HunterDouglas Architectural

Installation manual

QC300 Horizontal

English Version

Copyright

This manual remains the property of Hunter Douglas. Its contents are strictly confidential and may not be reprinted, copied, reproduced or multiplied in whatever form. It must be returned upon request by Hunter Douglas.
The information presented in this manual serves to inform our customers. The manual in based upon general information concerning constructions, material properties and operating procedures as they are known to us at the moment of publication. That is why this manual is subjected to change or additions at all times. Hunter Douglas reserves the right to make any changes and/or additions deemed necessary.
If a user of products of Hunter Douglas has any question or experiences any difficulties during the use and/or maintenance of such products, Hunter Douglas should be contacted.

© - 2018 - Hunter Douglas Europe BV
® - Registered Trademark of Hunter Douglas
Printed in the Nederlands

Release date
07-2018

Table of contents

1. COMPONENTS 4

1.1. PANEL INDICATORS 5

2. MOUNTING STAGES 6

2.1. DETERMINE THE MODULE LINES 6

2.2. PLACE THE MINI RAILS 6

2.3. MOUNT THE FIXING PLATES 7

2.3.1. TOP FIXING PLATES 7

2.3.2. CENTER FIXING PLATES 7

2.3.3. BOTTOM FIXING PLATES 8

2.3.4. CHECK THE PLACEMENT OF THE FIXING PLATES 8

2.4. PLACE THE FIRST PANEL 8

2.4.1. SECURE THE PANEL 9

2.5. PLACE THE SECOND PANEL 10

2.6. PLACE THE SECOND ROW PANELS 11

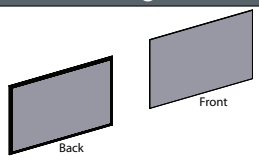
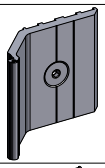
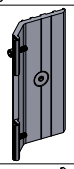
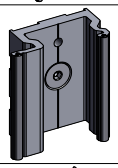
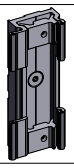
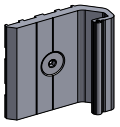
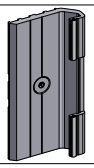
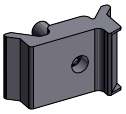
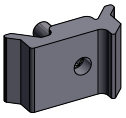
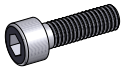
2.7. PLACE THE PANELS FOR THE UPPER ROW 11

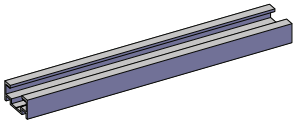
2.7.1. FIRST PANEL 11

2.7.2. SECURING THE FIRST PANEL 11

2.7.3. PLACE THE REMAINING PANELS IN THE UPPER ROW 12

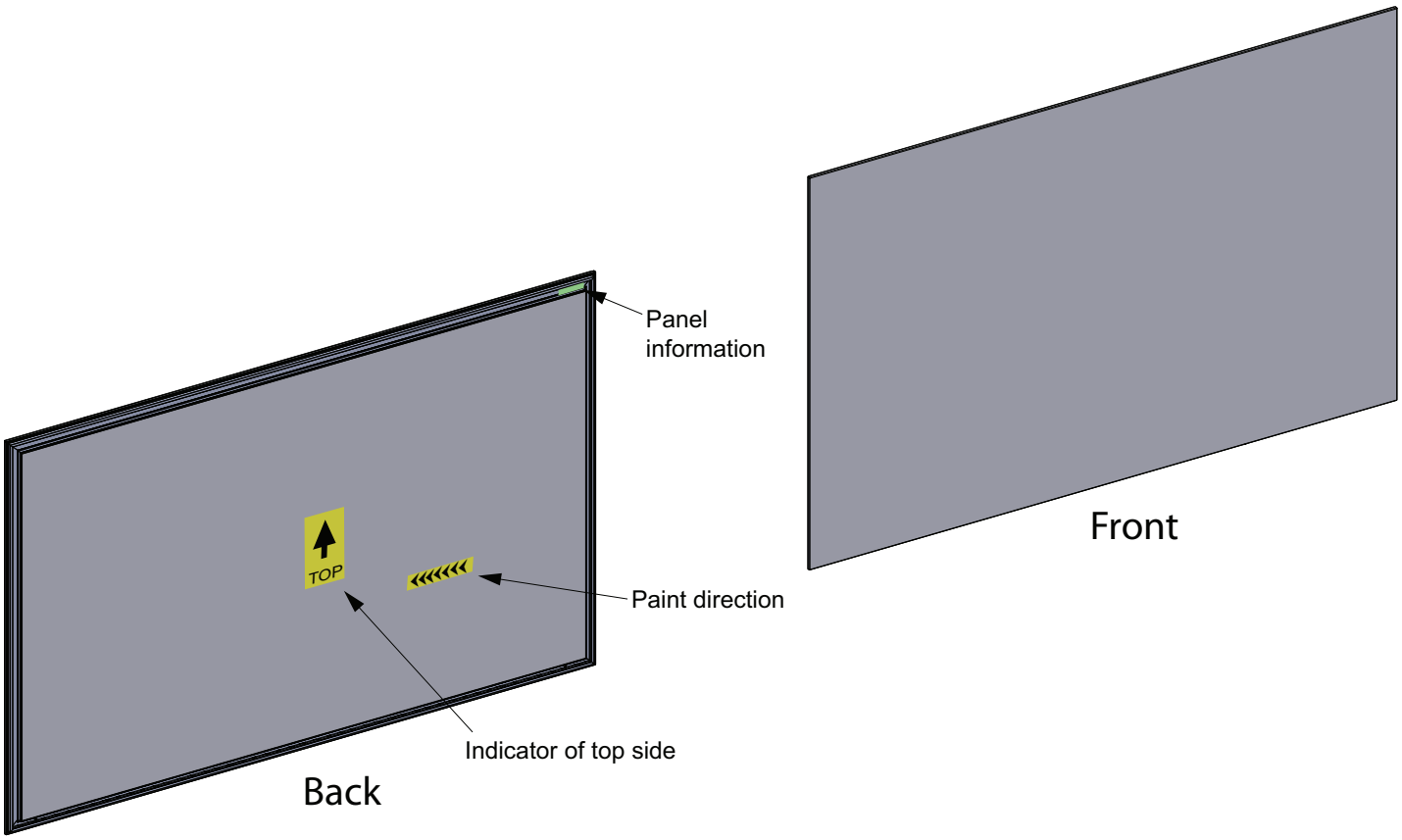
1. COMPONENTS

Description	Article code	Image
QC300 panel	C405050000	
Top fixing plate mid panel (w/o retainers) Symbol: ▶	C781750000	
Top fixing plate at joint (w/ retainers) Symbol: ▷	C781740000	
Center fixing plate mid panel (w/o retainers) Symbol: ●	C781710000	
Centre fixing plate at joint (w/ retainers) Symbol: ○	C781700000	
Bottom fixing plate mid panel Symbol: ◀	C781490000	
Bottom fixing plate at joint Symbol: ◁	C781480000	
Retainer fixed Symbol: RF	C781720000	
Retainer sliding Symbol: RS	C781730000	
Top retainer fixed Symbol: TRF	C780140000	
Top retainer sliding Symbol: TRS	C780160000	

