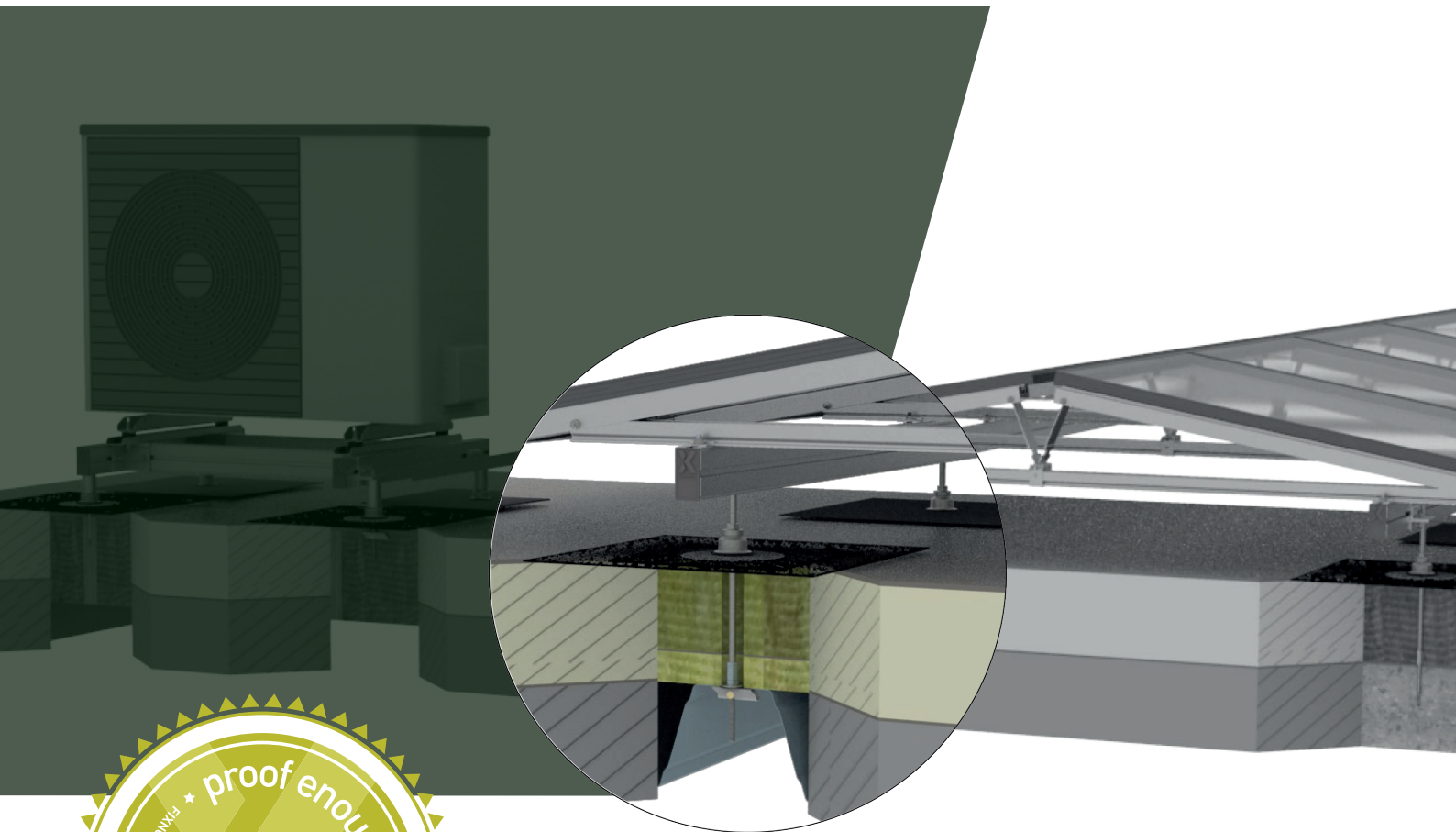




FIXNORDIC.DK

Installation Guide Warm Roof Trapez

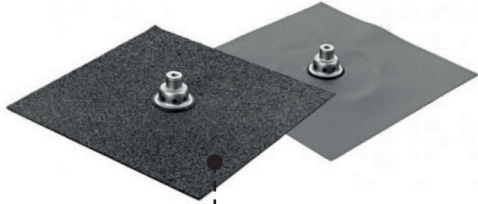


**Guide line for Roof Consoles
on warm trapez roof constructions**

FIXNORDIC
proof enough.



Product and accessory overview



RoofConsoles

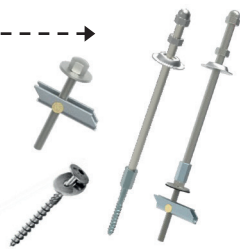
- #220063-1xx 1 layer of bitumen
- #230063-1xx 2 layer of bitumen
- #220063-2xx foil (pvc, fpo, tpo etc.)

