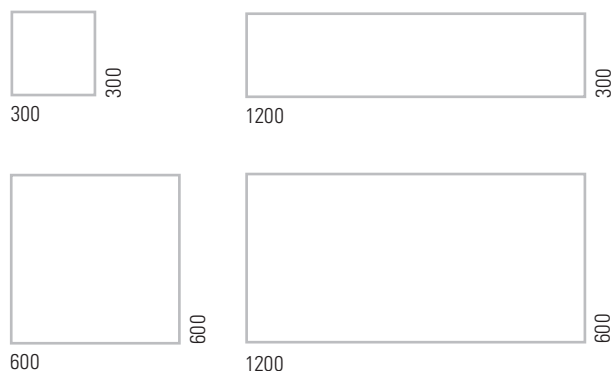
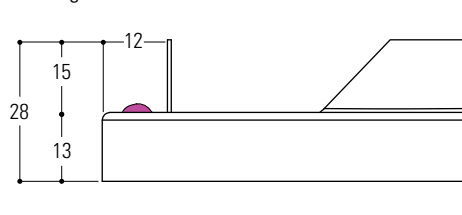


INDEX

- description **pag.1**
- advantages / system elements **pag.2**
- fassembly steps page **pag.3/4**
- cut panel system with VL.PPF **pag.5**
- full panel system with VL.PPF **pag.6**
- VL.PPC full panel system **pag.7**
- VL.PDL cut whole panel system **pag.8**
- system with anti-seismic system **pag.9**
- system with spotlight holder **pag.10**
- suspensions **pag.11**
- standards **pag.12**

90° edge



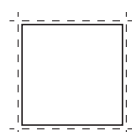
DESCRIPTION

Integrated airtight false ceiling that can be accessed at every point, consisting of panels mounted on a hidden support structure made up of T-profiles. The panels are equipped with a sealing gasket extruded onto the panel, which ensures an airtight seal of the system. Special springs in harmonic steel simplify installation and opening for maintenance work by keeping the panel open as a trapdoor. The Vert Lab Light Led ceiling light and the plenum (supply and return) complete the system and make it integrated.

TECHNICAL FEATURES

European Standard:	CE - EN 13964
Durability:	Class B
Fire resistance:	A1
Sound absorption:	EN ISO 354
Standard colour:	RAL 9003 o RAL 9010 (with optional antimicrobial paint)
Standard material:	Pre-painted steel Stainless steel Aluminium (Alloy 3000H64)
Standard thickness:	0,4 - 0,5 - 0,6 mm
Standard modules:	300x300 mm 90° edge 600x600 mm 90° edge 300x1200 mm 90° edge 600x1200 mm 90° edge
Average system weight:	4-5 kg/mq

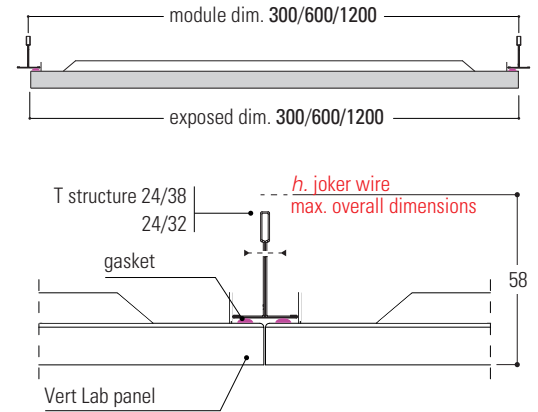
FINISH



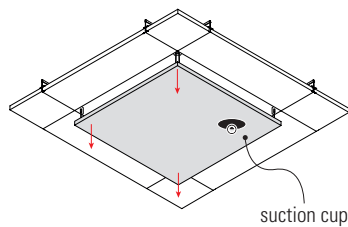
Smooth panel

ADVANTAGES, APPLICATIONS AND MODULES

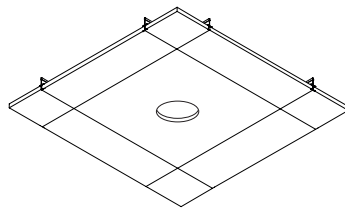
The **Vert Lab** panel consists of metal panels mounted on a hidden support structure composed of 'T' profiles. The special composition and section of the sealing gasket on all sides of the panel ensures a hermetic seal of the system, a seal against the penetration of air obtained thanks to the perfect adherence of the upper part of the panels to the lower face of the support structure by means of a two-component polyurethane gasket applied in the factory, which avoids the use of additional sealants. The panel can be integrated with VertLab Light Led ceiling lights, spotlights or A/C plenums. This type of performance is especially necessary in operating theatres, clean rooms, chemical-biological analysis laboratories or rooms where food, cosmetic, pharmaceutical or electronic processes are performed. The panel is supplied with a suction cup for access operations.



