



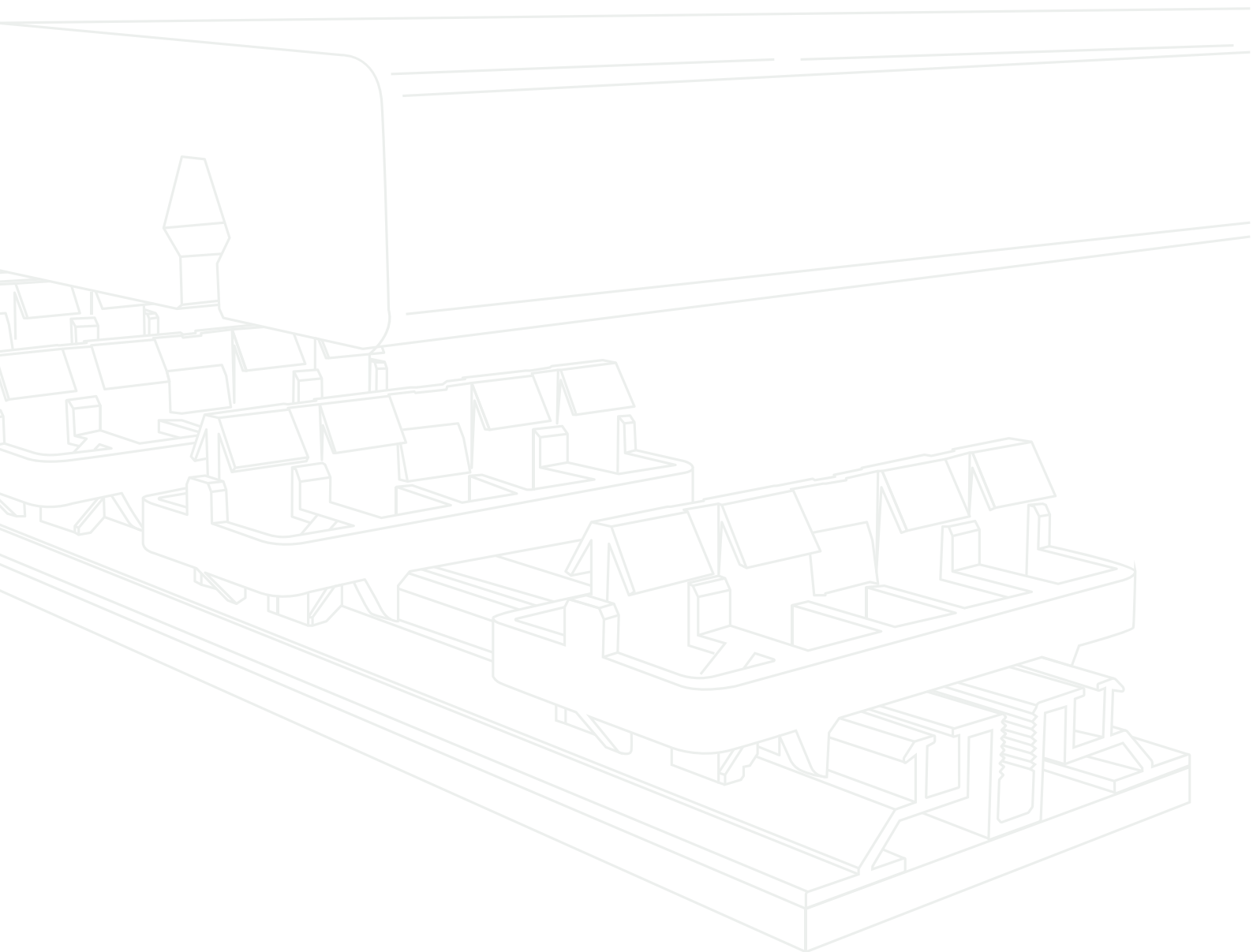
FOREWORD

Design your outdoor space quickly and easily with the Grad® decking system.

This guide will walk you through the simple step-by-step process of building a Grad deck with Flat Rails

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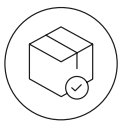
GRAD DECKING WITH FLAT RAILS

Installation guide

From preparing the rails to positioning the boards, including the mounting of aluminium skirting.



Before you start



Delivery of Grad products®

Make sure that everything is as you ordered. Have all the products been delivered? Are they in good condition?



If this is not the case, set aside the damaged items at the time of delivery and contact our customer service department.



Precautions

Before starting the installation, ensure that the ground is stable and that there is no live electrical wiring in the installation area.



Personal Protective Equipment

To avoid injury, we recommend you wear protective clothing and safety equipment such as gloves and goggles. The latter are essential, especially when cutting aluminium rails and wooden boards.



Grad® accepts no responsibility for any failure to comply with the safety instructions.



Tools

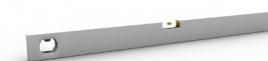
Here is a non-exhaustive list of recommended tools for installing a deck with Flat Rails.



Screwdriver with TX 20-25 end cap



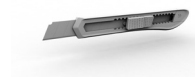
Radial saw with mixed wood/aluminium disc or circular saw