Console Anchors

- #210074-250 Trapez Anchor (250 mm)
- #210074-500 Trapez Anchor (500 mm)
- #210072-250 Concrete Anchor (250 mm)
- #210072-500 Concrete Anchor (500 mm)
- #210073-250 Wood Anchor (250 mm)
- #210073-500 Wood Anchor (500 mm)
- #210065 Toggle Anchor (M10x120)
- #210066 Wood Screw (Ø8x100)

Console Adapters

- #250087 Console Adapter (Ø80)
- #250119 Console Adapter (Ø40x40)



Tools and symbol overview

The following list presents the necessary tools for performing an efficient and correct installation of the Roof Console on warm trapez roof constructions. The installation should always be carried out by qualified installers.



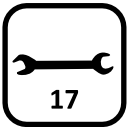
Drill Driver



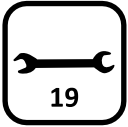
Ø40 mm Insulation knife
 #250103 (200 mm) #250094 (300 mm)



Trapez Drill (Ø25/40x400)
 #250096 (400 mm)



Wrench (17 mm)



Wrench (19 mm)



Socket for Drill Driver (19 mm)



Bitumen membrane types: Gas Torch



Single Ply membrane types: Hot Air Furn



Manual Handling



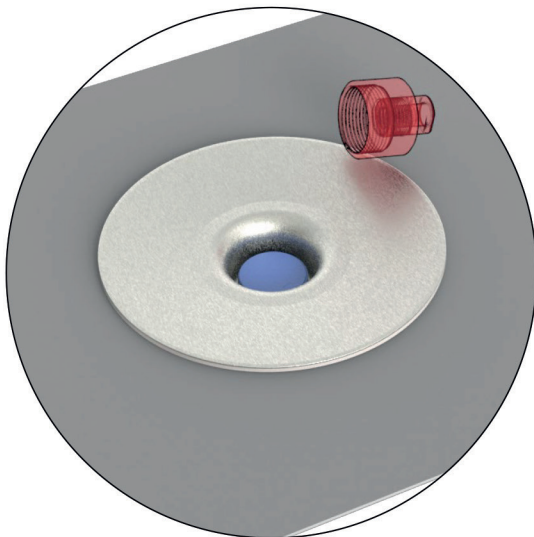
Tightning operation (clock wise rotation)