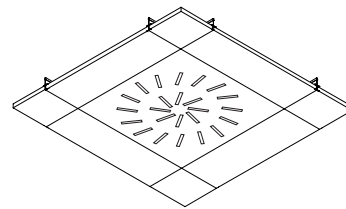
Standard system



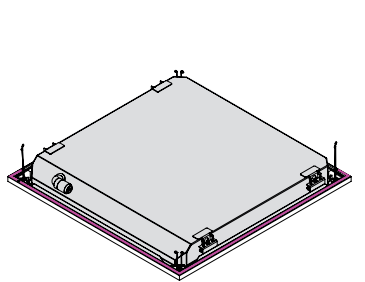
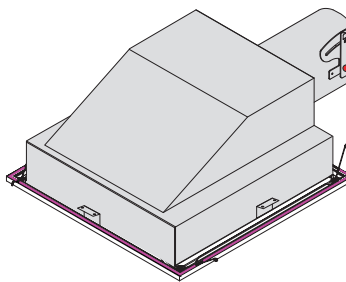
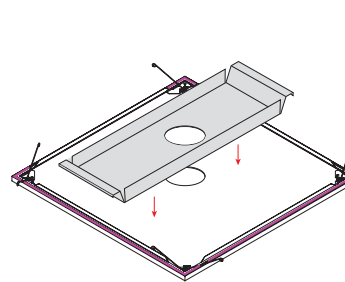
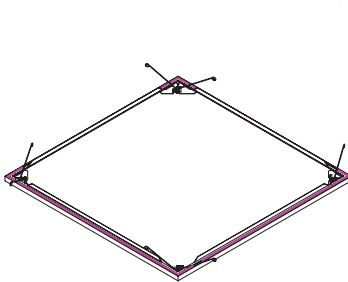
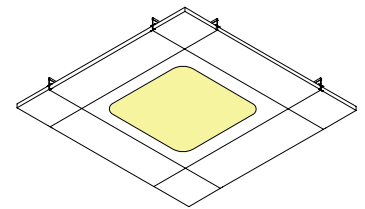
System with reinforcement panel and spotlight hole



