FLOBAR
FLOOD PROTECTION MADE EASY
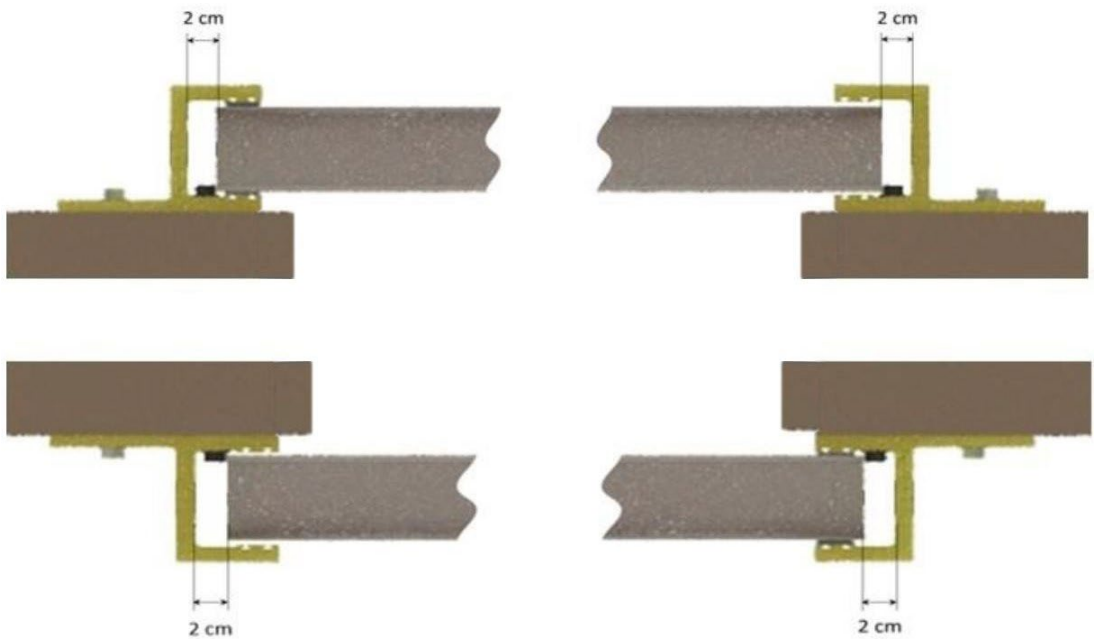
INSTALLATION MANUAL
FLOODING   SYSTEM
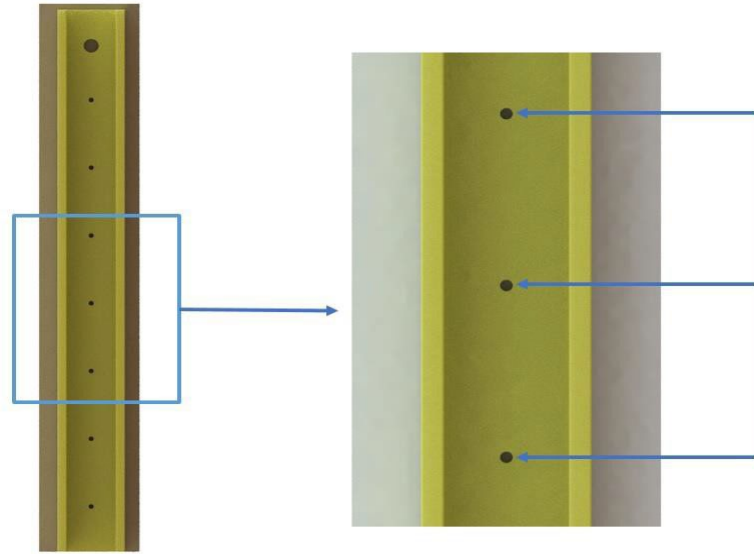## FLOBAR SWEDEN AB

I.   **INSTALLATION OF POSTS (GUIDING ELEMENTS)**

Place the posts which function as guiding elements at the installation site and **level them horizontally and vertically**.