Description	Article code	Image
Mini rail	C782260000	

1.1. Panel indicators

Note: the panel information sticker can be placed either on the back plate of the panel, or on the side profile.

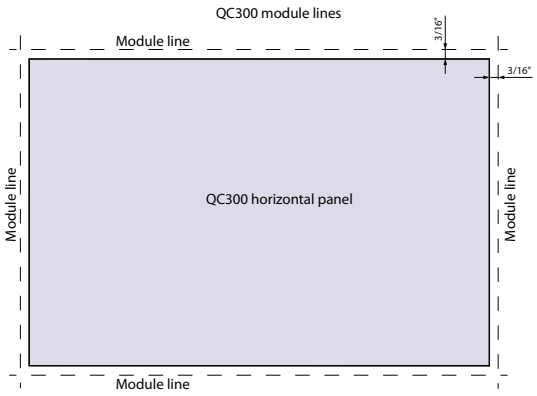


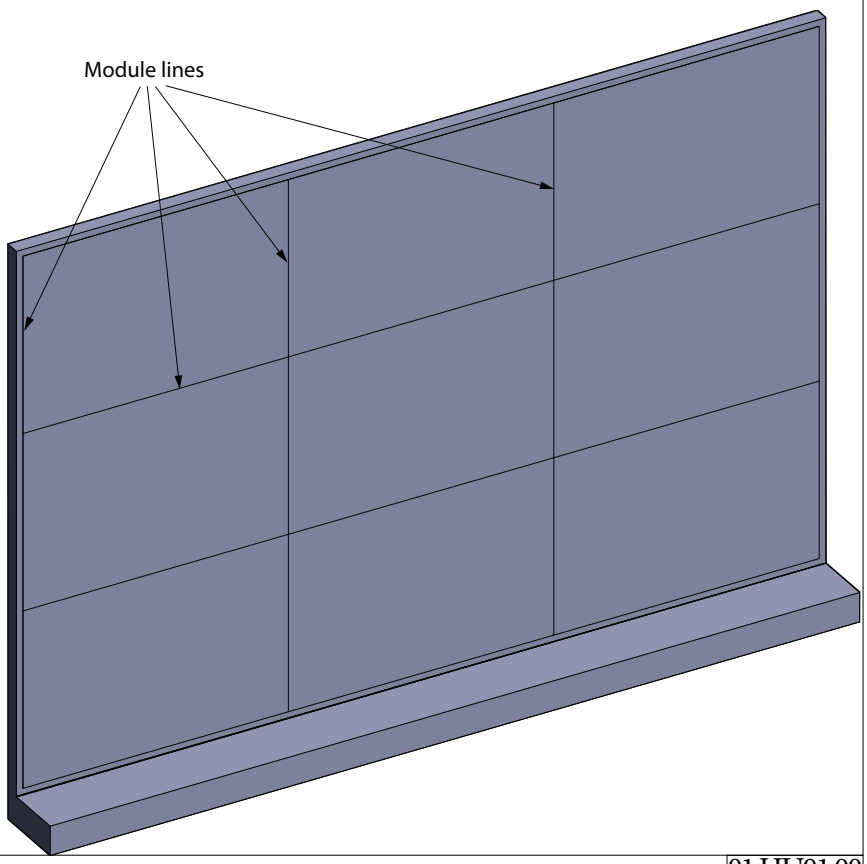
2. MOUNTING STAGES

2.1. Determine the module lines

For the QC300 system, the module lines are defined as an offset of 3/16" from the edge of the front skin. Thus, the vertical and horizontal joints are 3/8" wide.

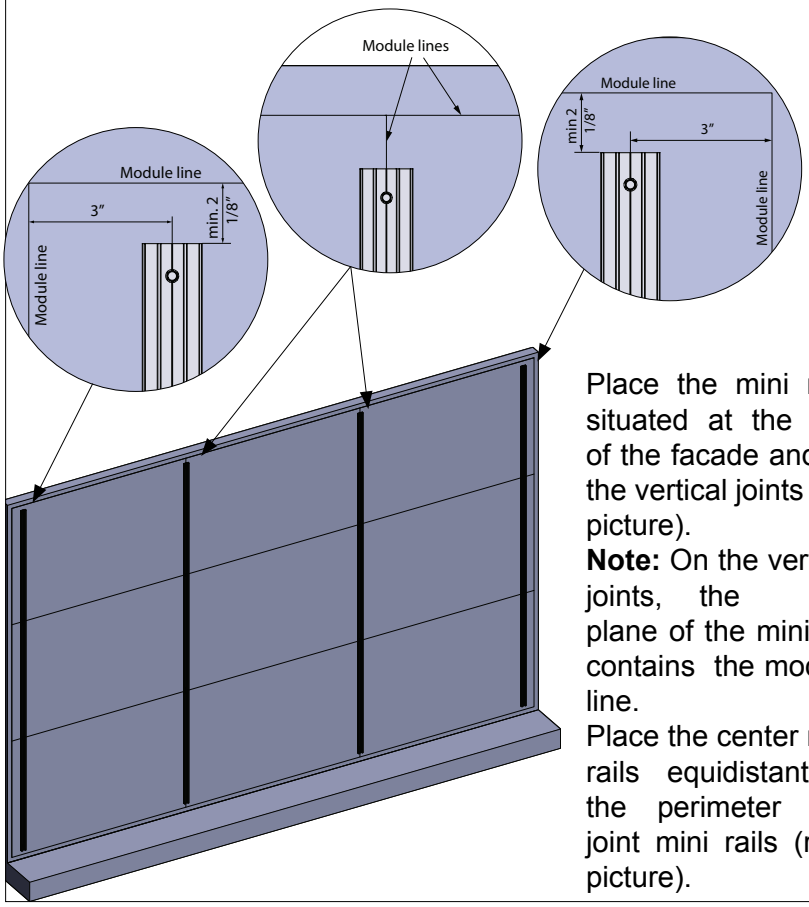
The first step is to trace the module lines grid on the building wall.

