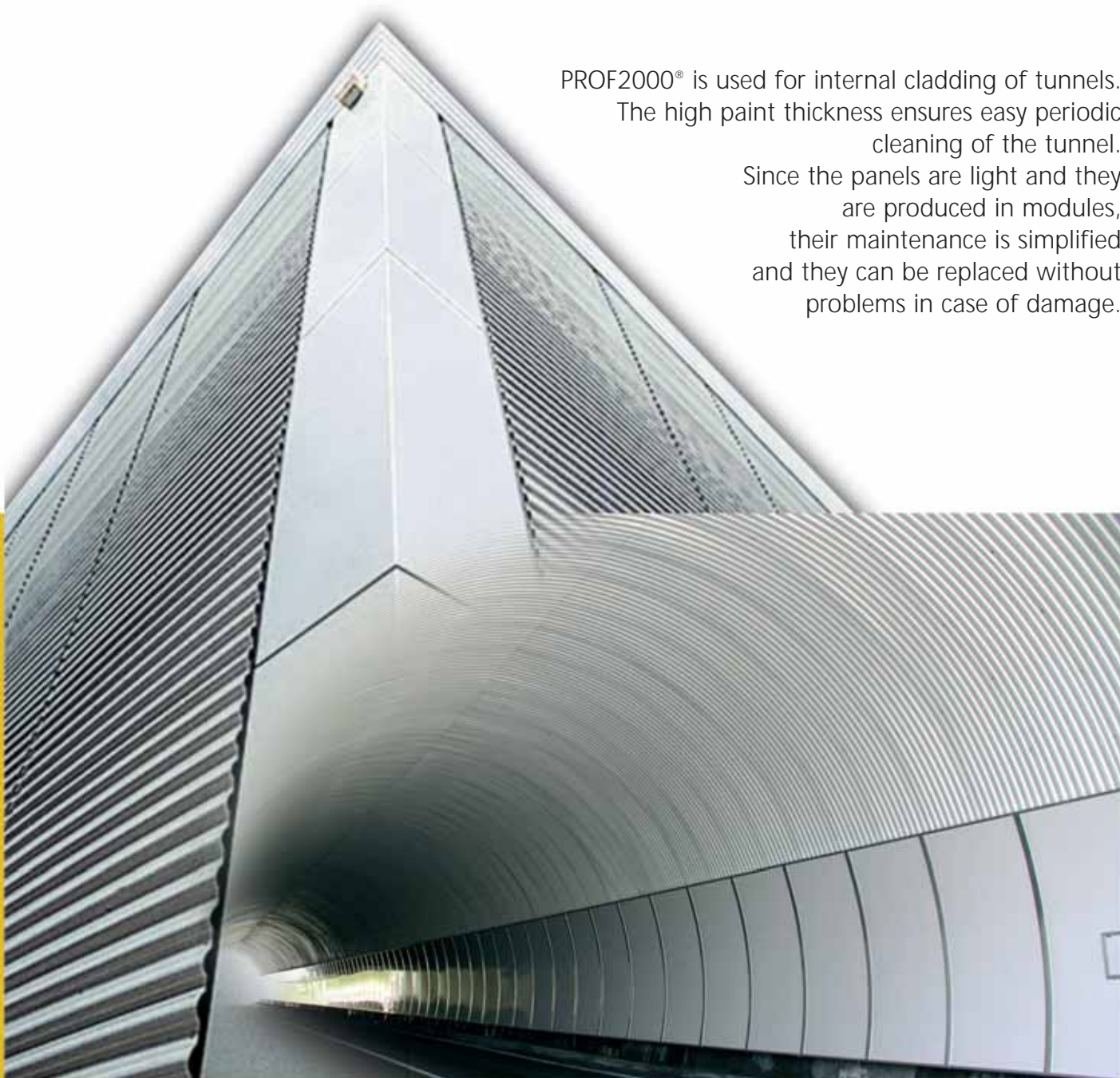
PROF[®]
2000

Powder
prepainted
aluminium
sheet for
building
and
industrial
applications



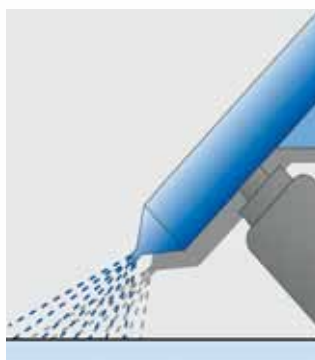


Novelis is the world leader in aluminum rolling, producing an estimated 19 percent of the world's flat-rolled aluminum products. They are the N°. 1 rolled products producer in Europe, South America and Asia, and the N°. 2 producer in North America. Novelis is globally positioned, operating in 11 countries 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.