Spirit level



Measuring tape



Cutter



Perforator



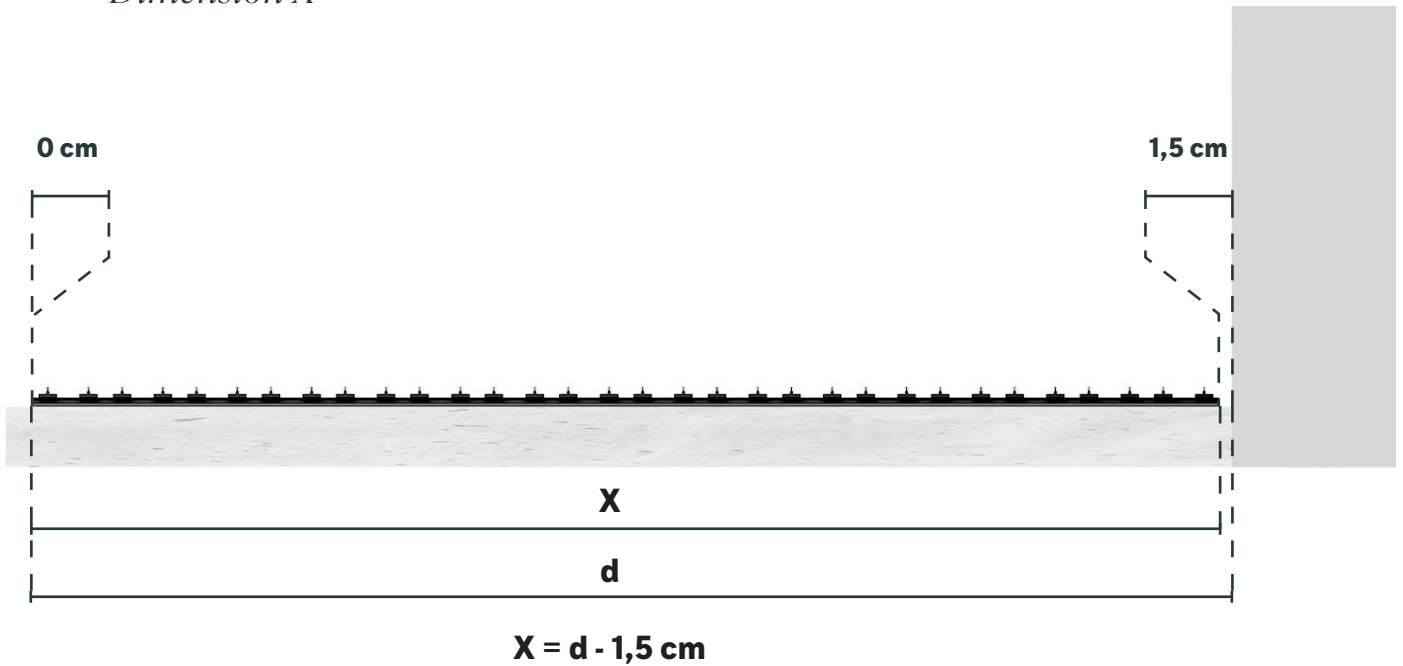
Hammer or mallet



White marker

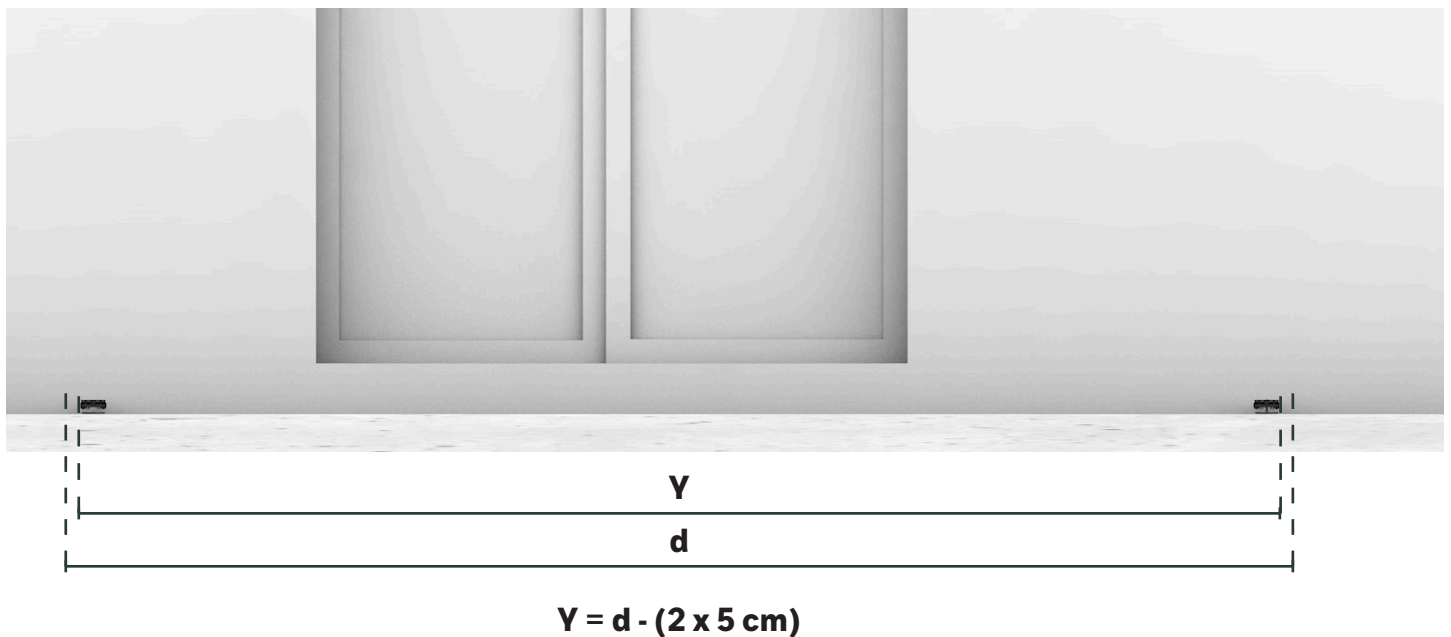
1 Defining the dimensions of the deck

Dimension X



Why is the cut rail on the wall side?
 If the dimensions of your decking require the rails to be resized, a cut may have to be made between two clips that are supposed to hold a board. In this case, the board may have to be cut along its length. We recommend positioning this section against a wall for a better aesthetic result.

Dimension Y



If you wish install aluminium skirting, we recommend that you leave 5 cm on either side of the rails. This will allow the anchors to be installed without colliding with the clips (see p.12).

