



Stainless-steel • Can't be eaten • Can't be beaten

# **RodeXit™ Mounting Guide**

## **elaborate and illustrated version**

2<sup>nd</sup> edition February 2019

### **Manual Swing Doors**

### **With Single-directional Hinges**



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## 1 Short version and instructional videos

On our website [www.rodexit.com](http://www.rodexit.com) you can

- download a more concise version of this guide and
- watch instructional videos about the mounting of **RodeXit** proofing strips.

## 2 Rule No. 1: Always use your own sound judgment

There are many different door types - even when you limit the selection to manual swing doors with single-directional hinges. We have written this guide with the most common of these doors in mind. It is, however, not everything which is equally relevant to all such doors. Therefore, you should always use your own judgment based on your professional knowledge and experience and only use this guide as a valuable source of inspiration.

## 3 Rule No. 2: Remember to monitor

No matter how and with what kind of device a door has been rodent proofed, it should at regular intervals be monitored for maintenance needs (Bobby Corrigan in “Of Rodents and Doors”, Pest Control Technology August 2015).

## 4 Door terms

In this guide you will meet several technical door terms, which may or may not be familiar to you. The terms are all explained in our mini dictionary “Basic Door Terms”. You can download the mini dictionary from our website [www.rodexit.com](http://www.rodexit.com).

## 5 When to use what **RodeXit** proofing strip

You should use the **RodeXit Wave** proofing strip when proofing the threshold gap of manual hinged swing doors. However, you should only use it, if the threshold gap is no higher than 1.4 inch (35 mm). If the threshold gap is higher, you should look for an alternative solution.



Don't use the RodeXit Straight proofing strip for proofing the threshold gap of a hinged swing door. It has not been designed for that purpose. You may use it for proofing the astragal gap of hinged double doors and for proofing stationary building parts, walls and fences.

## 6 Tools

You will need these tools:

- a tape measure,
- straight cut tin snips for cutting the RodeXit proofing strips,
- a set of 2 RodeXit Block mounting tools,
- a cordless screwdriver (preferably a drywall screwdriver),
- a suitable screwdriver bit,
- possibly a Stanley knife, and
- possibly a cordless bandsaw or another tool for shortening the RodeXit Shield protection strip.

## 7 Initial preparations

Make sure that you have all you need on your side of the door. Lock the door, so you do not risk that it is opened, while you work on it.

## 8 Screws

You should of course use screws suitable for the material of the door leaf. We recommend 7/8-1 in / 22-25 mm long pan head screws of stainless-steel with a No. 2 Philips recess and a US No. 10 / 4.8 mm diameter. Most hollow metal doors are made of gauge 20-14 stainless-steel. For such doors we recommend self-drilling sheet metal screws of hardened 410 stainless steel. They can also be used for wooden doors.

When tightening the screws you should take care not to use too much force. We recommend

that you use a plasterboard screwdriver, because that can eliminate the risk of using too much force, and because you therefore can work faster and without having to worry about the risk.

## **9 Final check after proofing a threshold gap**

After proofing the threshold gap you should always check if the door operates satisfactorily. Open and close the door a couple of times. It is OK if there is no or just moderate friction between the rodent proofing strip and the ground / the floor.

If it is difficult to open and close the door, there is something wrong with the door: The hinge jamb may be out of true or the ground / the floor may be sloping very negatively towards the door.

If it is very difficult to open and close the door, the door problem should be fixed. After that you can remount the rodent proofing strip and it will work just fine.

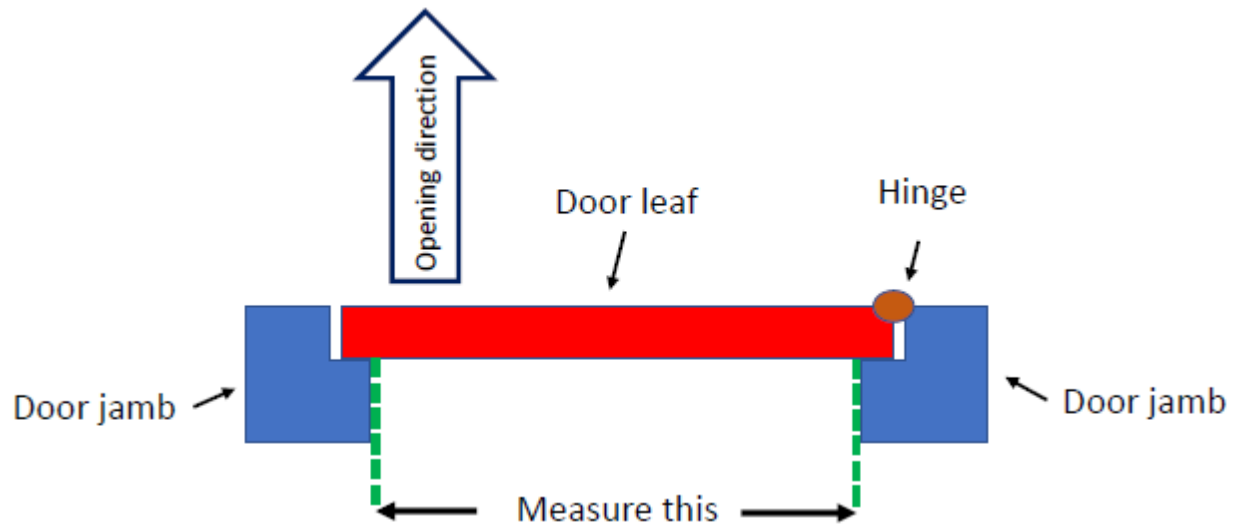
## **10 Proofing the threshold gap of single doors**

As a main rule the **RodeXit Wave** proofing strip shall be mounted on the push side of the door leaf.

