

K O B B E

D O O R T O D E S I G N

KOBBE INSTALLATION, OPERATION AND MAINTENANCE MANUAL



1. GENERAL GUIDELINES

The installation of the door must be carried out by qualified and trained personnel familiar with standard door installation practices.

When replacing an existing door, the new door set must be inspected prior to removing the old door. The inspection should include verifying that the door corresponds to the order specifications (including dimensions, configuration and model), checking for any visible defects or transport damage, and confirming that all components are complete and in accordance with the delivery specification.

The door should be transported and lifted in the orientation in which it will be installed. During storage, all contact surfaces must be supported with shock-absorbing material. The stored components must be protected from direct sunlight, rain, snow, and wind, and must be kept at least 1 meter away from heat sources.

If installing additional accessories not included in this manual (e.g., door closers), the installation instructions provided by the manufacturer of that accessory must be followed.

2. INSTALLATION

2.1 Preparation of the structural opening

Before installation, the structural opening must be clean, stable and fully prepared. Remove any loose debris, dust, crumbling plaster, damaged mortar, or weakened brick and concrete. The surfaces of the opening must be flat, even and structurally sound.

Measure the opening according to the measurement diagram (Fig. 1). Measurements should be taken at three points in both width and height to determine the correct average dimensions. It is also recommended to measure the diagonals to confirm that the opening is square.

A minimum installation clearance of 15 mm on each side between the frame and the structural opening is required.

The wall into which the door is to be installed must be uniform and suitable for mechanical fixing.

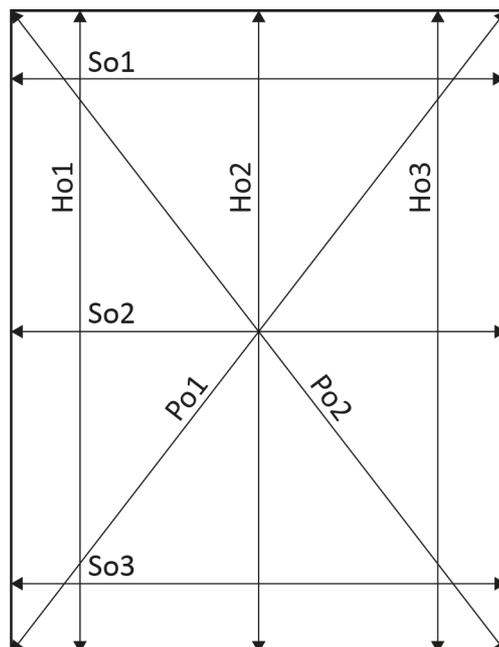


Fig. 1
Measurement diagram of the structural opening.

2.2 Positioning the frame in the opening.

The door frame must be installed in a way that ensures the distribution of forces does not transfer structural stress directly onto the frame. It is important to ensure that the space between the wall and the frame is filled evenly and tightly, to provide proper insulation and to allow operating forces (opening and closing of the door) to be correctly transferred to the wall structure.

Before fixing the frame in place, verify that the frame dimensions are suitable for the existing or newly prepared opening, and that the required installation clearance between the frame and the wall is maintained.

2.3 Installing the frame in the opening.

Place the frame into the prepared structural opening and temporarily secure it using positioning blocks to stabilise it relative to the side walls. Check the frame for correct vertical and horizontal alignment, measure the diagonals, and verify the depth position of the frame relative to the interior or exterior wall face. The hinge and lock sides of the frame must be positioned so that their edges align correctly with the corresponding edges of the door leaf.

The frame should be positioned so that the installation clearance between the frame and the structural opening is consistent along the entire perimeter.

The standard fixing method is installation using mounting brackets intended for the specific aluminium profile system. Alternatively, mechanical anchors (expansion anchors) may be used. Do not remove any temporary supports (such as clamps, positioning blocks) or protective film until the installation is fully completed and the mounting foam has cured and stabilised.

