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Exterior door installation and maintenance manual

In the manufacture of the doors, the instructions given in the instruction manual RT 42-11058-et, February 2012, have been followed. The important features of the product are stated in the performance declaration TD No. 004/CPR-2013-07-01. Other performance characteristics according to the CE mark, which can be found on the website www.uksetehas.ee

Please read this manual carefully before installation. The person responsible for the construction work must ensure that the following requirements are met. The signed installation and maintenance instructions must be available if necessary and will be added to the building's completion documentation at a later date.

Order No. _____

Contracting

entity: _____

Responsible person (name, signature) _____

Door marking: _____

Installation company: _____

Installer (name, signature) _____

Date: _____

Upon receipt of the order:

Check that the specification and quantity of the goods correspond to those indicated in the accompanying documents (invoice). Please submit comments and complaints to the seller within seven days of receipt of the goods.

To protect the products from dirt and possible mechanical damage during transport and handling, the door sets are always delivered assembled and packed in a polyethylene plastic bag. Corrugated cardboard boxes are attached to the longer sides of the frame for extra protection. One side of the box shall bear the following information:

- production order number;
- customer ID
- production order pos. No
- door set dimensions or module designation, e.g., M10x21
- the handiness of the door set.

Transport packaging is not suitable for the long-term storage of products on site.

In the event of transport damage, a corresponding note must be made on the consignment note of the transport company upon receipt of the goods. It is not permitted to install a defective or damaged product without the permission of the manufacturer!

The door factory does not reimburse the additional costs caused by the installation of damaged products.

Pre-installation storage

The exterior door is packed in a transport package that only protects the door set during transport and handling. When moving by hand, it must be taken into account that larger door sets can weigh more than 80 kg, in particular, to avoid falling into a corner. Doors must be stored in dry conditions. In outdoor conditions, the doors can be stored properly protected from precipitation for a maximum of 12 hours; longer storage in outdoor conditions may damage the product, as the ventilation under the packaging film is not sufficient, and moisture begins to condense.

The exterior doors are made of wooden materials, which tend to swell under the influence of moisture, and in the worst case, this can lead to cracking of the finishing layer and breakage of the adhesive joint.

The manufacturer accepts no liability for moisture damage caused by improper storage or processes in progress or on-site (casting, tiling, finishing, etc.).

Installation of doors

The door is intended for use as an exterior door of private houses and public buildings. To protect the door from direct precipitation and UV radiation, it must be installed in a wall recess at least 1 meter deep, or a canopy at least 1 meter wide should be installed, extending at least 0.5 meters from the sides over the doorway. The passage gap of the doors is designed to ensure the required performance characteristics of the fire doors; therefore, special care must be taken with the installation work, and we strongly recommend the use of an experienced installation team.

The manufacturer is not responsible for errors or possible inconveniences during operation due to incorrect installation.

The door leaf or the frames must not be machined or adjusted in any way, and they must not be fitted with accessories not intended for them!

When installing the door set, proceed as follows:

1. Carefully remove the door from the package, then remove the door leaf from the frame by lifting the door leaf off the hinge pins. Lean the door leaf stably on the side of the adjacent wall, first placing pieces of corrugated cardboard between the lower edge of the door leaf and the floor and between the upper edge and the wall to prevent damage to the door leaf or wall.
2. Make sure that the structural opening in which you want to install the door is 20-40 mm larger than the external dimensions of the frame; the maximum permitted distance on both sides is 20 mm and on the top is 30 mm. If the sealing cracks are larger, the opening must be corrected.
3. Make sure that the surface below the door sill is smooth and level. If necessary, support the gap under the door sill with wedges or wooden blocks to prevent possible deflection when stepping on the sill. Wedges or blocks must also be placed under the ends of the upright frames.

NEVER PLACE THE DOOR FRAME DIRECTLY ON THE CONCRETE FLOOR! Use WATERPROOFING MATERIAL across the entire width of the frame before you lift the frame into the opening.