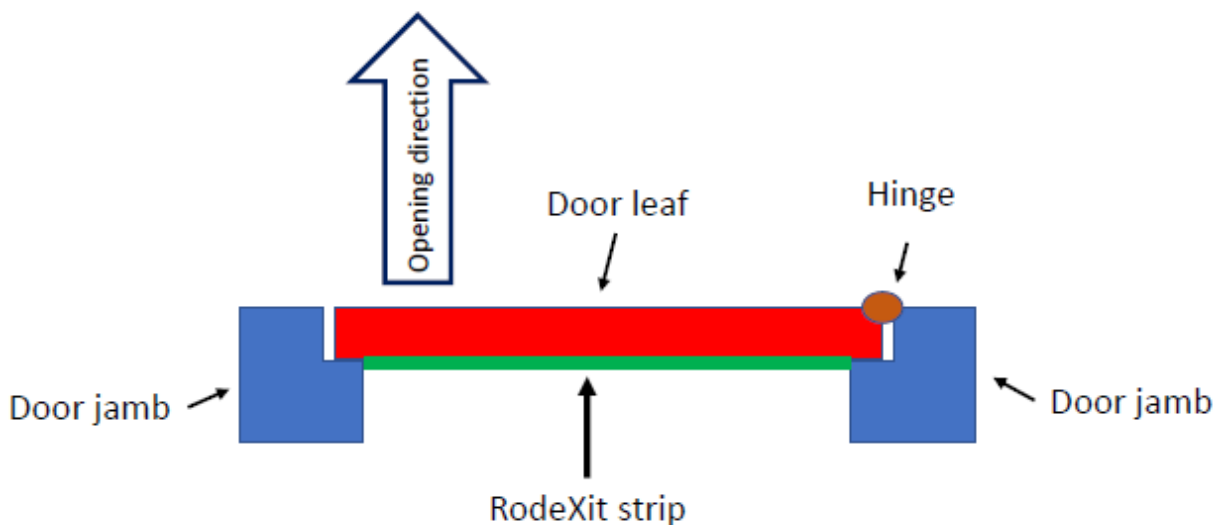
### **10.1 Proofing the threshold gap of single doors not exposed to colliding pallet jacks**

You can handle the mounting of a **RodeXit Wave** proofing strip on a single swing door, which is not likely to be hit by pallet jacks, in the following way:

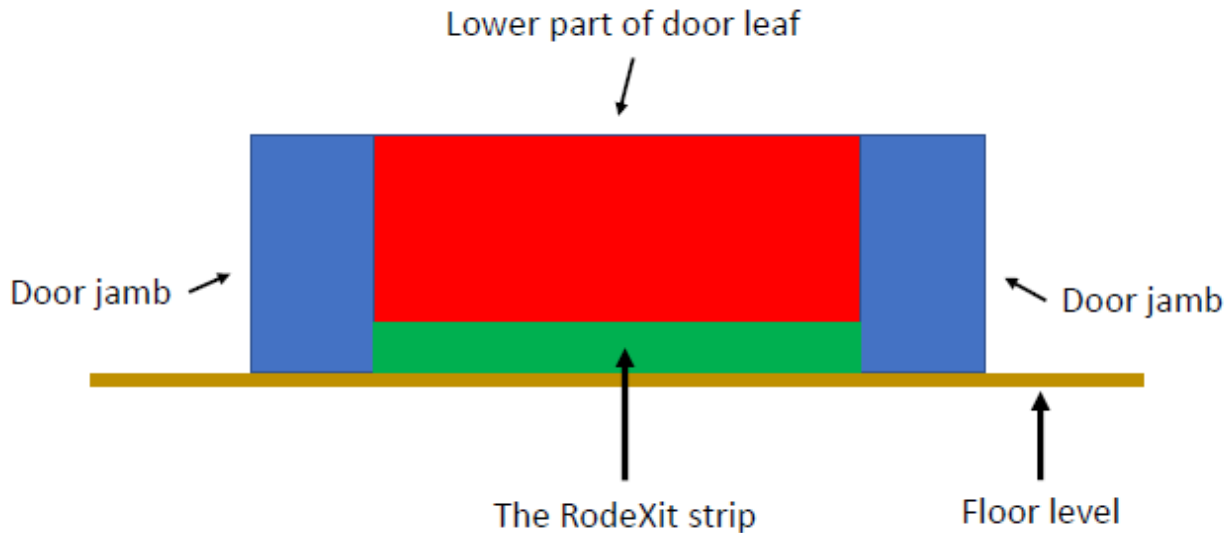
- 5) Measure the distance between the door jambs on the push side as shown here (seen from above):