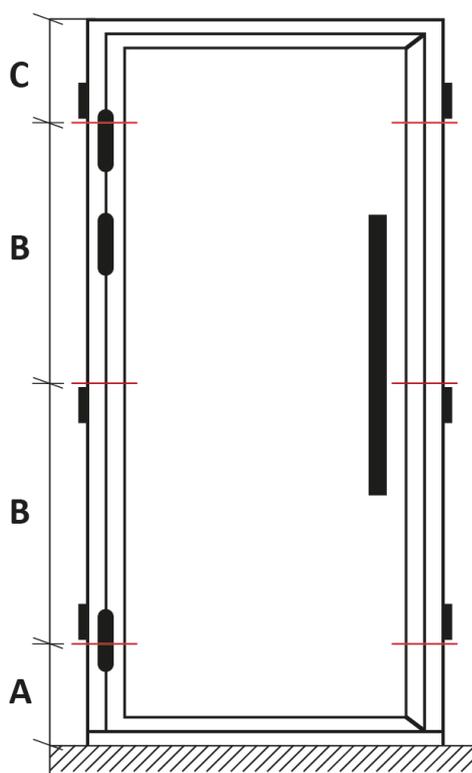


Fig. 2. Vertical positioning of fixing points.

A - distance from side edge of the door frame – min. 100 mm

B - distance between fixing points – max. 800 mm

C - distance from the top edge of the frame – min. 150 mm

To ensure the correct operation of the door assembly, minimum expansion clearances (installation gaps) must be maintained when fitting the frame into the structural opening, as specified in the table below.

		Flush reveal				Rebated reveal		
Length of the assembly [mm]	S	< 2500	< 3500	< 4500	< 4500	< 3500	< 4500	< 4500
Minimum installation gap [mm]	d	10	15	20	25	10	15	20

The recommended fixing depth depends on several factors, including the construction of the wall into which the frame is being installed, as well as the type of anchors, screws or expansion fasteners used. The required drilling depth must always be taken from the technical approval or installation guidelines provided by the manufacturer of the specific fixing element.

We recommend using a thermally broken aluminium sill or extension profile beneath the threshold, and additionally applying a waterproofing layer such as an EPDM membrane (EPDM sill flashing) in this area to ensure effective protection against moisture penetration.

2.4 Sealing

The gap between the door frame and the structural opening should be filled using low-expansion polyurethane foam. The foam should expand to fill the entire gap without overflowing onto the visible surfaces of the frame. When choosing the foam the ambient temperature during installation must be taken in the account. Once the foam has cured, remove all temporary positioning blocks, fill the remaining voids, trim away the excess foam and then check the operation of the door leaf. Adjustments should be made if necessary.

2.5 Finishing works

During plastering and finishing works, the installed door must be protected (e.g. with protective tape or film) to prevent staining or scratching. After all installation and finishing activities have been completed, the protective tape should be removed and all door components should be cleaned using suitable cleaning agents.

The protective film must be removed immediately after the installation has been completed.

3. Inspection after installation

Installation inspection includes verification of:

- positioning and alignment of the frame,
- fixing and stability of the installed door,
- filling and sealing of the gap between the frame and the wall,
- operation of the lock,
- operation of any additional equipment (e.g. door closer, access control components),
- installation and seating of glazing units,
- force required to open the door.

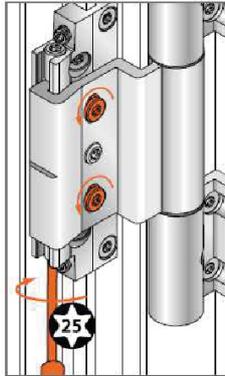
4. Hinge adjustment

- Adjustment should be carried out after all components have been installed.
- All hinges must be adjusted simultaneously, making small incremental changes to achieve the correct final position.
- When adjusting the height, ensure that the load is evenly distributed across all hinges.
- For Premium SL75 and P90 hinge adjustments, please refer to the corresponding manuals. manuals

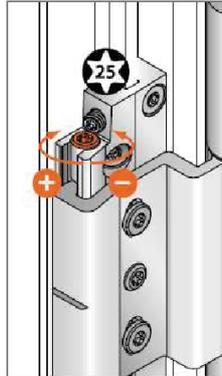
4.1 KB 1.30 Dr. Hahn roller hinges (Prestige 75/95)

TORX 25 key is required for hinge adjustment.

