



RKDOORSYSTEMS

Installation Instructions

Congratulations on the purchase of your RK System entrance doorset. We are proud of our doors and they are manufactured to the highest standards and so with careful installation and maintenance your door will look good and perform well for many years to come.

These instructions are designed to ensure your first step is both correct and hassle free. However, your door is a precision made item and we always recommend the use a professional tradesman to maximise it's performance, noting the following points:

- 1** Unpack and check your door carefully (**Fig 1**) ensuring your handles (**Fig 2**), keys (**Fig 3**) and any other accessories are complete. If there are any elements missing you must advise your RK System dealer, **before** commencement of any installation works. Please keep all packaging as this will need to be inspected in the event of a claim arising for transit damage. Please note that claims for missing items and damage will not be accepted once the doorset has been fitted into the opening. Surfaces should be cleaned with neutral cleaning agents, warm soapy water using 5% soap, 95% water (liquid soap) wiping with a damp cloth or approved cleaning solutions supplied with your RK care kit. Do not use abrasive or aggressive cleaners, bleach or other hydrochlorate (chlorine) based cleaners.



Figure 1



Figure 2



Figure 3

- 2** **Protect your door!** During the installation and subsequent construction works the Aluminium should always be protected from Lime and Cement splashes. Stains resulting from these types of building materials often cannot be removed.



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3 Determine the finished floor level of the building. This is important as the bottom of the threshold on your RK door is designed to sit at FFL. If you have purchased threshold support material on the underside of your threshold the door support point in the floor zone will need to be lowered to accommodate this (generally 50mm), ensuring the threshold position still remains in line with finished floor level.

4 Unlock the door, open to 90 deg and lift the door off the hinges. Remove the door and carefully set aside on insulation or other protective material for hanging later.

5 Fixing the door frame to your structure. On the hinged side of the door, remove the black pvc push-fit lining. Screw directly through the frame approximately every 450 mm, starting 100mm from each corner. Fix the frame to your structure using a suitably strong expanding bolt or screw /plug fixing methods. The same system and fixing method applies to the door frame head.

There will always be an installation gap between the frame and wall which must be supported with a suitable packing material before fully tightening fixings, to avoid frame distortion.

On the latch side of the door, undo all visible screw fixings to remove the stainless-steel latch receiver which extends the frames full height. Fix the frame to your structure in using the above method and replace the latch receiver.

The threshold has a black rubber push-fit gasket which should also be removed to fix through the central thermal break in the aluminium support strip below.

Where the door has sidelight, glazing is supplied separately, so again fix directly through the frame. All fixings are hidden when the sidelight is re-glazed.

When installing doors with structurally glazed sidelights which cannot be de-glazed for fixing through the frame, interlocking brackets will be needed and should be requested with the door.

Place brackets vertically into the grooves provided on the outside of the frame & twist the bracket horizontally so that the protruding tab on the end of the bracket locks into the frame grooves.

Fixing straps may also be required for installing doors into buildings with wide cavities, (100mm+) such as `Passive house` structures etc..

6 Check that there are no bulges in the hinged side of the frame which should have a solid feel and should not easily move in any direction.

7 Take the door and re-hang it onto hinges at the 90 deg opening position. Make sure the frame is clear of any debris and dust, particularly in the hinge and threshold areas, before closing the door against the frame. Carefully align the door with the frame and check the shadow joint around the door/frame junction. This should be equal all round with a gap of 6mm (+/- 1mm). The door should close and lock engage without undue force and be flush with the frame on both the inside and outside. If the door is proud at any point the frame may be twisted and should be re-aligned before proceeding any further.



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- 8** Check the diagonal dimensions of the door frame to ensure the frame is square then check vertical plumb and fix the brackets to the adjoining walling as per section 4.
- 9** Once the door is mechanically fixed check that the bottom door seals meet the threshold to give a weatherproof seal. If necessary, adjust the hinges to lower or raise the door (see separate sheet for hinge adjustment) to the correct position.
- 10** Once the door is operating satisfactorily, seal the gap between perimeter of the frame and the wall. Depending on the gap size use either pre-formed sealant material (Compriband or similar), silicone sealant or low expansion foam sealant (always keep the door in the closed position until the sealant has fully cured to avoid any movement in the frame).



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