- 6) Cut off a corresponding length of the **RodeXit Wave** proofing strip.
- 7) Place the proofing strip lightly on the ground and up against the door leaf as shown in the next two figures:
  - a) Seen from above:



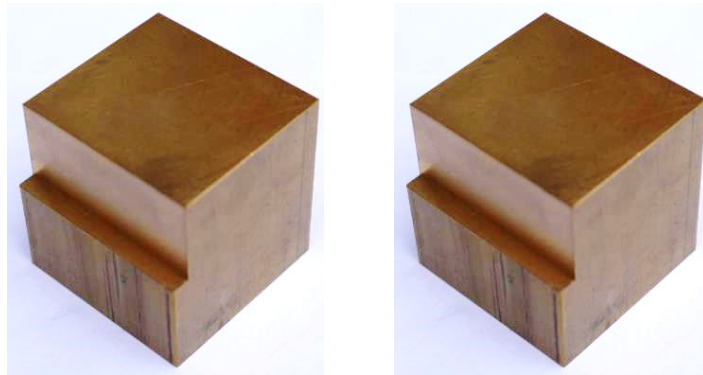
b) Seen from the push side of the door:



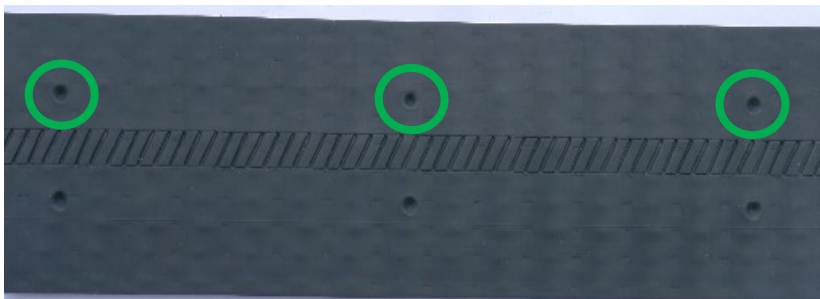
Do not to press the proofing strip hard downwards against the threshold. The strip should just touch it.

Ideally there will be a perfect fit between the bottom of the proofing strip and the threshold, but less than an ideal and perfect fit can be OK. Gaps of around 1/16 in / 1.5 mm are acceptable. You can solve most problems with too high gaps simply by gently pressing the relevant part of the **RodeXit** proofing strip so much down that the gap is acceptable.

We recommend that you use a set of **RodeXit Block** mounting tools to hold the proofing strip in place. It frees the hand, which you otherwise would have had to use for holding the proofing strip in place:



- 8) Fasten the proofing strip to the door leaf by placing a screw in each of the upper dot-shaped markings on the strip:



- 9) Make sure that there is a screw within 1 in / 2.5 cm of each end.



- 10) Open and close the door a couple of times to check if it operates satisfactorily as described in the above section 8.

## 10.2 Proofing the threshold gap of single doors exposed to colliding pallet jacks

If there is a risk, that the door and the **RodeXit** proofing strip will be hit by pallet jacks passing through the door, you should protect the door and the proofing strip with a sturdy **RodeXit Shield** protection strip of stainless steel.

Mounting with a protection strip proceeds in the same way as mounting with no protection strip, until you reach step # 4 described above in section 9.1 Instead of doing as described there, you should proceed as follows:

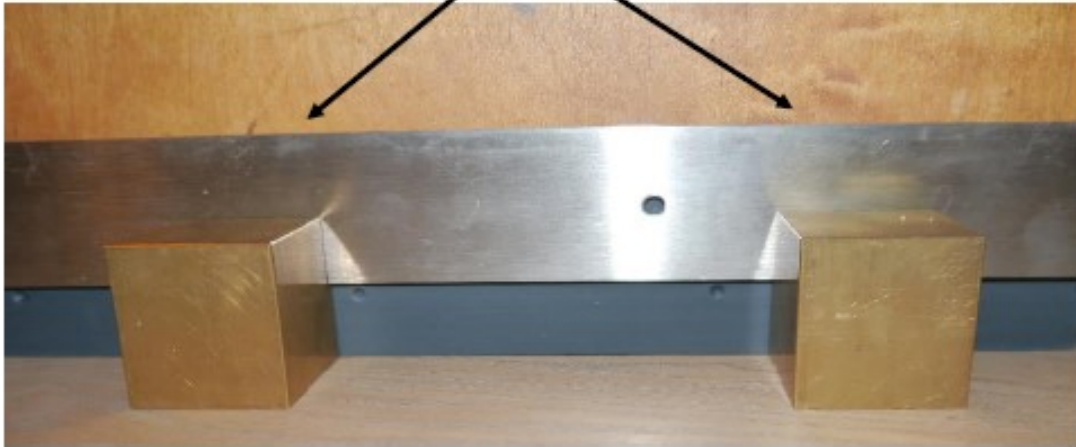
- 4) Shorten the protection strip to the length of the proofing strip. Cut it in the end with the 5 close-set holes. Then you will get useful predrilled screw-holes close to both ends of the protection strip:



- 5) Place the protection strip up against the proofing strip and align the upper edge of the protection strip with the upper edge of the proofing strip.