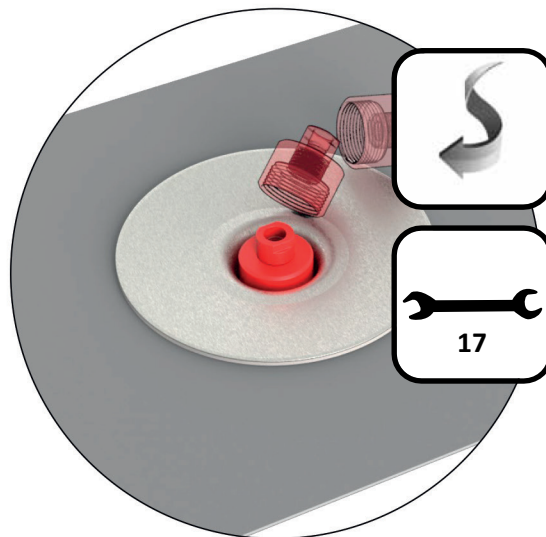
Manual grapping / fixation



1. Roof Console Pre-assembly



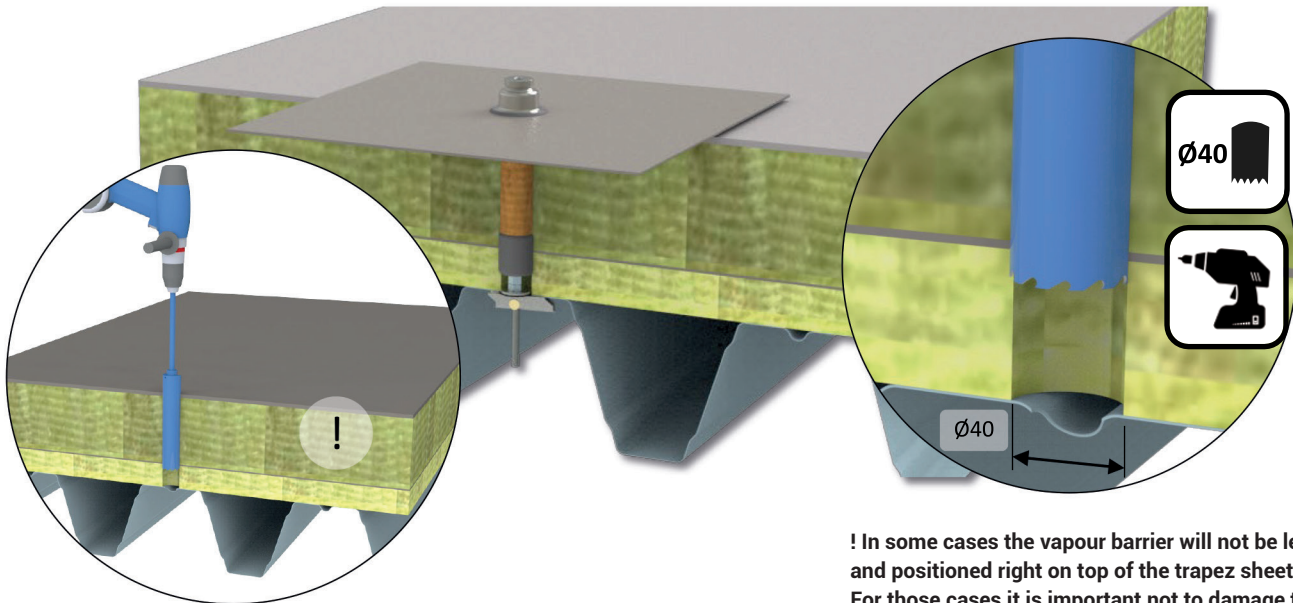
The Console Adapter M12 (Ø40x40) must be installed by engaging the internal M35 thread with the M35 thread inside the Console housing.



The Console Adapter is turned by hand until it reaches a natural stop where after it is tightened with a 17 mm key wrench.

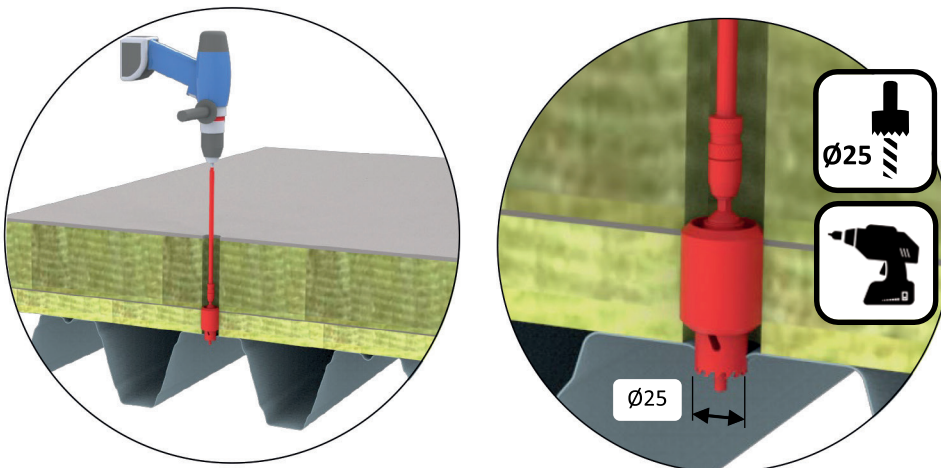
When the Console Adapter is mounted the installation of the anchor can be initialized.

2. Anchor and Console Installation (Insulation cut-out and CMS drilling)



Using an insulation drill to cut-out the insulation all the way, through the vapour barrier, to the trapez steel deck.

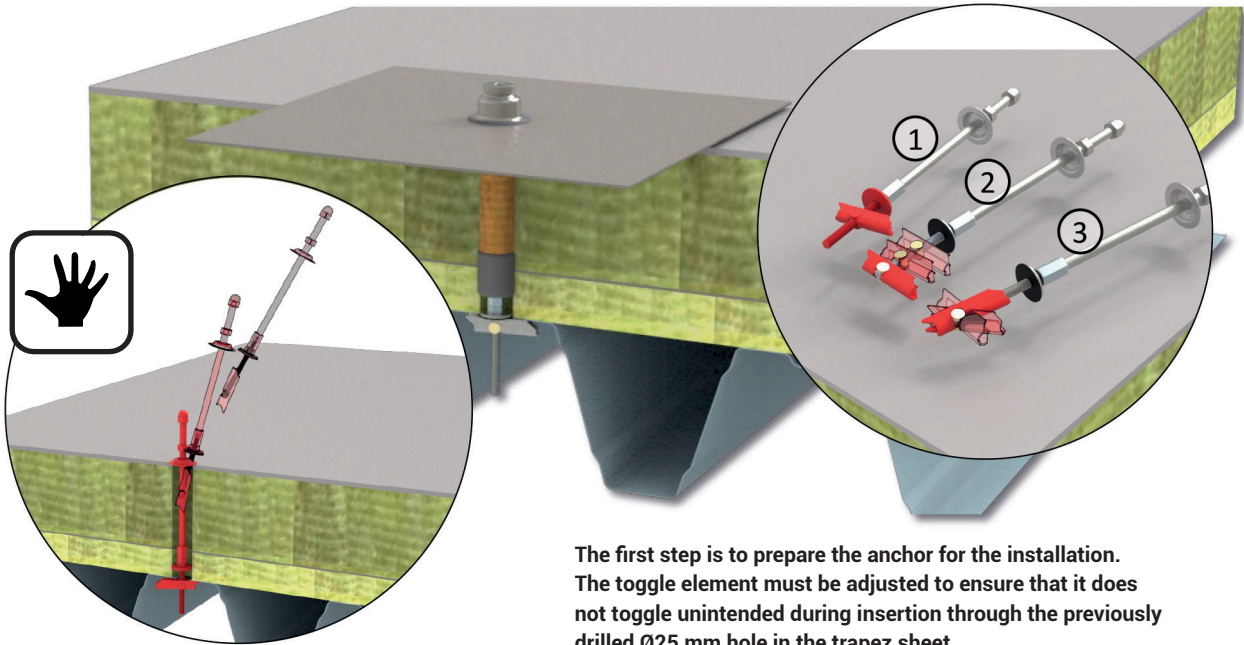
! In some cases the vapour barrier will not be leveled and positioned right on top of the trapez sheets. For those cases it is important not to damage the vapour barrier while drilling.



