

Products

Novelis Powder pre-painted aluminium for buildings

PROF[®]
2000



Novelis

A proposito di Novelis

Novelis Inc. is the global leader in aluminum rolled products and the world's largest recycler of aluminum.

Novelis supplies premium aluminum sheet and foil products to transportation, packaging, construction, industrial and consumer electronics markets throughout North America, Europe, Asia and South America. The company is part of the Aditya Birla Group, a multinational conglomerate based in Mumbai, India.

Innovation is one of the fundamental values of our company and being equipped with research laboratories, new products are constantly under development.

Taking advantage of the excellent resources and the up-to-date technology, Novelis produces the highest quality of rolled aluminium and sheet products for the automotive, construction and transport sectors, and packaging, industrial, electronic and printing markets.

Novelis Group is an important organization in Italy, with two plants near Milan - Bresso and Pieve Emanuele. Novelis' Bresso plant produces pre-painted rolled products using a wide range of paints and surface finishes.

Pieve plant produces aluminium coils and sheets. It is equipped with casters and cold rolling facilities.

Powder coated aluminium for any architectural need

PROF2000® is the Novelis brand name for its polyester-powder pre-painted aluminium rolled products. This painting technique gives PROF2000® the same surface as post-painted extruded products so that the two can be perfectly matched. Thanks to this, PROF2000® can be used both in the building industry, for facade cladding, ancillary components and other industrial applications. PROF2000® is also used for internal cladding of tunnels. The high paint thickness allows periodic cleaning of the tunnel without loss of material quality. 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.



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 modern needs. Novelis is ready to match new special colours on demand.

Set your mind free!

Product description

		Base	Enhanced	Norms
Aluminium alloy	-	EN AW-5010	EN AW-5005	EN 573/3
Metal thickness	[mm]	1.00 - 2.00	1.00 - 2.00	
Temper	-	H42	H42	EN 515
Coating top side	-	Polyester paint	Polyester paint	Internal standard
Backing coat	-	Not available	Protective lacquer	Internal standard

Metal substrate specifications

Mechanical properties after coating		EN 1396	EN 1396	
R _m	[Mpa]	110-150	125-165	
R _{p0.2}	[Mpa]	90 min	80 min	
A ₅₀	[%]	5 min up to 1.50 mm 6 min over 1.50 mm	5 min up to 1.50 mm 6 min over 1.50 mm	
Tolerance on dimensions		EN 485/4	EN 485/4	

Our effort for a sustainable strategy

Aluminium is infinitely recyclable, without the loss of its quality. Recycling aluminium requires 95 percent less energy, and produces 95 percent fewer greenhouse gas emissions (GHG), than manufacturing primary aluminium.

Novelis is the world's largest recycler of aluminium beverage cans and a leader in establishing industry programs to promote aluminium collection and recycling in many of the countries in which we do business.

Besides, in the constant commitment to respect the environment and in accordance with the current law, Novelis exclusively uses unleaded paints and a chrome free pre-treatment of the aluminium, allowing a perfect adhesion of the paint to the support.

Integrity

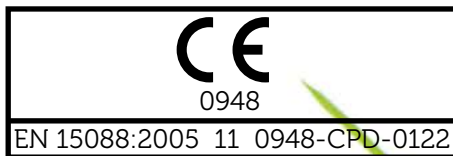
Seamlessness

Speed

Passion

Commitment

Novelis is one of the first companies certified according to ISO EN 14001, with OHSAS 18001 standards by the Registro Italiano Navale and obtained the CE marking for its products.



Quality Certification:

UNI EN ISO 9001

Environment Certification:

UNI EN ISO 14001

Safety Certification:

OHSAS 18001

Marking CE Certification:

according to EN 15088:2005

Organic coating specifications

Organic coating specifications		Top side	Backing coat
Coating system		Polyester	Polyester/Alchidic
Typical coating thickness	EN 13523-1	55	4 approx.
Pencil hardness	EN 13523-4	KOH-I-NOR	Not relevant
Specular gloss to 60°	EN 13523-2	[units]	30-full gloss
Adhesion 90°/180°		[%]	full gloss
Adhesion on cross hatch + impact		[%]	100
Resistance to cracking on bending* (Base)	EN 13523-7	-	100
Resistance to cracking on bending* (Enhanced)	EN 13523-7	-	1.0 T from 1.00 mm to 1.50 mm 1.5 T from 1.50 mm to 2.00 mm
			0.5 T from 1.00 mm to 1.50 mm 1.0 T from 1.50 mm to 2.00 mm

* Only for paint over 60 gloss; specific values are valid for metallic, "raffaello", matt products.



Not just aluminium, Novelis Aluminium.™

Novelis is the world's largest producer of rolled aluminium and the global leader in beverage can recycling. We are a growth-oriented company, drawing upon our industry-leading technology and expertise to develop and deliver an expanding portfolio of premium rolled aluminium products. Novelis is an important part of the worldwide Aditya Birla Group of companies. By partnering with our customers to bring innovative products to market, by being a leader in recycling, and by operating with a mindset of sustainability, Novelis makes the world lighter, brighter and better.

Novelis Italia S.p.A.
Via Vittorio Veneto 106
20091 Bresso (Mi)
Phone +39 02 61454.1
Fax: +39 02 6140166
bresso.info@novelis.com

Centro di Distribuzione FIRENZE
Via Pantano
50010 Campi Bisenzio, Loc. Capalle (Fi)
Phone +39 055 8985744/5
Fax: +39 055 8985746

Centro di Distribuzione VERONA
V.le del Lavoro, 26
37036 San Martino Buon Albergo (VR)
Phone +39 045 8780070/1/2/3
Fax: +39 045 8799055

All information and technical data were correct at the time of printing and incorporate the experience gathered up till such time. We therefore reserve the right to make modifications.

novelis.com

Novelis