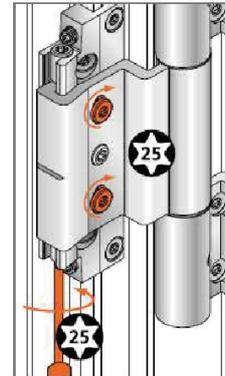
- Vertical adjustment



loosening the hinge screws

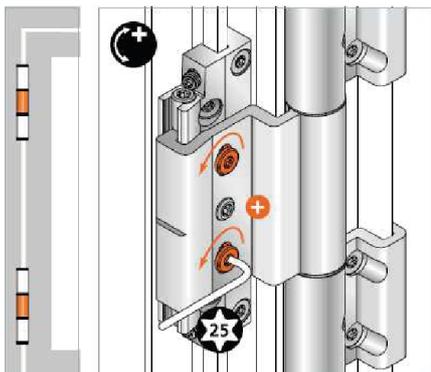


*vertical adjustment
+/- 3mm*

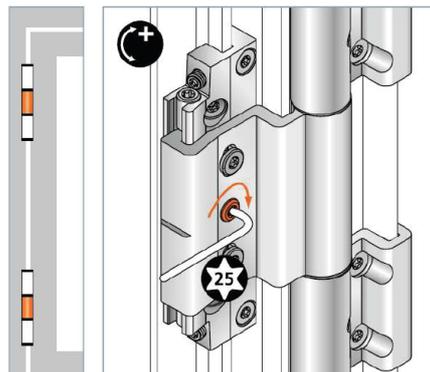


tightening the hinge screws

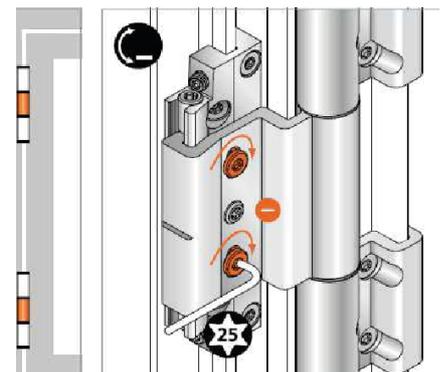
- Side adjustment



loosening the hinge screws