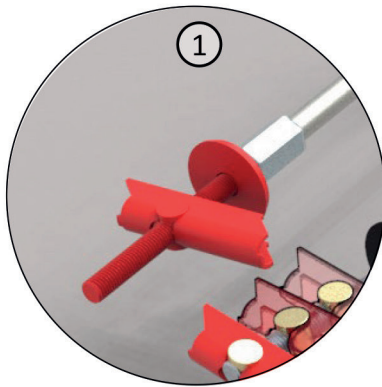
Concentric to the circular Ø40 cut-out a Ø25 mm hole must be drilled through the trapez sheet.



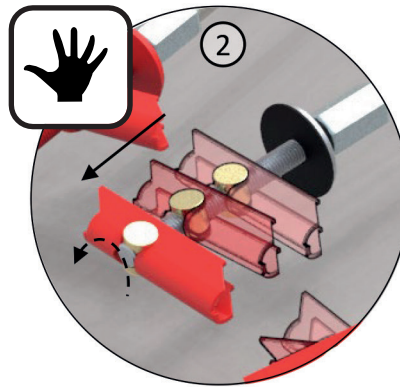
5. Anchor installation – length adjustment



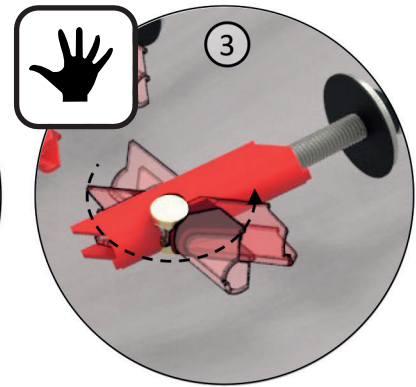
The first step is to prepare the anchor for the installation. The toggle element must be adjusted to ensure that it does not toggle unintended during insertion through the previously drilled Ø25 mm hole in the trapez sheet.