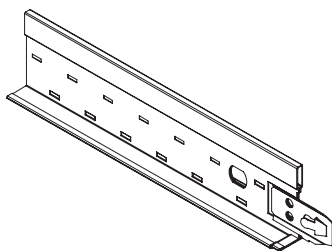
System with plenum



System with ceiling light



SYSTEM ELEMENTS



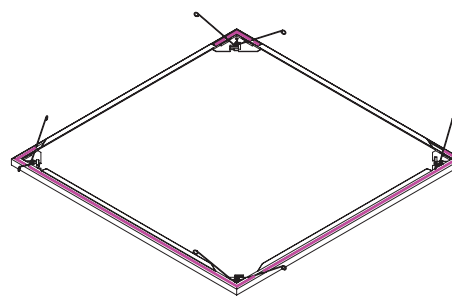
T-structure

for other suitable profiles see "T" frame catalogue on www.vertebra.com

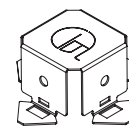


SPPT with TFC

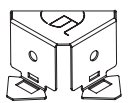
for other suspensions see page 8



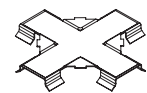
Vert Lab panel



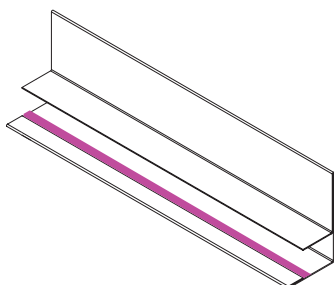
Joker



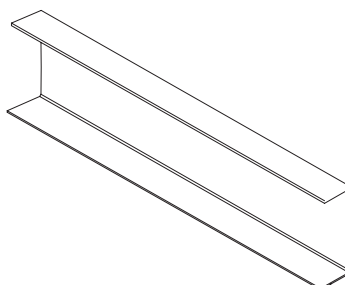
1/2 Joker



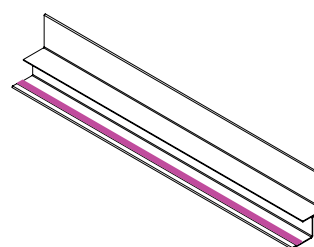
Centring plate



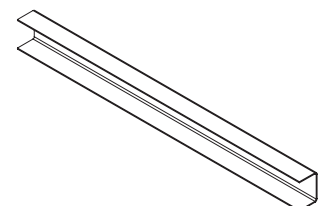
VL.PPF with gasket



VL.PPC



VL.PDL with gasket



Blocking profile

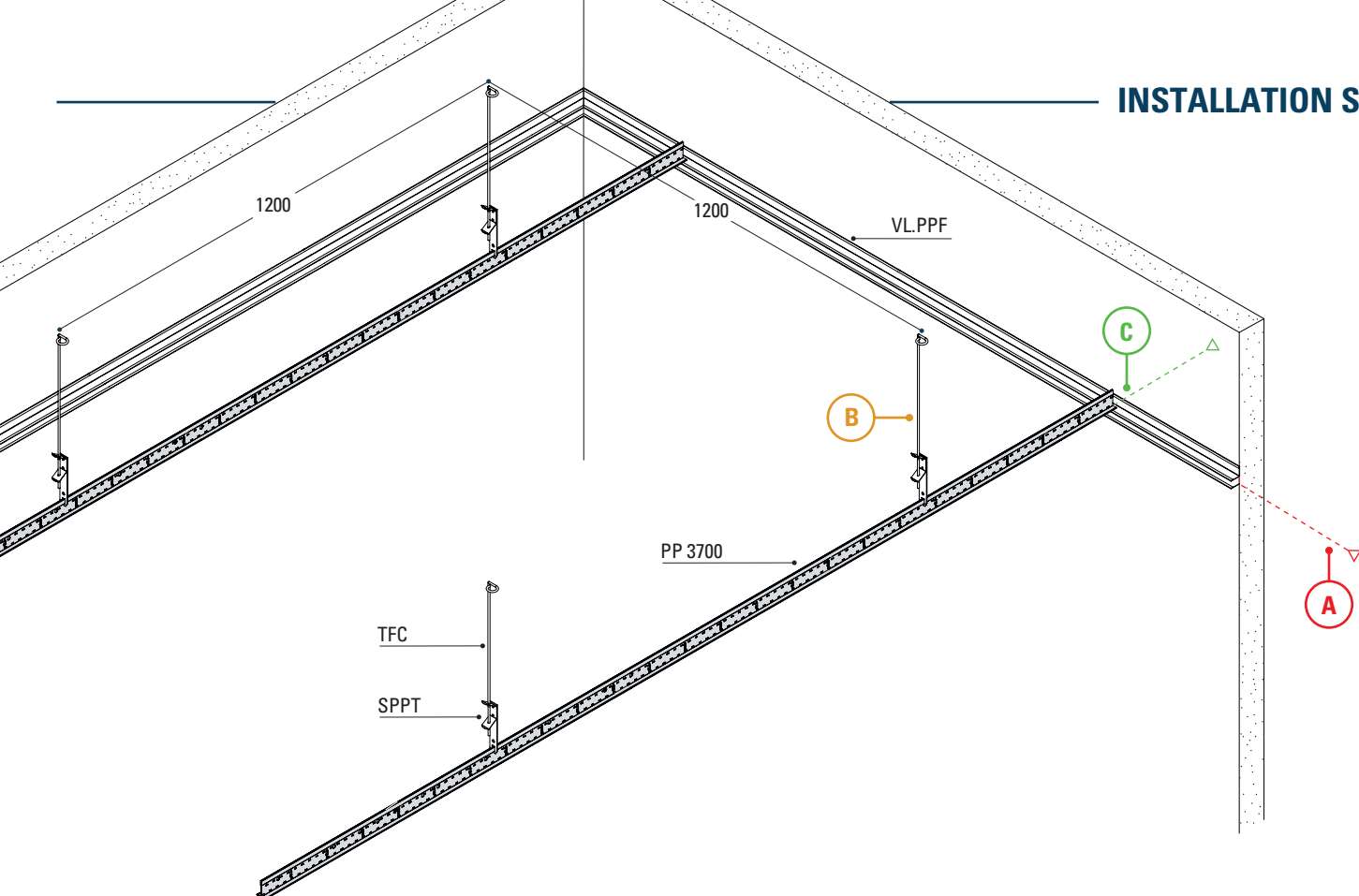
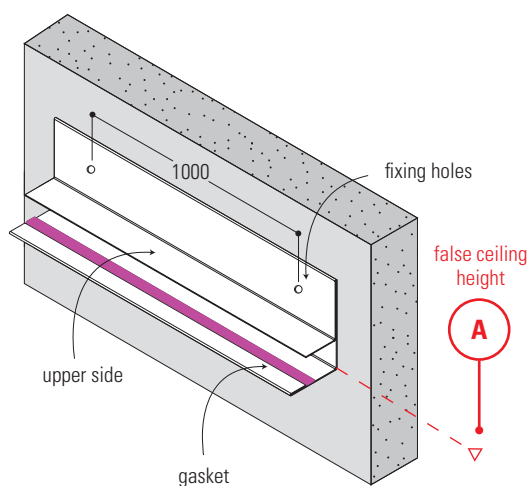
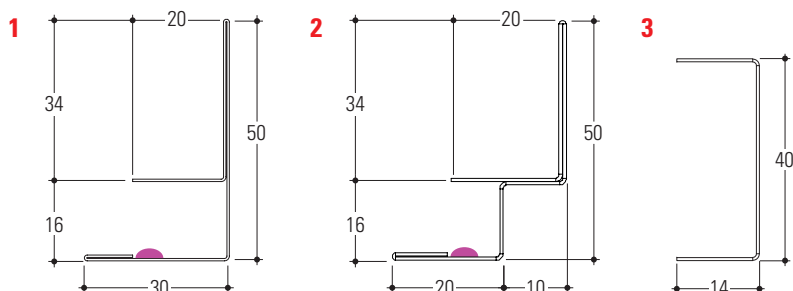