ATTENTION:	The guiding elements should be placed in line (Picture 1). The posts should be installed so as to allow approx. 2 cm space between the back wall of the post and the barrier beam (Picture 2)

2 cm   2 cm

2 cm   2 cm

2. Drill bore-holes in the wall to which the guiding elements are to be fixed. The bore-holes should enable using Fisher dowels or liquid dowels with minimum M8 size screws (Picture 3).

ATTENTION: **Make sure that the guiding elements are attached to a solid surface, not the thermal insulation of the building. The insulation under the guiders must be removed before starting the installation.**

Picture 3 drilling of installation bore-holes

3. Place the Fisher dowels or liquid dowels in the pre-drilled bore-holes. When using Fisher dowels, prior to their installation, inject silicon liquid in the bore-holes, which would prevent humidity penetration into the wall.

4. Stick the expanding tape (not included in the standard kit) to the side of the posts adjacent to the wall, as indicated on Picture 4a or apply the SikaFlex silicon attached to the system (Picture 4b – the application of silicon only for demonstration).
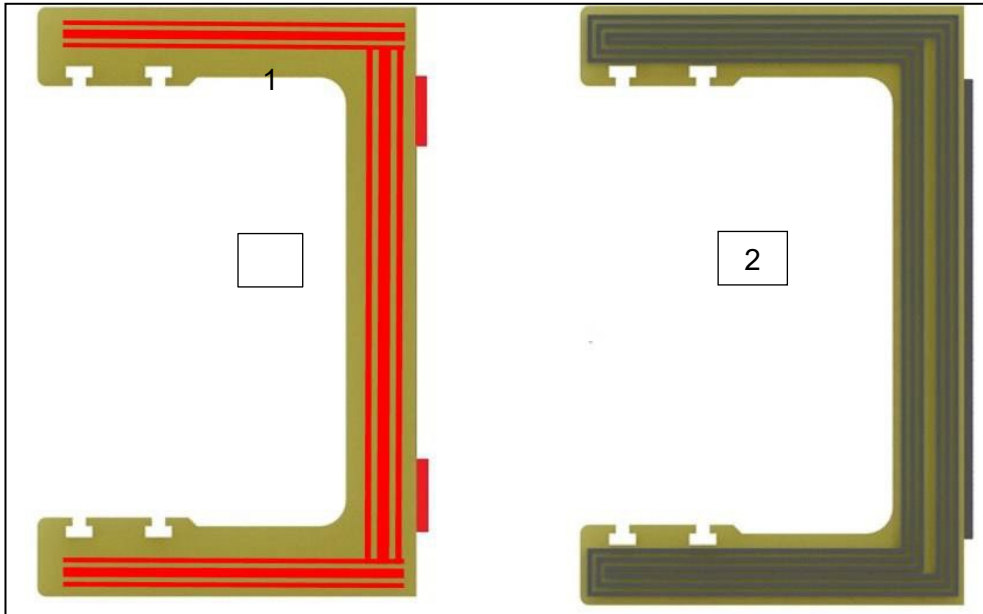