2 Preparing and cutting the rails



Recommended PPE



3 Place the elastomer strip

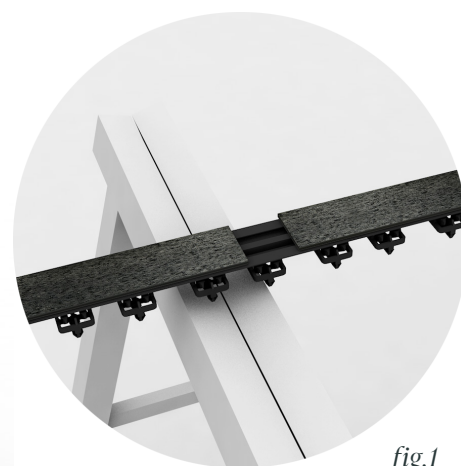


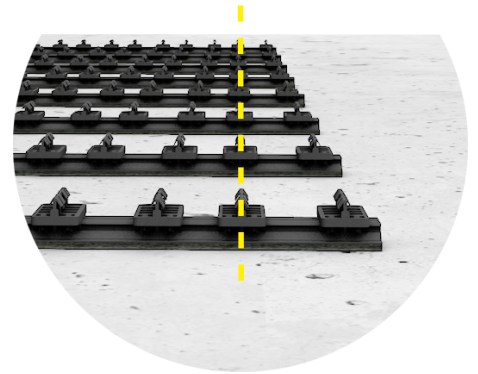
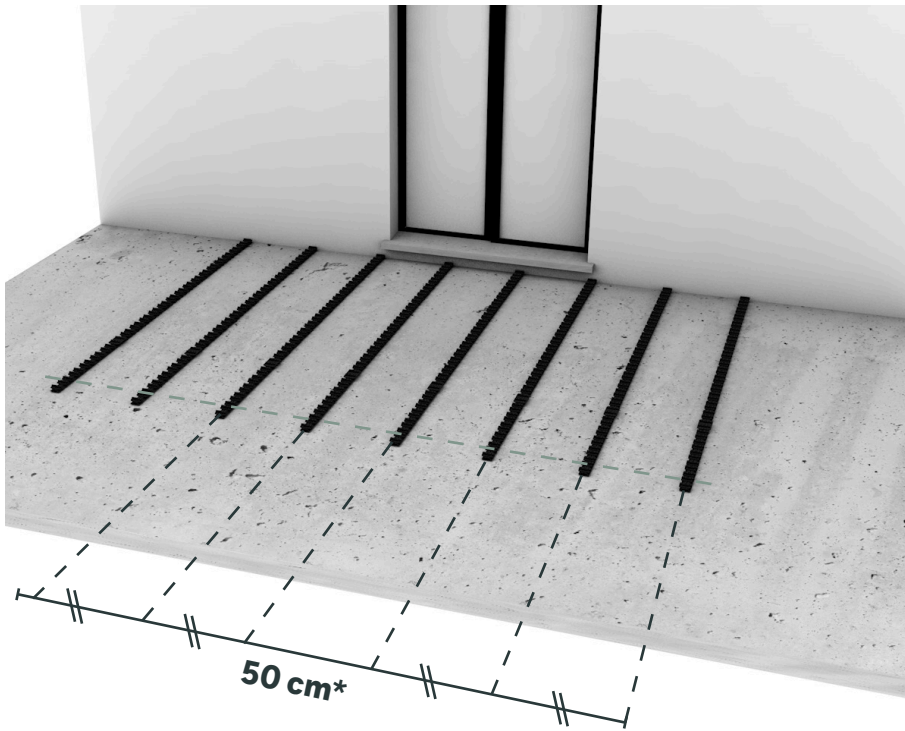
fig.1




Special case

If your decking is slightly sloped and your rails are perpendicular to the slope, we recommend that you leave a gap of 50 mm every 500mm to allow water to drain away (fig.1).

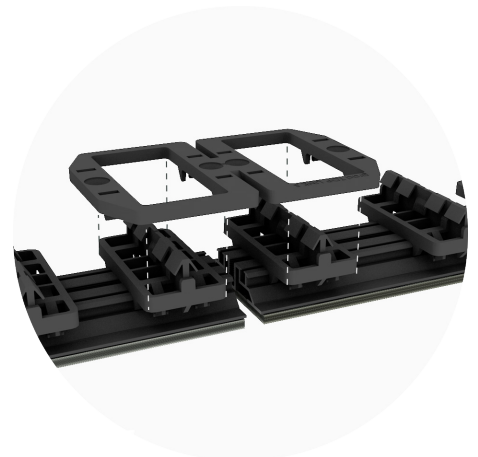
4 Positioning the rails




 As a general rule*, position the rails every 50 cm and make sure that the clips are aligned across every rail.

**Depending on the type of wood you choose, the rail centre distance - i.e. the distance between the rails - may vary.*

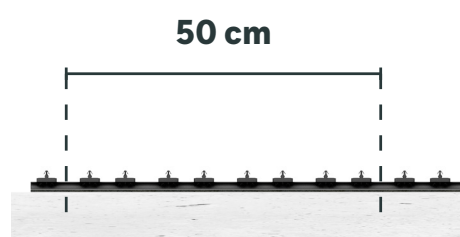
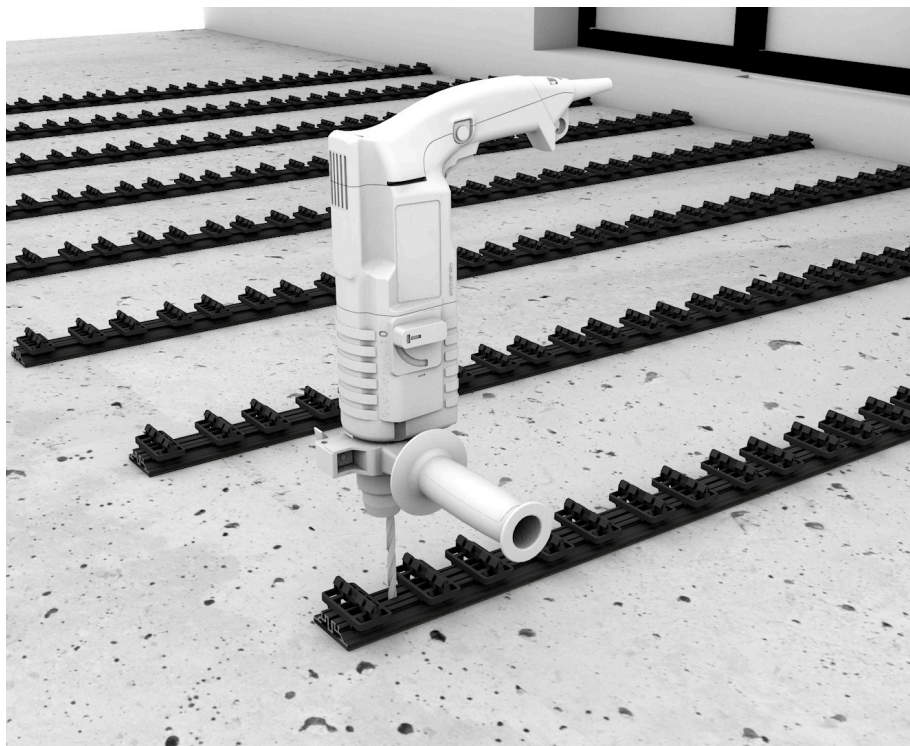
Butt jointing two rails, if necessary




 If your deck is wider than 2 metres, you will need to butt-joint two rails. Joining two rails with a Top Link will guarantee even spacing between the two rails.