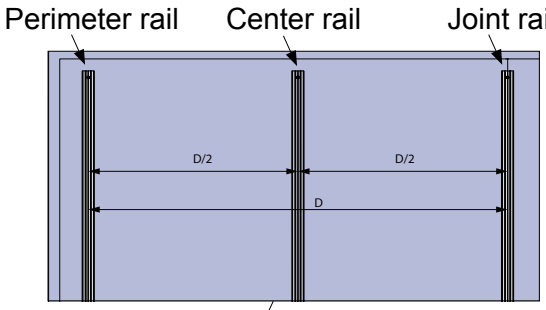




01.HU01.00

2.2. Place the mini rails

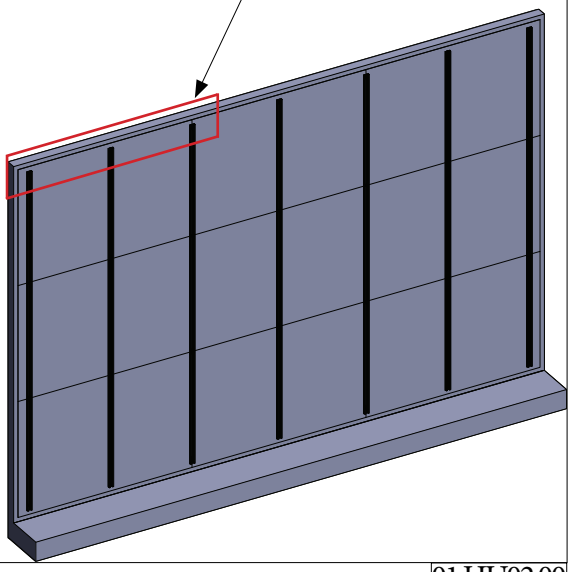




Place the mini rails situated at the end of the facade and on the vertical joints (left picture).

Note: On the vertical joints, the mid plane of the mini rail contains the module line.

Place the center mini rails equidistant to the perimeter and joint mini rails (right picture).

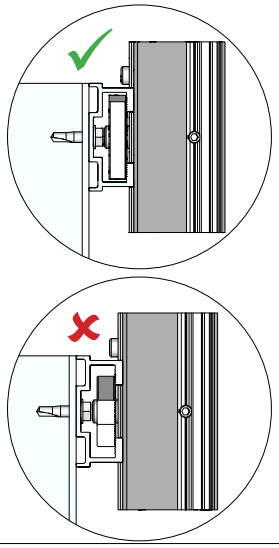


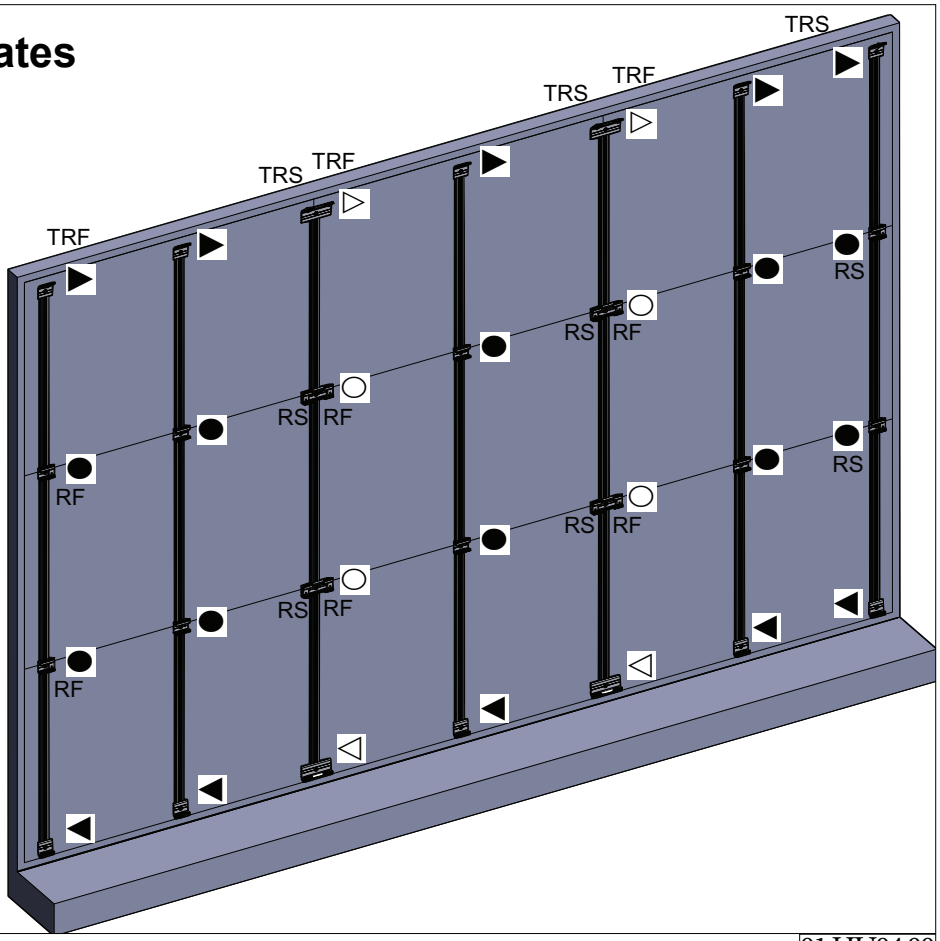
01.HU02.00

2.3. Mount the fixing plates

See the symbols of the fixing plates in the **Components table** to identify them in the adjacent picture.

Important: the nutplates must be fully turned to ensure a good fixation.