You can use a set **RodeXit Block** mounting tools to hold the proofing strip and the protection strip in place, so you have both hands free:

Aligned upper edges of the proofing strip and the shielding strip



The protection strip is placed in the indentations of the two blocks and thereby elevated from the floor and simultaneously pressed against the proofing strip.

- 6) Fasten the protection strip and the proofing strip to the door leaf by screws through the predrilled holes.
- 7) Open and close the door a couple of times to check if it operates satisfactorily as described in the above section 8.

## 11 Proofing the threshold gap and the astragal gap of double doors

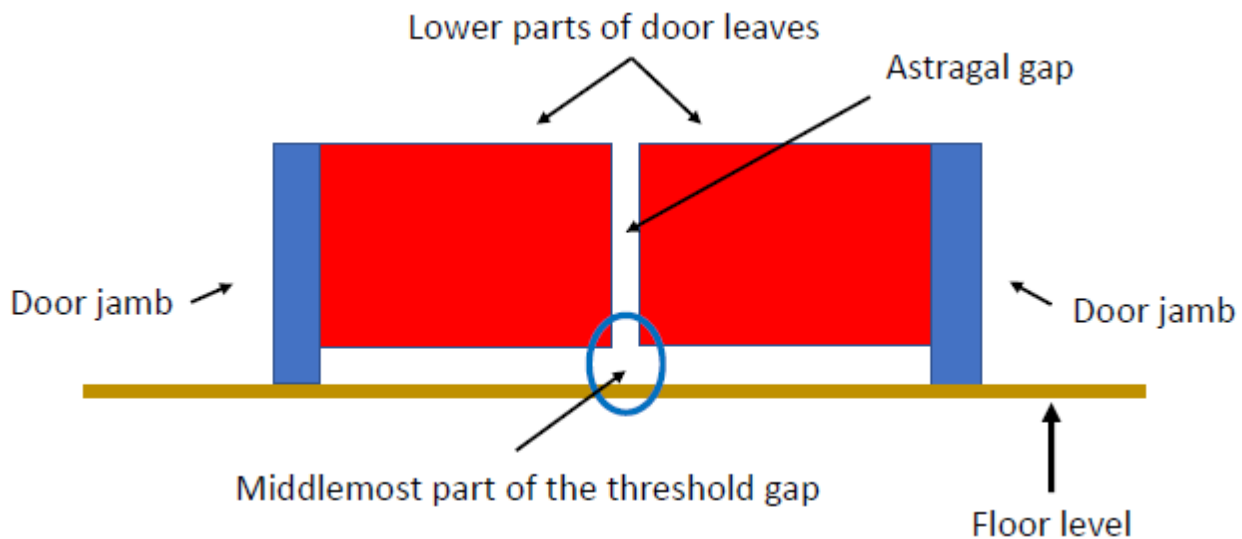
As a main rule the RodeXit proofing strip shall be mounted on the push side of the door leaves of double swing doors.

Double swing doors are born with a gap, one does not find on single swing doors: the vertical gap between the 2 door leaves called the astragal gap. That makes the proofing of double doors a little more complicated than the proofing of single doors.

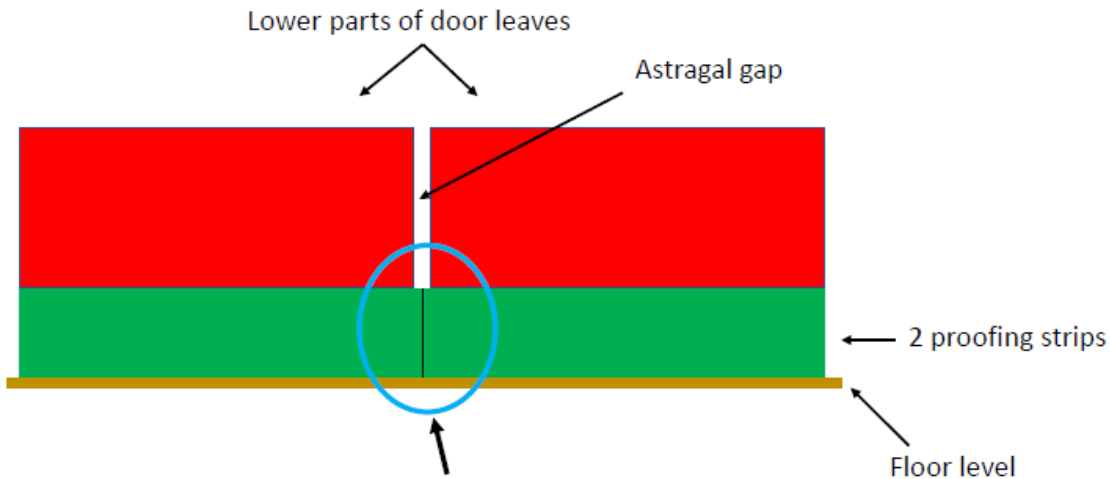
## 11.1 Proofing the threshold gap of double doors

