

# Dobel Nova - Prepainted Sheet Steel for Buildings

## Applications

Dobel Nova is suitable for external building products, such as profiled sheet for roofing and wall cladding, prefabricated wall panels, wall and roof fittings, and sheet steel roofing tiles. In addition to being suitable for normal environments, Dobel Nova can also be used in industrial and marine environments.

## Product description

### Dobel Nova with dual finishes

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

Dobel Nova has a coating with a total thickness of 50 µm. The thickness of the paint is optimised for wear resistance, weathering resistance and consumption of resources. It has greater durability 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 also provides good protection against corrosion.

The reverse side of the sheet is painted as standard with grey epoxy-type paint, and the reverse side is marked with particulars of product name and production date.

## Paint Coat

	Thickness	
	Dobel Nova	Dobel Nova Matt
Front side	50 µm	50 µm
Reverse side (grey)	10 µm	10 µm

## Properties

	Test method	Data	
		Dobel Nova	Dobel Nova Matt
Paint thickness, nominal	ISO 2808	50 µm	50 µm
Gloss	EN 13523-2	40	7
Minimum inner bending radius	EN13523-7	1 T <sup>1)</sup> (dark colours) 2 T <sup>1)</sup> (light colours)	1 T <sup>1)</sup> (dark colours) 2 T <sup>1)</sup> (light colours)
Adhesion	EN 13523-6	Satisfactory	Satisfactory
Scratch resistance	EN 13523-12	Min 35 N	Min 35 N
Maximum service temperature		100 °C	100 °C

1) T is the sheet thickness

## Substrate material

Dobel Nova is supplied on hot-dip galvanised sheet to EN 10326 or EN 10327, with zinc weight class Z 275 or Z 350.

## Colours

The standard colours are shown in a special colour chart.

## 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", E 838. 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.

## 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 Dobel Nova is considered to be at least 20 years, provided that regular maintenance is done.

## Resistance to corrosion

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

Dobel Nova belongs to corrosion protection category C4 as per ENV 10169-2.

For indoor use, Dobel Nova 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.

## Resistance to UV light

Dobel Nova can be used in UV resistance category not exceeding  $R_{uv} 3$  as per ENV 10169-2. This means that Dobel Nova can be used north of latitude 37°N (southern Europe) and altitudes of up to 900 m above sea level.

## 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

Dobel Nova fulfills the following requirements:

Classification	Standard
Class A1	prEN 14783
Klasse B2	Din 4102 Teil 1
Class 1	BS476 Part 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.

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

## Working

If the material is used for producing pressed or bent parts with tight radii, check that no cracking has occurred in the paint coat. See the minimum bending radius in the table of properties. Working should be avoided at sheet temperatures below +15°C. Cracking of the paint coat 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.

## Environment

Environmental work has long been an established part of the operations at SSAB Tunnplåt. Developments are reported in an annual environmental report to the authorities. SSAB Tunnplåt 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 Tunnplåt has gained environmental certification in accordance with ISO 14001.

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

## Technical service and information

The Organic Coated Products Marketing Department will be pleased to provide additional information on this product and other preprinted products from SSAB Tunnplåt.

## 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.

The information in this document is valid at the date of publication and is intended to serve as general guidance for the use of the product. The latest version of this document is published on our web site. We reserve the right to introduce changes resulting from our continual product development work. The information and data given must not be regarded as binding, unless specially confirmed in writing.

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