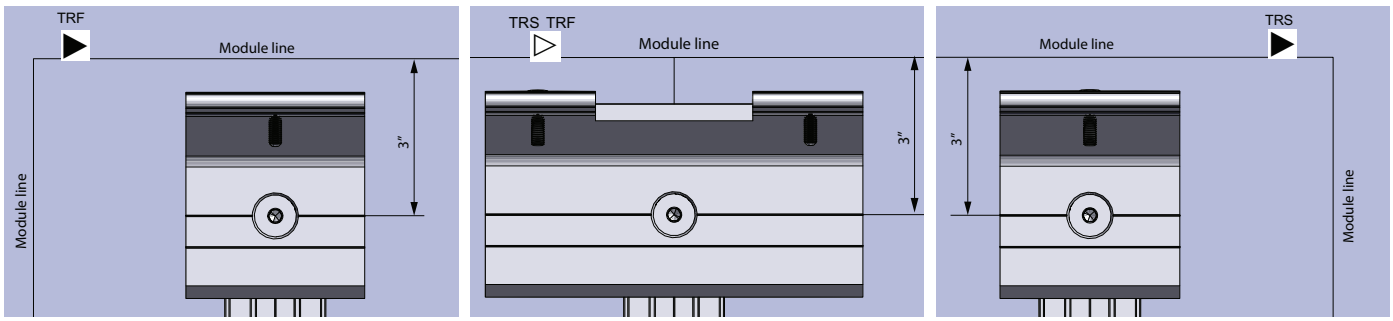




01.HU04.00

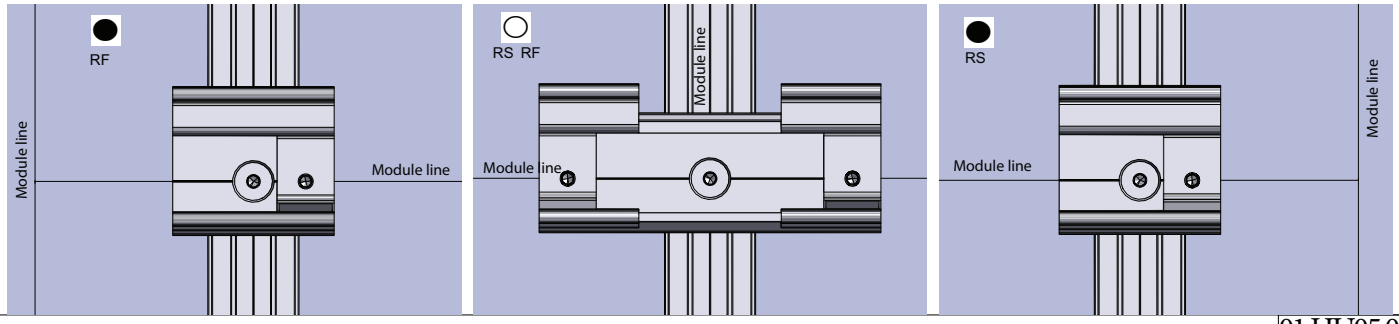
2.3.1. Top fixing plates

The Top fixing plates (mid and joint) are placed at 3” from the upper module line.



2.3.2. Center fixing plates

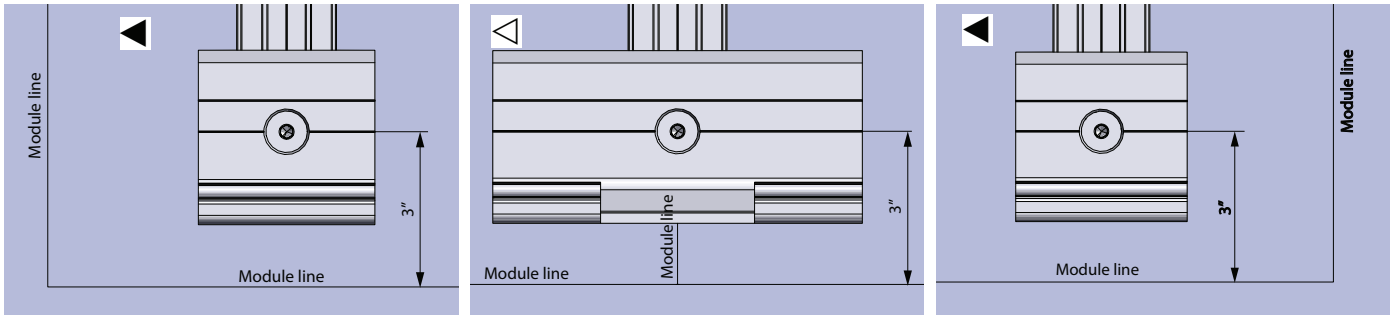
Center fixing plates are placed so that the mid plane of the fixing bolt crosses the horizontal module line.



01.HU05.06

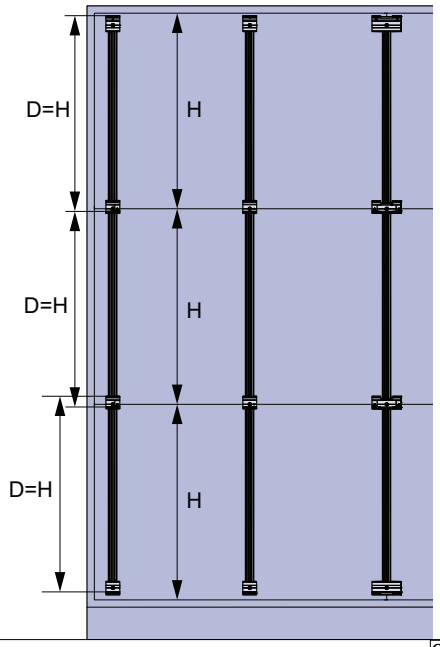
2.3.3. Bottom fixing plates

The Bottom fixing plates are placed at 3” from the lower module line.



2.3.4. Check the placement of the fixing plates

It is important that the placement of the fixing plates is done accurately as it directly influences the size of the horizontal joint. Checking the position of the fixing plates can be done by measuring the distance between them, as indicated in the next picture, where D is the distance between the correspondent ends of the fixing plates (bottom-bottom or top-top) and H - the vertical size of the module surface-unit.



