

Application Notes



for Neher insect screens

Please be sure to follow these instructions and store these Application Notes permanently!

For your safety

- The insect screen is not recommended as protection from falling for children or pets.
- Fitting may only be carried out by qualified personnel.
- Clamping frame: Make sure that there are no people underneath the windows when taking off the clamping frame. Hold on firmly to the clamping frame when taking it off and do not move the clamping frame in strong wind.
- Rotating and swinging frames: Close and lock the insect screen upon any announcement of strong wind (if strong gusts of wind can reach the installation site). The torsion bar of a door closer is under voltage in the installed state. When removing the door, the spring of the door closer must be unmounted carefully. Please make sure that the torsion bar sticks out of the frame of an unmounted door and that you do not injure yourself on it.
- Block magnets: The block magnets used in swinging frames, lateral roller screens and partly also in rotating frames possess a magnetic field which can erase disks or credit cards with a magnetic stripe. Technical malfunctions may happen with pacemakers and implanted defibrillators. Therefore, keep sufficient distance. The necessary safety instructions are in the manuals for these devices.
- Roller screens: The insect repellent meshes of roller blinds are pre-stressed by a spring shaft. Improper disassembly of the mesh shaft may result in injury. Therefore, always contact a competent specialist for maintenance and repair work.



General instructions

- The mesh is very transparent and can therefore be easily go unnoticed. Be careful not to walk into the mesh.
- For roller screens or pleated blinds retract the blind on the announcement of strong wind (storm).
- Despite the use of high quality materials, the fabric and strings of a pleated construction are subject to higher wear than, e.g. swing or sliding doors. Regular cleaning of the fabric and the running rail contributes significantly to increasing the service life.



Maintenance instructions

1 General maintenance instructions

Neher products are low-maintenance, easy to clean and to maintain. If you follow the following cleaning maintenance and service instructions, you will increase the life of the product and ensure excellent ease of use.

Parts subject to wear:

Parts subject to wear are subject to natural technical alteration by UV radiation, heat and water influences, which can lead to strain, shrinkage and fading, thereby having a potential impact on the closing behaviour.

Replacement parts:

Only authorised spare parts may be used to replace worn or defective parts, otherwise you will invalidate your warranty and guarantee claim. Insufficient knowledge or disregard of safety instructions lead to the loss of any liability claims.

Samples, repeat orders, repairs:

Due to technical adaptations, collection or batch-dependent changes, there may be optical differences between the sample insect screens and those actually supplied or in repeat orders and repairs to previously-used insect screens.

Application Notes

for Neher insect screens



2 Frame

Anodizing and powder coating is a particularly resistant and decorative finishing of aluminium components. In order to maintain the appearance for decades, the surfaces necessarily require regular maintenance in the form of cleaning twice a year. To assess the decorative appearance a viewing distance of 3 metres, is to be observed perpendicular to the surface, in diffuse daylight.

Note: diffuse daylight means viewing a slightly cloudy sky outside but out of direct sunlight, where the sun is fully up.

The cleaning of the frame surfaces must not be in direct sunlight. You can use pH-neutral cleaning agents such as washing-up liquid in the usual dilution. Abrasive or abrasive cleaning agents attack the surface and must not be used, as well as steam cleaners.

To remove stubborn, oily and greasy impurities we recommend aroma-free petroleum ether. This must only be allowed to act for a short time and then rinsed with clean water. Please also note the valid safety and operating instructions for the respective agents.

3 Mesh

The mesh stands out with its good tensile strength and high resistance to weathering. If, however, for example, insects or dirt are deposited on it, they can be eaten by wasps and birds. This can lead to small holes in the mesh. Grease and dirt that cannot be removed can also attack the surface of the mesh and cause odour impairment. These cases can be prevented by removing insects and dirt on the mesh. Cleaning should be done depending on the degree of soiling, but at least twice per year.

Cleaning of the mesh is ideally done with a microfiber cloth. This is to prevent static charging of the mesh during cleaning. The cloth must be moistened for this. You may also use pH-neutral cleaning agents.

To remove stubborn adhesions of dust, grease and insect particles, we recommend a rough pre-cleaning with a cleaning pad. To avoid damage the cleaning pads should be applied carefully, especially on older tissues.

Tip for Transpatec mesh:

The Transpatec tissue can be cleaned with a vacuum cleaner. You simply put on the upholstery and vacuum the mesh carefully.

The Transpatec fabric has an environmentally friendly anti-soiling coating without organic solvents and softeners since 2020. This means that although a large proportion of the dust and dirt particles are still filtered out of the air flowing through, they no longer stick to the fabric. Even a minimal wind is enough for these particles to fall off the fabric.

There are also microscopic particles in the air that are not visible to the eye but can still settle on the fabric. These are washed away by water (rain), but not by the air. However, UV- radiation causes these particles to decompose and then adhere slightly sticky to the surface. Once the decomposed particles have reached a critical quantity, the dirt adheres to these particles and thus to the fabric. The fabric must then be cleaned. Depending on environmental influences this should be done after 1-2 years.

Tip for anti-pollen mesh:

The mesh has a special coating which „attracts“ the flying pollen and holds it on the thread. Particles deposited like this should be removed regularly and according to the degree of soiling. For this purpose, we recommend that you simply rinse the mesh in running water. To dry, please use a dry, soft, lint-free cloth with which you gently dab the mesh (DO NOT RUB). Cleaning agents other than water should be used on this specially-coated mesh only for very heavy soiling. In these cases you can use detergents which are suitable for functional textiles (e.g. anoraks, sportswear, and coats of membrane meshes or microfibers).