4. Raise the frame into the opening and fix it with wedges from the upper and lower corners at right angles to the vertical position (see **Figure 1**); check the leveling of the top jamb with a spirit level. The structural opening in which you start to install the door must be dry!
 5. Start attaching the frames to the lower hinge of the vertical frame on the hinge side; if necessary, drill a hole in the wall through the mounting hole in the frame for the dowel. Place additional wedges or support block above the mounting hole (behind the lower hinge) and secure the frame firmly with the Ø6*90/120 mm screws, see **Figure 1 pos. A**. Fasteners must be selected according to the type of wall (concrete, brick, lightweight block, wood, etc.), if necessary, consult the seller of fastening accessories. The depth of the screw fastening in the wall must be at least 40 mm. The recommended installation is with special adjustable frame
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screws Ø6*120 mm (JAMO Schraube Typ 4, AW 30, galvanized steel, manufactured by Adolf Würth GmbH & Co. KG). If the gap between the wall and the frame is 10 mm or less, screws measuring Ø6*90 mm can be used for installation. Plastic or metal dowels with min. dimensions Ø8*40 mm according to the wall type can be used.

6. Then place additional wedges or a support block under the upper mounting hole (behind the upper hinge), double-check the verticality of the hinge-side upright frame with a long spirit level, and fasten, see **Figure 1 pos B**.
 7. Proceed in the same way with the rest of the mounting holes on the hinge-side vertical frame, make sure that the frame is not curved and is completely vertical, then tighten the screws completely. If special ex-post-adjustable frame screws are used to fasten the frame, the wedges can be omitted in some places behind the mounting holes, but in no case at the outer corners or behind the top/bottom hinge, see **Figure 1**). For safety reasons, the wedges or support block must also be placed behind the lock strike.
 8. Wedge, support, and secure the vertical frame on the lock side of the frame by from time to time checking the verticality with a long spirit level. Check that the door opening (light opening) is of the same width; if necessary, adjust with screws and wedges. Place the door leaf in the frame. Check that the door leaf opens and closes freely and, if necessary, make ex-post adjustments to the vertical frame on the lock side so that the front surfaces of the door leaf and the frame are flush with the entire height of the frame. (The locking of the wind latch and the pressure on the seals can be slightly adjusted with a lock strike after final installation and sealing).
 9. Check that the passage gaps between the door frame and door leaf are equal and within the range of 1.5-3 mm. Fine adjustment of the clearances is made after the final installation and sealing of the frame, see "Hinge adjustment" below). Care must also be taken to ensure that there are no cracks between the upright frame and the top jamb/door sill; tighten the corner wedges if necessary.
 10. Check that the diagonals are even and the upright frames are vertical in both directions, then tighten the locking screws on the lock side completely.
 11. The mounting holes shall be covered with plastic caps (included).
 12. The crack between the door frame and the wall is sealed with insulating material (assembly foam, stone wool, glass wool); see **figure 2**. Sealing must be done carefully, and it must be ensured that the frames do not bend due to excessive use of sealing materials.
 13. The installation gap is covered on both sides with suitable slats, min thickness of 12 mm, or finish the panels up to the door frames, using suitable masking tapes to protect them if necessary; see below the section "**On the use of masking tapes and films on exterior doors.**"
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14. In order to prevent the door leaf from warping, we recommend maintaining a maximum internal temperature of +20°C in the hall or storm porch.