PROF2000® is used for internal cladding of tunnels.
The high paint thickness ensures easy periodic cleaning of the tunnel.
Since the panels are light and they are produced in modules, their maintenance is simplified and they can be replaced without problems in case of damage.

The advantage of the prepainting technique is that the material becomes resistant to corrosion and other damaging substances. If requested Novelis can provide PROF2000® with a protective lacquer on the reverse side: this makes mechanical working easier and ensures the complete protection of the product.



Thanks to its wide range of colours PROF2000® represents the ideal solution to support the designer's imagination and creativity. Hundreds of colours and possible shades can meet all needs. Novelis is ready to match new special colours on demand. Set your mind free!

Technical Sheet - PROF2000® (Base Version) - (Enhanced Version)					
Product description		Base	Norms	Enhanced	Norms
Aluminium alloy:	-	UNI-EN AW-5010	UNI-EN 573/3	UNI-EN AW-5005	UNI-EN 573/3
Metal gauge:	[mm]	1.00 - 2.00		1.00 - 2.00	
Temper:	-	H42	int. standards	H42	UNI-EN 1396
Coating top side:	-	Polyest. powder	int. standards	Polyest. powder	int. standards
Backing coat:	-	not available		protect. lacquer	int. standards
Metal specification		Norms		Norms	
Mechanical properties after coating - transverse to rolling direction					
Rm:	[MPa]	110 - 150	int. standards	125 - 165	UNI-EN 1396
Rp0.2:	[MPa]	90 min		80 min	
A50:	[%]	5 min from 1.00 mm up to 1.50 mm		5 min from 1.00 mm up to 1.50 mm	
		6 min over 1.50 mm up to 2.00 mm		6 min over 1.50 mm up to 2.00 mm	
Tolerance on dimensions:		Gauge	UNI-EN 485/4	Gauge	UNI-EN 485/4
		Width and Length	UNI-EN 485/4	Width and Length	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



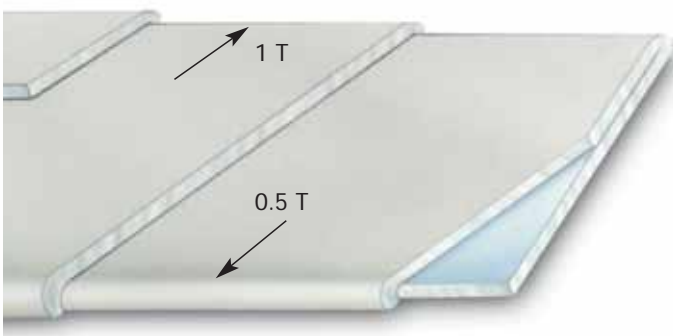
Technical Sheet - PROF2000® (Base Version) - (*Enhanced Version)				
Pre-treatment Degreasing and chromium free treatment on top and reverse side				
Organic coating specification (ECCA and UNI-EN 1396)			Top side	*Backing coat
Coating system:			Polyester powder	Polyester
Typical coating thickness:	ECCA T1	[µm]	55	4 approx.
Pencil hardness:	ECCA T4	KOH-I-NOR	H	not relevant
Specular gloss to 60°:	ECCA T2	[units]	30 - full 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	double rubs	non relevant	> 50
Resistance to cracking on bending (Base):	ECCA T7	-	1.0 T from 1.00 mm up to 1.50 mm	1.5 T over 1.50 mm up to 2.00 mm
Resistance to cracking on bending (Enhanced):	ECCA T7	-	0.5 T from 1.00 mm up to 1.50 mm	1.0 T over 1.50 mm up to 2.00 mm

*Only on Enhanced Version

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.



PROF2000® is the Novelis brand name for its polyester-powder prepainted aluminium rolled products. This painting technique gives PROF2000® the same surface as post-painted extruded products so that the two can be perfectly coupled. Thanks to this fact PROF2000® can be used both in the building industry, for facade cladding and its ancillary components and industrial applications.





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