



# WARRANTY FOR COLOUR COATED STEEL PRODUCTS

2017-10-30

## SCOPE

This warranty covers rust-through (technical) and abnormal colour change and peeling of the paint (aesthetical) in accordance with below terms and conditions on materials specified in Table 1. Products in materials not listed in Table 1 are not covered by the warranty.

During the warranty period, Lindab guarantees that the product will not suffer rust-through which may cause leakages. Lindab also guarantees that the coating will not flake or otherwise fragment or display abnormal colour change during the warranty period. Abnormal colour change is defined as more than 8 deltaE<sup>2</sup> units over 5 years, 16 deltaE units over 10 years and 20 deltaE units over 15 years respectively. Measurements of the coating must be carried out on a cleaned surface and is to be performed by Lindab or a Lindab representative.

Note that colour variations might occur between different batches of color coated steel, so if the product ordered is additional and is to match already mounted products, please specify this at the time of ordering.

The warranty period starts from the date of delivery to Lindab's customer and is valid in accordance with the table below.

**Table 1**

Paint system	Use	Warranty for the colour (aesthetical)		Warranty for rust-through (technical)	
		Corrosivity class*		Corrosivity class*	
		C1-C3	C4	C1-C3	C4
<b>GreenCoat, HBP (Gloss 40)</b>	Standing seam roof and flashings (FAP and PLX). Roof- and wall cladding. Sandwich panels.	20 years	15 years	30 years	20 years
<b>GreenCoat matt, HBPM (gloss 10)</b>	Standing seam roof and flashings (FAP and PLX). Roof- and wall cladding. Sandwich panels.	20 years	15 years	30 years	20 years
<b>HBPD (double coated)</b>	Roof drainage system Façade cassettes	15 years	10 years	20 years	10 years
<b>DuraFrost</b>	Standing seam roof and flashings (FAP and PLX).	20 years	15 years	30 years	20 years
<b>PE25</b>	Roof- and wall cladding Sandwich panels	10 years	-	10 years	-



<b>PU (powder coated)</b>	Facade cassettes	20 years	10 years	25 years	10 years
<b>LE200 plastisol</b>	Roof and wall cladding, flashings	10 years	10 years	20 years	20 years
<b>PE15</b>	Decking profiles	-	-	Corrosivity class* C1-C2: 5 years C3: 5 years <sup>1</sup>	

\*See table 3 corrosivity classes

<sup>1</sup> Given that the rust protection is Z275 or equal.

<sup>2</sup> deltaE according to Cielab

## CONDITIONS

The warranty is not valid:

- A. For the backside coating of the product or surfaces that has been repainted.
- B. For edge corrosion on cut edges.
- C. If metallic shades have been mounted in different directions (making the flakes in the paint brake the light differently which to the eye can lead to a color deviation)
- D. In particular corrosive or aggressive environments (see which corrosivity classes that are valid in Table 1) where for example corrosive chemicals are present in the air, in fumes or in smoke, where condensation, ashes, cement dust or droppings from animals can impact the surface.
- E. If the product is mounted closer than 200 meters from the ocean or in any other way is exposed to high salinity.
- F. If the pitch of a roof or another surface is less than 1:16 (3,6°) and water cannot run off freely from all surfaces.
- G. If the product has been damaged chemically or mechanically.
- H. If the installation work has damaged the coating and has not been rectified by touch-up paint.
- I. If the material has been exposed to contact with copper or discharge of fluid from copper pipes, or if the product has been in contact with wet cement or plaster, wet wood or soil.
- J. If accumulations of dirt or other deposits and rain sheltered areas have not been inspected and cleaned annually.
- K. If annual inspection or maintenance has not been carried out in a professional way.



- L. If damage to the paint layer (aesthetical) is less than five (5) % of the total surface.
- M. If installation and maintenance have not been carried out in a professional way and according to currently applicable instructions.
- N. If the product has been stored or handled in an improper way for example if the product has not been exposed to free airflow or if the product has been exposed to large variations in temperature (both indoors and outdoors)
- O. If the material has been exposed to constant moist due to poor installation or poor cleaning.
- P. If the claim has not been made in writing to Lindab within six (6) months from the day the defect was noticed or should have been noticed.

#### **Additional conditions for roof drainage systems**

The warranty is not valid if the pitch of the gutter is less than 2,5 mm/m or if stone granules have been accumulated in the gutter from a mounted roof product.

#### **Additional conditions for roof- and wall cladding, sandwich panels and decking profiles**

The warranty is not valid if fasteners and sealants unsuitable for the corrosivity class are used.

#### **NOTIFICATION**

Lindab's customer shall submit the claim, but if the customer is no longer operation (due to for example bankruptcy), the end customer can submit the claim directly to Lindab.

The claim shall be notified in writing to Lindab no later than six (6) months from the day the defect was noticed or should have been noticed. The product must be identified with an order number and a copy of the invoice.

Lindab, or a Lindab representative, shall have the right to inspect the installed material on site.

#### **COMPENSATION**

In case of an approved claim according to this warranty, Lindab shall, at its own discretion, compensate for the costs, fully or partially dependent on the age of the product, for either repainting of the defective product or delivery of a new product as replacement for defective product. In case of a product being rusted through which may cause leakage, the defective product shall be replaced. The warranty period is not prolonged for replaced or repainted products. It applies for the remainder of the original warranty period.



The liability of Lindab will take into consideration that the building has served its purpose for a number of years and to the remaining life-time. Lindab applies the guidelines below. Repainting below refers to the total costs for repainting and new product refer to the costs for the material of the new product.

**Table 2**

Time years*	Repainting compensation %	New product compensation %
0-10	100	100
11-15	80	100
16-20	60	100
21-30	0	50

\*Provided that the time is covered by the warranty period according to Table 1.

With the exception for defects and remedies as stated above in this warranty, Lindab shall in no event be liable for any other defects and the buyer shall not be entitled to make any other claims. This applies to each cost or loss that any defect may cause including but not limited to cost for work associated with replacement of the product, as well as loss of production, loss of profit and other direct or indirect costs.

**Table 3**

**Corrosivity classes according to ISO 12944-2 with environmental examples**

Corrosivity class	Environmental corrosivity	Examples of typical environments (informative)	
		Outdoors	Indoors
C1	Very low	-	Heated spaces with dry air and insignificant amounts of pollutants, for example offices, stores, schools and hotels.
C2	Low	Atmospheres with low levels of pollution. Rural areas	Non-heated areas with fluctuating temperature and humidity. Low frequency of moisture condensation and low content of impurities, such as sports halls and warehouses.
C3	Moderate	Atmospheres with some salt or moderate air pollution. Urban and light industrial areas. Areas with some influence from the coast .	Areas with moderate humidity and a certain amount of air pollution from production processes, such as breweries, dairies and laundries.
C4	High	Atmospheres with a moderate amount of salt or significant amounts of air pollution. Industrial and coastal areas.	Areas with high humidity and high levels of air pollution from production processes, such as chemical plants, swimming pools and shipyards
C5-I	Very high (Industrial)	Industrial areas with high humidity and aggressive atmosphere.	Areas with almost permanent condensation and high levels of air pollution.
C5-M	Very high (Maritime)	Coastal and offshore areas with high salinity.	Areas with almost permanent condensation and high levels of air pollution.