Fig.1

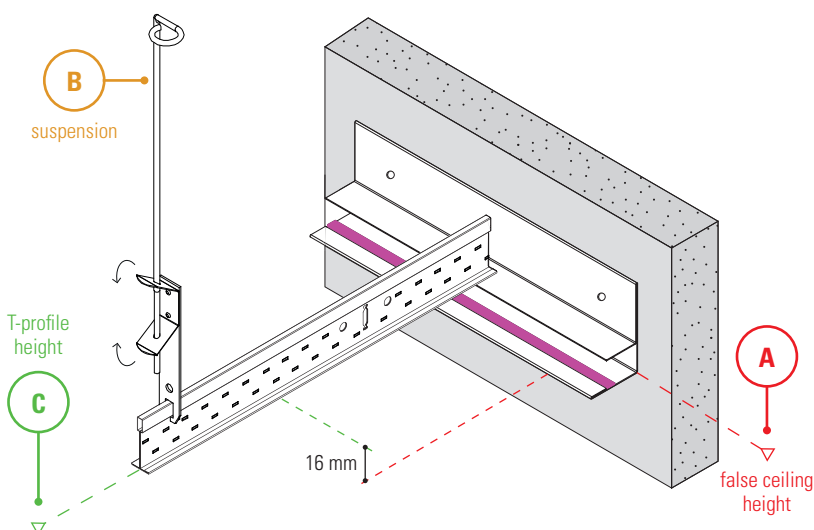
Standard perimeter profiles: VL.PPF (1) / VL.PDL (2) / VL.PPC (3)

The perimeter profile has the function of accommodating the Vert Lab panels, maintains the tightness of the ceiling by means of the gasket on the 30 mm side, or in the case of the PDL on the 20 mm side, and allows the 'T' substructure to be supported. The VL.PPC is suitable for application with the 1/2 Joker.



STEP 1

Draw the height of the suspended ceiling on the wall (A), then fix the perimeter with a minimum pitch of 1000 mm.



STEP 2

Draw the mesh of the holes for the suspension of the T-structure (B) with a minimum pitch of 1200 mm (see fig.1)

N.B.: to view the other suspensions see page 8

STEP 3

Position the T-structure on the upper side of the perimeter profile (C). The T-structure has a distance of 16 mm from the height of the false ceiling.

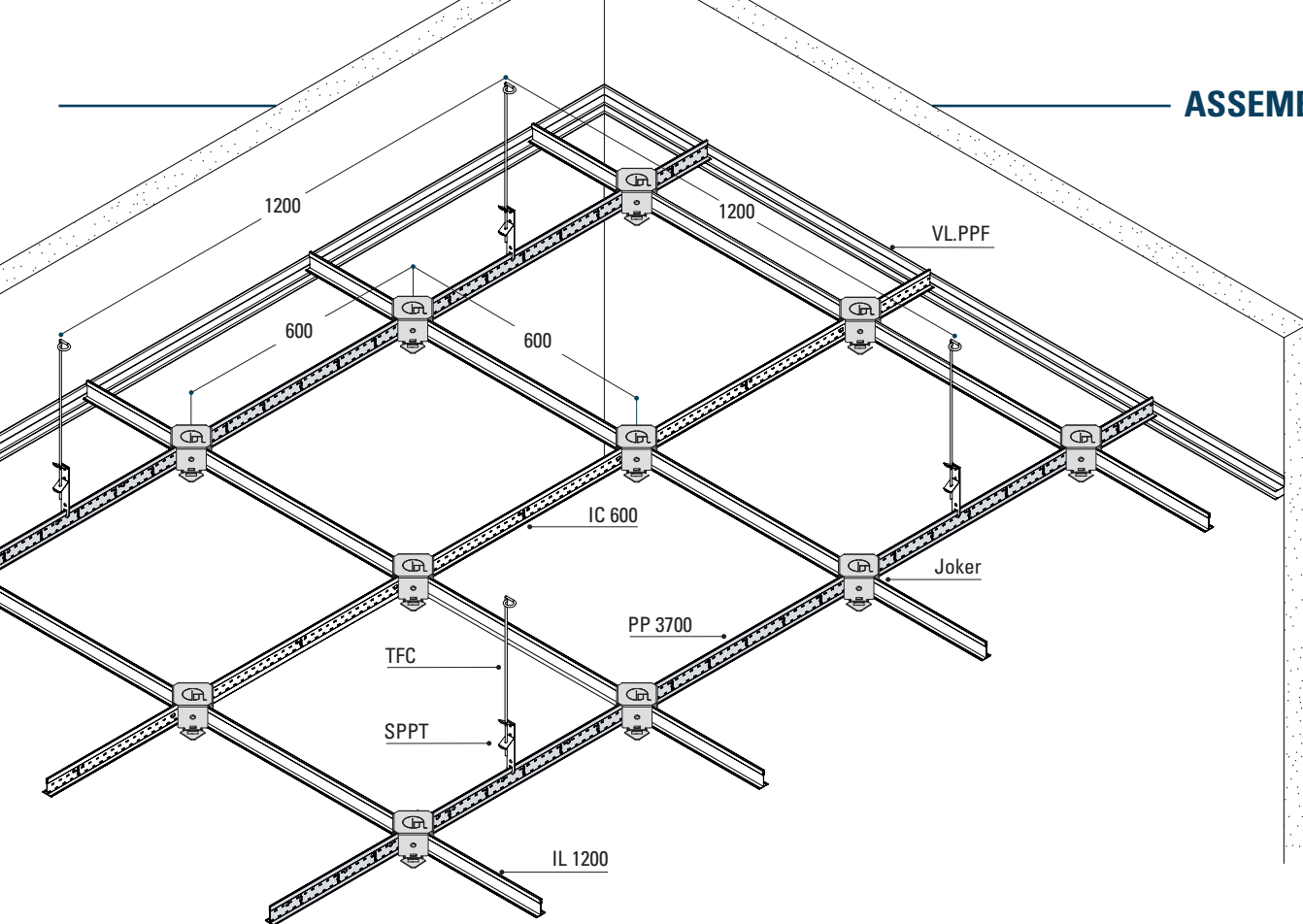
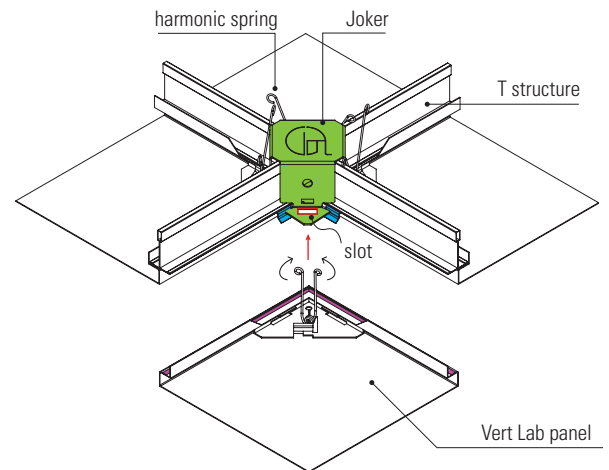
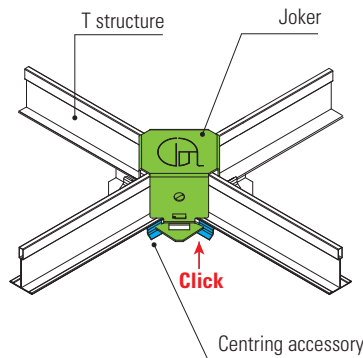
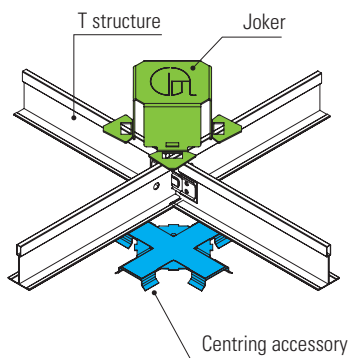


