



**Proofing Threshold Gaps and Subastragal Gaps  
of Manual Swing Doors  
with the RodeXit WAVE Door Sweep  
June 2020 ed.**

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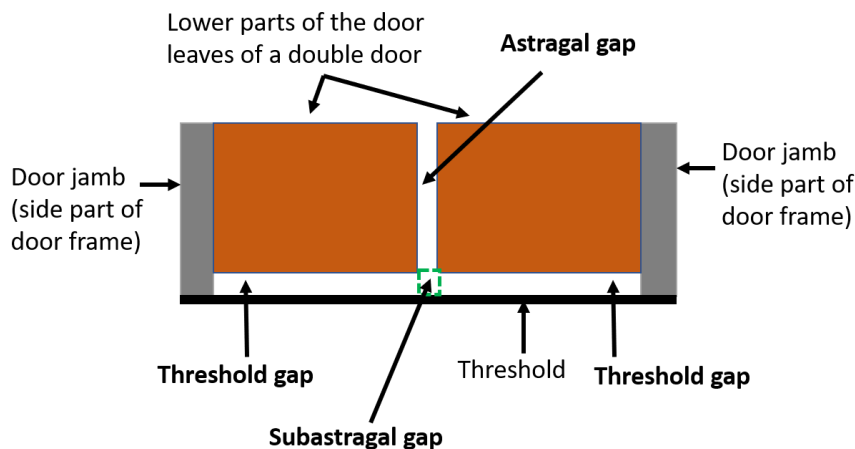
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**1 The Instructional Video and the Tips & Tricks PDF**

You can find an instructional video and a downloadable PDF with Tips & Tricks on [www.rodexit.com/mounting-guides](http://www.rodexit.com/mounting-guides).

**2 The Gaps and the Astragal**

The threshold gap of a door leaf is the horizontal gap between the door leaf and the underlying threshold. The astragal gap of a double swing door is the vertical gap between the 2 door leaves. The astragal gap is covered by a vertical strip called an “astragal” on at least one side of the door. The subastragal gap of a double swing door is the small gap right under the astragal gap and between the 2 threshold gaps.



This mounting guide covers the proofing of threshold gaps and subastragal gaps of manual swing doors with the rodent resistant RodeXit WAVE door sweeps. The door sweeps can be used for proofing up to

1.4 in (35 mm) high gaps. The proofing of astragal gaps of double swing doors is covered by another mounting guide. You can find it on [www.rodexit.com/mounting-guides](http://www.rodexit.com/mounting-guides).

### 3 The Tools

You will need some suitable screws and these tools:

- A tape measure or another measuring device.
  - A telescopic measuring stick is extremely practical especially when the door sweep is to be installed on the push side of the door and you have to measure the distance between the two door jambs.
- Tin snips (preferably straight tin snips with long jaws).
- A cordless screwdriver.
- If you want to get both hands free for screwing the door sweep on to the door:
  - a couple of heavy objects for holding the door sweep in place up against the door leaf (e.g. 2 RodeXit BLOCK mounting tools) OR
  - a staple gun for makeshift securing the door sweep to a wooden door.

### 4 How to Proof the Threshold Gap of a Single Door

4.1 The WAVE door sweep may be installed on either side or on both sides. Close and lock the door.

4.2 If there is a door holder in the way, dismount the door holder.

4.3 Measure the door leaf.

4.4 Cut off a corresponding length of the WAVE door sweep – e.g. with straight tin snips.

4.5 Place the door sweep lightly on the threshold and up against the door leaf.

4.6 Use 2 heavy objects to hold the door sweep in place, so you get both hands free for screwing the door sweep on to the door:

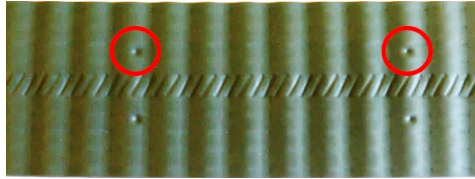


When mounting on a wooden door, you can also get both hands free if you as a makeshift measure attach the door sweep by means of staples:



**4.7** Do not to press the door sweep hard downwards. It should just touch the threshold. Around 1/16 in (1.5 mm) high local gaps between the bottom of the door sweep and the threshold are acceptable. Many small problems can be solved by gently pressing the affected part of the door sweep a little down.

**4.8** Screw the door sweep on to the door leaf by screws in the upper dot-shaped screw hole markings:



Flat-headed screws e.g.  $\frac{3}{4}$ -1 inch (20-25 mm) long No. 10 (4.8 mm) hex head screws or pan head screws with a No. 2 Philips recess are suitable for most doors. Use self-drilling sheet metal screws for sheet metal doors.