In order not to attack the mesh coating, you need to use these cleaning agents sparingly, carefully and gently. Pollen stuck to the mesh is largely washed away by rain. In heavy rain it can be, however, that the raindrops pass through the mesh of the pollen guard grating and splash against the window pane.

Application Notes

for Neher insect screens



After the water has dried off, the pollen is left behind on the window pane. In this case, we recommend that the window pane is cleaned as soon as possible, since at the beginning these still stick relatively well to the window pane.

Attention: Pollen guards are part of secondary prevention and should not replace medical treatment. Pollen guards prevent pollen from entering the living spaces, thus reducing the allergic symptoms. However, they do not guarantee complete protection against pollen.

Tips for stainless steel:

Stainless-steel meshes are weather-resistant, extremely durable and easy to clean. Sometimes so-called flash rust from the environment outdoors can accumulate on the mesh. This rust is not only visually unattractive, but can also lead to stronger rusting on the stainless steel. Flash rust must therefore be removed immediately. For this, use a soft brush with a pH-neutral detergent, for example. For more serious contamination, a commercially-available stainless steel cleaner will help. Ensure that you rinse all cleaning agents used thoroughly and fully with water. To avoid shifts in the mesh, you must make sure you treat the mesh carefully in the cleaning process.

In light well covers, it is possible that a white deposit forms mainly on the underside of the stainless steel mesh. This zinc oxide is a protective layer that forms between the galvanized steel grating and stainless steel mesh. For both components, it is never a problem and should not be removed, otherwise rust may occur. Contact corrosion: Please make sure that metallic objects (snow shovel made of metal, garden tools etc.) are not placed on the light well cover.

Attention: Please make sure you use no road salt on the light well cover. Also with expanded aluminium meshes.

Attention: In order to avoid damaging the mesh, please make sure not to damage the light well cover with a sharp object, such as a ladder or a chair leg. Also avoid the use of snow shovels on the light well cover. Pointed stones in the vicinity can be „pik- ked up“ by vehicle tires and damage the light well cover.

Tips for pleated fabrics:

Pleated fabrics can be carefully wiped from both sides with a damp microfibre cloth and a pH-neutral cleaner. Alternatively, the fabric can be brushed off dry with a soft clothes brush with little pressure. Please take care not to damage the tensioning cords. Pleats should be pushed together when not in use. This protects against soiling of the fabric and the tensioning cords and increases the service life.

4 Brush sealing

The Neher brush seals are made of silicone and untreated polypropylene and are characterized by, among other things, a good UV resistance. For preventive protection and preservation of the appearance it is advisable to clean the brush together with the frame according to the degree of soiling, but at least twice per year. You can use pH-neutral cleaning agents such as Use detergents in the usual dilution.

Light gap with brush sealing

To achieve an insect-proof connection between the insect protection element and the window, the door, the floor or the wall, brushes are used as a seal. Due to various installation situations, a light gap can be visible. This is not a defect, as a supposedly great light gap measured properly is only a few tenths of a millimetre and is thus smaller than the inside opening of the insect repellent mesh.

Brush seals with swinging doors

The brush seals in the torsion bars and the counter-holder are subject to mechanical stress and may even lose some „hair“ in the beginning. This is a normal process in the course of the pendulum motion of the door and therefore not a defect.

Application Notes

for Neher insect screens



5 Fitting parts

Security-relevant fitting parts such as rotary belts, wheels, spring pins and angle brackets must be regularly checked for tightness and wear. Fastening screws must be tightened if required. All moving parts of the fittings of your Neher element are low-maintenance.

But a little acid-free oil and grease, keep the mechanics running smoothly and ensure ease of use over a long period.

We recommend a maintenance frequency of at least once a year for a tenter frame and at least twice a year for revolving doors. In particular, the curved spinning band pins have to be lubricated at least twice a year to prevent squeaking. With opposite brush seals, it may happen at the beginning that the door closes slightly at an angle until the brushes have adapted to each other.

6 Mounting

Security-relevant fitting parts such as screws, bed parts and Z-rails must be regularly checked for tightness and wear. Fastening screws must be tightened if required.

7 Polycarbonate panel

The transparent, UV-protected and step-safe polycarbonate panel is weather-resistant, does not become brittle and does not yellow as quickly as unprotected plates. Depending on the weather, condensation or „stagnant water“ may form on the polycarbonate plate. This basically represents no problem for the panel. However, the danger of „moss formation“ exists. Depending on your needs, you can find a remedy with the moss and algae annihilator from Neher or a similar commercial product.

Please make sure that only a moss and algae annihilator may be used which is expressly approved for use on plastic panels.

8 Declaration of performance

CE
NEHER Systeme GmbH & Co. KG Wellendingerstr. 15 D - 78665 Frittlingen
15
EN 13561
exterior usage

1	DF-2016-1	DT-2016-1	LI-2016-1	PF/PT-2017-1	RO4/RO6-2017-1
2	DFX/XX	DTX/XX	LIX/XX	PF/PTX/XX	ROX/XX
3	„NPD“	„NPD“	„NPD“	„NPD“	„NPD“
4	0	0	0	0	1

1	RO5-2017-1	SD-2016-1	SP-2016-1	ST-2016-1	PL-2017-1
2	RO5/XX	SDX/XX	SPX/XX	STX/XX	PL/XX
3	„NPD“	„NPD“	„NPD“	„NPD“	„NPD“
4	0	0	0	0	0

1	ref.no. declaration of performance	2	designation of type	3	level of total energy passage	4	class of wind resistance
---	------------------------------------	---	---------------------	---	-------------------------------	---	--------------------------