► Adjustable frame screws

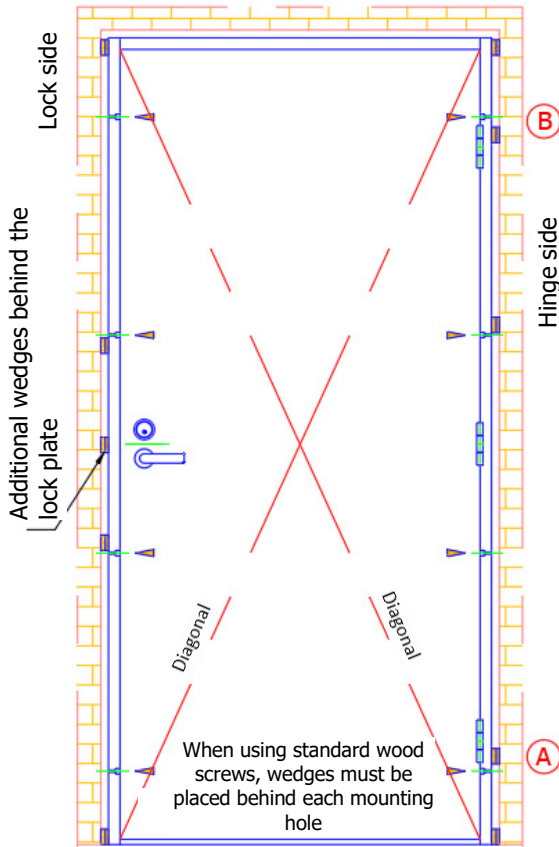


Figure 1. Fixing the door frame in the structural opening. In order to prevent the frames from twisting, and to seal the cracks between the vertical frames and the upper beam and the door threshold, paired wedges or support blocks must also be placed in the lower and upper corners.

Remember! Exterior doors can be heavy, and care must be taken when moving or installing them manually.

Special silicone seals are used in the door leaf and frame, which exert counter pressure when the door is closed, which is why it may happen that sometimes the door does not close properly.

Check the locking of the tumbler manually.

In places exposed to the wind, a door stopper or a shutter with an opening limiter must be used to prevent the door leaf from bursting open.

Hinge adjustment

The used door hinge N3248-110 TMKSS allows vertical and horizontal adjustment

Door leaf adjustment up/down; see **Figure 3.**

Remove the protective cap **1** (5 mm hex key) on one door hinge.

By turning the hexagon bolt below it **2** (with a 5 mm hex key) clockwise, the door leaf moves upwards (one full turn raises the door leaf 1 mm); when turning the bolt counterclockwise, it moves downwards. When the door leaf has risen to the desired height, adjust the other hinges in the same way so that the weight of the door leaf is evenly distributed between the hinges. Slightly tighten the upper protective caps **1**.

Adjusting the lateral passage gaps, see. **Figure 3**

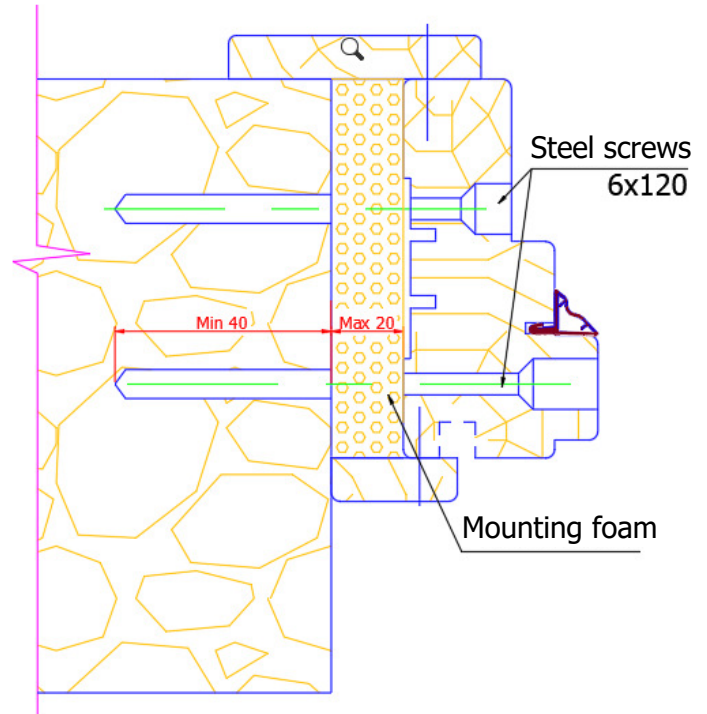


Figure 2. The mounting gap between the door hinges and the structure opening is filled with mounting foam.

