

USE AND MAINTENANCE OF ROLLER SHUTTERS

Roller shutters and their components have been specially designed to prevent any permanent deformations, at the assumption that they are used in compliance with the intended purpose.

Respective manufacturer's recommendations must be observed at all times when the roller shutters are in use.

Roller shutters are suitable for use in temperatures ranging from -25°C to $+45^{\circ}\text{C}$.

Roller shutters shall not be used when the profile is ice-covered.

In case of strong wind, roller shutters should be either completely open or closed. Windows must be closed or otherwise the roller shutter profiles might be torn out of the guides.

Roller shutters must not be continuously driven with an electric motor for longer than 4 minutes.

When roller shutters are moving (opening or closing), no objects or persons shall be located directly underneath the slats or otherwise proper operation of the roller shutters might be impeded. After full opening of the roller shutter, the end slat with gasket should always be positioned in the side rails.

The following equipment is used to close and open the roller shutters: electromechanical drives equipped with an emergency lifting mechanism (crank with a hook that is provided together with the shutter, which should be used only for emergency opening of the shutters, it is not allowed to use the crank as the main drive), manual drives such as belts, cords, universal couplings with a crank, spring mechanism rolling up the roller shutter curtain.

To prevent any curtain blocking when it is closing (e.g. due to the condition left after the house construction), all dirt in the brush seals installed in the side rails of the front mounted roller shutters must be removed. Users should also e.g. fully open and close their roller shutters at least 8 times a month.

Inspection and maintenance works should be performed at least once in every 3 months in compliance with these instructions. Users may perform basic maintenance works, for which no special licences are required. Such maintenance works shall in particular include: removal of fine sand and other dirt from the curtain and rails as they may scratch the shutter elements or e.g. a visual inspection of the general condition of the roller shutter, inspection in view of any missing parts or efficient operation of all the structural elements.

In case of roller shutters with rolled mosquito nets, net slides in the side rails should be cleaned at least once a month. Failure to observe the guidelines may result in improper net closing and may slow down the full opening of the net.

When performing maintenance works, the following must be observed:

1. Maintenance works must be carried out when the front mounted roller shutters are immobilised, it is best to disconnect them from power supply for the duration of maintenance works.
2. Sharp or abrasive cleaning tools shall be avoided.
3. Lukewarm water and mild neutral detergents, preferably at the temperatures no lower than $+10^{\circ}\text{C}$, shall be used for the cleaning of the roller shutter surface.

NOTE - detergents and corrosive substances may damage or discolour the coating.

Any damage caused as a result of weather conditions or normal wear and tear may not be complained about. Wear and tear of the curtain coating demonstrated via minor scratches appearing after approx. 300 cycles of regular use is classified as normal wear and tear.

In case of any individual re-design of the electrically driven roller shutters, it is necessary to adjust the limit switches. The number of slats in the profile might also require adjustment.

