

ERKADO STEEL DOORS

WARRANTY CARD AND INSTALLATION INSTRUCTIONS FOR STEEL DOORS

Thank you for purchasing ERKADO doors. We hope that they will meet your expectations.

Please read the warranty conditions and the installation instructions before starting any installation works.

WARRANTY TERMS AND CONDITIONS

1. The Warrantor grants to the Buyer a warranty on the terms and conditions specify by:
 - Directive 2011/83/EU of the European Parliament and of the Council of 25 October 2011 on consumer rights,
 - Directive 1999/44/EC of the European Parliament and of the Council of 25 May 1999 on certain aspects of the sale of consumer goods and associate,
 - other provisions laid down in European Parliament and Council Directives.
2. The subject of the sale is external doors or their parts (door leaf or door frame).
3. The warranty period is 2 years from the date of delivery, but no longer than 36 months from the date of manufacture indicated on the packaging.
4. The Buyer is obliged to report a product defect within a period of 6 months from the date the defect is detected.
5. The warranty does not exclude, limit or suspend the Buyer's rights under applicable national legislation on consumer rights.
6. The warranty covers physical defects of the Product, inherent in the product itself, hidden and invisible during the purchase and revealed within the warranty period.
7. Obvious defects, in particular: quantitative, dimensional, shall be reported at the time of delivery.
8. A defect that cumulatively meets the following criteria is considered an obvious defect:
 - visible from a distance of not less than 1,5 m,
 - assessed with the unaided eye in diffused light, at an angle of 90 degrees.
9. Do not install in case of the presence of defects qualifying to a complaint – keep the label with the product number for clear identification of the product.
10. The individual parts of the door, not the whole product, are subject to the replacement based on complaint.
11. The entity authorised to accept the complaint is the Warrantor.
12. Complaints are dealt with within the time frames specified in the national legislation. The time frame for processing automatically and without notice is extended due to delays or failures of the Buyer.
13. The warranty does not cover:
 - mechanical damage,
 - deformation (distortion, warping) occurred during use,
 - differences in shades resulting from production technology or the reproduction of natural wood structures,
 - spot discolouration due to production technology,
 - scratches on the glazing if one scratch is no longer than 15 mm or the sum of the scratches is less than 45 mm,
 - optical distortion of the glass due to changes in atmospheric conditions (temperature, pressure),
 - uneven glass cut edges: uneven surface, excessive grinding and chipping not visible from a distance of 1 m,
 - inaccurate application of paint on the glass, streaks from the roller and uneven distribution of the paint coating, not visible from a distance of 2 m,
 - air bubbles up to 2 mm in diameter with a maximum of two bubbles within the visible plane of the glazing.
14. The Buyer loses warranty rights for defects caused by:
 - removal of dirt, adhesive tape, etc.,
 - introduction of unauthorised structural changes,
 - peeling off of the laminate foil due to improper operating conditions,
 - carelessness, negligence or ignorance,
 - consequences of faulty installation,
 - other resulting from misuse of the Product.

INTENDED USE OF THE PRODUCT

1. The Product is designed to close openings in the walls:
 - internal (dwellings, stairwells, garages located inside residential buildings) with a relative humidity not exceeding 50-60%,
 - external space separating the internal space of the building from the external space.Installation is not permitted in rooms with high humidity (swimming pools, saunas).
2. Use the handle, knob, pull handle or other hardware to open and close the door.
3. Technical requirements of the building should be taken into account when selecting an appropriate door type with respect to applicable standards and regulations.
4. The door leaf should be installed on a door frame that provides the correct functional and performance characteristics.
5. Closing the door leaf with the extended locking elements is not permitted, as it poses the risk of damaging the locking mechanism, the lock and the door frame.
6. The defects that are not dependent on the production processes, in particular:
 - colour differences in the laminate foil or paint between the elements of the door assembly (door leaf and door frame on both sides) and between separate door assemblies,
 - changes in the colour intensity of the coating caused by weathering during use,
 - the visibility of the structural elements around the perimeter of the door leaf,
 - difficulty in closing the door due to strong winds, draughts and air cushion effects in e.g. the hallway, porch,
 - automatic opening of doors with an electric door strike with day/night function, under the influence of wind, draught, leaning against the door leaf, when the electric door strike is switched to the (day) function.
7. Doors installed on the outside of the building must be protected from direct UV radiation, flooding and contact with the ground. To ensure the above conditions, it is recommended to install the door in the wall opening or the use of a canopy complying with the conditions specified in this document is required. It is advisable to install side screens.
8. Protect doors from damage by sudden gusts of wind, e.g. by using a self-closing device with a brake function.