Open the door leaf so that the frame-side hinge mounting screws can be accessed without hindrance. Loosen the middle hinge mounting screws **3** with a cross-head screwdriver by approx. 1.5 turns. Turn the adjusting bolts **4** (4 mm hex key) clockwise to increase the passage gap on the hinge side (one full turn moves the door leaf by approx. 2 mm). Turn the adjusting bolts **4** to the same depth, and carefully tighten the fastening screws **3**. If necessary, make the same adjustments at the upper hinge. It is important that the axis of the middle hinge is in line with the axis of the upper and lower hinges. Finally, retighten the fastening screws **3** of all hinges.

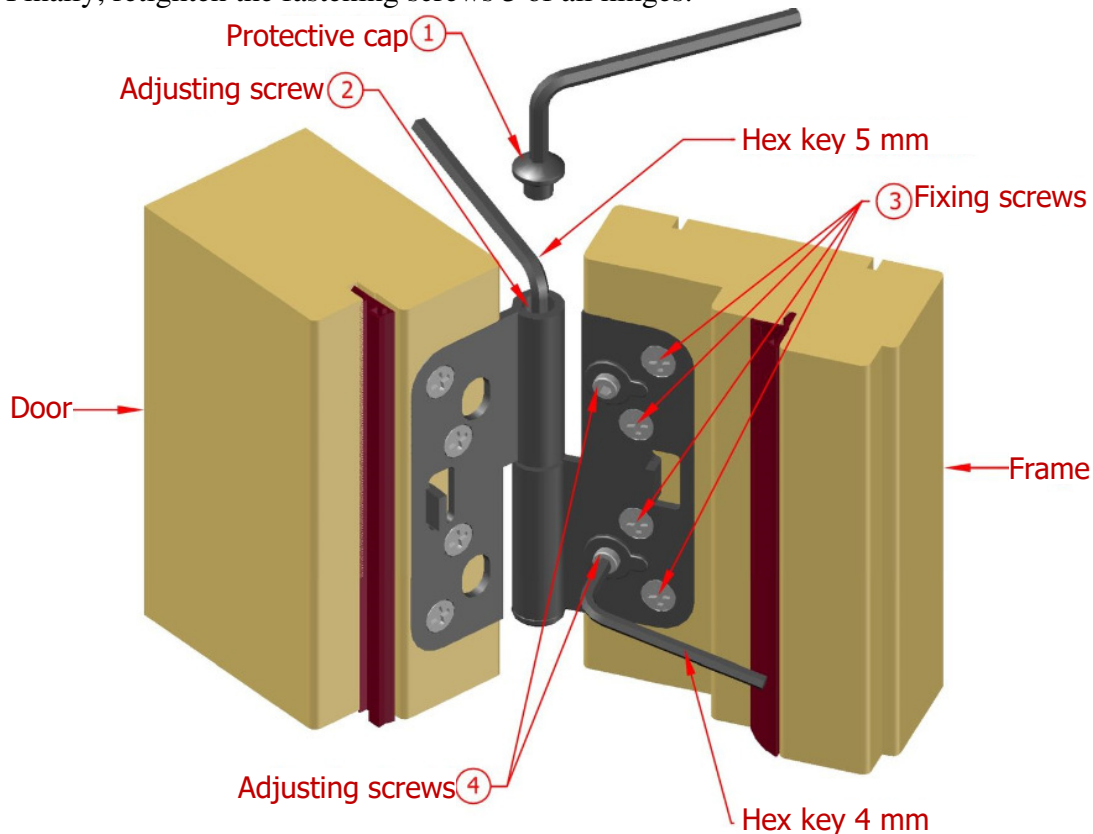


Figure 3. Hinge adjustment

Remember! The adjustment of the hinges corrects the position of the door leaf in relation to the frame (passage gaps); it cannot be used to eliminate the curvature of incorrectly installed frames. Regular lubrication of the door hinges twice a year improves their performance and prolongs their service life.