Fig.2

● Joker ● Centring accessory



STEP 4

Assemble the T-structure by positioning the profiles that make up the structure such as PP3700 - IL 1200 - IC 600, creating a 600x600mm square.

STEP 5

After assembling the T-structure, mount the Joker and the centring accessory in the intersection as shown in the first two illustrations.

STEP 6

Position and centre the panel between the T-frame profiles. Then tighten the springs located on the four sides of the panel and insert them into the slots on the Jokers.

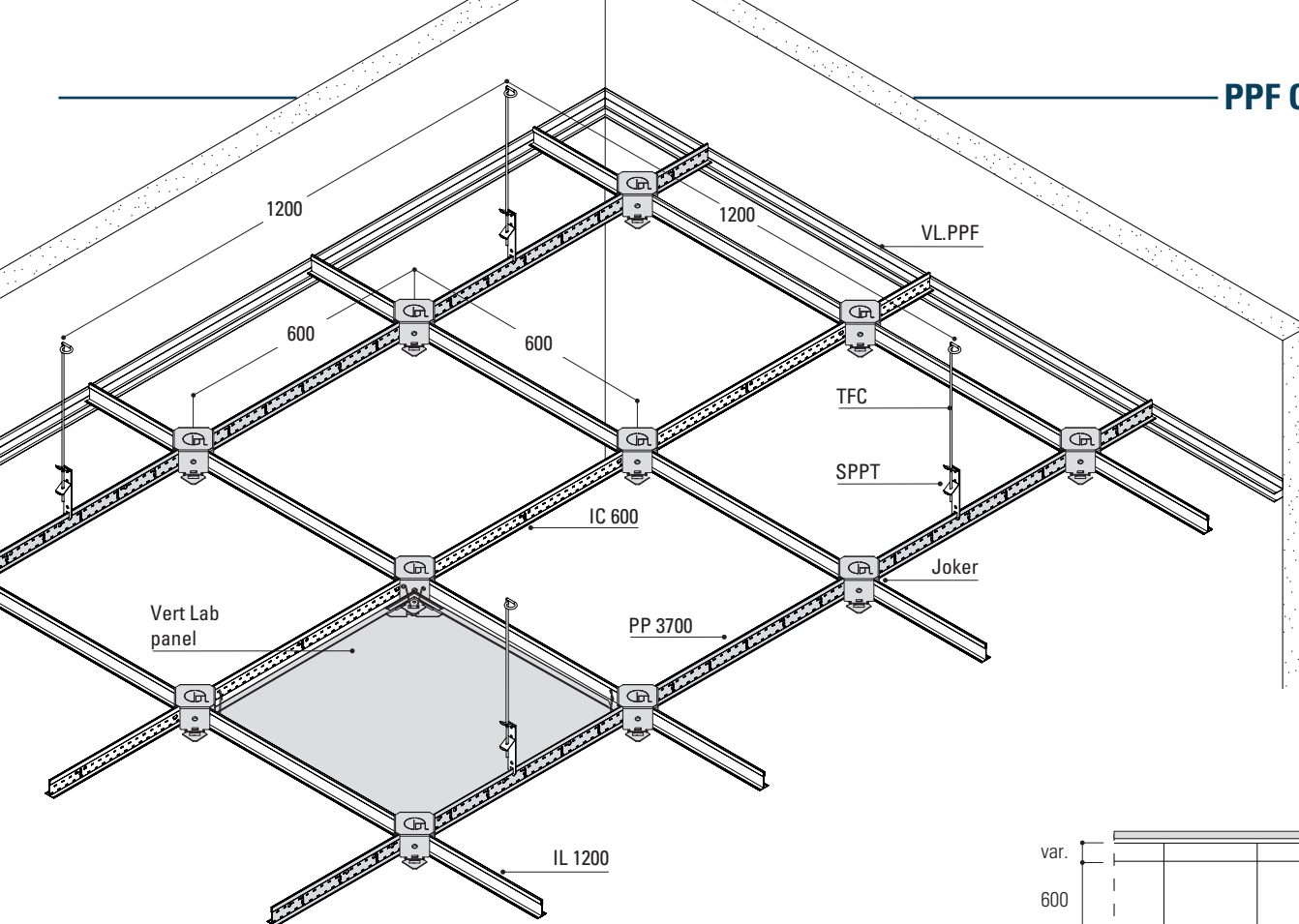
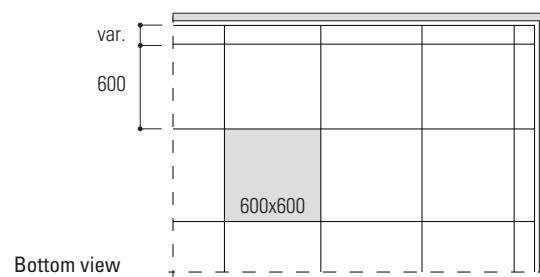
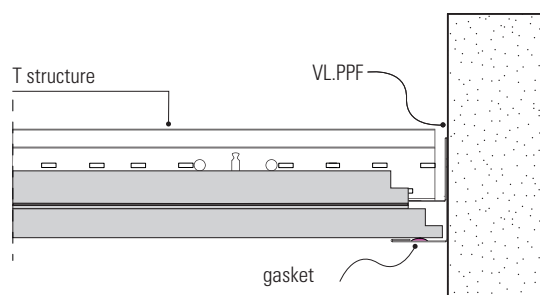