9. The door kit includes basic mounting accessories (e.g.: anchors). Passive house installation must be notified and consulted with the service provider in order to match the appropriate installation system. The Warrantor is not responsible for the arrangements, methods and accessories required for the passive house installation.
10. We recommend that you have a qualified electrician carry out any work that requires connection to the electrical system. **ATTENTION!** Incorrect connection of the door leaf poses a risk of short-circuiting the installation and damaging or destroying the door and installation components, which is not covered by the warranty.
11. The power supply offered from the factory is suitable for operating the devices, including the electric door strike, supplied in the door kit. The Warrantor does not provide the possibility to connect other devices purchased outside the door kit. Overloading the power supply poses a risk of permanent damage to the power supply, the electric door strike and the installation.
12. **ATTENTION!** Choosing an electric door strike with day-night function requires the use of a self-closing device, which prevents the door from self-opening due to air blasts.
13. Adequate ventilation shall be provided in the room to avoid condensation on the surface of the door frame and to reduce the risk of warping of the door leaf due to high humidity.

RULES OF SAFE USE AND MAINTENANCE

1. Remove soiling with a soft cloth using a neutral cleaning agent in accordance with the manufacturer's recommendations; wipe with a wet cloth and wipe, leaving the surface dry. Scrubbing is not allowed.
2. The Warrantor is not responsible for any side effects of the use of cleaning agents other than those permitted. Before using them, it is advisable to carry out a test on a small area in an hardly visible place.
3. Every 6 months, using appropriate preparations (we recommend a preparation for steel door care - Figure 29), maintenance should be carried out as follows:
 - protecting the seals with a cleaning and maintenance agent,
 - checking the correct functioning of the hinges and adjusting and maintaining them if necessary,
 - checking the stability of the screws holding the fittings and adjusting them if necessary,
 - cleaning deposits and dirt from stainless steel decorative elements using recommended cleaning agents.
4. Protect against moisture and wetness during storage.
5. It is strictly prohibited to:
 - transport, handle and store in a position other than upright by placing it on its lower edge,
 - assembly and storage in rough, unventilated, damp or very sunny rooms,
 - clean and perform maintenance, using chemical preparations containing corrosive substances, abrasive materials and substances that cause discolouration and damage,
 - dose cleaning agents directly onto the glued or laminate foil surface,
 - slam, hang heavy, wet or sticky objects, etc.
6. During the installation, use and maintenance, the applicable health and safety regulations must be strictly observed, in particular:
 - read and follow the instructions on the mounting foam label,
 - use efficient tools in accordance with their intended use during assembly,
 - use a handle, knob, pull handle or other suitable hardware to open and close the door.
7. Any adjustments required due to deterioration of the functional characteristics arising during use must be carried out immediately by qualified specialists (out-of-warranty service).
8. The product does not contain any dangerous substances as defined by Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006.