Anchor delivery state

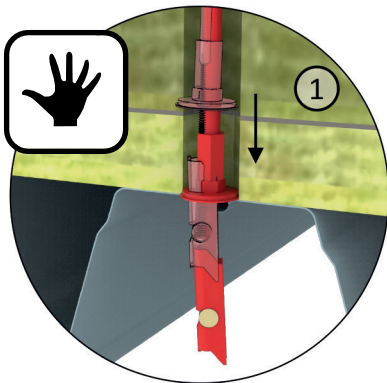
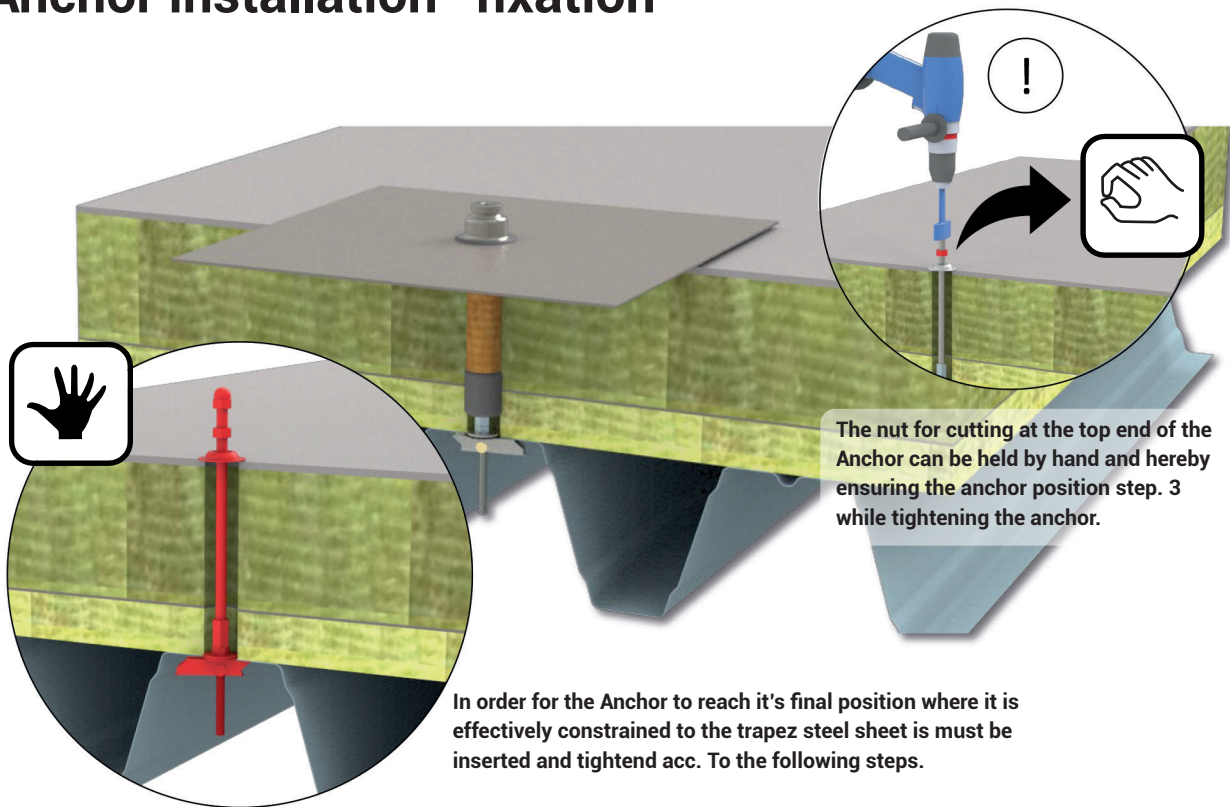


From the start state pos. 1 the toggle element must be turned on the M10 threaded rod until it reaches the stop at bottom end.

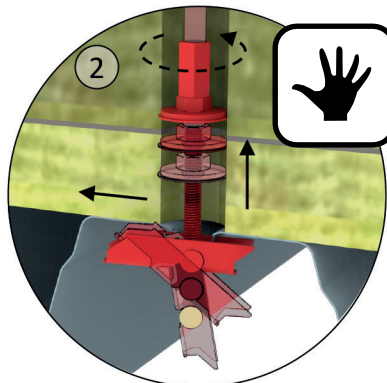


The toggle element is rotated to a vertical position with the heaviest and longest end facing upwards. At this point the circular part of the anchor is turned approximately ½ round clock wise and hereby constraining the toggle movement of the anchor for the following installation.