Fig.3

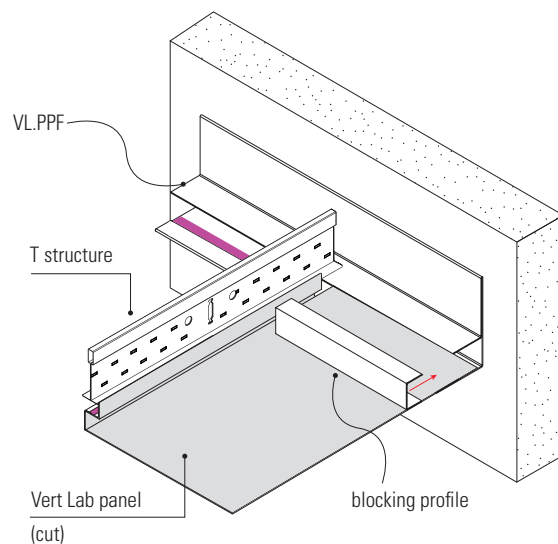


Mounting cut panel on PPF



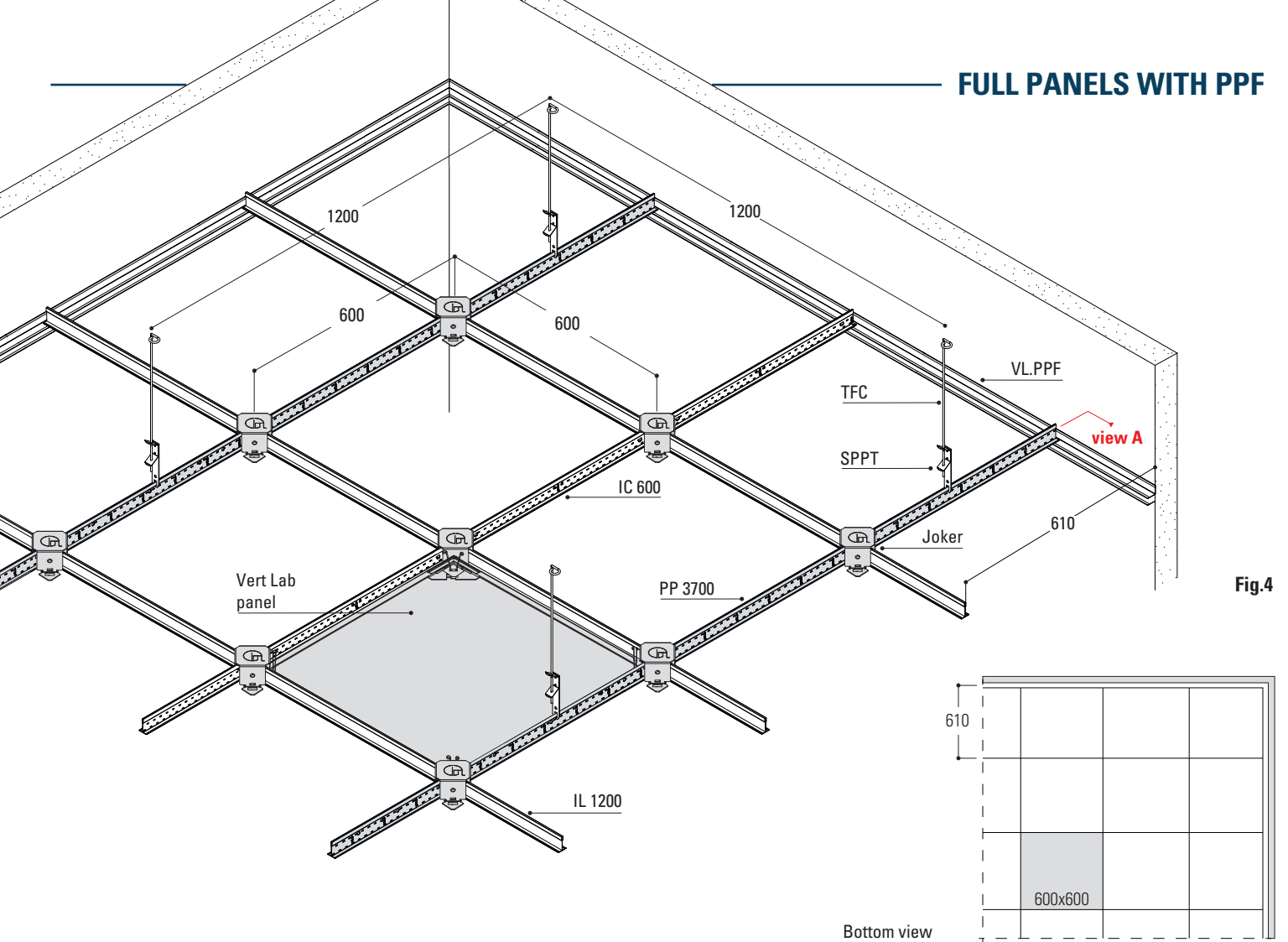
STEP 7

At the perimeter, cut the Vert Lab panel in excess and after fitting the latter, leave it to rest on the underside of the PPF.

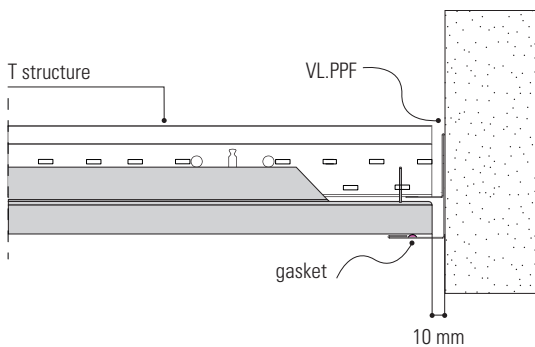


STEP 8

To ensure a better hold, insert the 'C' locking profile between the Vert Lab panel and the PPF perimeter panel so that there is a perfect fit.