### 11.1.1 Proofing the threshold gap of double doors not exposed to colliding pallet jacks

Proofing the threshold gap is done in much the same way as on single doors. The only difference is the proofing of the middlemost part of the threshold gap:



- 1) Measure the distance from the door jambs to the middle of the threshold gap and clip off 2 corresponding pieces of **RodeXit Wave** proofing strip. When mounted the two pieces shall – without overlapping – adjoin in the center of the threshold gap:



The 2 proofing strips meet in the middle without overlapping

When the door leaves are equally broad, the length of the proofing strips will normally be half the distance between the 2 door jambs. If so, you simply measure the distance between the 2 door jambs and divide it by 2. E.g. if the distance is 1.8 yards / meters, each of the proofing strips shall be 0.9 yard / meter long.

- 2) You mount the two proofing strips on the 2 door leaves in the same way as you mount one proofing strip on a single door (described in [section 9.1](#) above) – except that the two pieces shall adjoin in the center of the threshold gap. It is OK if there is a small gap of up to 1/16 in / 1.5 mm between the 2 pieces of proofing strip.

If one of the door leaves is equipped with a flush bolt, make sure that you do not place a screw in the flush bolt.

- 3) Open and close the door a couple of times to check if it operates satisfactorily as described in the above [section 8](#).

### 11.1.2 Proofing the threshold gap of double doors exposed to colliding pallet jacks

If there is a risk, that the door leaves and the **RodeXit** proofing strip will be hit by pallet jacks passing through the door, you should protect the door and the proofing strip with sturdy **RodeXit Shield** protection strips of stainless steel.

Mounting with protection strips proceeds in the same way as mounting with no protection strips on a double door, until you reach step # 4 described above in section 10.1.1. Instead of doing as described there, you should proceed as follows:

- 4) Shorten 2 protection strips so each of them becomes around 0.05 inch (1,25 mm) shorter than the 2 proofing strips.

Cut the protection strips in the end with the 5 close-set holes. Then you get useful predrilled screw-holes close to both ends of the protection strip:

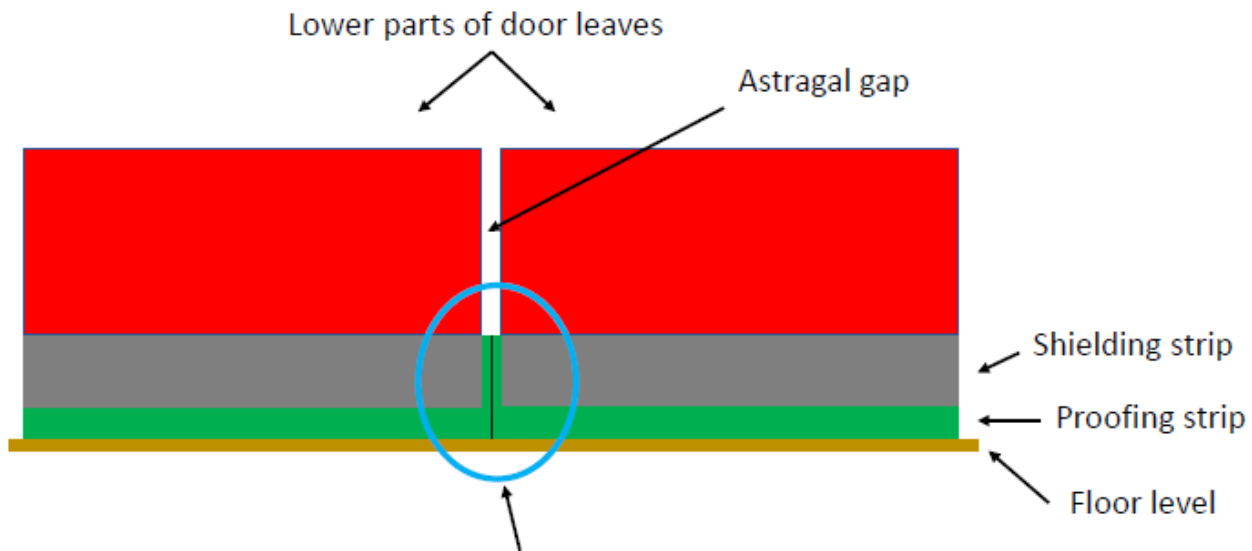


If one of the door leaves is equipped with a flush bolt, you should take the risk of hitting the flush bolt with a screw into consideration already when you shorten the protection strip.

