Lindab **Magestic**

Technical information

Lindab®

Technical facts Lindab Magestic

Zinc-magnesium coated steel for standing seam roofing and flashings

Product description

Lindab Magestic is a rather newly developed and more advanced rust protection than normal galvanized. The durable material also ages in style. It is delivered in ZM310, meaning 310 grams per m2 and double side. Equivalent to 24 micron coating on each side.

Base material

The base material is an extra soft tinsmith quality. The steel has practically no spring back so that tight seams can be achieved. The material can be both hand and machine seamed.

Product	Base material	Yield strength	Steel thickness
ZM310	DX56 according to EN 10346:2015	Approximately 180 N/mm²	0,6±0,06mm

Lindab Magestic is a zinc-magnesium coated sheet steel that can be used in up to corrosion class C4. For information on corrosion classes see the separate table on the next page. The coating consists of 3% magnesium, 3,5% aluminium and 93,5% zinc.

Magestic works well in tough environments with sea salt and other areas with chloride and ammonium.

Appearance

Lindab Magestic will patinate over time. It can end up being dark grey, and already after a couple of months outside you can usually see how it has started to darken which gives a rustic and genuine feeling. Avoid greasy fingers or dirty gloves as it can make the surface age unevenly.

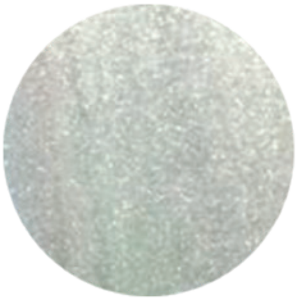
Reaction to fire

Lindabs Magestic fulfils A1 according to EN 13501-1:2007+A1:2009.

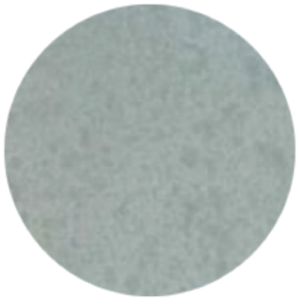
Life time expectancy

For both the sake of corrosion and appearance, avoid the following combinations:

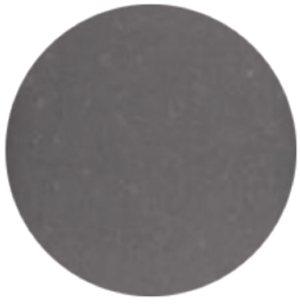
- copper, brass, iron, iron vitriol and lead as those can give rise to galvanic corrosion. Avoid runoff from these substances onto the Magestic. Roofing felt containing bitumen can be used well under a seamed roof.
- Pressure treated wood as that contains copper.
- Wet concrete, cement and plaster which are strongly
- Avoid using Magestic on and around a chimney, as condensed flue gas often contains acids (acetic acid, formic acid, sulphuric acid or chlorides, depending on the fuel) that can cause discolouration and rust on metal-coated surfaces. basic.



New



6 months



4 years

Depending on environment

Working temperature

Lindab Magestic in extra soft quality can (according to tests done) be hand or machine seamed down to a steel temperature of -10°C without the appearance of micro cracks in the metallic coating.

Rust protection

Keep in mind that Lindab Magestic is a rust protection and a technical product that can (and will) change its appearance over time. If one is afraid of an unsatisfying aesthetical appearance, we recommend a colour coated product.

Environment

The long life time expectancy with Lindab Magestic compared to common galvanized steel means great benefits for the environment as the product will not have to be changed as often.

There is a well-functioning infrastructure for recycling of steel all over the world. Lindab Magestic contains roughly 20% recycled material.

Storing

Lindab Magestic is very sensitive to white rust during storing, and must not be stored outside when free airflow cannot be secured (meaning when the material is in coil form or stacked in sheets).

Also make sure that the material is not exposed to large temperature differences during storing so that condensation can appear.

Soldering

It is not possible to solder Magestic. If you need to merge two Magestic surfaces, you need to use spot welding, rivets or glue. If you heat up the material the rust protection will be damaged in the affected area, and new rust protection needs to be added in order to avoid rust. Use a zinc rich base paint or aluminium paint. This might differ in appearance from the Magestic surface, so only add to the affected area.

Corrosivity classes according to ISO 12944-2 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.

De flesta av oss tillbringar större delen av tiden inomhus. Inomhusklimatet är avgörande för hur vi mår, hur mycket vi orkar och om vi håller oss friska.

Vi på Lindab har därför gjort till vår viktigaste uppgift att bidra till ett inomhusklimat som förbättrar människors liv. Det gör vi genom att utveckla energieffektiva ventilationslösningar och hållbara byggprodukter. Vi vill också bidra till ett bättre klimat för vår planet genom att arbeta på ett sätt som är hållbart för både människor och miljön.

Lindab | För ett bättre klimat

Lindab®