Use one of the following approaches to avoid driving screws through the door sweep:

- a. Sturdy and very popular: Place a washer between the head of the screw and the door sweep.
- b. Best looking: Use a good-looking mounting strip – e.g. an aluminum carpet trim or a kickplate. (See the Tips & Tricks PDF mentioned in section 1.)
- c. Fastest and easiest: Use an adjustable drywall screwdriver, so the engine of the screwdriver and the screw bit automatically stop turning when the desired screw depth has been reached. (Not compatible with hex screws)
- d. Almost as fast an easy: Use an adjustable screw depth setter, so the still turning screw bit stops turning the screw when the desired screw depth has been reached. (Not compatible with hex screws)
- e. Chancy: Take care not to use too much force.

Make sure that there is a screw about 1 inch (2½ cm) or closer to each end.

If the door leaf is equipped with a flush bolt, take care not to hit the flush bolt with a screw.

**4.9** This is how tight the installation should be on the push side of a single door:



**4.10** You may optionally seal the upper edge of the door sweep with silicone.

**4.11** Remount any dismantled door holder if possible. If remounting isn't possible, get a new and compatible door holder and install it instead of the old one.

**4.12** Open and close the door to check if it operates satisfactorily. It is OK if there is moderate friction between the door sweep and the ground/the floor. If it is difficult to open and close the door, there is something wrong with the door. E.g. the hinge jamb may be out of true, or the ground/the floor may be sloping negatively towards the door. If it is very difficult to open and close the door, the door problem should be fixed.

**4.13** The door sweep should at regular intervals be monitored for maintenance needs. It should be fixed or replaced if seriously compromised e.g. due to severe rodent attacks.

## **5 How to Proof the Threshold Gaps and the Subastragal Gap of a Double Door**

### **5.1 The Difference Between Proofing a Single Door and a Double Door**

You proof the 2 threshold gaps and the subastragal gap of a double swing door in much the same way as you proof the threshold gap of a single swing door.

The only differences are

- that you use 2 door sweeps instead of just 1 and
- that the door sweeps have to cover not only the threshold gaps but also the subastragal gap.

The way you mount the 2 door sweeps, so they can cover the subastragal gap, depends on whether there is an astragal or not on the mounting side of the door.

### **5.2 How to Proof When There Isn't an Astragal on the Mounting Side of the Door**

You proof the double door in the same way as a single door except for the following:

**5.2.1** Trim the 2 door sweeps, so they can adjoin in the middle of the astragal gap:



Do not make the 2 door sweeps overlap. It is fine if there is a gap of up to 1/16 inch (1.5 mm) between them.

**5.2.2** Secure the 2 door sweeps to the 2 door leaves.

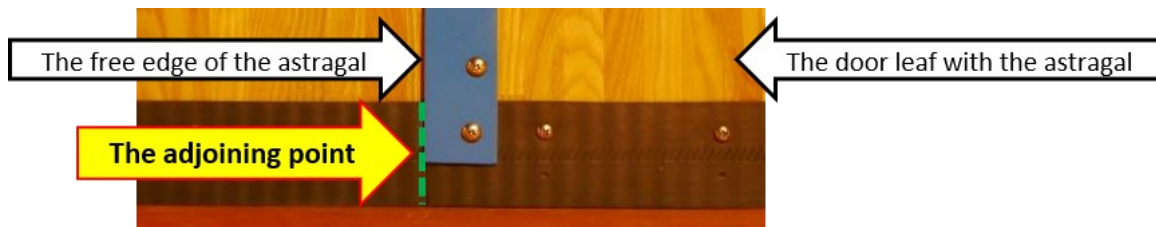
**5.2.3** After proofing the threshold gaps and the subastragal gap, you should consider rodent proofing at least the 10 lowermost inches of the astragal gap. How that is done is described in the RodeXit mounting

guide on the proofing of astragal gaps of swing doors. You can find the mounting guide on the website [www.rodexit.com](http://www.rodexit.com).

### 5.3 How to Proof When There Is an Astragal on the Mounting Side of the Door

You proof the double door in the same way as a single door except for the following:

**5.3.1** Trim the 2 door sweeps, so they can adjoin at the free edge of the astragal. Do not make them overlap. It is fine if there is a gap of up to 1/16 inch (1.5 mm) between them:



**5.3.2** Loosen the lowermost part of the astragal - e.g. unscrew the lowermost 2 screws.

**5.3.3** Tuck one of the 2 door sweeps in between the loosened astragal and the door leaf with the astragal and align the end of the door sweep with the free edge of the astragal.

**5.3.4** Secure the 2 door sweeps to the 2 door leaves.

**5.3.5** Retighten the astragal.

## 6 How to Satisfy Special Aesthetical Requirements

In the downloadable tips and tricks mentioned in section 1 you can find information on the use of good-looking mounting strips for satisfying special aesthetical requirements.