- 5) Mount the 2 proofing strips and the 2 protection strips in the same way as you mount a proofing strip and a protection strip on a single door (described in section 9.2 above) – except
  - a) that the two proofing strips shall adjoin in the center of the threshold gap (a small gap of up to 1/16 in / 1.5 mm between the 2 pieces of proofing

strip is OK) and

- b) that the 2 protection strips of steel shall be mounted with a gap of around 0,1 inch / 2.5 mm in the middle:



Adjoining proofing strips and around 0.1 inch (2.5 mm) distance between the 2 shielded strips of steel

- 6) Open and close the door a couple of times to check if it operates satisfactorily as described in the above section 8.

## 11.2 Proofing the astragal gap of double doors

### 11.2.1 Introduction

On most double doors there is a vertical strip called the astragal mounted on the pull side of the active door leaf - i.e. is on the pull side of the door leaf, which is opened first when the double door is opened. The astragal closes the vertical astragal gap between the 2 door leaves.

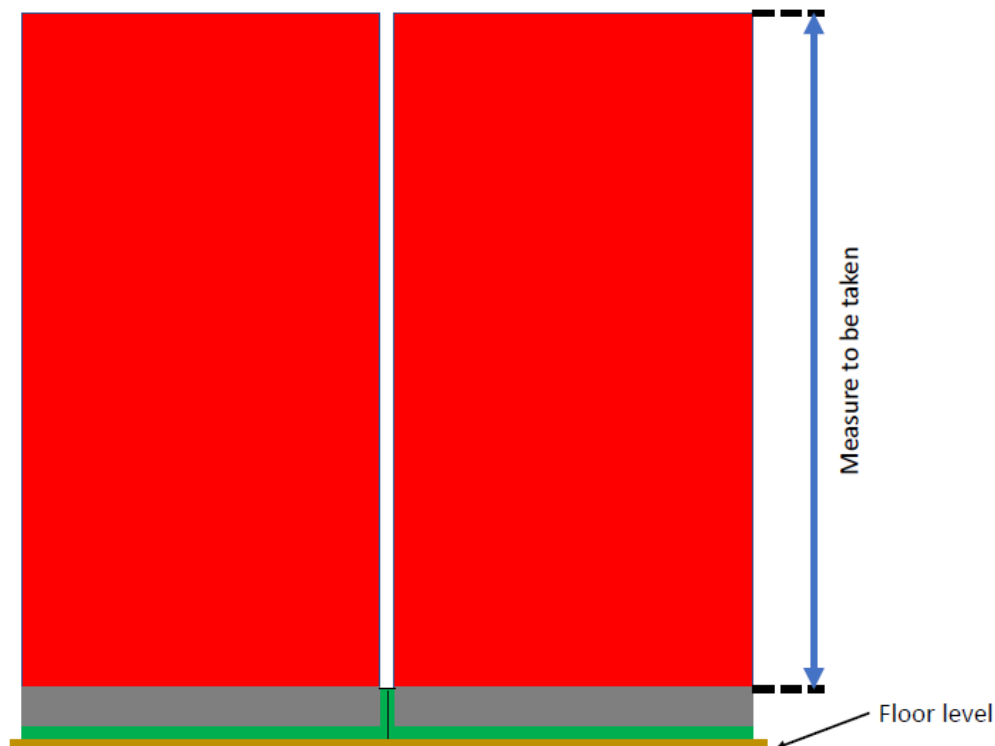
If there is no rodent and insect proof astragal on the side of the door, where you have proofed the threshold gap, you should also rodent and insect proof the astragal gap with a RodeXit proofing strip - preferably with a RodeXit Straight proofing strip.

The proofing strip must be placed on the passive door leaf if the mounting is done on the push side. The passive door leaf is the door leaf, which is opened after the active door leaf, when both door leaves are opened. The proofing strip must be placed on the active door leaf if the mounting is done on the pull side.

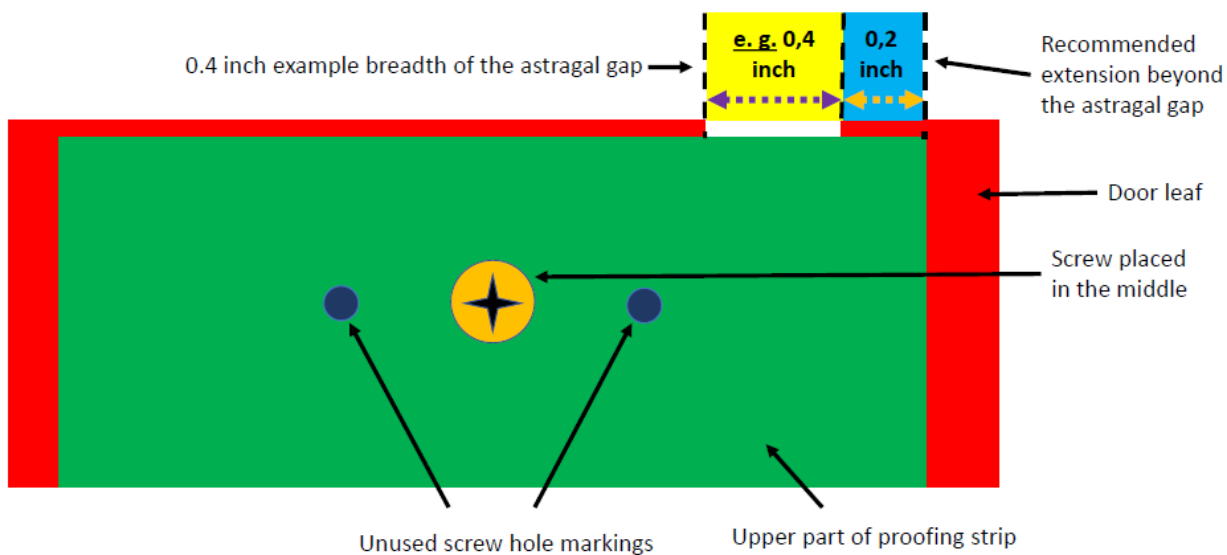
### 11.2.2 Proofing the astragal gap of double doors not exposed to colliding pallet jacks

