PRELAQ®
COLORFUL BUILDING

Prelaq PLX
Prepainted sheet steel for long strip roofing

APPLICATIONS
Prelaq PLX is used for roofing buildings by long strip or sheet roofing method.

PRODUCT DESCRIPTION
Prelaq PLX is a prepainted sheet steel intended for long strip roofing. The substrate material is an extra-mild, zinc-coated sheet steel (PLX). The steel has practically no springback in order to ensure tight seams. The material can be used for making seams by machine or manually.

Prelaq PLX with dual finishes
Prelaq PLX is produced with dual types of surface finishes. The normal type (Prelaq Nova) and a matt type (Prelaq Nova Matt). Aesthetical requirements indicate what is best suited for a specific building.

Prelaq PLX has a coating , with a total thickness of 50 µm. The thickness of the paint coat is optimized for wear resistance, weathering resistance and consumption of resources. It has better resistance than standard polyester when exposed to people walking on the roof and other stresses occurring on roofs. The coating has excellent gloss retention and colour fastness, and provides good resistance against corrosion.

The material is suitable for manual working but must be touched up if the paint surface should sustain damage. The sheet is coated with blue protective paint coat on the reverse side, and is marked with the product name and production date on the reverse side.

SUBSTRATE MATERIAL
Hot-dip galvanized sheet steel is used for the product, with zinc weight class Z 350 as per EN 10327. The steel has a lower yield point of approx. 180 N/mm². The product is supplied in a thickness of 0.60 ± 0.06 mm.

COLOURS RANGE
The standard colours are shown in a special colour chart.

PAINT COAT

	Thickness	
	Prelaq Nova	Prelaq Nova Matt
Front side	50 µm	50 µm
Reverse side (blue)	10 µm	10 µm

PROPERTIES OF THE BASE MATERIAL

	Norm	Data
Steel quality	-	PLX
Nominal thickness	EN 10143	0,6 mm
Thickness zinc layer	EN 10143	Z350 (350g/m²)
Proof strength $R_{p0,2}$	EN 10002-1	160 – 200 MPa
Elongation at fracture	EN 10002-1	36 %

PROPERTIES PAINT LAYER

	Test method	Data	
		Prelaq Nova	Prelaq Nova Matt
Paint thickness, nominal	ISO 2808	50µm	50µm
Gloss	EN 13523-2	40	10
Minimum inner bending radius	EN 13523-7	Suitable for seaming	Suitable for seaming
Adhesion	EN 13523-6	Satisfactory	Satisfactory
Scratch resistance	EN 13523-12	Min 35 N	Min 35 N
Maximum service temperature		100° C	100° C

SSAB

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INSPECTION AND MAINTENANCE

Regular maintenance extends the useful life of the paint coat and thus also the intervals between repainting, see the brochure entitled ”Inspection and maintenance of prepainted steel sheet”. Take care to avoid damage to the coating during production and installation. To repair scratches and handling damage, clean and touch up with Abratex Lackstift (touch-up crayon) or equivalent product. Several makes and systems of repainting paints are available on the market.and systems of repainting paints are available on the market.

INTERVALS BETWEEN REPAINTING

A suitable time for repainting can be determined by regular inspection of the paint coat.

An assessment of when it is appropriate to repaint the sheet should be made by an expert. The normal time before repainting Prelaq PLX is considered to be at least 20 years, provided that regular maintenance is done.

RESISTANCE TO CORROSION

The corrosion resistance of Prelaq PLX is continuously tested by exposure of test pieces outdoors in corrosive marine and industrial environments.

Prelaq PLX belongs to corrosion protection category RC4 as per EN 10169-2.

For indoor use, Prelaq PLX conforms to moisture category CPI5 and environmental category A4 as per EN 10169-3:2003.

The material should not be stored or installed close to damp and corrosive materials or in areas in which the sheet is subjected to strong cleaning agents or in premises in which animals are kept.

RESISTANS TO UV-LIGHT

Prelaq PLX can be used in UV resistance category not exceeding $R_{uv}3$ as per EN 10169-2. This means that Prelaq PLX can be used north of latitude 37° N (southern Europe). Between latitude 37° N and 45° N the altitude must not exceed 900 m.

RESISTANCE TO CHEMICALS

The coating generally has good resistance to chemicals. However, there are exceptions, e.g. certain organic solvents such as aromatics, ketones and chlorinated hydrocarbons.

FIRE CLASSIFICATION

Prelaq PLX fulfills the following requirements:

Classification	Standard
Class A2 – s2, d0	EN 13501-1
Klasse B2	Din 4102 Teil 1
Class 1	BS476 osa 7

INDUSTRIAL SAFETY

Special measures should be taken to prevent personnel being exposed to the air pollutants formed during grinding, welding and cutting of the sheet material. For further information, refer to your national industrial safety regulations concerning paints and thermosetting plastics.

Prelaq PLX has non-slip properties that are equivalent to those of other roofing sheet materials.

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WORKING AT LOW TEMPERATURES
Under normal circumstances, Prelaq PLX for long strip roofing can be seamed at low temperatures either manually or by machine, although the sheet temperature must not be lower than -10° C. Cracking of the paint may occur at lower temperatures.

CUT EDGES
Edge corrosion may occur if the sheet is used in corrosive environments and if the cut edges of the sheet are exposed. Protective painting can be applied to avoid edge corrosion.

DETAILED DESIGN OF ROOFING
Detailed design of long strip roofing should be carried out in accordance with your national regulations. SSAB publications GB801. ”Long strip roofing with Prelaq PLX” can assist in the project design and execution work.

Parts, particularly the fittings for roofing work, shall be designed so that rainwater will run off freely from the sheet surface.

Seam spacing
The strip width of Prelaq PLX for long strip roofing is 670 mm, and the seam spacing will therefore normally be 600 mm. The seam spacing can be reduced if the building is located on a very windy site.

ENVIRONMENT
Environmental work has long been an established part of the operations at SSAB. Developments are reported in an annual environmental report to the authorities. SSAB devotes active work to the development of its processes, and develops products that are beneficial from the environmental aspect and from a life cycle perspective. SSAB has gained environmental certification in accordance with ISO 14001.

Steel is 100% recyclable. The environmental properties of Prelaq PLX are given in a special environmental specification that can be ordered from SSAB or obtained from our web site.

MISCELLANEOUS
Storage of the material outdoors should be avoided. If this is unavoidable, the material should be satisfactorily covered and should be stored so that good air circulation will be obtained, in order to avoid moisture.

For particulars of tolerances and properties in general, refer to European Standard EN 10169-1.

TECHNICAL SERVICE AND INFORMATION
The Organic Coated Products Marketing Department will be pleased to provide additional information on this product and other prepainted products from SSAB.

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SSAB Tunnplåt AB
SE-781 84 Borlänge
Sweden

Tel +46 243 700 00
Fax +46 243 720 00

info@ssab.com