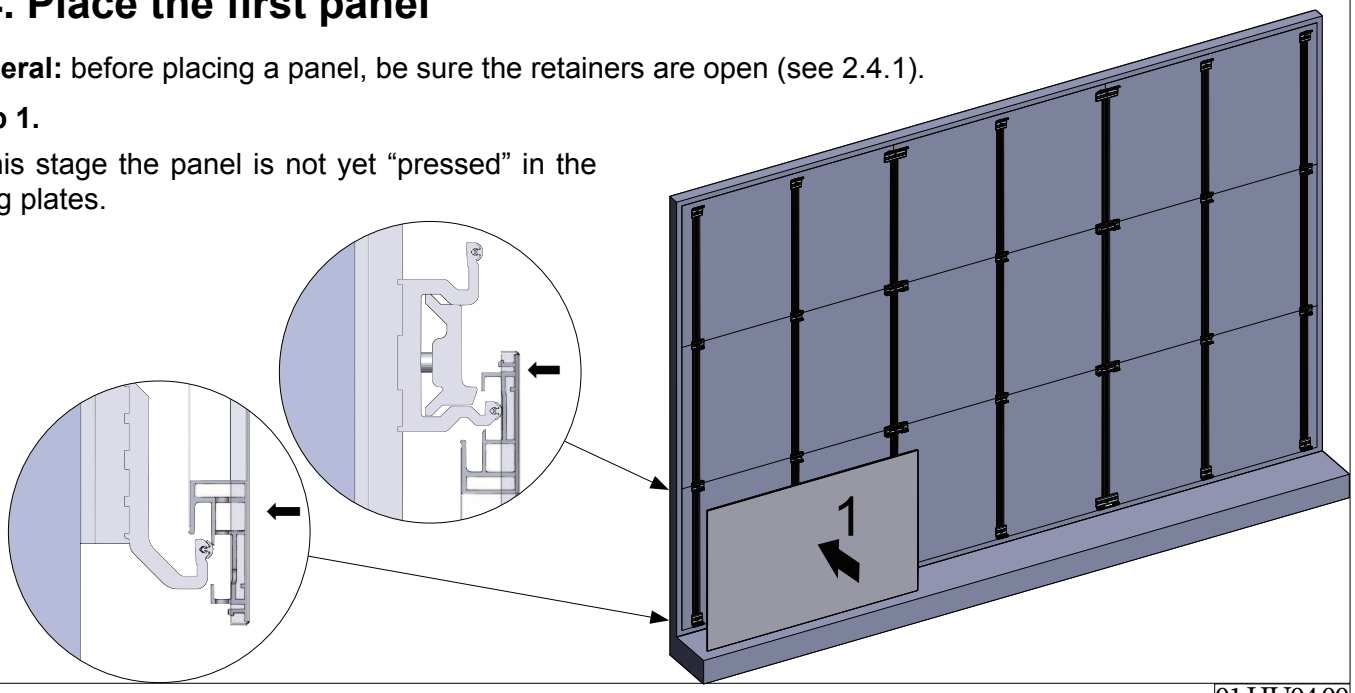
01.HU03.10

2.4. Place the first panel

General: before placing a panel, be sure the retainers are open (see 2.4.1).

Step 1.

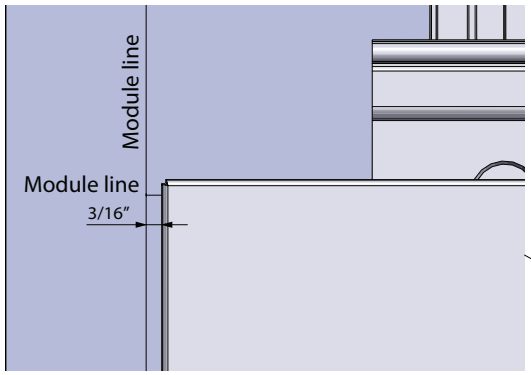
In this stage the panel is not yet “pressed” in the fixing plates.

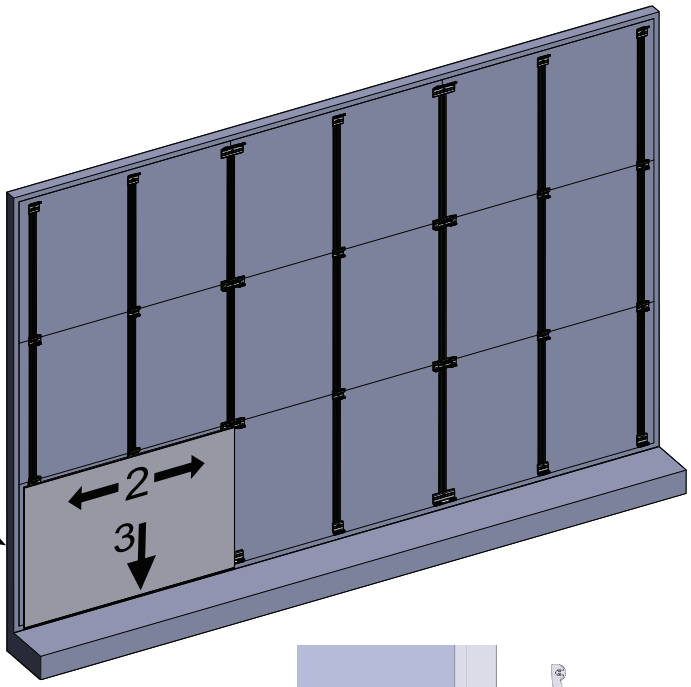


01.HU04.00

Step 2.

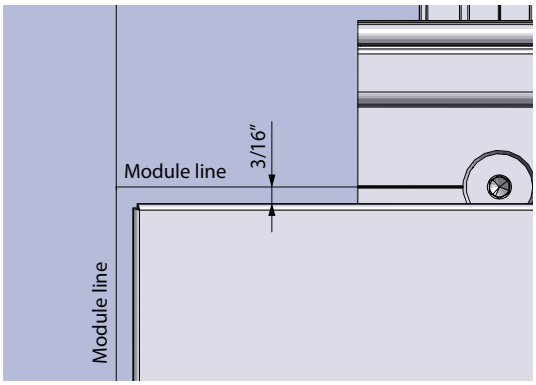
Adjust first the position of the panel horizontally with the module lines.

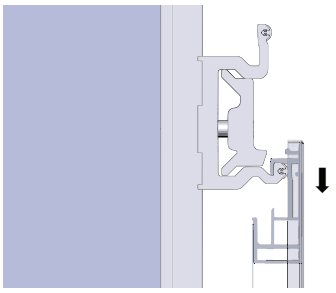


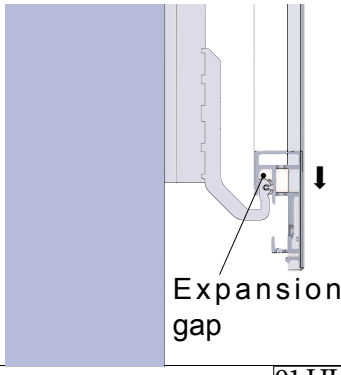


Step 3.

