



# Lindab **Sandwich Panels**

Handling and maintenance instructions

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## External factors affect service life

The environment around a building is a heavy influence on colour ageing. Busy roads, polluting industry, etc., will affect the protective coating and zinc layer of the panel over time.

Solar radiation affects paint layer ageing in two ways: through ultraviolet radiation and heat. Both contribute to paint degradation in the long run. Certain weather conditions and proximity to salt-water marine environments also affect paint ageing.

The service life of the panel is also dependent on how large a part of its cut edges are exposed. Folded panel edges can handle tough environments better than exposed edges. Exposed edges can be painted on site to extend the panel's service life.

## How to influence panel service life

When it comes to the service life of sheet metal products, we usually use two different measurements: technical and aesthetic service life.

Aesthetic service life is a measure of the time until the paint layer changes so much that the appearance no longer meets the requirements set for the building. The amount of gloss and colour change that is considered acceptable depends on who assesses and what type of building it is.

Technical service life is the time until the panels and insulation can no longer protect the building's load-bearing structure or underlying material. Technical service life is considerably longer than aesthetic service life.

Generally, light colours have a somewhat longer aesthetic life than dark colours, due to the fact that they reflect heat from the sun.

Regular maintenance of the facade also affects the service life of the product

## Cleaning

Normally, rain is sufficient to keep the facade clean. Deposits of dirt that the rain cannot wash away can be washed off with a soft brush and water or a high-pressure water jet. Take extra care to clean wall sections where rain cannot clean the facade. If using a high pressure washer, the pressure must not exceed 50 bar and the jet must not be held too close to the surface nor angled perpendicular to the surface. Do not spray directly against the panel joint, as there is a risk of water penetrating the joint. High-pressure washing should be used with the greatest caution.

In areas with polluted air, it may be necessary to use a mild detergent, such as ordinary washing-up liquid. Dose according to manufacturer's recommendations. Apply the detergent working from the bottom upwards. Rinse from top to bottom. Work carefully as excessive washing and abrasion can damage the coating. Metal colours are particularly sensitive.

## Damage to paint coating

Damage to the paint coating, such as scratches and dents, must be repaired as quickly as possible to prevent it worsening. Minor scratches can be touched-up using our touch-up paints. Minor dents can be filled with Plastic Padding and then repainted. For best results, follow the recommendations of paint and filler suppliers. However, all touch-up painting will be visible at certain angles, as it cannot have the same surface as the original factory-painted surface.

# Annual inspection

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An annual inspection of the building is required for effective maintenance.

The following checks and actions should be included in annual inspections.

Check	Action
Condition of paint, signs of calcification, colour change, cracking	Evaluate the condition and assess whether washing, cleaning, edge corrosion treatment, touch-up painting or repainting is necessary
Debris accumulation on or against the panel will increase the risk of corrosion	Remove the debris so that the surface of the panel can dry
Damage to the paint layer. The paint layer should be inspected even when the building is new.	Consider touching up, repainting or replacing elements depending on the extent and type of damage.
Faulty or incorrectly fastened fasteners. Can cause leaks and rust	Renew faulty fasteners and use fasteners recommended by Lindab.
Loose drill swarf, rivet splinters or other metal objects in contact with the panel can cause corrosion and surface discolouration	Remove all loose metal objects in contact with the surface
Edge corrosion, cut edges where panels overlap, panel ends. Corrosion can spread if not treated in time	Clean the damaged edge and scrape off any rust. Treat edge with primer, touch-up paint according to paint supplier's recommendations



## Good Thinking

**At Lindab**, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do that by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do that by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. That means less carbon emissions in nature and less energy wasted.

**We simplify construction**