Picture 4a Post – expanding tape location   *Picture 1b Post – example of silicon application*
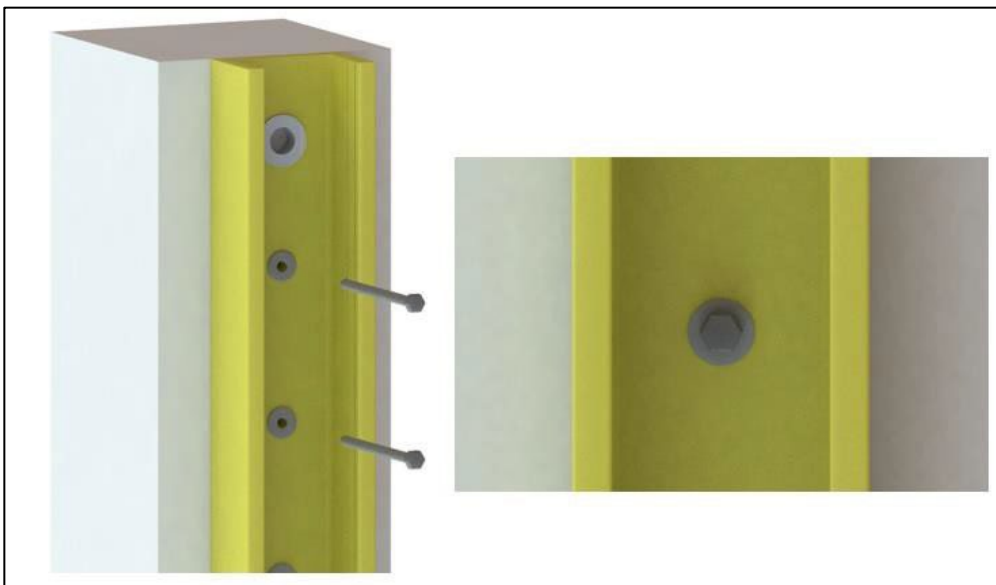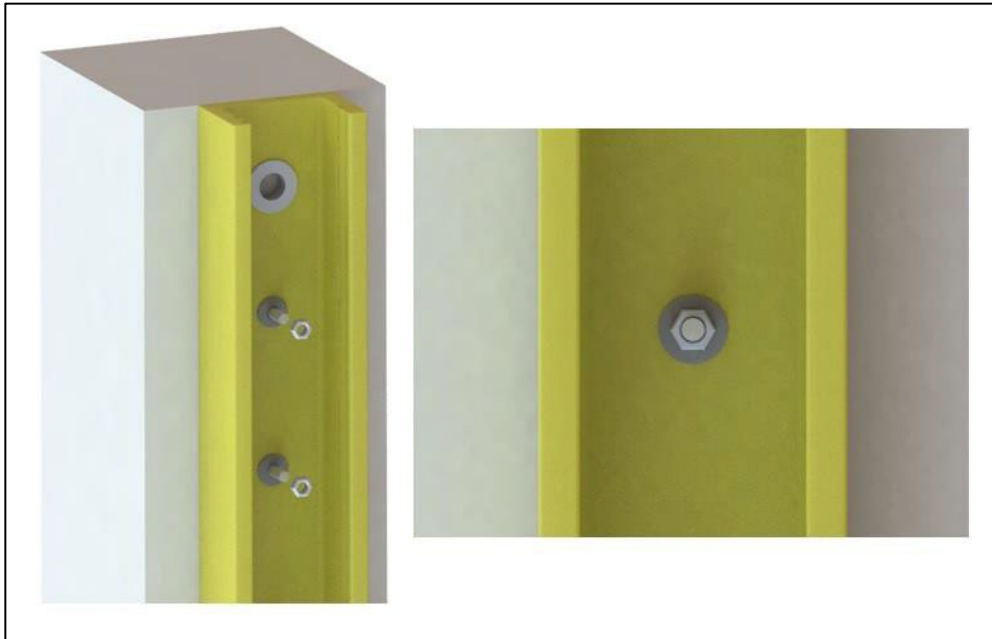
Picture 2 Bottom view of the post, 1 expanding tape , 2 silicon

6. Next, fix the guiding element to the wall using screws.
    a) In case of Fisher dowels, use **large flat washers and minimum M8 size screws**. The screws should be screwed in the Fisher dowels through the washers (Picture 6).
    b) In case of liquid dowels, use **large flat washers and minimum M8 size screws**. (Picture 7).