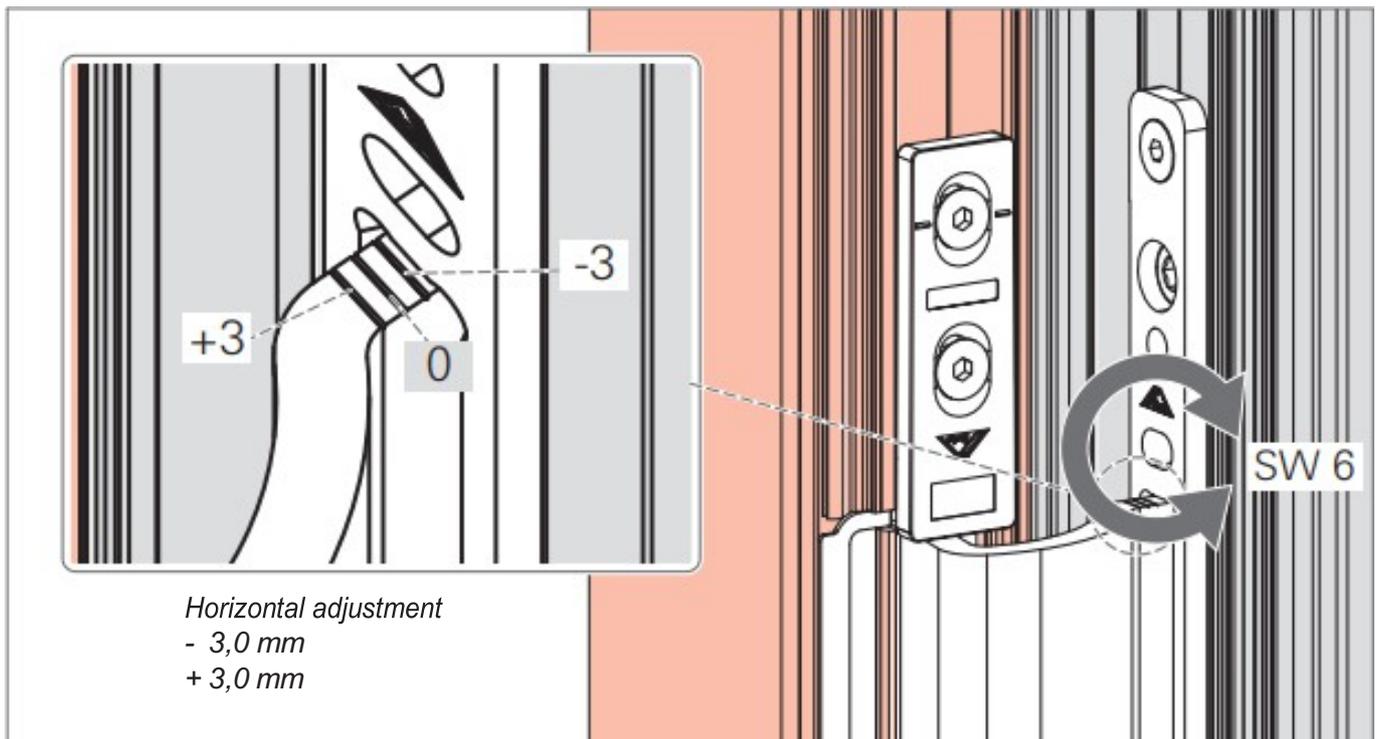
side position adjustment

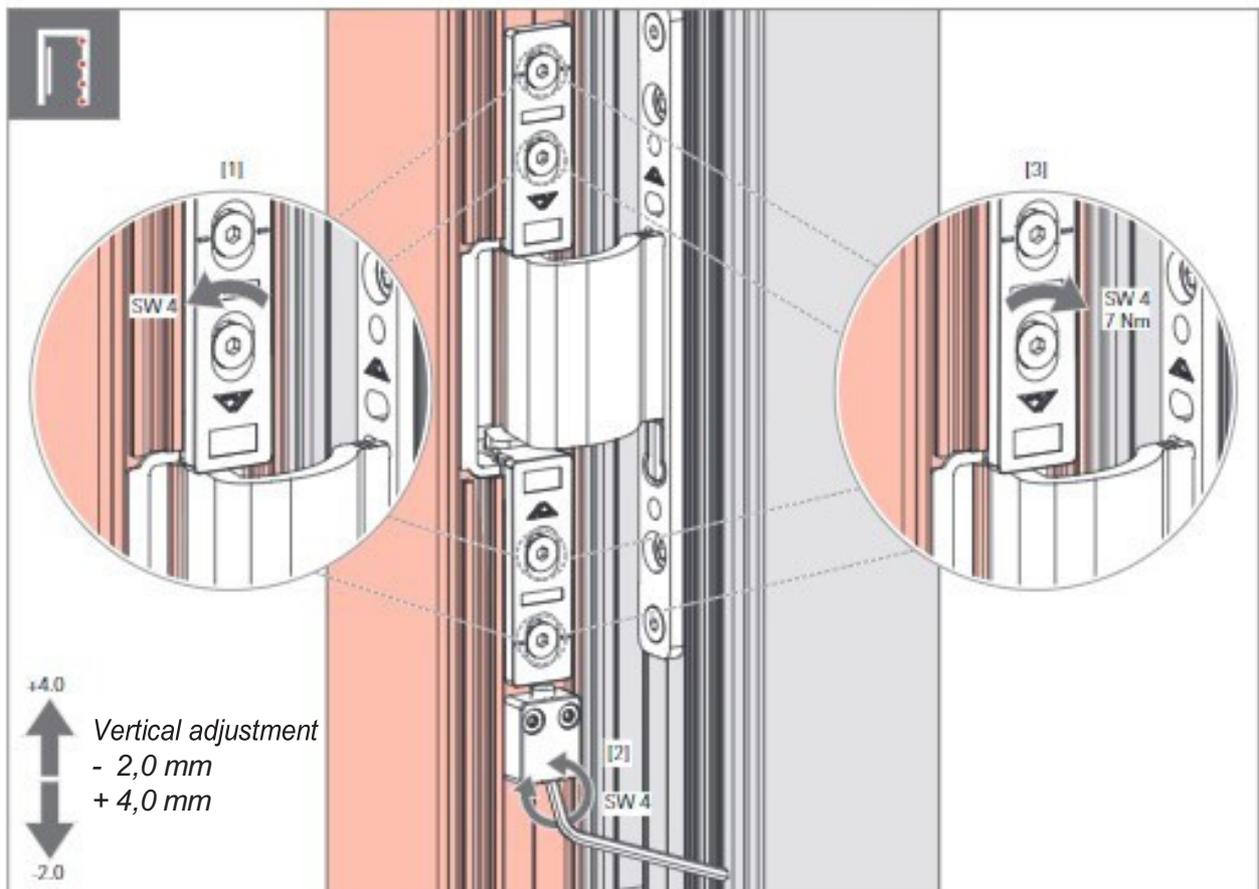
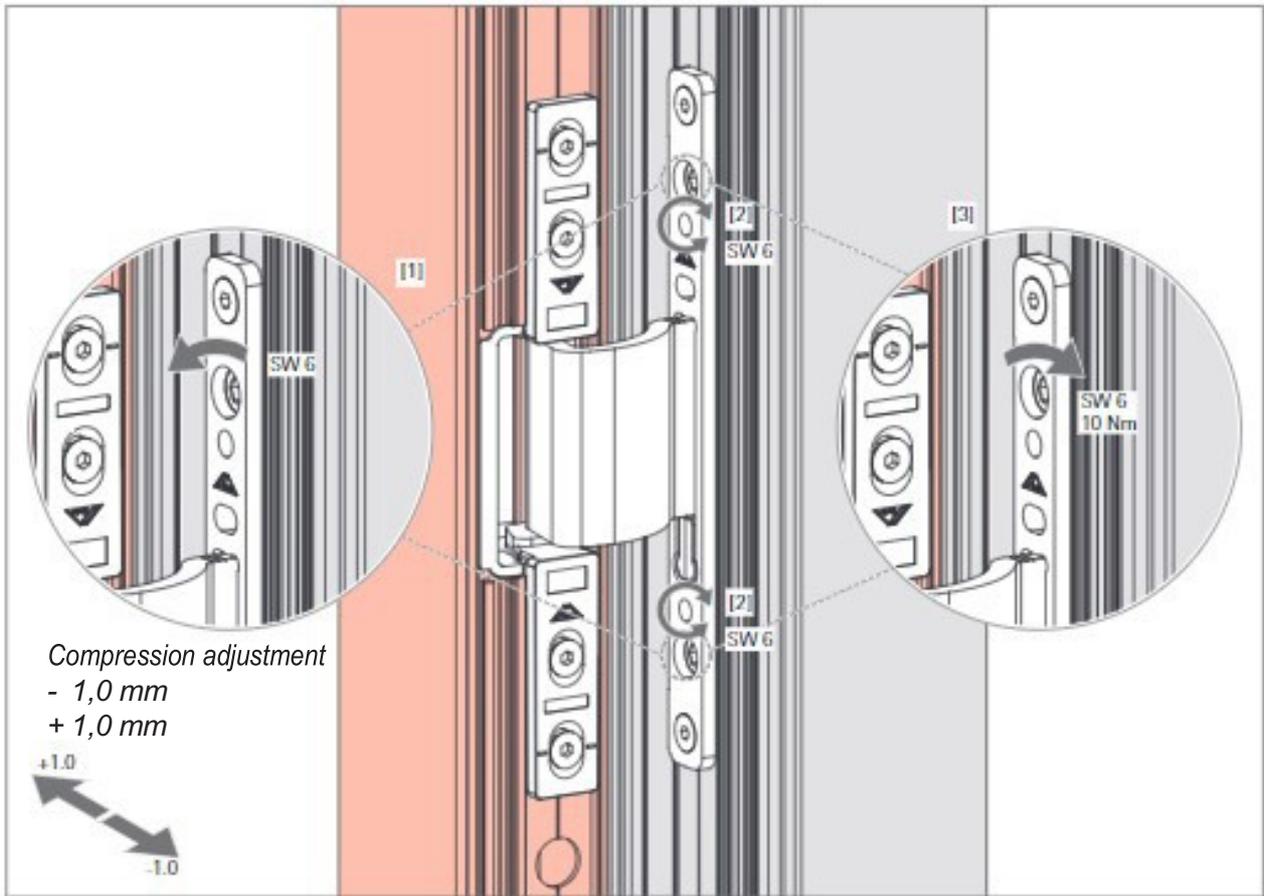