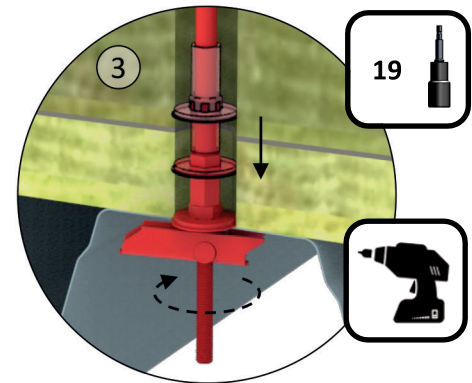
4. Anchor installation -fixation



1
The pre-set anchor is inserted through the predrilled Ø25 mm hole.

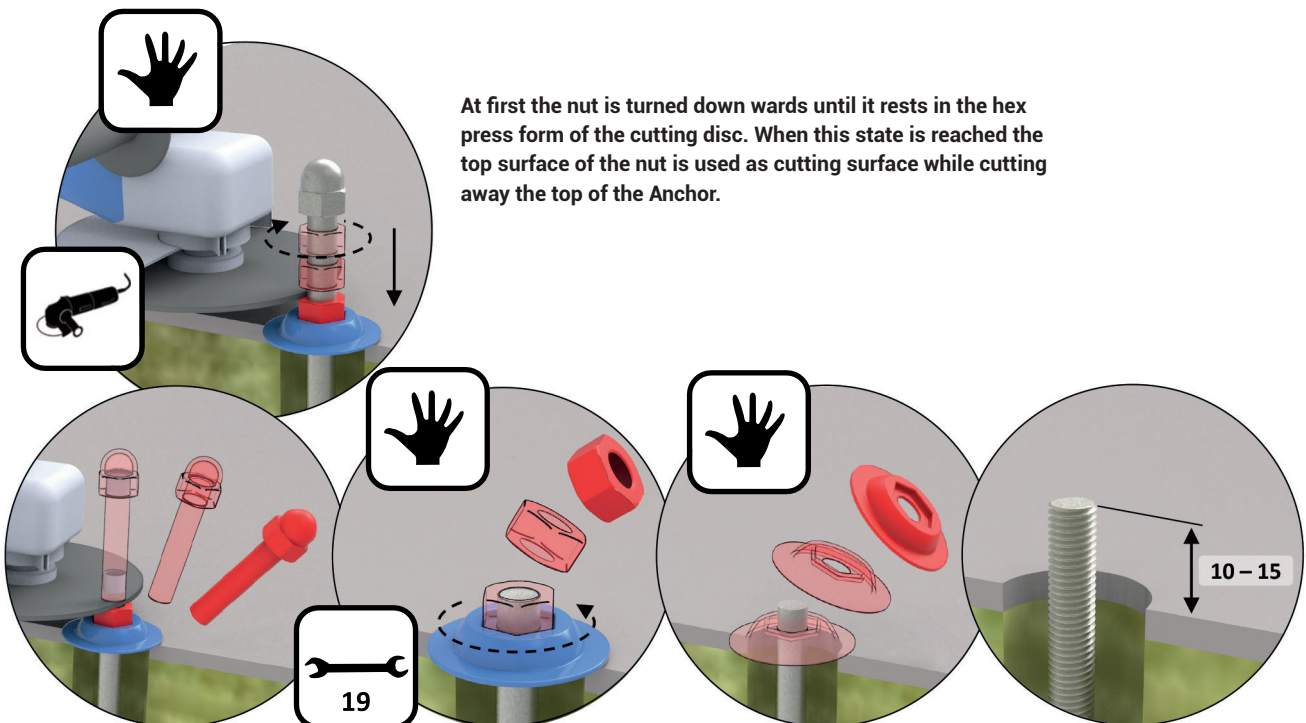
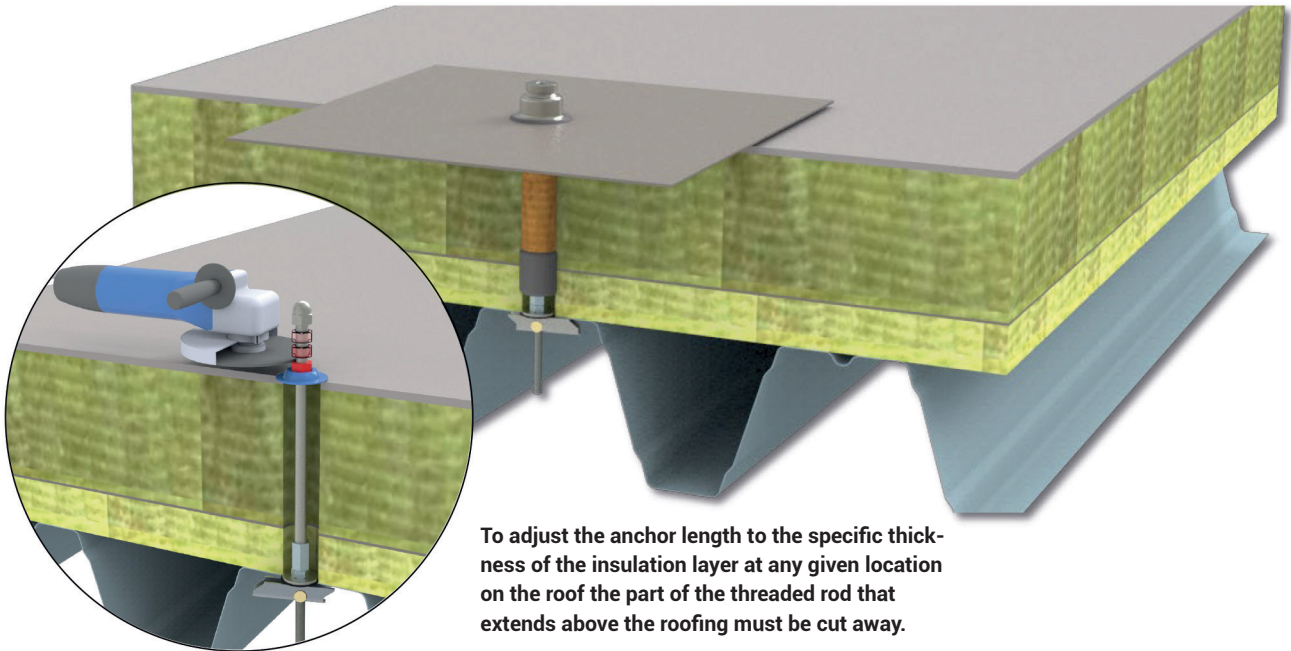


2
With the complete toggle element below the trapez sheet the anchor is pulled upwards while holding it slightly to one side. When it is in slight contact with the trapez sheet it is held in this position while the threaded rod assembly is turned approx. ½ round counter clock wise. With the toggle function reenabled the anchor is pulled upwards to it's top position.