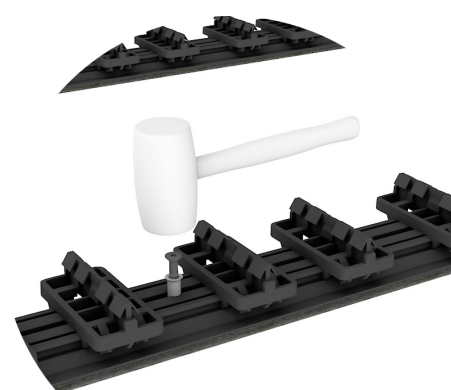
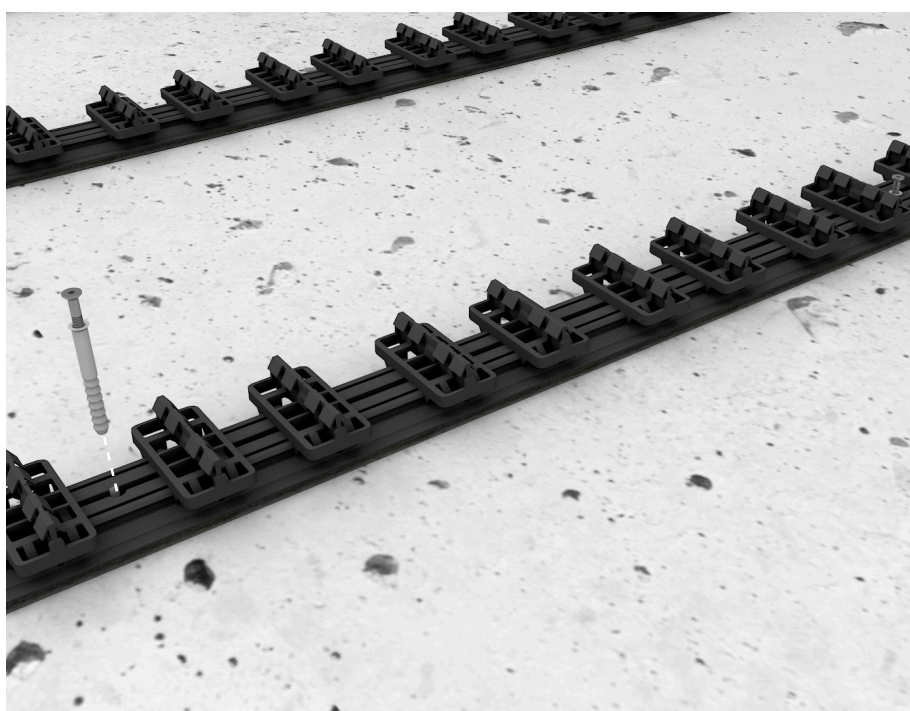
5 Pre-drilling and securing the rails


1. Pre-drilling the rail and ground surface



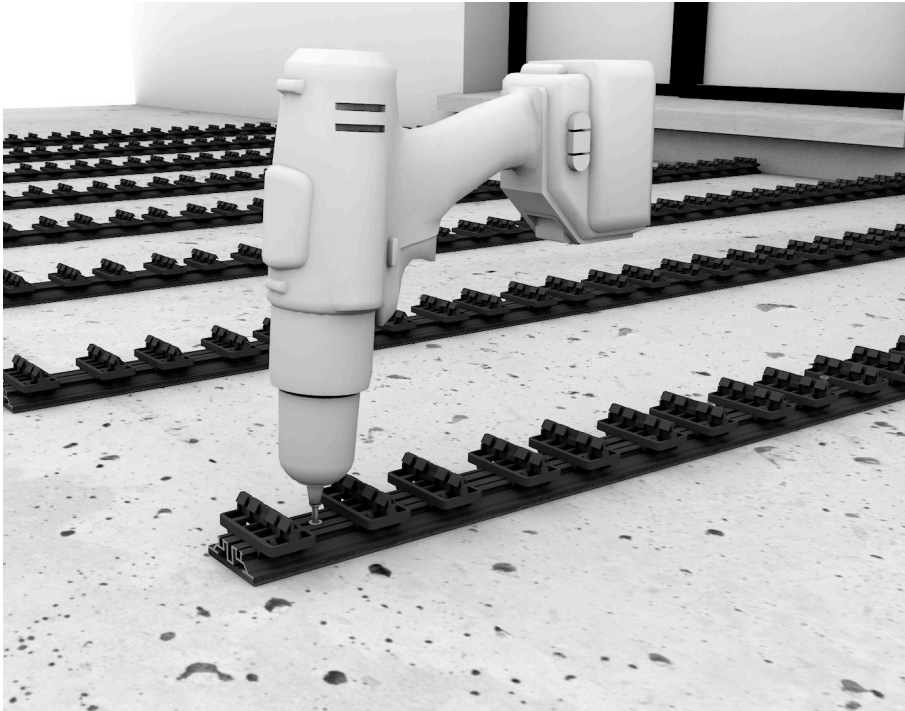
 Drill a hole every 50 cm maximum.


2. Place the screw anchors



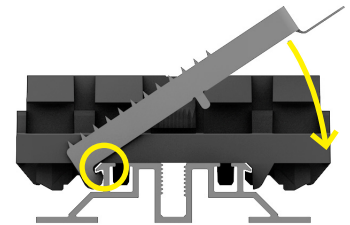
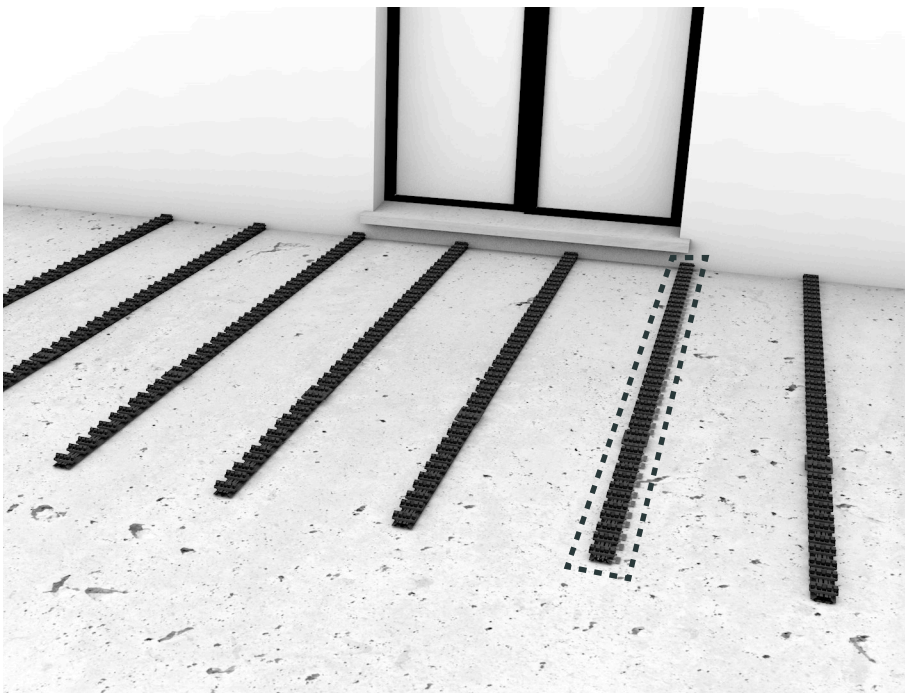
 Use a hammer or mallet to drive the anchor in until the edge of the anchor is against the rail.


3. *Tighten the screws*



 Once all the screws have been screwed in, your rails will be secured and ready to install Clip Grips and boards.

6 Add Clip Grips




 Clip Grips are used to prevent the decking boards from shifting along the clips. They should be placed in the middle of the board.