> **ATTENTION: Always start installation of the guiding elements by srewing in the middle screws/washers firs and then move alternately up and down.**
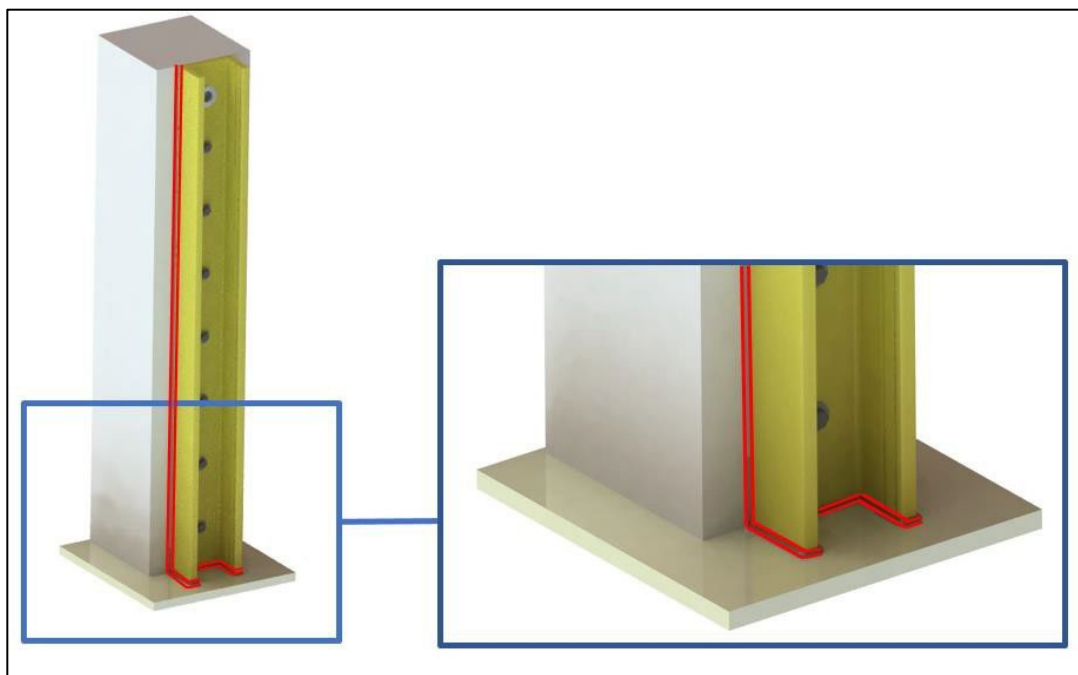

Picture 3 Screwing in of the guiding elements – Fisher dowels
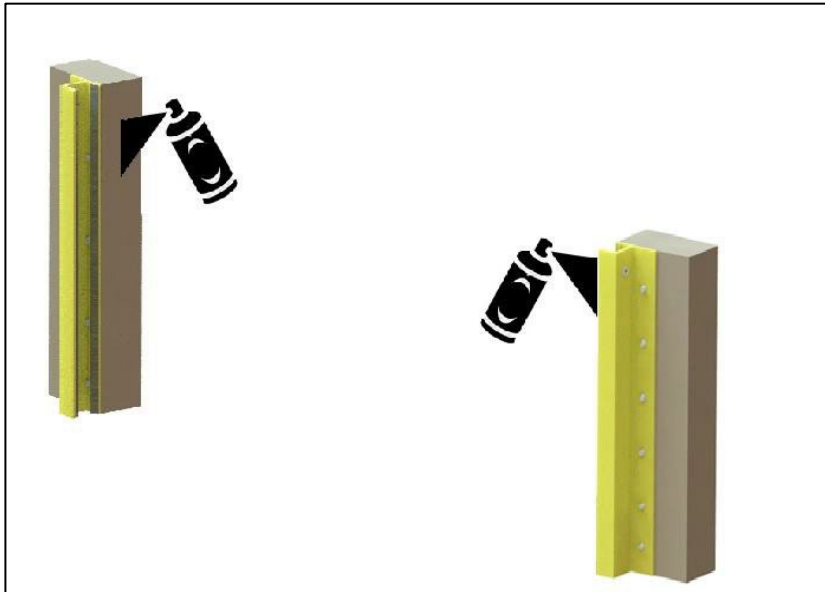
Picture 4 Screwing in of the guiding elements – liquid dowels