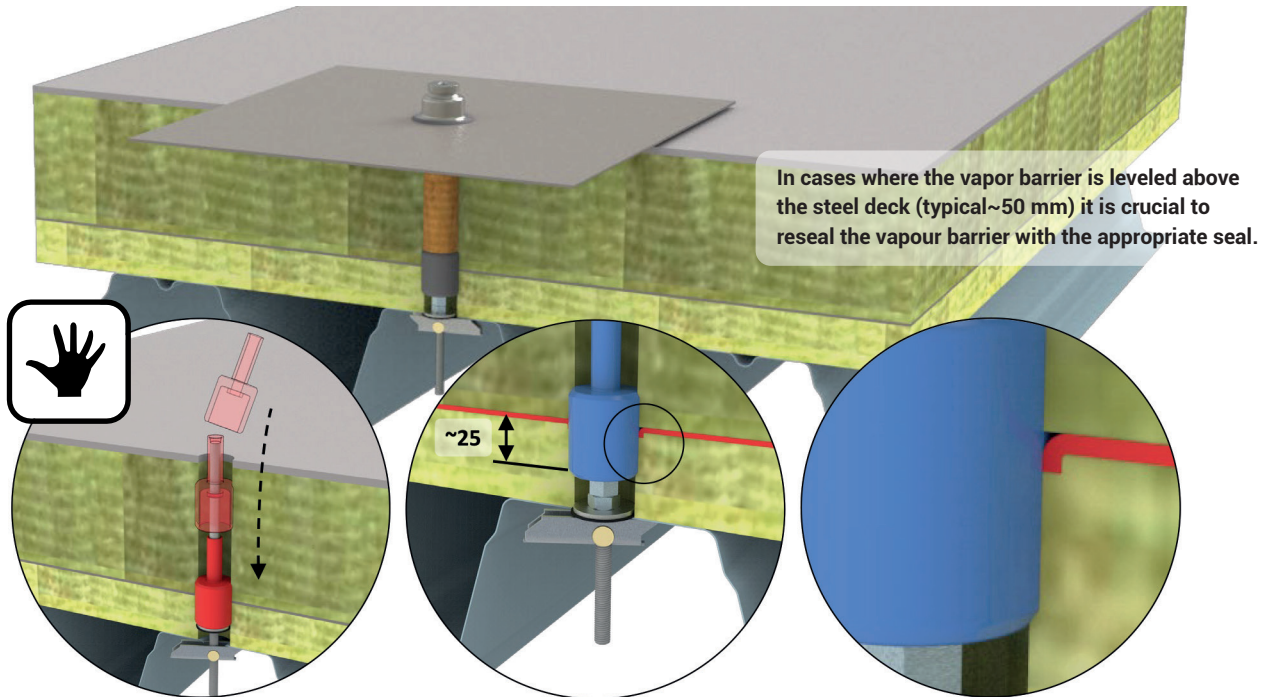
3
The anchor can now be tightened by turning the threaded rod assembly until the trapez sheet is tight between the toggle element on the subside and the contact washer on top side.

5. Anchor installation – length adjustment



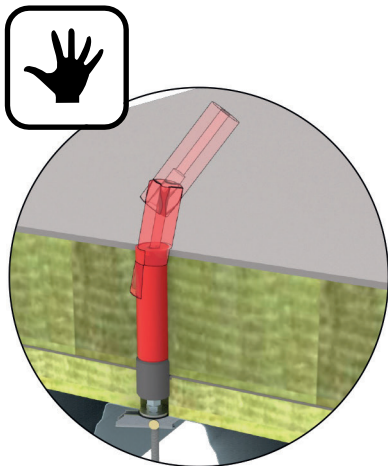
After the threaded rod has been cut the nut can be dismantled, the cutting disc can be removed and the threaded rod will extend 10 – 15 mm above the roof surface.