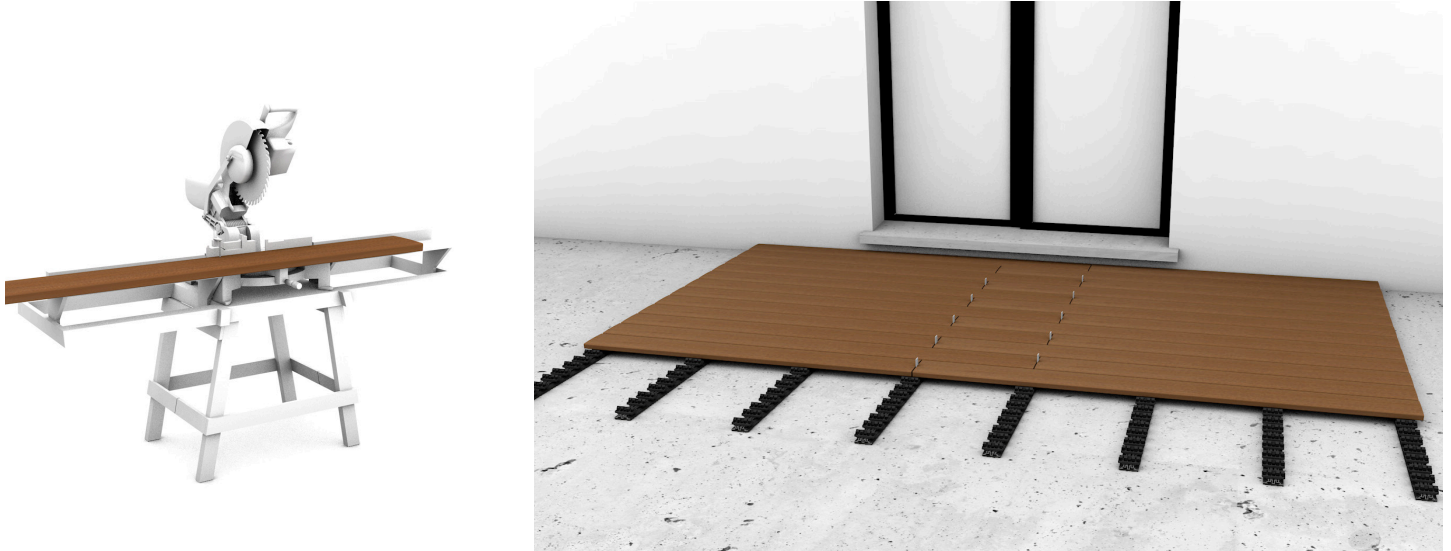
SCAN ME 

7 Positioning and cutting boards

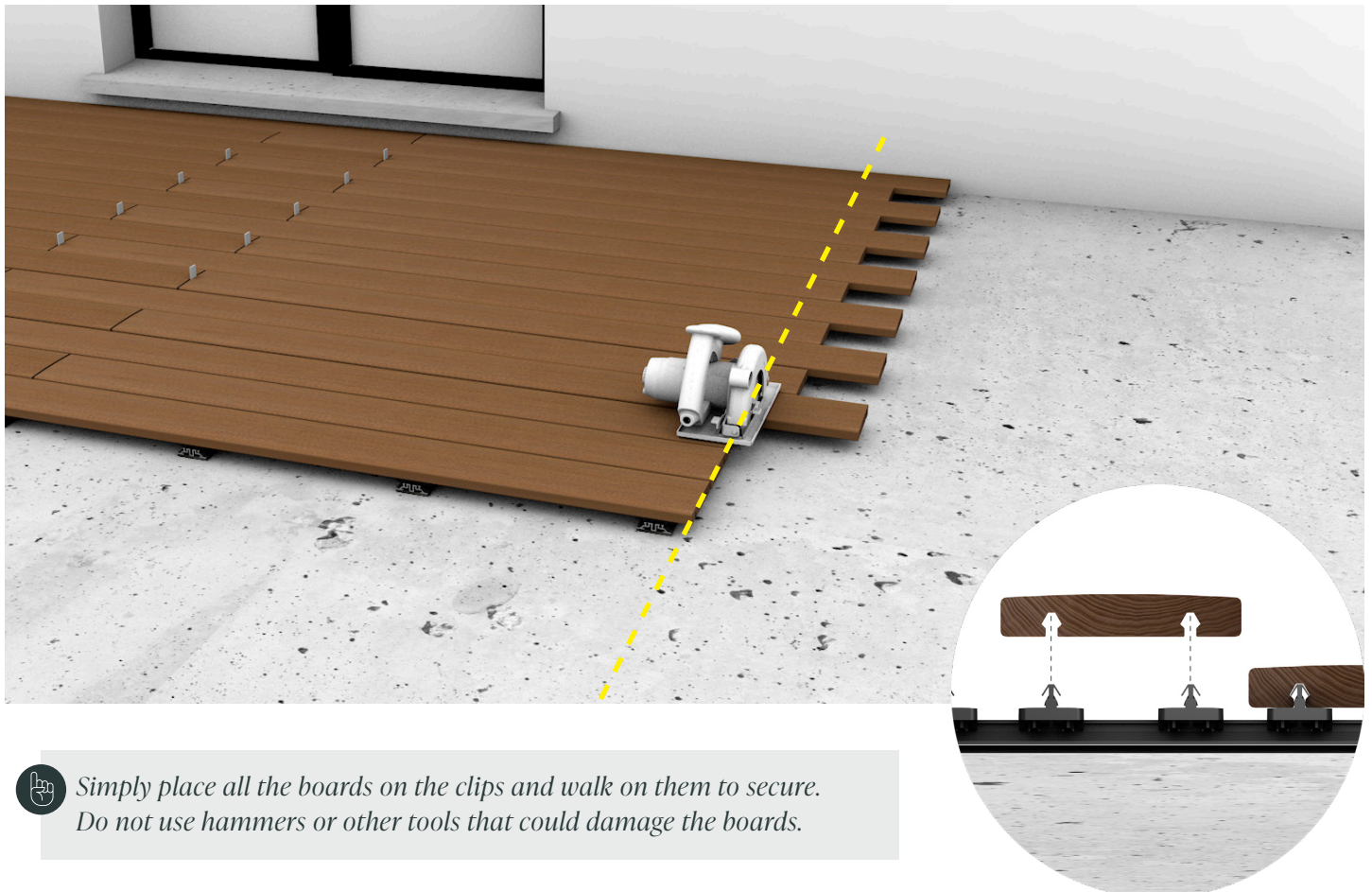



 Due to insufficient ventilation, some boards are not compatible with Flat Rails. Check the technical data sheet for your decking boards or the warranty conditions to make sure they are compatible.