After proofing the threshold gap you can proceed as follows:

- 1) Measure the distance from the upper edge of the horizontally mounted RodeXit proofing strips to the upper edge of the door leaf:



- 2) Cut off a corresponding length of **RodeXit** proofing strip (preferably **RodeXit Straight** proofing strip).
- 3) When mounted the **RodeXit** proofing strip should overreach the astragal gap by around 0.2 inch (5 mm). The screws should as a main rule be placed in the middle of the proofing strip and not as indicated by the screw hole markings. E.g. if the astragal gap is 0.4 inch broad it should be mounted like this:



- 4) It is best to fasten the uppermost screw in the proofing strip first. Thereafter, you should continue downwards placing a screw for each around 8 inches (20 cm) until you reach the bottom end of the proofing strip.

If there is a door handle in the way, you can solve the problem simply by using tin snips and a Stanley knife to clip and cut a corresponding notch in the proofing strip.

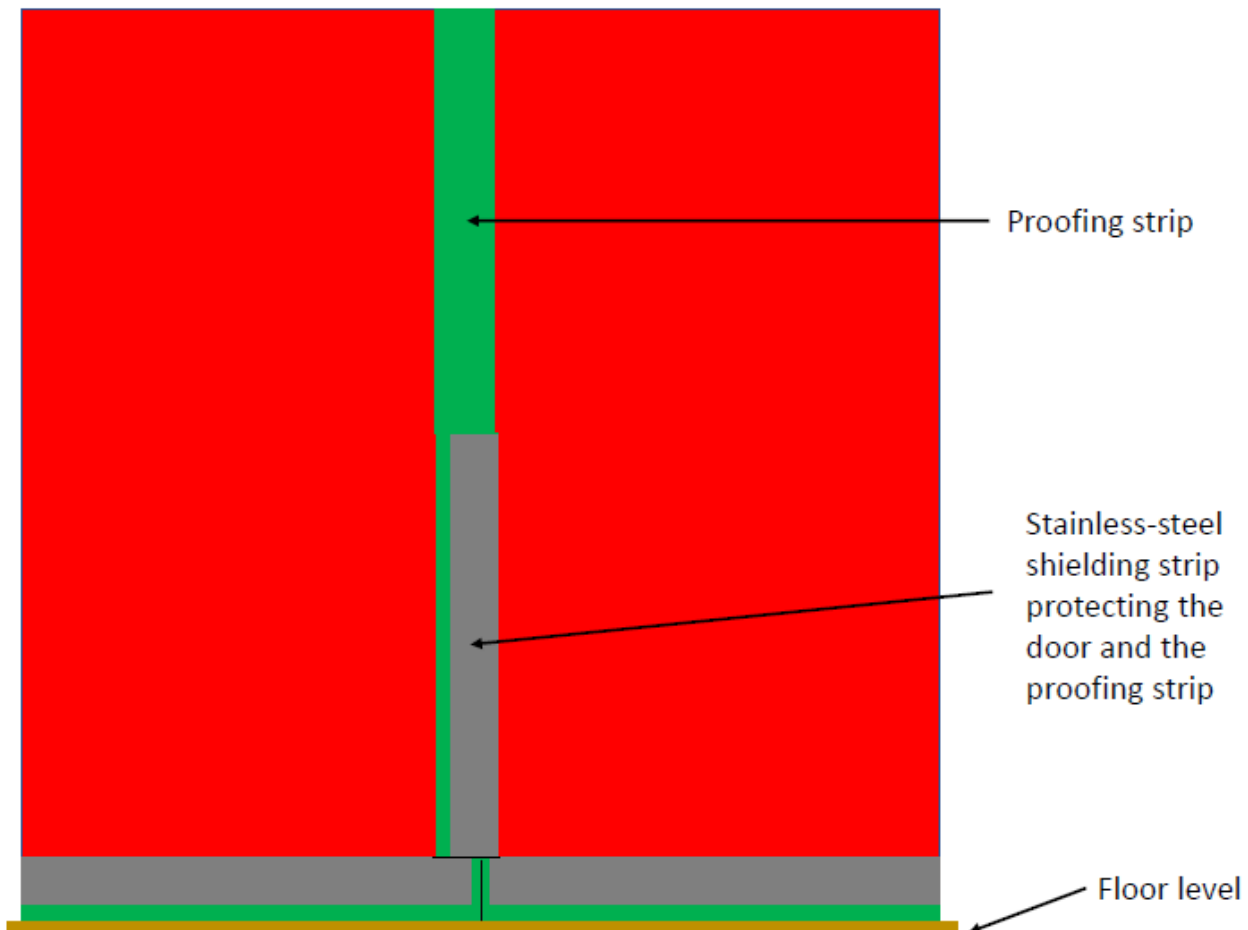
If there is a lock box and/or a flush bolt in the door leaf, take care not to place any screws in the lock box and/or the flush bolt.