Pressing downwards, the top profile of the panel will clamp in the top fixing plate (or center fixing plate), reaching it's designed position relative to the horizontal module line (3/16'' distance). The connection with the bottom fixing plate will provide 3/16" space in order to permit thermal expansion.



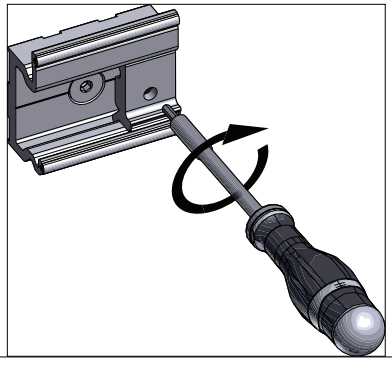




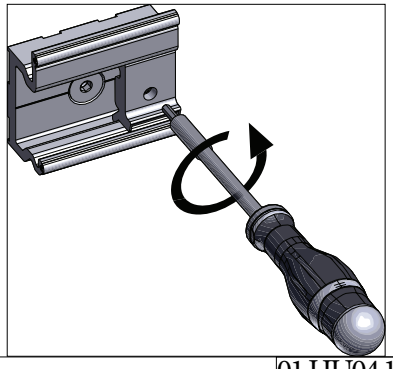
01.HU04.07

2.4.1. Secure the panel

Note: Opening the RF or RS is done by tightening up the screw.

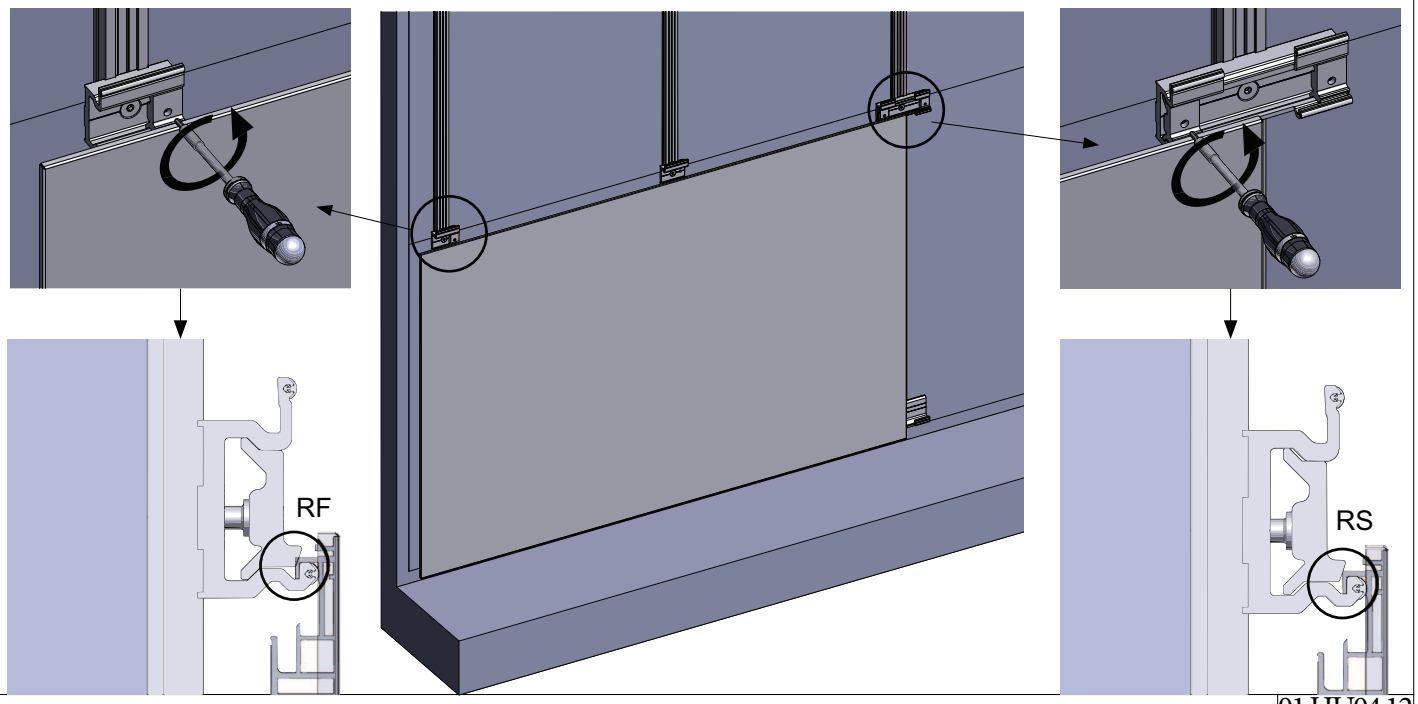


Closing the RF or RS is done by loosening up the screw.