7. Once the guiding elements are fixed, insulate the surfaces adjacent to the floor and wall with the dedicated SilaFlex sililcone, attached to the system (Picture 8).
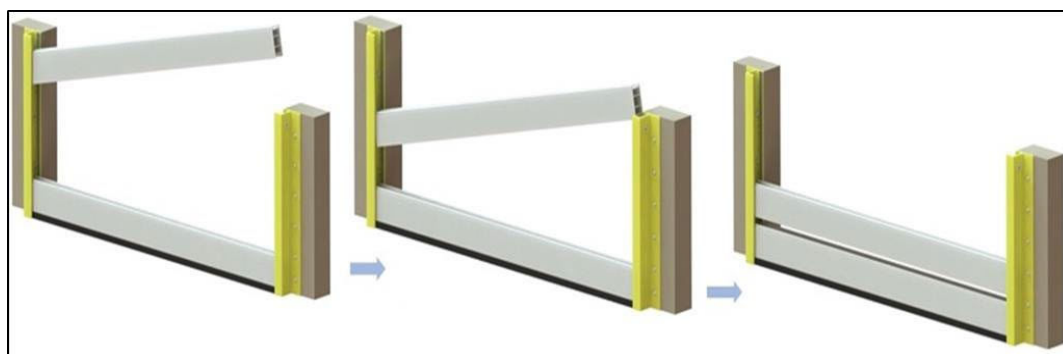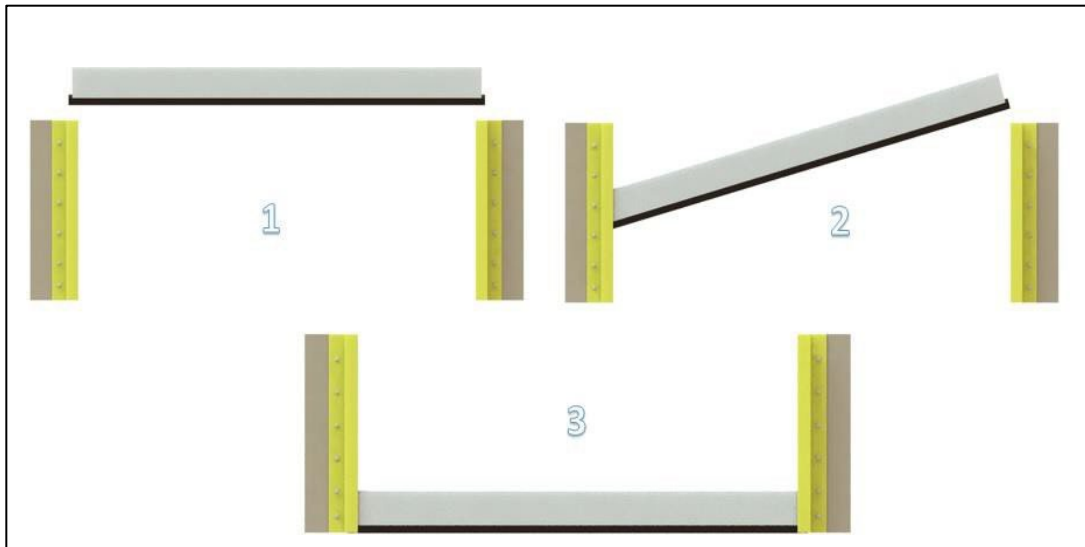

Picture 5 Insulation of the guiding elements.