- 5) Open and close the door a couple of times to check if it operates satisfactorily.

### 11.2.3 Proofing the astragal gap of double doors exposed to colliding pallet jacks

If there is a risk, that the door leaves and the **RodeXit** proofing strip will be hit by pallet jacks further up from floor level than 2½ inch / 6 cm, you should protect the door and the proofing strip with a sturdy **RodeXit Shield** protection strip of stainless steel.

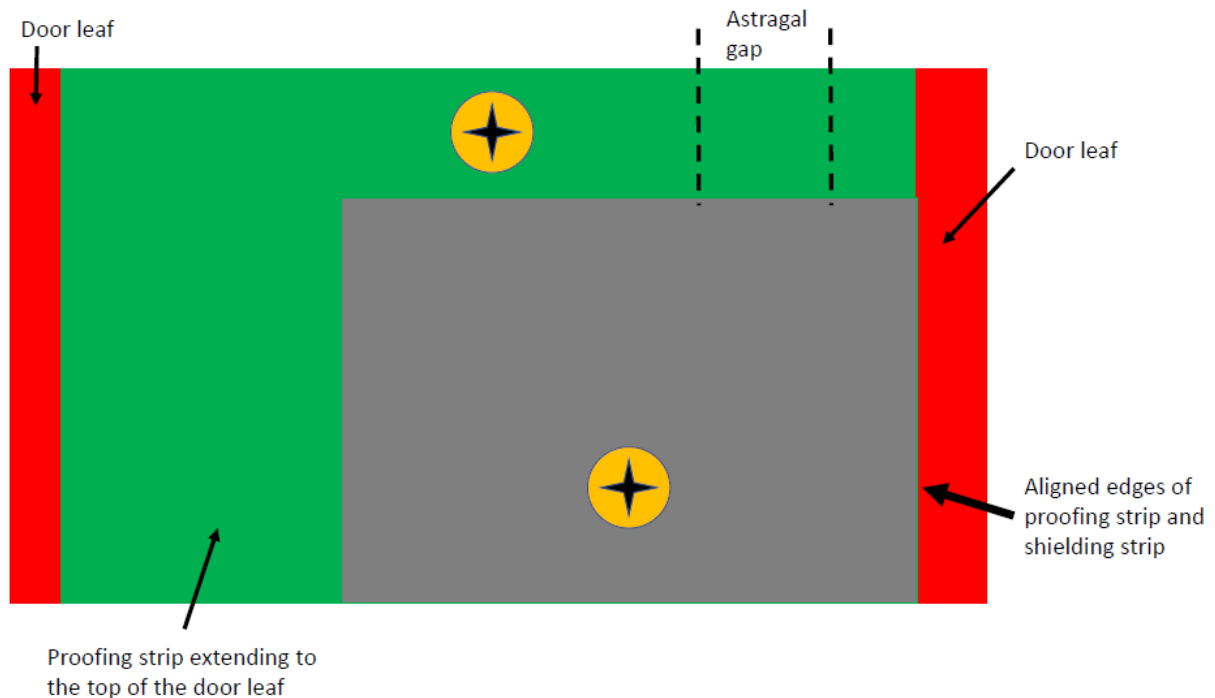


The proofing of the astragal gap proceeds in the same way as when mounting with no protection strip, until you reach step # 4 described above in [section 10.2.2](#). Instead of doing as described there, you shall proceed as follows:

- 4) Fasten the uppermost screw in the proofing strip. Thereafter, you should continue downwards placing a screw for each around 8 inches / 20 cm until around 1 yard / 1 meter above the upper edge of the strips closing the threshold gap.

If there is a handle in the way, you can solve the problem simply by using tin snips and a Stanley knife to clip and cut a corresponding notch in the proofing strip. If there is a lock box and/or a flush bolt in the door leaf, take care not to place any screws in the lock box and/or the flush bolt.

- 5) Place the lower end of the steel protection strip just above the horizontally mounted protection and proofing strips.
- 6) Align the vertical edge of the protection strip with the free edge of the proofing strip:





- 7) Fasten a screw through the uppermost predrilled hole in the proofing strip. Thereafter, continue downwards placing a screw in each of the predrilled holes.

If there is a lock box and/or a flush bolt in the door leaf, take care not to place any screws in the lock box and/or the flush bolt. It may solve the problem simply to reverse the protection strip.

- 8) Open and close the door a couple of times to check if it operates satisfactorily.