The use of masking tapes and films on doors

When finishing the surfaces adjacent to the door, it may be necessary to cover the door leaf and frames with painting film.

The following must be taken into account when taping:

- Follow the tape manufacturer's instructions.
- The tape used outdoors must be resistant to moisture and UV radiation.
- The surfaces to be taped must be clean and dry.
- Remove the tape immediately after finishing the work. Softeners added to improve the adhesion of the adhesive layer of the paint tape may damage the finish.
- When covering the product only partially from the sun, differences may emerge in the shade between the covered and uncovered parts

If in doubt about the suitability of the tape, try it on a smaller and less visible surface first.

The manufacturer accepts no liability for defects caused by improper use of the tapes - tears in the veneer layer, changes in the color, or removal of the finishing layer.

Lock and hinge maintenance

To keep the lock and hinges working flawlessly, oil all moving parts with lock oil at least twice a year. The edge of the locking plate must also be oiled so that the door can be closed without pressing the handle down. Check that the bolts on the handle, lock frame, and keyhole are properly tightened. Remember that the locks only work if the doors are properly closed. At least 1x a year, check the passage gaps and adjust the hinges and lock plate. Since double seals are used in an exterior door, the latching of the lock tongue must be checked manually by pulling or pushing the door leaf.

During the operation of the product, the necessary adjustment and maintenance work mentioned above, as well as damage to the product caused by the use of an unadjusted product, are not covered by the warranty.

Surface care

Finished surfaces must be kept dry. Any stains must be removed immediately to prevent them from drying or absorbing. Clean the surface of a painted or laminated door with a soft cloth, if necessary, using a general cleaning agent in the prescribed ratio with water. The cleaning agent should be sprayed on the cloth, not on the surface to be cleaned. If, after cleaning, the surface remains wet for more than 30 seconds, the surface should be dried, not allowed to dry.

Care must be taken when cleaning surfaces with teak wood (teak wood) veneer with a damp cloth, excessive use of water makes the surface mottled.

We recommend cleaning the door glass with a standard glass cleaner using a soft cleaning cloth.

Do not use disinfectants or solvent organic compounds such as acetone, alcohol, gasoline, nail polish remover, etc., to clean the surfaces of doors and frames. Also, pastes and liquids containing bleaching and abrasive substances, scouring powders, brushes, and other mechanical aids must not be used.

When using disinfectants containing alcohol, never spray them on a painted or varnished surface, but pour or spray them on a soft cleaning cloth and then clean the handles, key sockets, rosettes, and other surface mounted fittings.

Exterior doors topped with teak wood veneer are factory-finished with a tinted, solvent-based wood stain. At least during the 1st year after the door is installed, the door leaf and frame should be refinished, and in the future, this should be done once a year. The glaze can only be applied to a clean and dry surface. To renew the finish, *Vivacolor Villa Lasur* solvent-based wood stain must be used, which can be tinted in a hardware store according to the following codes:

TVT 0048 - corresponds to Uksetehas finish "Teak 3."

TVT 0015 - corresponds to Uksetehas finish "Teak 7."

TVT 0078 - corresponds to Uksetehas finish "Teak 11."

We recommend cleaning oiled surfaces at least every two years with a sponge or cloth moistened with water or a neutral cleaning agent solution. If the surface coating has worn out, or become dull or pale, then the entire door set must be finished 1-2 times, depending on the oil coverage capacity. To obtain oil with a suitable shade, contact OSMO Baltic OÜ, www.osmo.ee.

Operation and maintenance of escape doors and locks

Escape doors and fittings must be regularly inspected by a person appointed by the official in charge of the building or establishment. The frequency of inspections shall be determined by the staff member responsible but shall take place at least quarterly. The inspection and, where necessary, maintenance of escape doors and locks must ensure their proper functioning in an emergency.

The manufacturer reserves the right to make changes.