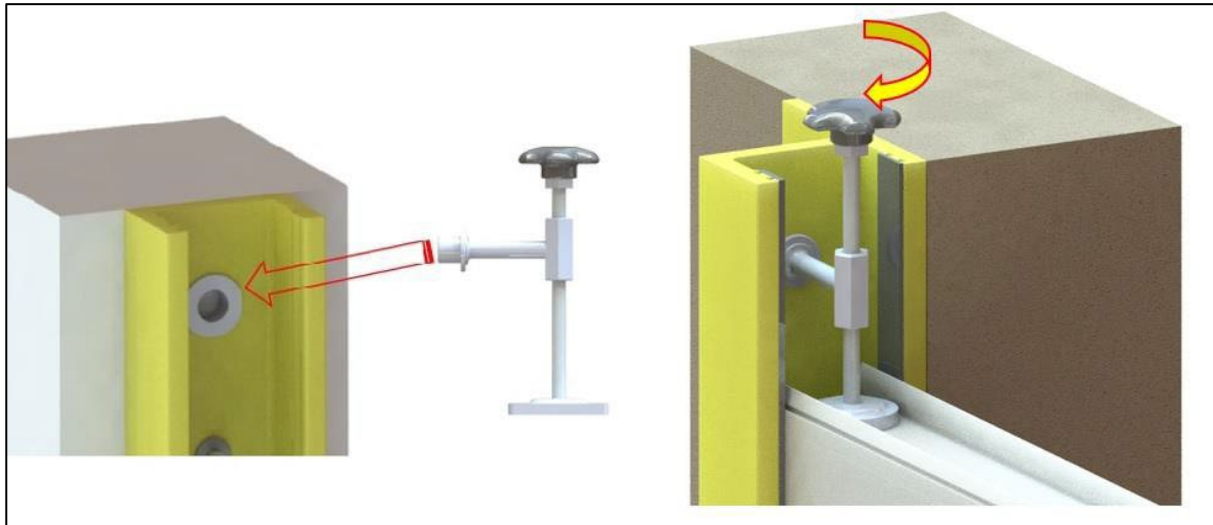## II.   ASSEMBLY OF THE BARRIER BEAMS

Picture 6 Preparation of guiding elements before the beams assembly

2. Always start the assembly of the barrier with the start panel equipped with the
   bottom seal. Insert one end of the beam in the guiding element at an angle and follow by
   inserting the other end. Next, level the beam horizontally (Picture 10). Repeat the actions when
