



WARRANTY FOR COLOUR COATED STEEL PRODUCTS

2018-10-05

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 deltaE² 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
GreenCoat, HBP (Gloss 40)	Standing seam roof and flashings (FAP and PLX). Roof- and wall cladding. Sandwich panels.	20 years	15 years	30 years	20 years
GreenCoat matt, HBPM (gloss 10)	Standing seam roof and flashings (FAP and PLX). Roof- and wall cladding. Sandwich panels.	20 years	15 years	30 years	20 years
HBPD (double coated)	Roof drainage system Façade cassettes	15 years	10 years	20 years	10 years
DuraFrost	Standing seam roof and flashings (FAP and PLX).	20 years	15 years	30 years	20 years
PE25	Roof- and wall cladding Sandwich panels	10 years	-	10 years	-



PU (powder coated)	Facade cassettes	15 years	10 years	20 years	10 years
LE200 plastisol	Roof and wall cladding, flashings	10 years	10 years	20 years	20 years
PE15	Decking profiles	-	-	Corrosivity class* C1-C2: 5 years C3: 5 years ¹	

*See table 3 corrosivity classes

¹ Given that the rust protection is Z275 or equal.

² 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, or if material from different batches has been mixed, 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 an ocean with high salinity or in any other way is exposed to high salinity that can be classed as C5. See corrosivity classes in table 3.
- 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 12944-2:2017 with environmental examples

Corrosivity category	Corrosivity	Examples of typical environments (informative only)	
		Exterior	Interior
C1	Very low	-	Heated buildings with clean atmosphere, e.g. offices, shops, schools, hotels
C2	Low	Atmospheres with low level of pollution: mostly rural areas	Unheated buildings where condensation can occur, e.g. depots, sports halls
C3	Medium	Urban and industrial atmospheres, moderate sulfur dioxide pollution; coastal areas with low salinity	Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies
C4	High	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal ship and boatyards



C5	Very high	Industrial areas with high humidity and aggressive atmosphere and coastal areas with high salinity	Buildings or areas with almost permanent condensation and with high pollution
CX	Extreme	Offshore areas with high salinity and industrial areas with extreme humidity and aggressive atmosphere and subtropical and tropical atmospheres.	Industrial areas with extreme humidity and aggressive atmosphere.