INSTALLATION INSTRUCTIONS

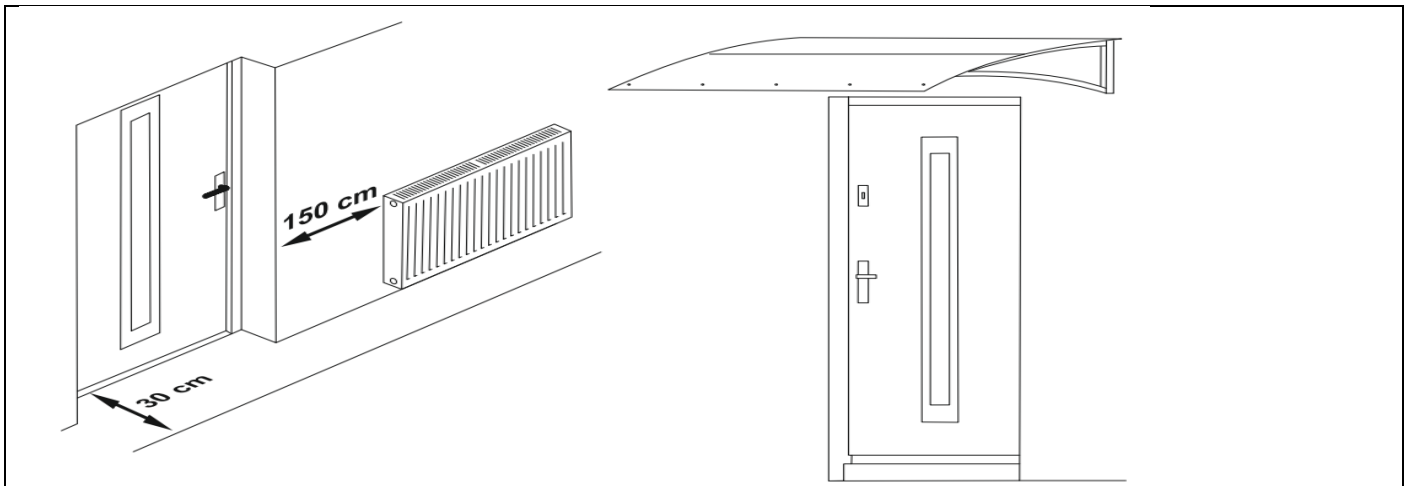
BEFORE INSTALLATION

Drawings illustrating the installation steps are included at the end of the book. The red colour indicates the elements to which special attention must be paid during installation.

ATTENTION! MOUNTING OF DOORS ON THE WALL WITHOUT A CANOPY IS CATEGORICALLY FORBIDDEN!

If the permanent roofing is made after the door has been installed and after the construction work has been completed (e.g.: after the house facade has been insulated , a temporary roofing must be made before the door is installed to prevent the upper rebate of the door from being flooded. Water running down the external wall and wetting the rebate leads to a loss of conditions and irreparable damage, which is not covered by the warranty.

1. Prepare the wall opening taking into account the following mandatory requirements:



Ensure adequate distance between the door and the heat sources: minimum 150 cm from wall-mounted radiators, minimum 30 cm from radiant heaters (underfloor heating, wall heating). When using radiant heaters, protect doors from direct heat exposure.

Protect the door from direct exposure to UV radiation and precipitation by using a canopy over the door with a minimum depth of 1 m. The minimum width of the canopy is the sum of the door width plus 0,5 m on each side.

2. Prepare assembly tools and accessories: screwdriver with bit set, allen keys, screwdriver, hammer, 2 m spirit level, angle iron, silicone gun, low-compression assembly foam, assembly screws or anchors, wedges, expansion strips, safety tape, assembly adhesive.
3. Carry out a preliminary visual inspection of the door before removing the protective packaging.
4. The use of qualified installation teams, with a minimum of 2 persons, is recommended.
5. Carry out the work in accordance with construction and health and safety regulations.
6. Installation can begin once the masonry work has been completed and the floor and plaster have dried.
7. Clean the floor and check the preparation of the wall opening, especially the proper level of the place where the door will be fitted.
8. The door kit includes basic mounting accessories (e.g.: anchors). Passive house installation must be notified and consulted with the service provider in order to match the appropriate installation system. The Warrantor is not responsible for the arrangements, methods and accessories required for passive house installation.
9. Carry out a preliminary visual inspection of the product before removing the protective packaging. Check the order for completeness.

Door equipment (depending on configuration purchased):

- installation kit (10 door plates and mounting studs for the aluminium door frame version or 12 mounting studs for the steel door frame version; for all wall types),
- a handle/bar set with a handle, double-sided or single-sided (model, colour and class as per order),
- an insert or set of inserts (colour and class as ordered).

Additional equipment (optional):

- threshold foundation (height according to order) including mounting plates,
- power supply for the electric door strike
- pull door handles (colour, model and length as ordered),
- arm door closer, rail door closer or elements of a concealed door closer, which is partially fitted (as per order) (as ordered).

INSTALLATION OF STEEL OR ALUMINIUM DOOR FRAME DOOR LEAF

1. The factory-packed door is a set: door leaf put on the door frame and protective packaging (Figure 1). Check the basic dimensions according to the table at the end of the instructions (TAB 1-8).

Designations: **ALU** – door with aluminium frame, **ST** – door with steel frame, **ST-N** – door with steel corner frame

ATTENTION! The opening in the masonry (dimension S_0) is a recommended value, but should not exceed 20 mm per side.

2. Fix the threshold foundation (optional) in the previously prepared opening. Cut the threshold foundation to the width of the door frame, insert the anchors supplied. Position the threshold foundation at the planned door position and fix it permanently to the foundation (Figure 2).
3. Remove the packaging from the door keeping the labels, warranty card and installation instructions. Do not install doors with visible damage or not in conformity with the order (Figure 3).
4. Remove the door leaf from the frame and protect it from damage – do not lean it directly against the wall or lay it flat (Figure 4).
5. Protect the door frame from foam contamination from foam and painter's tape contamination. ATTENTION! The tape must be removed immediately after installation, but no later than 2 hours after application. It is not permitted to apply the tape at temperatures above 30 degrees Celsius (Figure 5).
6. Apply warm mounting tapes (recommended option) around the perimeter of the door frame, one on the outside and one on the inside (Figure 6). The tapes can be different colours. ATTENTION! Do not cut the tape at the corners. Put approx. 5 cm of tape outside the corner and stick them together, then bend.