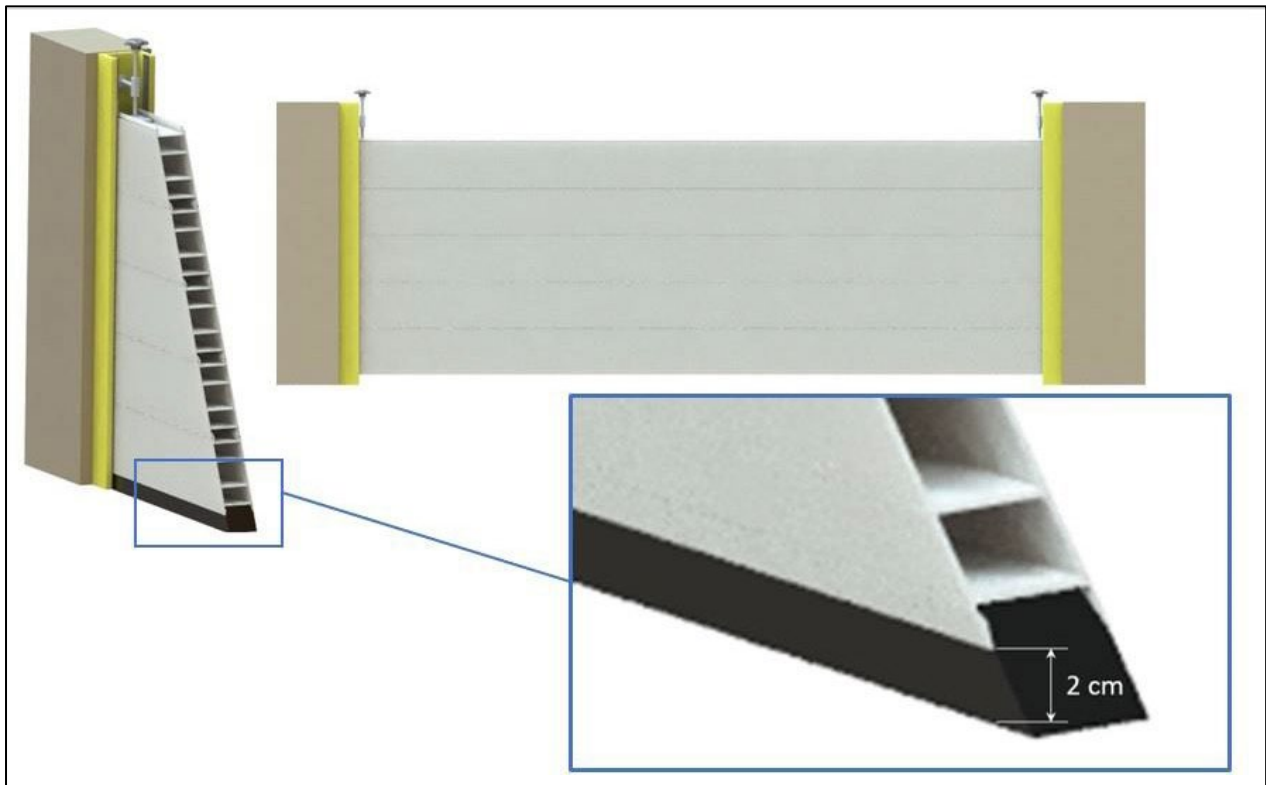   assembling other barrier beams. The barrier beams should be assembled with the seals up.

Picture 70 The order of the beams assembly

Once all the beams are assembled, place the compression keys in the fixing holes located in the guiding elements and compress the system by turning the handles of the vertical compression screws (Picture 11).
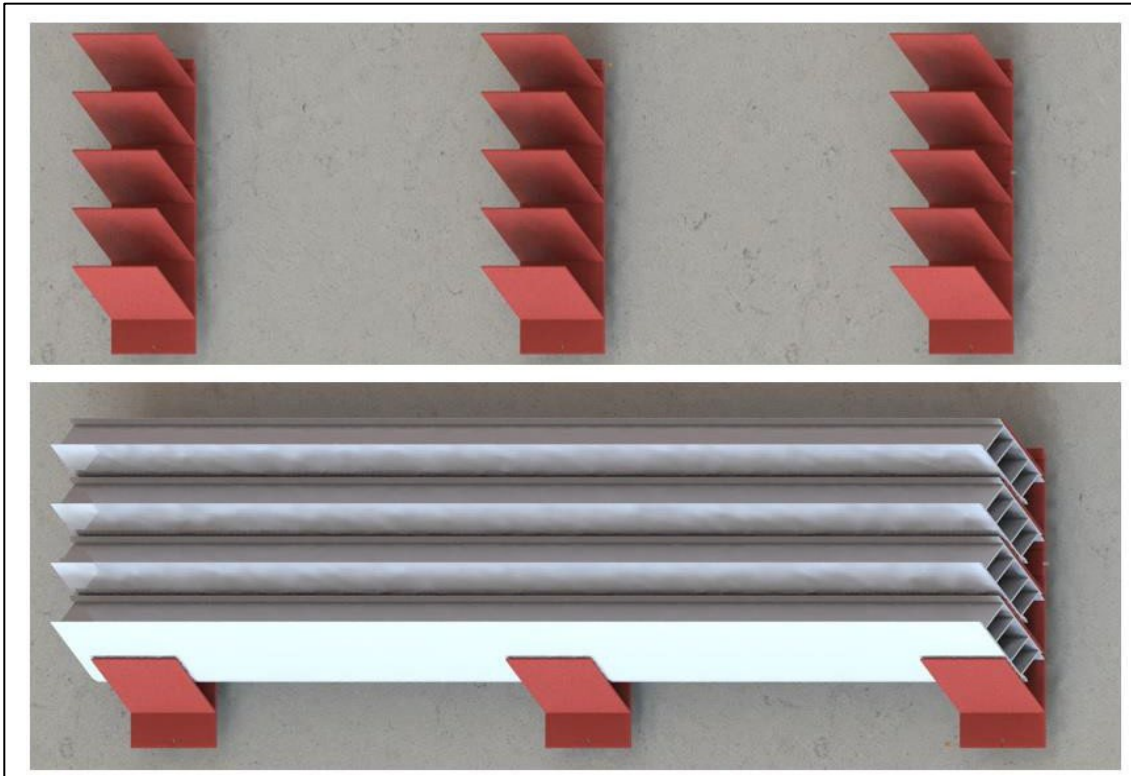