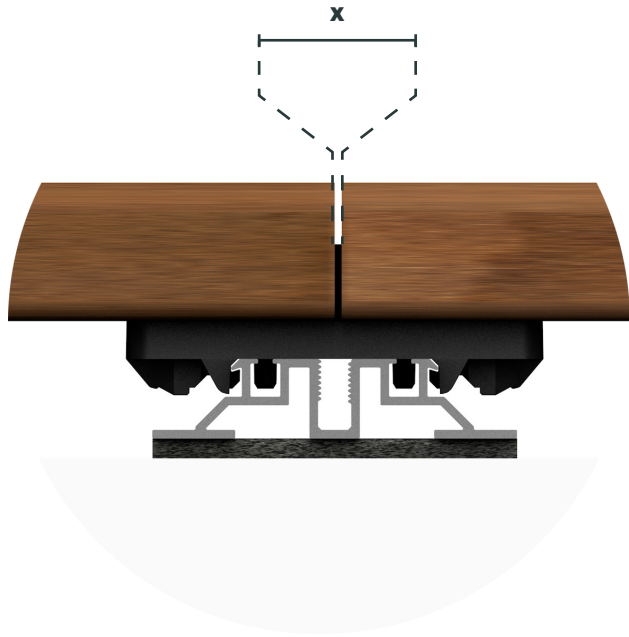
Method 1: Cut, then lay the boards



Method 2: Secure the boards and cut off any excess length



 Simply place all the boards on the clips and walk on them to secure. Do not use hammers or other tools that could damage the boards.



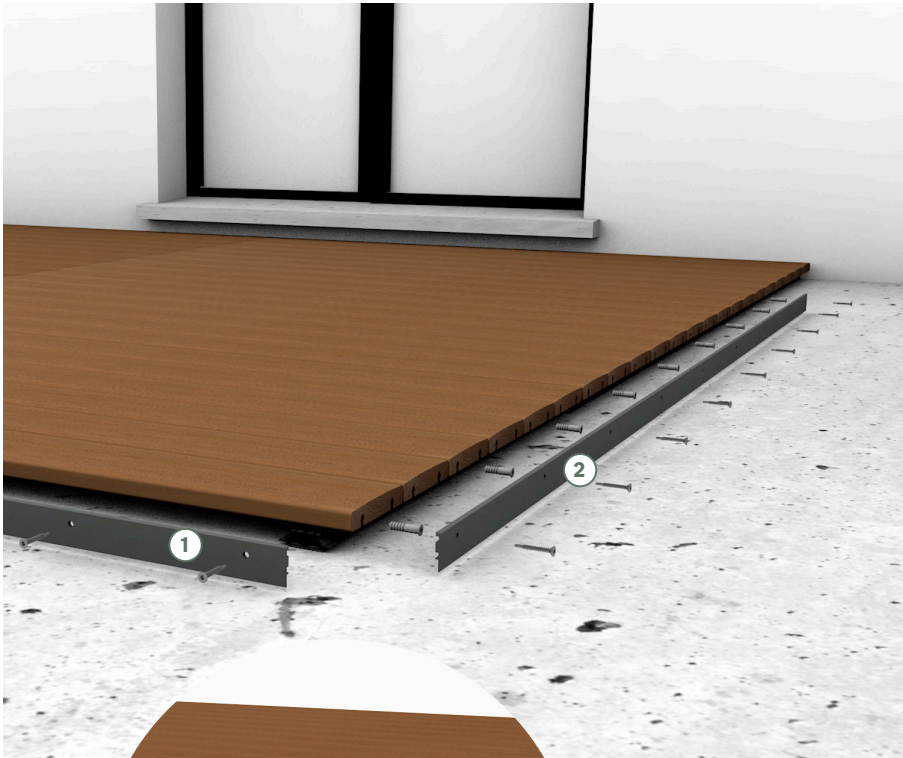
The boards must be butt-jointed over a clip.

Reminder for butt joints

	x
MOSO® boards	0 mm
Other wooden boards	3 mm
Composites and aluminium	Variable

The space between the butt joints of composite and aluminium boards depends not only on the manufacturer's requirements, but also on the temperature at the time of installation and the length of the boards.

8 Installing aluminium skirting rails



Before fitting aluminium skirting rails, we recommend pre-drilling boards (Ø2 mm).

①

On the front side - the side without the grooves - fasten the skirting with a screw into the wood of the board.

②

On the sides, when the hole in the skirting rail is opposite the groove in the board, place a screw anchor in the groove (fig.1) and then fix the skirting rail. If this is not the case, screw directly into the board.