INSTALLATION STEPS WITH STEEL DOOR FRAME

1S. Secure the mounting holes with painter's tape and fill from the inside with low pressure mounting foam (Figure 7). Cut off the excess foam once it has set. The mounting plates are fitted at the factory.

2S. Place the door frame in the prepared wall opening on a threshold foundation-(optional) or directly on the floor.

3S. Fix the door frame with wedges. Align the threshold section, hinge side plumb and lock side in both planes. Maintain equal door frame diagonals with a tolerance of ± 2 mm (Figure 8).

4S. Installation from the hinge side – the size of the wall opening (Figure 9):

- make holes in the wall using a drill with an 8 mm drill bit (Figure 10),
 - fix the door frame permanently to the wall using the appropriate mounting system (Figure 11). ATTENTION! Universal dowels are included as standard for materials such as concrete, cellular concrete, brick, cellular and expanded ceramics, silicate, wood, etc.
- 5S. Adjust the linearity of the hinges in the door frame and door leaf (Figure 12).
 - 6S. Fit the door leaf to the door frame, make any necessary adjustments to the lock riser if necessary.
 - 7S. Ensure that the door leaf adheres to the gasket around the entire perimeter of the door frame, including at the threshold.
 - 8S. Installation on the lock side – perform as in 4S.
 - 9S. Check that the door closes correctly by closing and opening the door 3 times and locking the door 3 times.
 - 10S. Fill the area between the wall and the door frame with low pressure installation foam (Figure 13). It is recommended to spray the wall with water to improve adhesion and speed up the hardening of the foam.
 - 11S. Once the foam has set, remove the wedges used to fix the door frame. Fill in the places left by the wedges with low expansion foam. Carefully remove excess foam to prevent damage to the warm fitting tape.
 - 12S. If warm installation tapes are used, tape the outside to the wall and then tape the inside.
 - 13S. Immediately after installation, remove the self-adhesive protective film from the door leaf and door frame.
 - 14S. Fit the cover strip to the threshold (Figure 14).
 - 15S. Fit the fittings (sign, handles, inserts, handles and other accessories). It is not permitted to screw on escutcheons and handles using electric screwdrivers (Figure 15).
 - 16S. Protect the door from possible damage or soiling (with primer, paint, plaster, plasterboard, etc.) before carrying out further renovation and construction work.
 - 17S. Fix the plugs in the door frame mounting holes.

INSTALLATION STEPS FOR DOORS WITH ALUMINIUM DOOR FRAME

- 1A. Install the mounting plates in the door frame channels according to the door opening direction and spacing (Figure 16 – door opening outwards, Figure 17 – door opening inwards).
- 2A. Turn the mounting plates towards the inside of the building (Figure 18 – door opening outwards, Figure 19 – door opening inwards) and fix the screws $\varnothing 3,2$, 16 mm long, with the head of the washer. It is recommended to use additional grub screws to immobilise the door plates (screws not included).
- 3A. On the Thermo Hot 78 door, cut off the fixing sheet as visualised (Figure 20).
- 4A. Place the door frame in the prepared opening on a sub-frame with Bostic sealant applied (optional) or directly on the finished floor.
- 5A. Fix the door frame with wedges. Align threshold section, hinge side plumb and lock side in both planes. Maintain equal door frame diagonals with a tolerance of ± 2 mm (Figure 21).
- 6A. Hinge-side mounting – spacing of factory mounting holes (Figure 22):
 - make holes in the masonry using a drill with an 8 mm drill bit (Figure 23),
 - fix the door frame permanently to the wall using the appropriate mounting system (Figure 24). ATTENTION! Universal dowels are included as standard for materials such as concrete, cellular concrete, brick, cellular and expanded ceramics, silicate, wood, etc.
- 7A. Adjust the linearity of the hinges in the door frame and door leaf (Figure 25).
- 8A. Fit the door leaf to the door frame, make any necessary adjustments to the lock riser if necessary.
- 9A. Ensure that the door leaf adheres to the gasket around the entire perimeter of the door frame, including the threshold.
- 10A. Installation on the lock side – perform as in 6A.
- 11A. Check that the door closes correctly by closing and opening the door 3 times and locking the door 3 times.
- 12A. Fill the area between the masonry and the door frame with low pressure installation foam (Figure 26). It is recommended to spray the wall with water to improve adhesion and speed up the hardening of the foam.
- 13A. Once the foam has set, remove the wedges used to fix the door frame. Fill in the spaces left by the assembly wedges with low expansion foam. Carefully remove excess foam to prevent damage to the warm assembly tape.
- 14A. If warm mounting tapes are appropriate, tape the outside to the wall and then tape the inside.
- 15A. Immediately after installation, remove the self-adhesive protective film from the door leaf and door frame.
- 16A. Fit the cover strip to the threshold (Figure 27).
- 17A. Fit the fittings (sign, handles, inserts, handles and other accessories). It is not permitted to screw on the escutcheons and handles using electric screwdrivers (Figure 28).
- 18A. On your own part, protect the door from possible damage or soiling (with primer, paint, plaster, plasterboard, etc.) before carrying out further renovation and construction work.