tightening the hinge screw

4.2 KB 1.32 ROTO SOLID C Concealed hinge (Prestige 75/95)

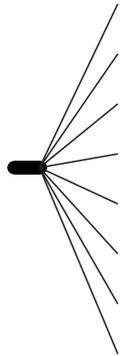
If required, support the door to remove its weight from the hinges before adjustment.



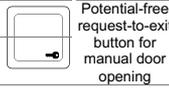


5. Wiring diagram

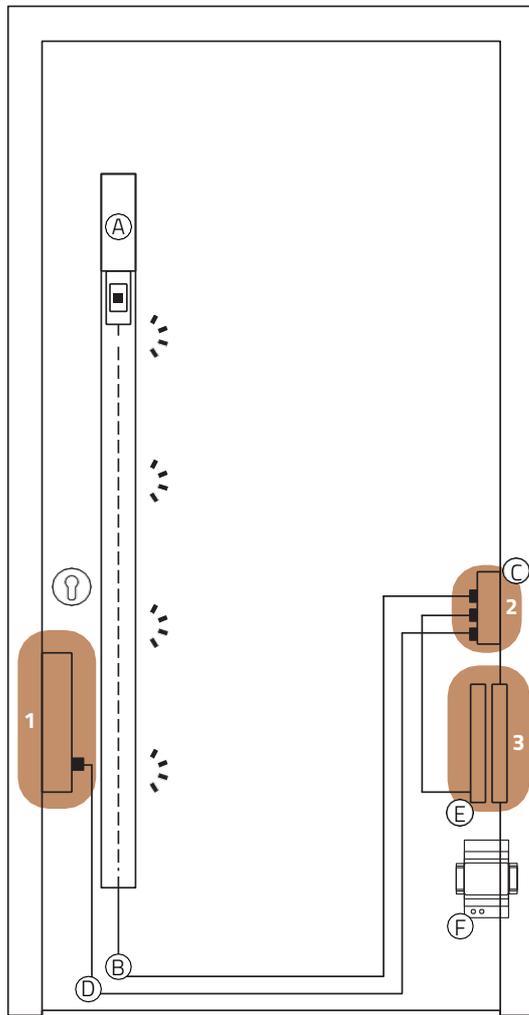
Electrical connection



Colour	Description
white	VDC (+)
brown	GND (-)
green	do not assign
yellow	do not assign
blue	input
grey	input
pink	LED (+)
red	LED (-)



! Each unused cable must be insulated separately!



! WARNING

Risk of electric shock!

Working with 230V mains voltage poses a fatal risk! All work involving 230 mains voltage must comply with the applicable industry regulations and legal requirements. Only certified electricians are authorised to carry out electrical installation work on mains system.

! WARNING

Improper installation or wiring may result in property damage!

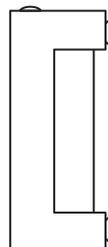
System devices are electrically operated. They may be damaged if installed or wired incorrectly. Ensure that all system devices are properly installed and connected before switching on power supply.

