

PROCESSING REGULATIONS NedZink NATUREL, NOVA AND NOIR

This product information sheet is intended to provide important information and processing regulations for NedZink NATUREL, NedZink NOVA and NedZink NOIR.

Material characteristics

NedZink NATUREL is raw titanium zinc produced according to EN 988 and Lloyd's Register certified. NedZink NATUREL has a natural, rolled surface. NedZink NOVA and NedZink NOIR are pre-patinated types of zinc that are produced by means of a phosphating process. The basic material is natural NedZink titanium zinc. By phosphating the material, a surface very close to the regular natural patina is obtained. All properties of zinc remain unchanged during this process.

Every rolled metal, NedZink material included, will show tensions in a certain way. This is a consequence of the rolling process. With modern techniques, these tensions are reduced to a minimum. Nevertheless, it may be that these tensions occur, to a lesser degree, after the NedZink material has been processed by third parties.

Surface protection

NedZink NATUREL is supplied with a bright, rolled surface. Exposure to the outside air and moisture results in a protective layer of zinc carbonate, which is called the patina. This process begins immediately after installation and will continue until a uniform patina is obtained. In the beginning, the appearance of the patina layer can be a bit mottled. Other factors that play a role in this patina process are: the orientation / geometry of the building, the weather conditions during assembly, and the storage of the titanium zinc prior to assembly.

NedZink NOVA and NedZink NOIR are natural products and as a consequence minor colour nuances will occur. A unique production process results in an extremely constant colour, but there is always a possibility on colour variations (production batch related). Use material from the same production batch for each particular project to avoid colour variations. The production batch number is stated on the back of the material.

Always mount NedZink NOVA and NedZink NOIR in the same rolling direction (also in order to avoid colour variations). The rolling direction is indicated by arrows on the backside of the material. This rolling direction must be checked before installing the material.

Salt deposition

In a maritime climate, the salt in the air and/or water can react with zinc and form a zinc chloride on surfaces that do not get rinsed off by rain water. This appears as permanent white patches. These white patches do not have any impact on the functionality of the zinc and do not cause corrosion. In the absence of rain or on surfaces sheltered from rain, it is necessary to clean these areas regularly with (warm) water. NedZink is not responsible for the effects of salt deposition.

Anti-Fingerprint (AFP)

An Anti-Fingerprint coating is applied to prevent fingerprints during installation and to optimise machine processing. This AFP gives the material a slightly shiny surface, which will disappear over time.

Protective foil

Upon request, NedZink NOVA can be delivered with a temporary protective foil in order to reduce the chance of damage during processing & handling. NedZink NOIR is supplied with this temporary protective foil as standard. The foil is not permanently UV resistant and is only intended for temporary protection. The foil should be removed immediately after installation on the construction site. The temperature of the zinc must be at least 7 °C when the foil is removed. The foil should not be worked into assembly joints such as standing seams. Moisture between the zinc and the foil must be avoided at all times. If NedZink NOVA or NedZink NOIR are ordered without foil, the material will be more susceptible to scratching during handling.

Installation

Titanium zinc from NedZink can be used in ventilated and unventilated applications. In all cases (either ventilated or unventilated) the recommendations as stated on www.nedzink.com or in the technical instruction handbook from NedZink must be followed.

Zinc is a metal that expands and contracts with changes in temperature. In all cases, there must be an allowance for the free thermal expansion of the material when installed.

Titanium zinc and other materials

- Because of the difference in electrolytic potential, titanium zinc may not be used together with the following metals: copper – lead – iron – gold – platinum – silver – nickel – cobalt – cadmium – chrome – tin – palladium – mercury
- Direct contact with new concrete, lime, bitumen, mortar (and other products that contain cement) must be avoided at all times.
- In connection with leaching, titanium zinc may not be used in combination with thatched roofs or Western Red Cedar wood. For other wood types, please refer to www.nedzink.com or the technical instruction hand book from NedZink.
- Zinc is not recommended for use in combination with the following types of glue: acidic silicones and epoxies, urea/melamine glues, phenol-formaldehyde glues.

Soldering

A major advantage of NedZink material is the possibility of soldering the joints. In places where a solid, watertight joint is required (for example at gutters), soldering is done using a copper soldering iron and lead-tin solder and the appropriate soldering flux.

NedZink NOVA and NedZink NOIR can be soldered in the same way as new natural zinc, but special attention is needed. To obtain a good solder joint, the pre-weathered finishes on the surfaces to be soldered must be removed completely. This can be done by sanding or by rubbing the patina layer with a soldering flux, waiting a few seconds and then removing with a dry cloth. There are several brands of soldering flux that are 'suitable for titanium zinc' that can produce good results. For further soldering advice, please visit www.nedzink.com.

Mechanical deformation

Below a material temperature of 7 °C, the zinc should not be deformed mechanically in order to avoid damage to the zinc (e.g. micro-cracks).

Transport and storage

The zinc must be adequately packed to avoid damage during transportation. NedZink products must always be transported in dry and ventilated conditions. The strips and sheets must be protected against transportation damage (scratching, denting).

NedZink material must be stored in a dry and ventilated area and protected against damage and especially against excessively high air humidity. Outdoor storage is not recommended.

For more information about NedZink products, please refer to the technical instruction handbook from NedZink. This is available for download from our website www.nedzink.com. We can also send you a hard copy by mail. These processing regulations are produced with the utmost care. All information specified in these regulations is according to our current knowledge, and gives information about our products and their uses. No rights can be derived from the content of these regulations.