FITTING THE DOOR FRAME EXTENSION

The extension is an accessory supplied exclusively on request.

The accessory kit contains all the required components, e.g. expansion band, screws, fasteners.

1. Drill holes in the extension with a $\varnothing 6$ mm drill, at intervals of 30–40 cm. Adjust the number of holes to the number of screws included in the kit (Figure P1).
2. Along the whole length of the junction of the extension with the door frame apply the expansion band (Figure P2). ATTENTION! The expansion of the tape starts just after it is unrolled from the roll, hence the placement of the fasteners below and the twisting of the door frame of the extension should be done immediately, preferably within a few minutes.
3. Place the sections in the frame channels (Figure P3), at regular intervals of 50–60 cm, without covering the holes made according to point 1. Stabilise the sections with a screw and silicone to prevent their movement and noise when opening and closing the door.
4. Connect the extension to the frame using screws (Figure P4).

DOOR ADJUSTMENT

Once the door has been completed, the operation of the door should be checked by opening and closing the door several times including the turning of the key. The hinges allow the door to be adjusted in three planes: A,B,C. Adjustment drawings are included at the end of the book.

Adjustment A – turn to the right to press the sash against the door frame, turn to the left to move the door leaf away from the door frame. Adjustment should be done with **5mm** Allen spanner. ATTENTION! Before adjustment, open the door leaf and unlock the hinge by turning the screws with a 2mm

Allen spanner to the left at least 180 degrees. Once the adjustment is complete, lock the hinge by turning the screws clockwise with a 2mm Allen spanner (Figures A1–A4).

Adjustment B – turning to the right moves the door leaf towards the hinges, turning to the left moves the door leaf towards the catch. Adjustment should be made with a 5mm Allen spanner (Figures B1, B2).

Adjustment C – the factory setting of the door leaf allows the screw to be turned clockwise only, which raises the door leaf upwards. Carry out the adjustment with a 4mm Allen spanner on each hinge, in such a way as to ensure an even load (Figure C1).

BASIC DIMENSIONS

THERMO HOT 88		ALU		
SYMBOL	So	Ho	Sc	Hc
80N	957	2114	937	2104
80	1007	2114	987	2104
90N	1057	2114	1037	2104
90	1107	2114	1087	2104
100	1207	2114	1187	2104

THERMO HOT 78		ALU		
SYMBOL	So	Ho	Sc	Hc
80N	947	2114	927	2104
80	997	2114	977	2104
90N	1047	2114	1027	2104
90	1097	2114	1077	2104
100	1197	2114	1177	2104

THERMO 78		ALU		
SYMBOL	So	Ho	Sc	Hc
80N	932	2099	912	2086
80	982	2099	962	2086
90N	1032	2099	1012	2086
90	1082	2099	1062	2086
100	1182	2099	1162	2086

THERMO 78		ST		
SYMBOL	So	Ho	Sc	Hc
80N	906	2088	890	2075
80	956	2088	940	2075
90N	1006	2088	990	2075
90	1056	2088	1040	2075
100	1156	2088	1140	2075

THERMO 78		ST-N		
SYMBOL	So	Ho	Sc	Hc
80N	844	2058	890	2075
80	894	2058	940	2075
90N	944	2058	990	2075
90	994	2058	1040	2075
100	1094	2058	1140	2075

THERMO 64		ALU		
SYMBOL	So	Ho	Sc	Hc
80N	918	2099	898	2086
80	968	2099	948	2086
90N	1018	2099	998	2086
90	1068	2099	1048	2086
100	1168	2099	1148	2086

THERMO 64		ST		
SYMBOL	So	Ho	Sc	Hc
80N	891	2088	875	2075
80	941	2088	925	2075
90N	991	2088	975	2075
90	1041	2088	1025	2075
100	1141	2088	1125	2075

THERMO 64		ST-N		
SYMBOL	So	Ho	Sc	Hc
80N	835	2058	875	2075
80	885	2058	925	2075
90N	935	2058	975	2075
90	985	2058	1025	2075
100	1085	2058	1125	2075