Picture 11 Installation of the compression key

ATTENTION: **In the correctly compressed system, the bottom seal is compressed to the height of approximately 2 cm (Picture 12)**

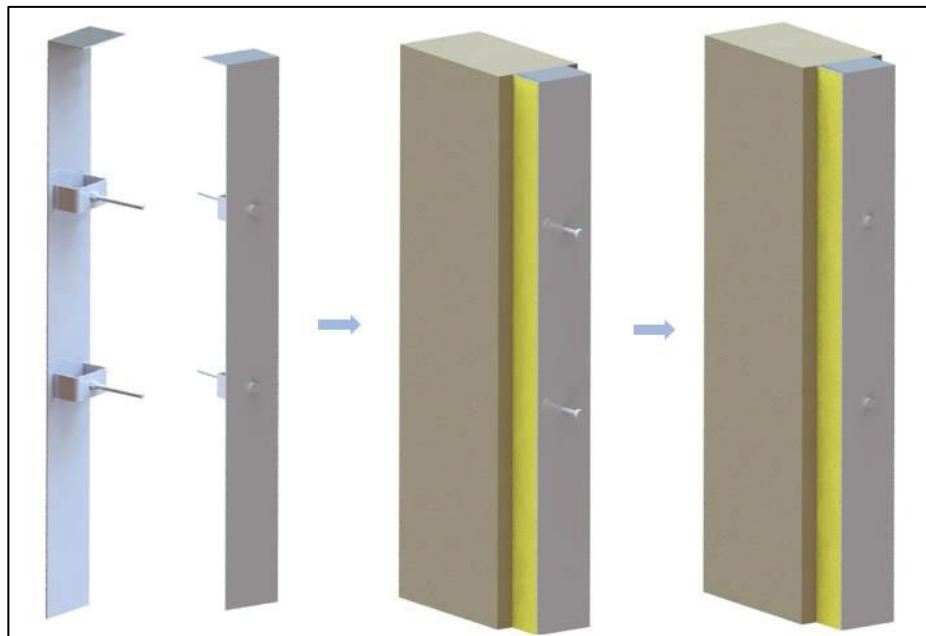*Picture 12 Correctly compressed Flobar system*

III.   STORAGE OF THE FLOBAR BARRIER BEAMS

The barrier beams should be stored horizontally on a flat Surface or using dedicated Flobar wall hangers (Picture 13). The distance between the wall hangers should not exceed 1 m.

Flobar wall hangers.

When the system is not used, cover the posts with special screws in caps or magnets, to protect the guiding elements and the seals.

Picture 84 Protection of guiding elements with caps.