01.HU04.14

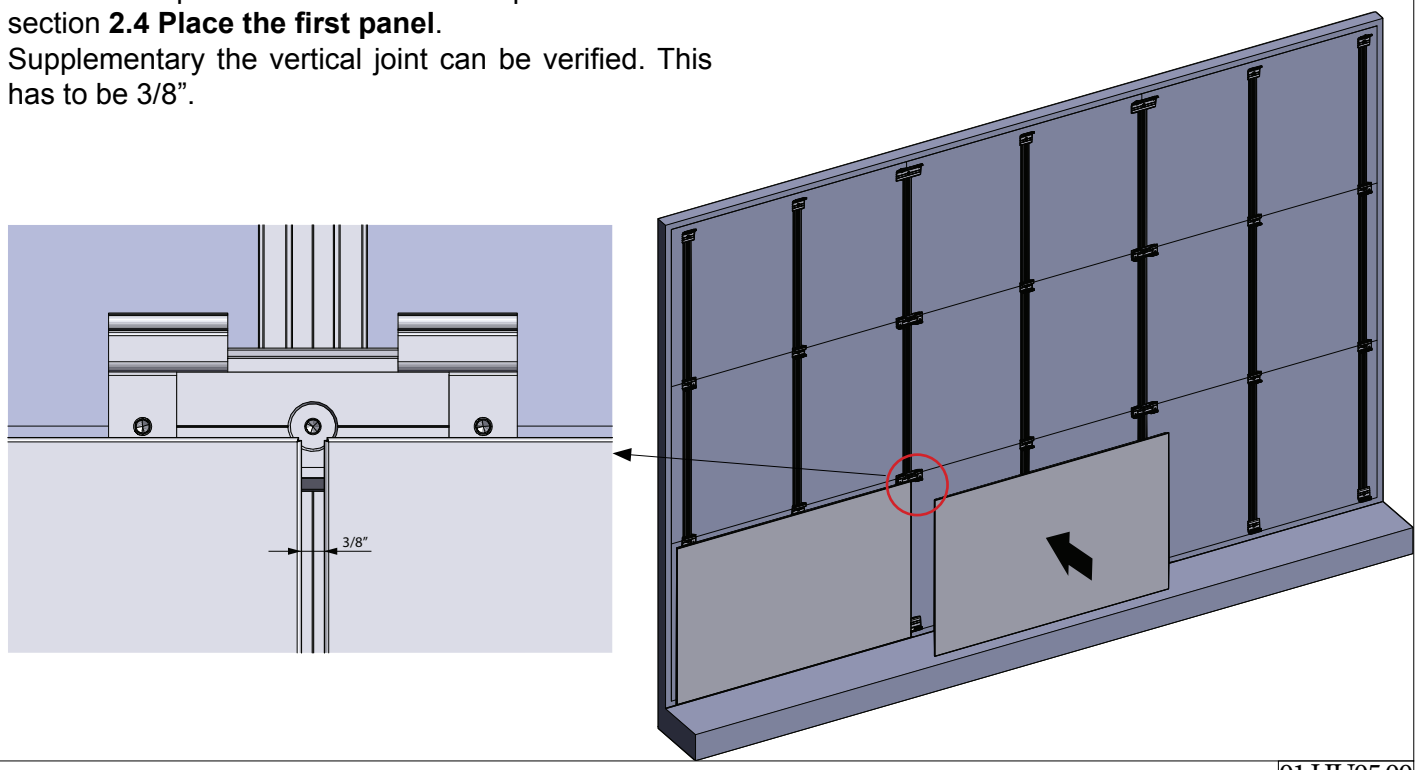
By loosening it up, the screw will push the retainer towards the panel, clamping the panel profile.
In the case of the fixed clamping (left details), the edges of the Fixed Retainer will superficially penetrate the material of the panel extrusion, creating a fixed connection point (horizontal restrain).
In the case of the sliding clamping (right details), the plain face of the Sliding Retainer will only slightly engage the panel extrusion. The panel will be secured, but sliding (for example due to thermal expansion) will be permitted.



01.HU04.12

2.5. Place the second panel

For the next panel follow the same steps described in section **2.4 Place the first panel**.
Supplementary the vertical joint can be verified. This has to be 3/8".

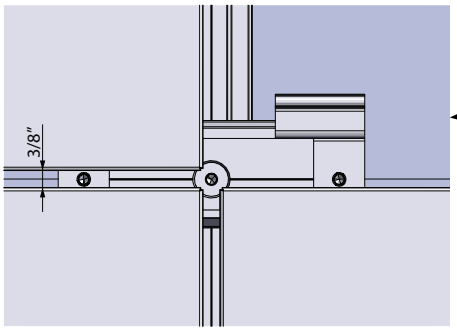


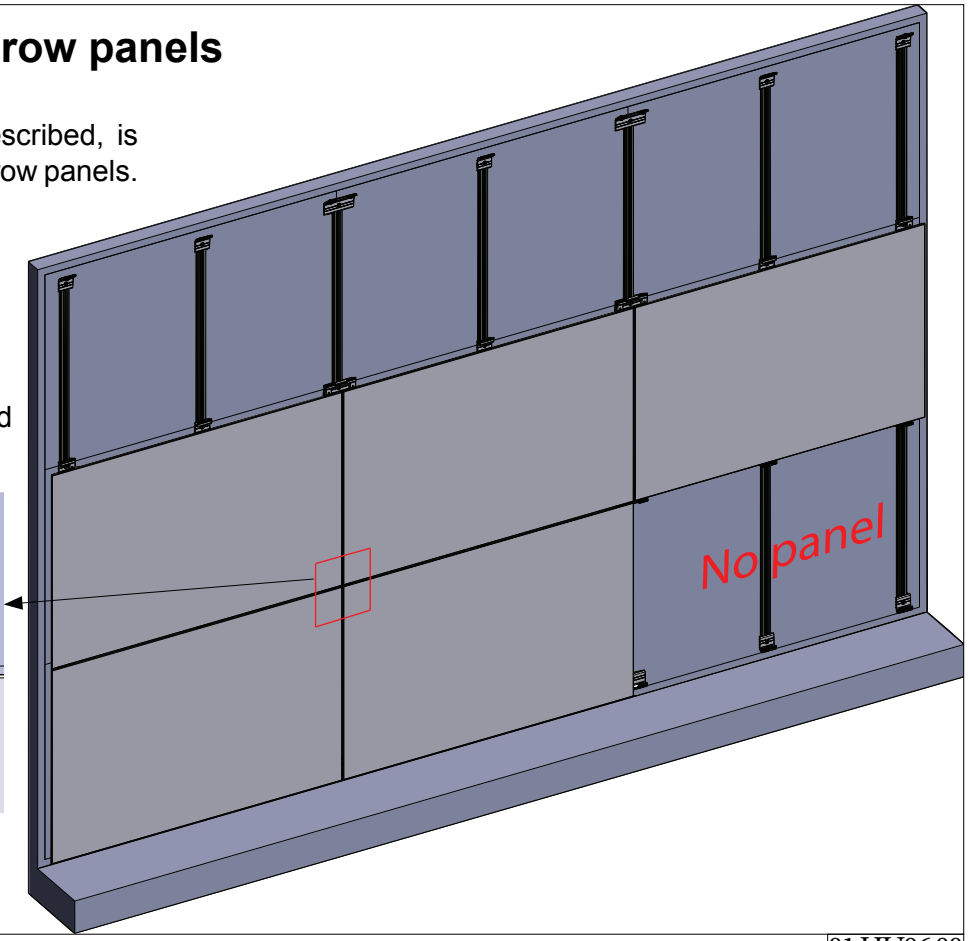
01.HU05.00

2.6. Place the second row panels

The same method, previously described, is used to place and secure the next row panels.

Check the horizontal joint 3/8”and complete the row.