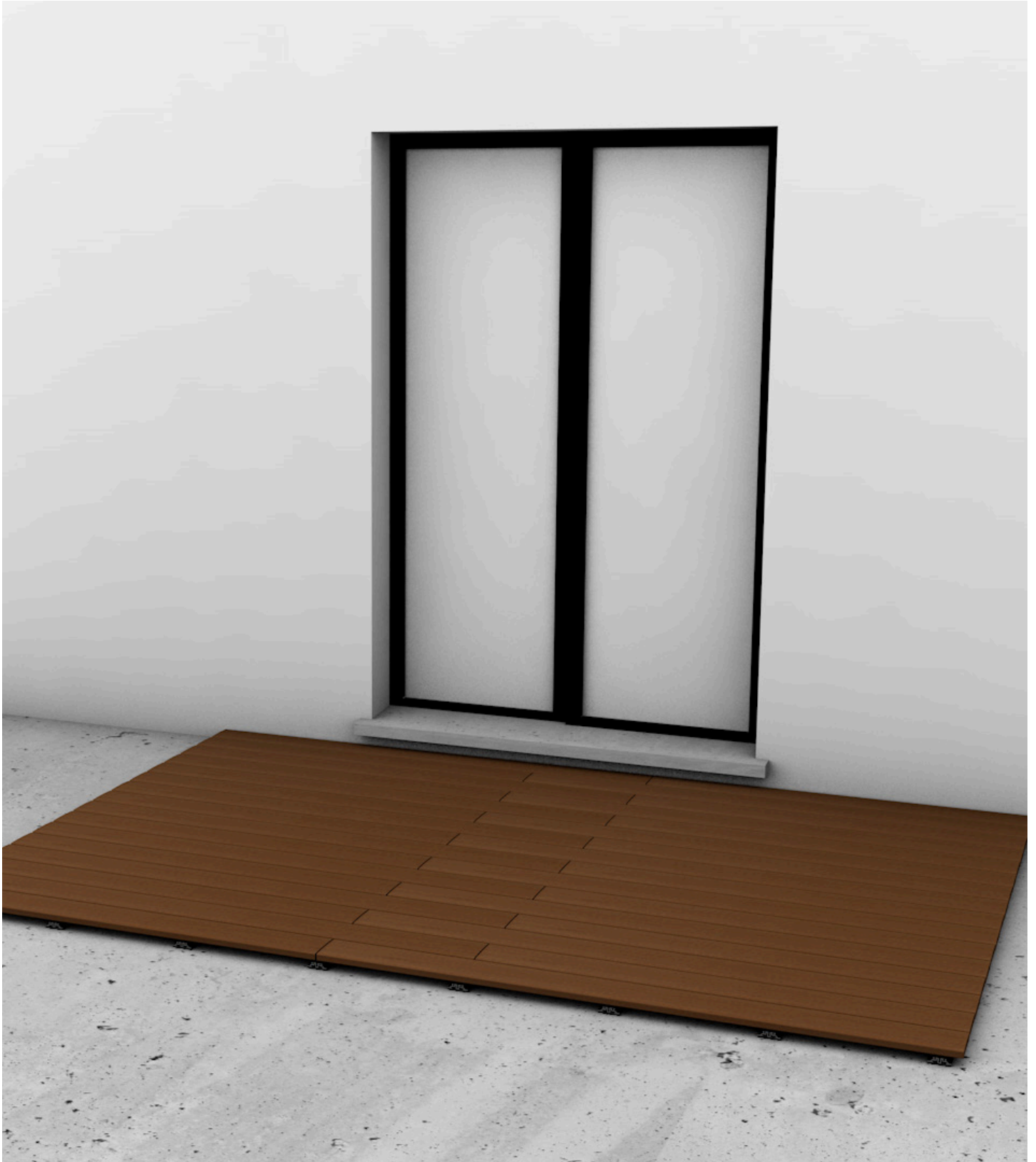


Make sure there is at least 5 cm between the edge of the board and the last clip to avoid a collision between the clip and the screw.




fig.1

13 INSTALLING FLAT RAIL DECKING



Congratulations! The installation of your Flat Rail deck is now complete!

 Please note that if you want to install a spa, jacuzzi or brazier, for example, these items must never rest directly on the deck. They must rest on a specific support that is separate from the structure of your deck.

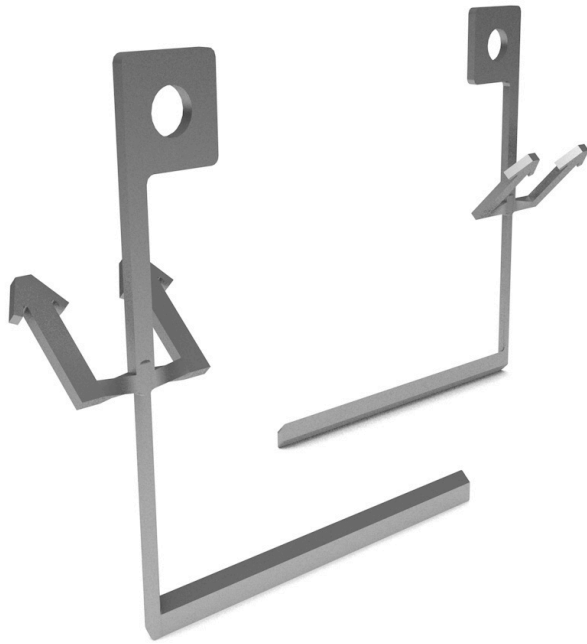
REMOVING A DECK BOARD

Unclipping boards

Follow the instructions below to remove your deck boards easily and without damage.