! PLEASE NOTE

To extend lifespan of the LED, it is recommended to use a timer switch or, alternatively, a dusk sensor. Using a timer switch or dusk sensor also reduces electricity consumption.

A	ekey dLine fingerscanner 201001
B	ekey dLine cable 201307 or 201322 + 201326
C	ekey dLine control unit 201201
D	GU Automatic cable
E	ekey dLine detachable cable transfer 201401
F	Power supply HDR-60-12, DIN rail, 12V, 4.5A

Electric strike connection



Pin	Colour	Description
1	grey	12V (-)
2	brown	12V (+)

6. ekey dLine – acces control

Guidelines for installers or electricians

Ekey dline fingerscanner setup.

To begin using the system, your customer will need the “ekey bionyx” app. The app will guide them through the entire commissioning process in a clear and intuitive way.

https://www.ekey.net/Information_sheet_Note_on_activation.pdf

www.ekey.net/en/faq-about-the-ekey-bionyx-system

https://www.ekey.net/Information_sheet_Instructions_for_fitters_or_electricians.pdf

In order to use all the functions of the ekey bionyx system, a stable, password-protected 2.4 GHz WLAN network with at least WPA2-PSK encryption is required in the wireless range of the fingerprint scanner. If no WLAN network is available, a smartphone hotspot can be used for a short time.

7. Maintenance

Aluminium components should be maintained at intervals appropriate to the intensity of use and, in particular, to the corrosiveness of the surrounding environment. Maintenance also applies to parts of the construction that are not directly exposed to weather conditions.

Aluminium door and frame surfaces should be cleaned with water and neutral pH detergents. Aggressive or corrosive cleaning agents must be avoided.

The use of the following cleaning agents is strictly prohibited:

- solvents such as gasoline, acetone or similar substances,
- acidic or alkaline cleaners (e.g., ammonia, caustic soda, lime-based cleaners)
- abrasive cleaning agents or tools that may scratch the surface.

For cleaning, a soft sponge or cloth should be used to avoid damaging the surface.

7.1 Alu Wood collection maintenance

Maintenance of wooden surfaces in doors from the ALU WOOD collection must be carried out periodically. The doors are supplied with a factory-applied finish that ensures protection for approximately 1 year without additional treatment. After this time, we recommend regular care using a natural wood oil. The use of natural oil-based wood protection products provides effective resistance against weather exposure (UV radiation, moisture and frost). Before applying the oil, the surface must be dry, clean, and free from frost. The oil is ready for use without dilution; mix thoroughly before application. If dirt cannot be removed by cleaning, the surface should be lightly sanded using sandpaper with grit 220–250, and then the dust must be removed completely. Since the final appearance depends on the wood characteristics, we recommend performing a test application on a small area first. Apply a thin coat of oil in the direction of the wood grain using a suitable brush. Allow the coating to dry for 4–6 hours. For maintenance or renewal, one coat is sufficient. The full drying time is at least 12 hours, and may be longer depending on environmental conditions.

The ALU WOOD collection also includes aluminium components, which do not require special maintenance and should be cared for in the same way as aluminium surfaces in other collections.

7.2 Stainless steel maintenance

During construction or renovation works, stainless steel pull handles and other stainless steel components must be protected against dirt, contamination and mechanical damage. After completion of the works, the surfaces should be cleaned and maintained.

Only cleaning products specifically intended for stainless steel should be used, for example:

- 3M Stainless Steel Cleaner & Polish – removes dirt and protects the stainless steel surface, leaving a thin protective layer that masks minor marks and slows re-soiling. Regular use makes subsequent cleaning easier.
- RAKSO stainless steel wool, grade 00 – for heavy contamination, stainless steel wool may be used together with 3M Stainless Steel Cleaner & Polish to effectively clean the surface.

The following must not be used:

- strong powders or cleaning agents containing chlorides, acids or other aggressive chemicals,
- abrasive cleaning materials (e.g., sandpaper, rough brushes), as these can scratch or permanently damage the surface.

The warranty does not cover mechanical damage, normal wear and tear, or damage resulting from improper or non-intended use of the product.