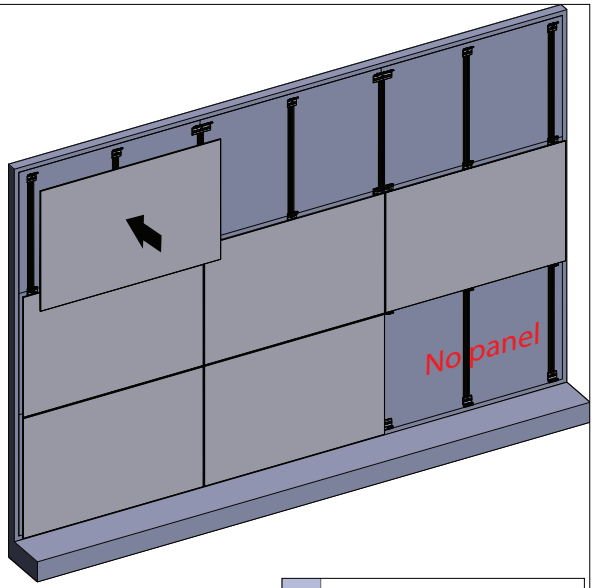


01.HU06.00

2.7. Place the panels for the upper row

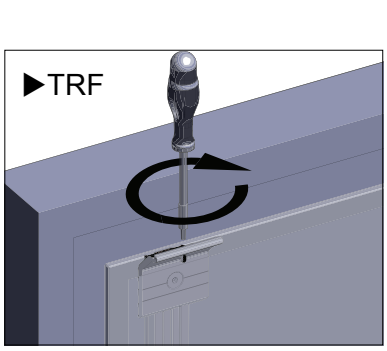
2.7.1. First panel

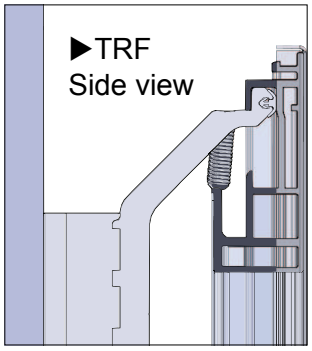
On this portion of the facade, the same method of alignment the panels is used, as already described.

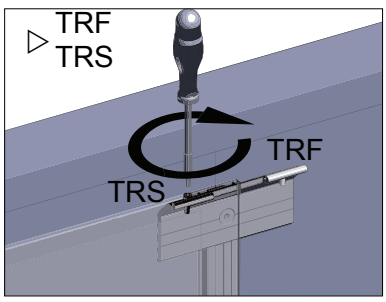


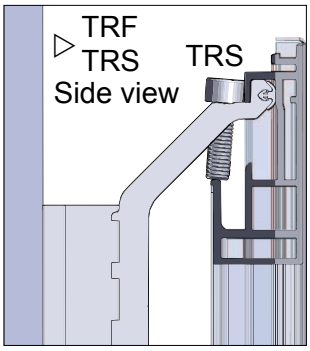
2.7.2. Securing the first panel

On a QC300 horizontal facade, the upper row of panels is secured, at the top of the panels, by means of the top fixing plates (mid and joint).
TRF penetrates superficially the material of the panel’s top extrusion, providing a fixed connection point, while TRS slightly engages the panel’s top extrusion, permitting sliding.





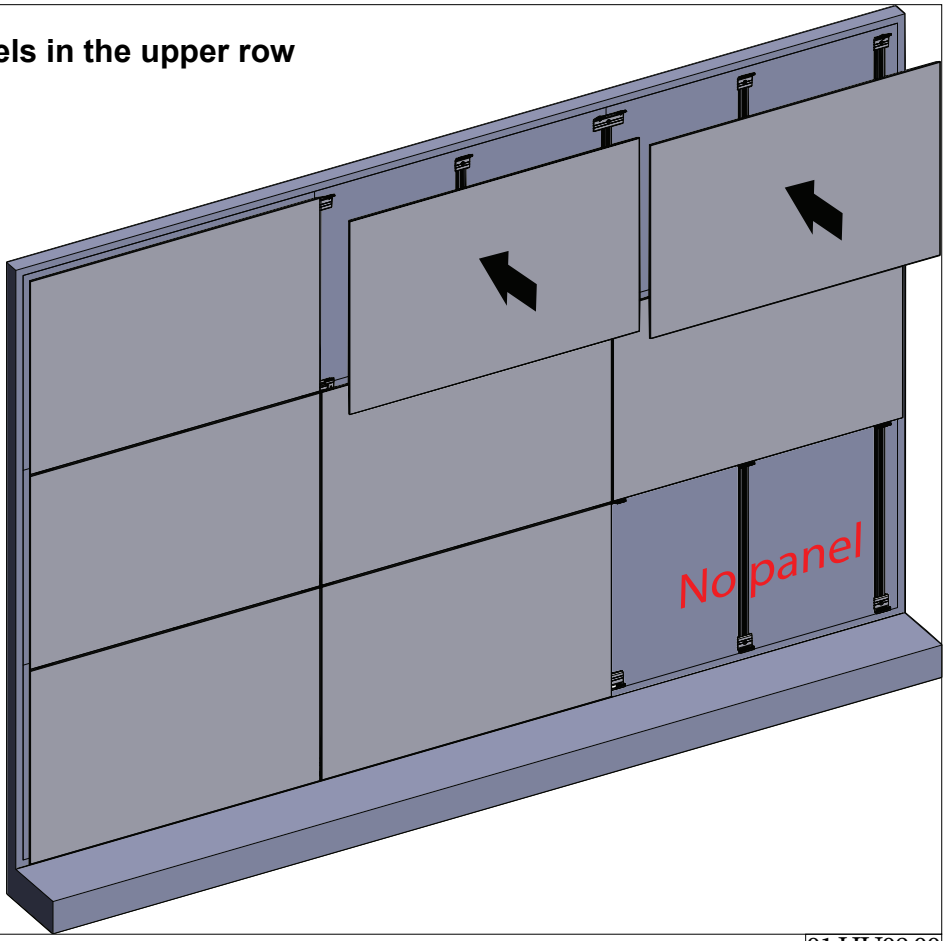




01.HU07.00

2.7.3. Place the remaining panels in the upper row

The remaining upper panels are installed as already described.
For each panel check both the position relative to the module lines and the size of the vertical and horizontal joints 3/8”.



01.HU08.00