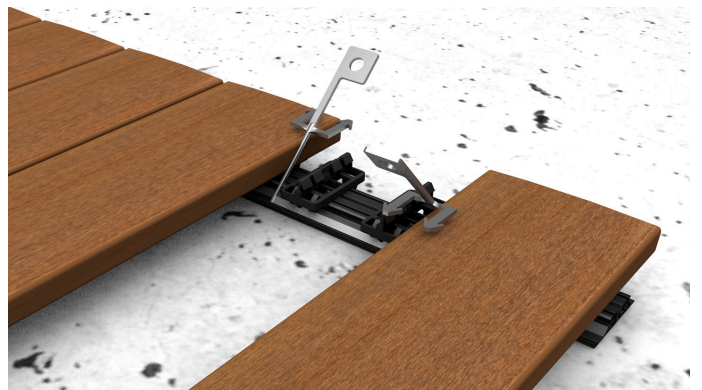
15 REMOVING A BOARD - DISMANTLING KEYS



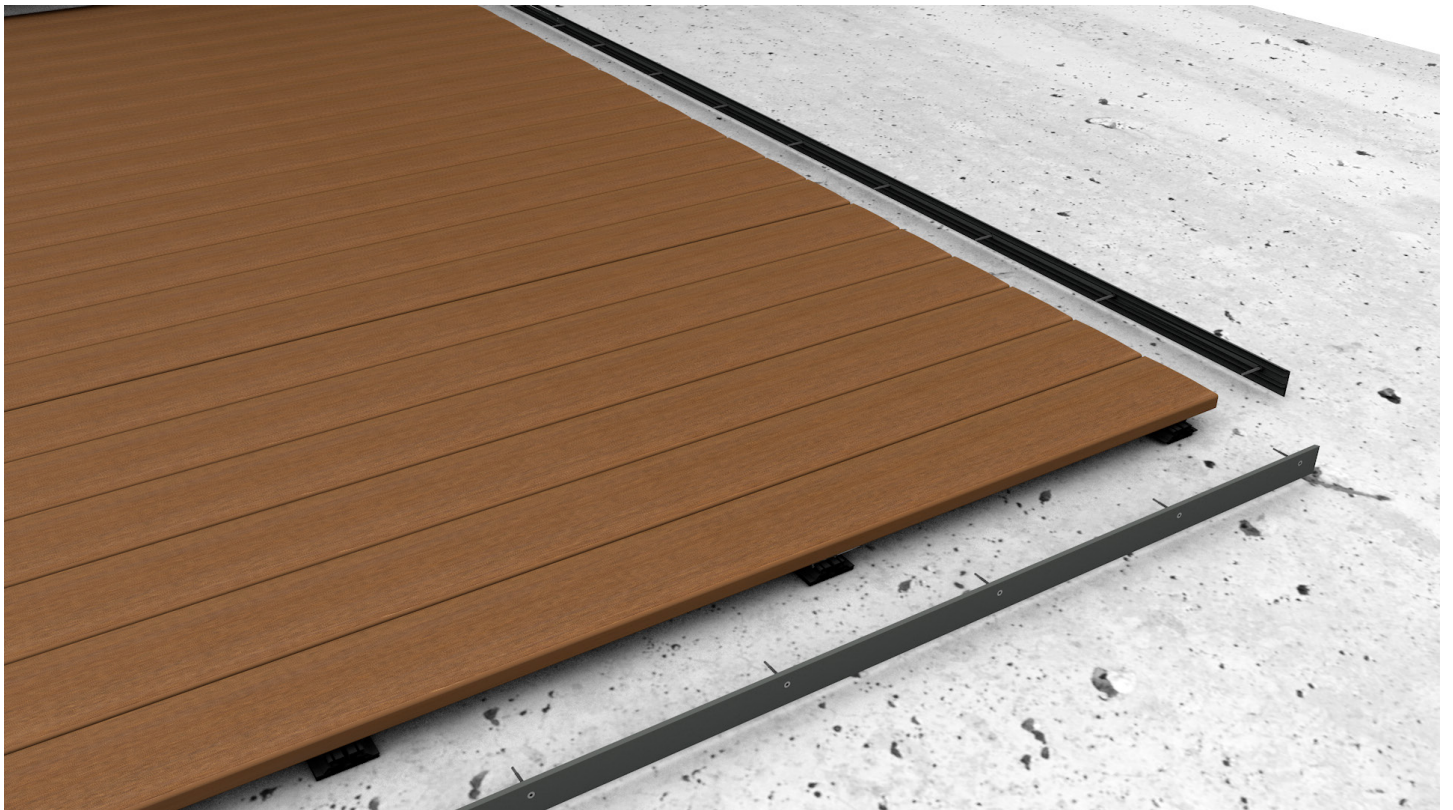
Dismantling Keys

One of Grad®'s strengths also lies in the fact that you can remove the boards from your deck quickly and easily using the specially designed Dismantling Keys.

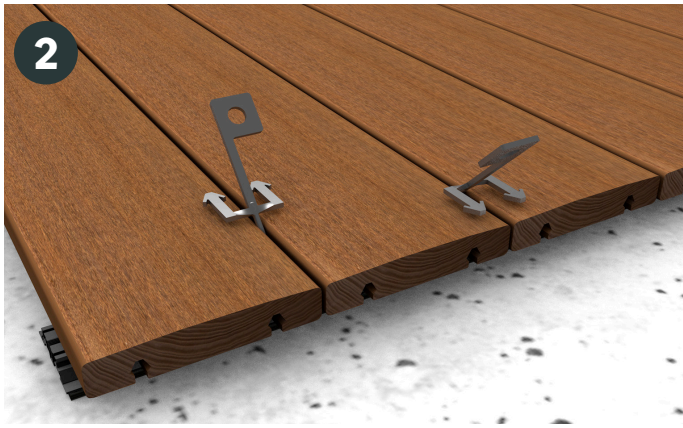
 Depending on the width of the boards, one pair of keys is more suitable than the other. Make sure your decking matches the keys before placing your order.



1 Remove skirting rails



Depending on the board you wish to remove, you may need to remove the aluminium skirting rails.

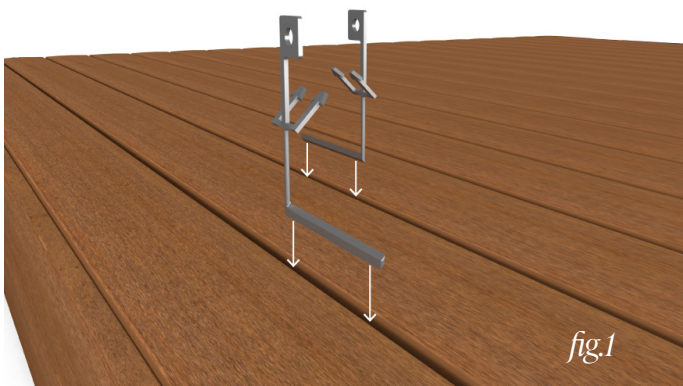


Start at the end of the board

Unclip the board starting at one end, then at each intersection between the rail and the board until you reach the other end of the board.

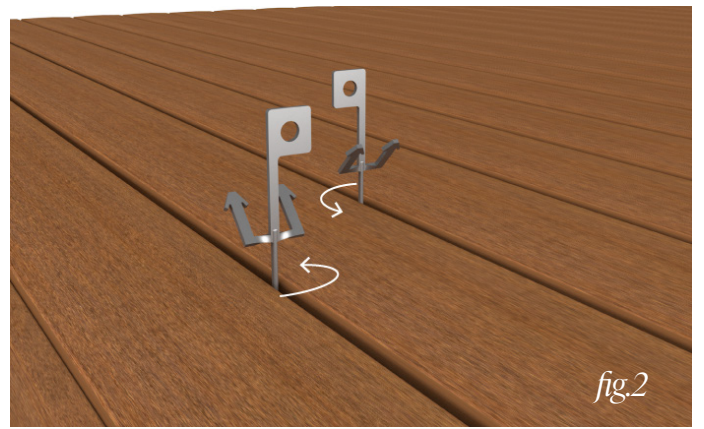
 *It is not possible to unclip the board from the middle.*

3 Insert the keys between the boards



Place the dismantling keys parallel to the board and perpendicular to the rail (fig. 1).

4 Turn the keys



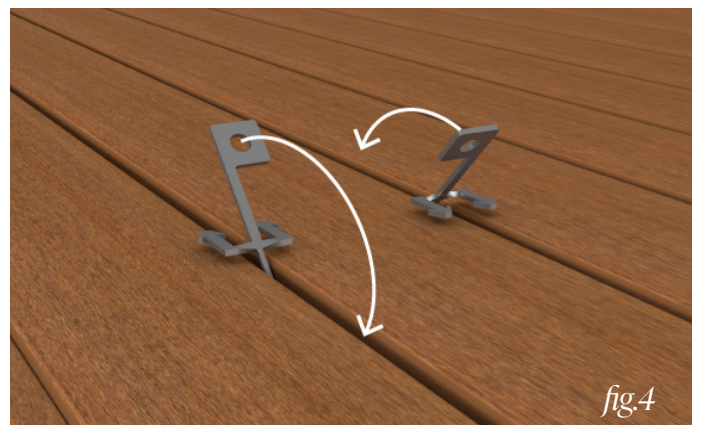
Turn the keys 90° counterclockwise so that the lower part of the keys is parallel to the rail (fig. 2).

5 Tilt the keys



Tilt the keys and slide them in the direction of the arrows until they touch the rail and grip the clips. The keys are correctly positioned. (fig. 3)

6 Apply pressure to the keys



Apply pressure to the keys so that the lower part of the keys unclips the clips from the rail. When the board is fully unclipped, turn it over and carefully slide the clips out of the grooves. All that remains is to reclip the clips to the rail. (fig. 4)

 *Although it is possible to unclip the boards from your deck, we recommend that you only do so on rare occasions.*

GRAD® - BURGER & CIE
Z.I. Bois l'Abbesse
68660 LIÈPVRE - FRANCE
+33(0)3 89 58 45 45

GRAD-SYSTEM.COM