6. Anchor installation –vapor barrier seal and reinsulating



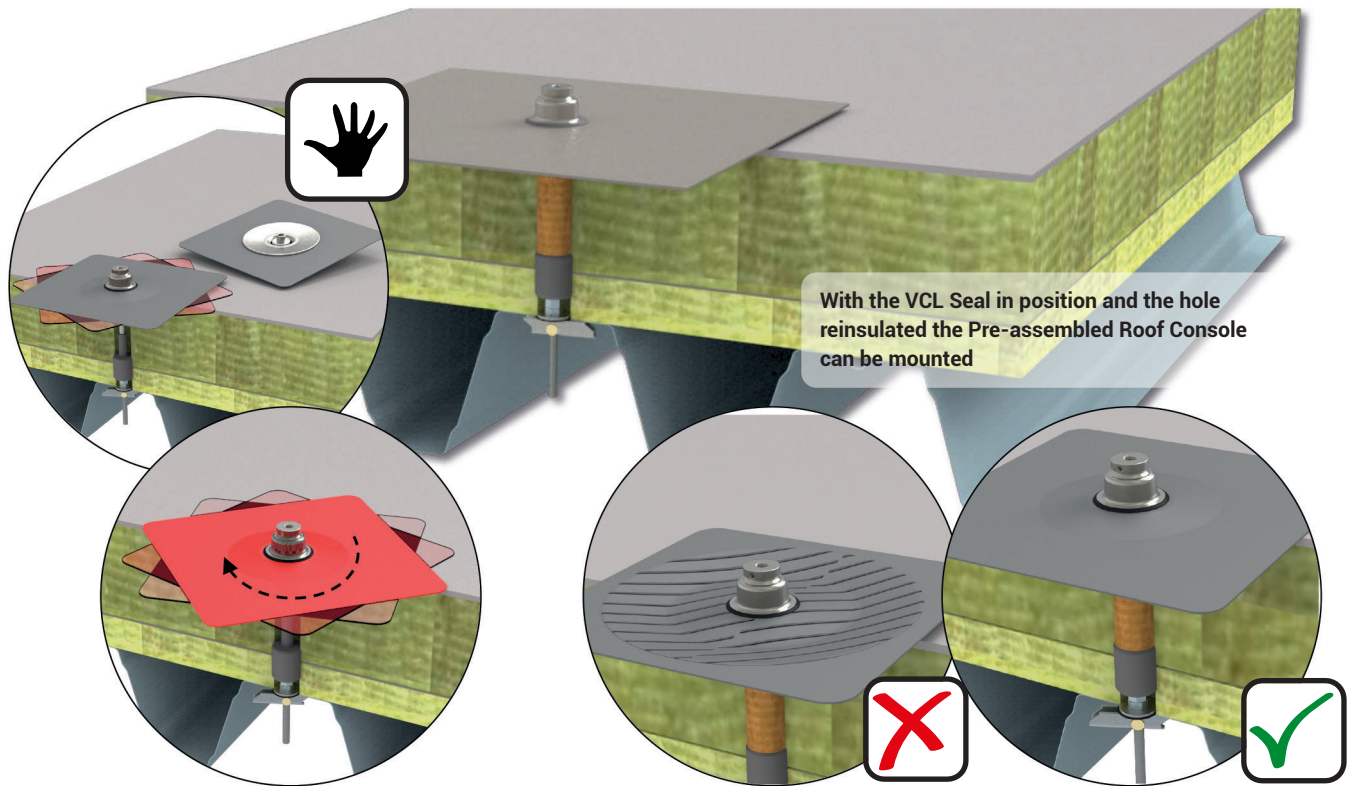
The Vapour Control Layer Seal (VCL) is simply engaged onto the newly cut threaded rod and pushed down until the bottom of the seal is about 25 mm below the VCL.

When the hole through the VCL has been drilled correctly the VCL (typical bituminous based material) will shape it self up against the VCL Seal and hereby provide the required seal function.



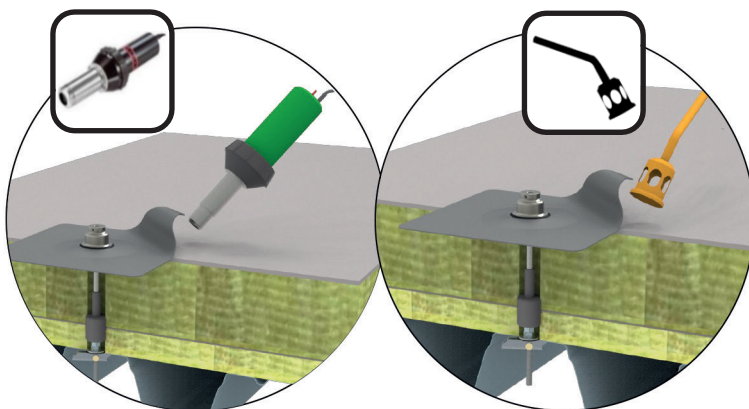
Even though a given roof construction is without a leveled VCL the previously drilled hole must be refilled with insulation material before the Roof Console can be mounted.

7. Roof Console Installation



With the threaded rod of the Console Anchor protruding approximately 10 mm above the roof surface the pre-assembled Roof Console can be installed by engaging the M12 threaded rod into the M12 thread of the Console Adapter.

While spinning the Roof Console towards the roof attention must be directed on not to over turn the Console and hereby creating tensions in the membrane or unintended deformation of the supporting insulation.



When the Roof Console is in its final position the console membrane must be welded towards the roof surface.

The general recommendation is that this specific part of the installation is carried out by qualified personnel who are trained for the specific project type of membrane.