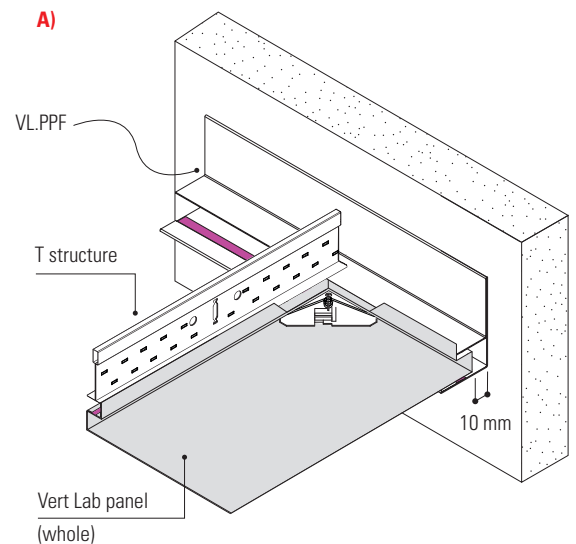
Whole panel assembly on PPF



STEP 9

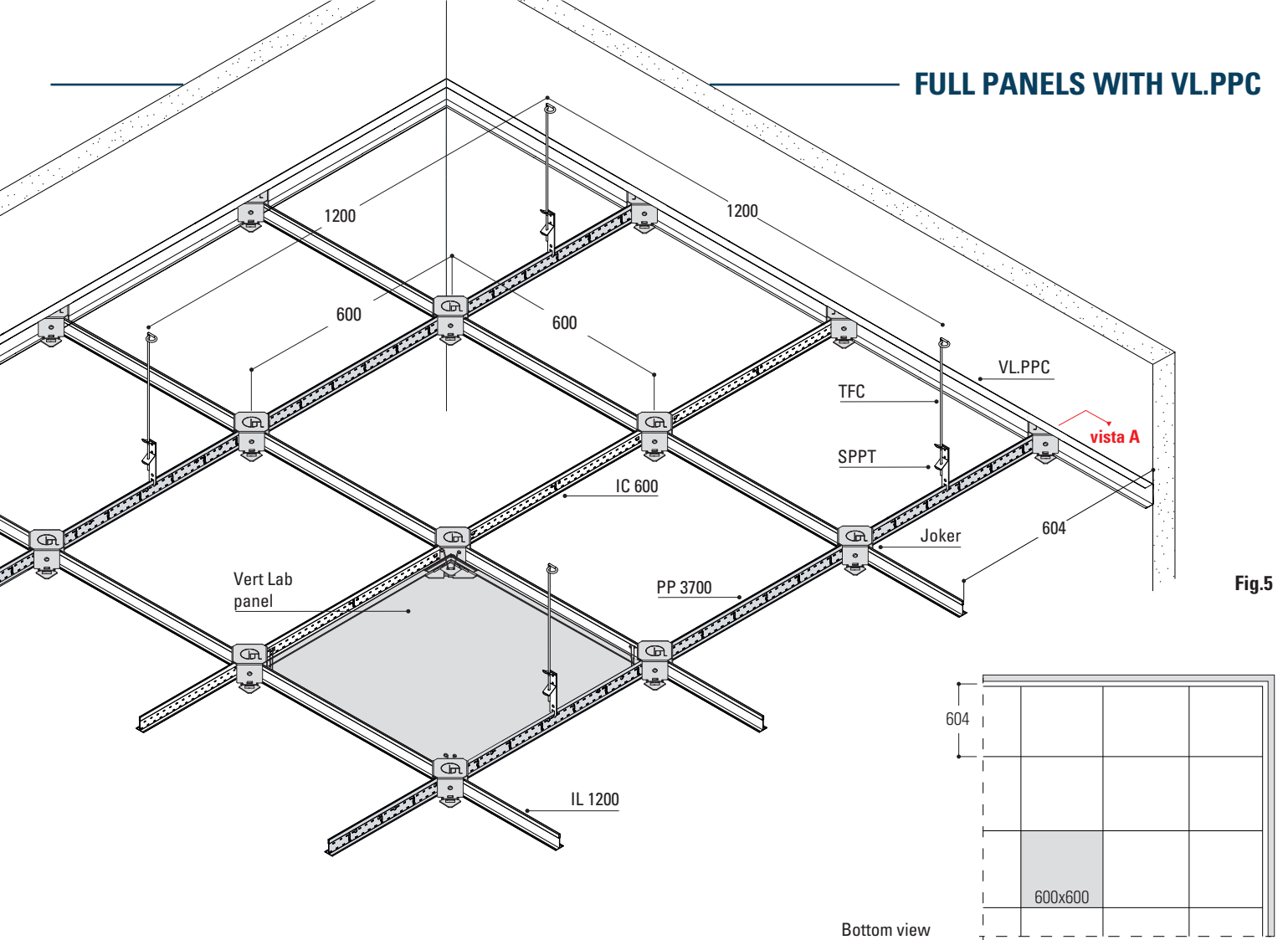
The Vert Lab panel (whole) is fitted using the same procedure as in step 7. It is advisable to compress or remove the gasket locally to facilitate insertion of the whole panel; the seal is ensured by the gasket at the base of the perimeter.

A)



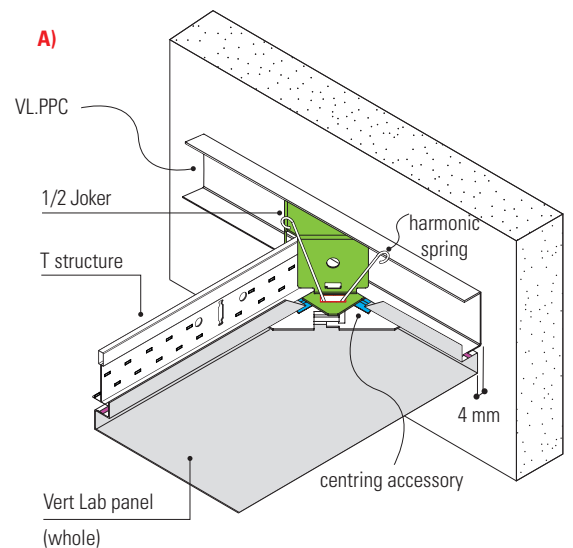
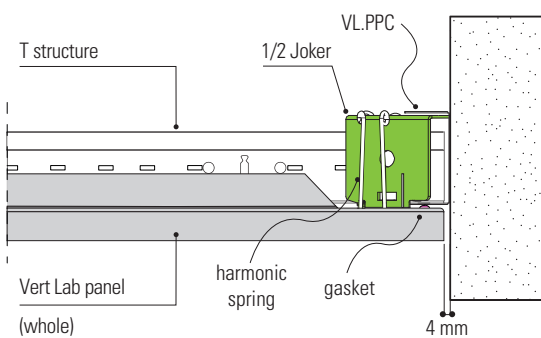
STEP 10

Installation continues by placing the panel on the underside of the PPF. There will be 10 mm of space between the panel and the perimeter profile.



Mounting 1/2 Joker perimeter

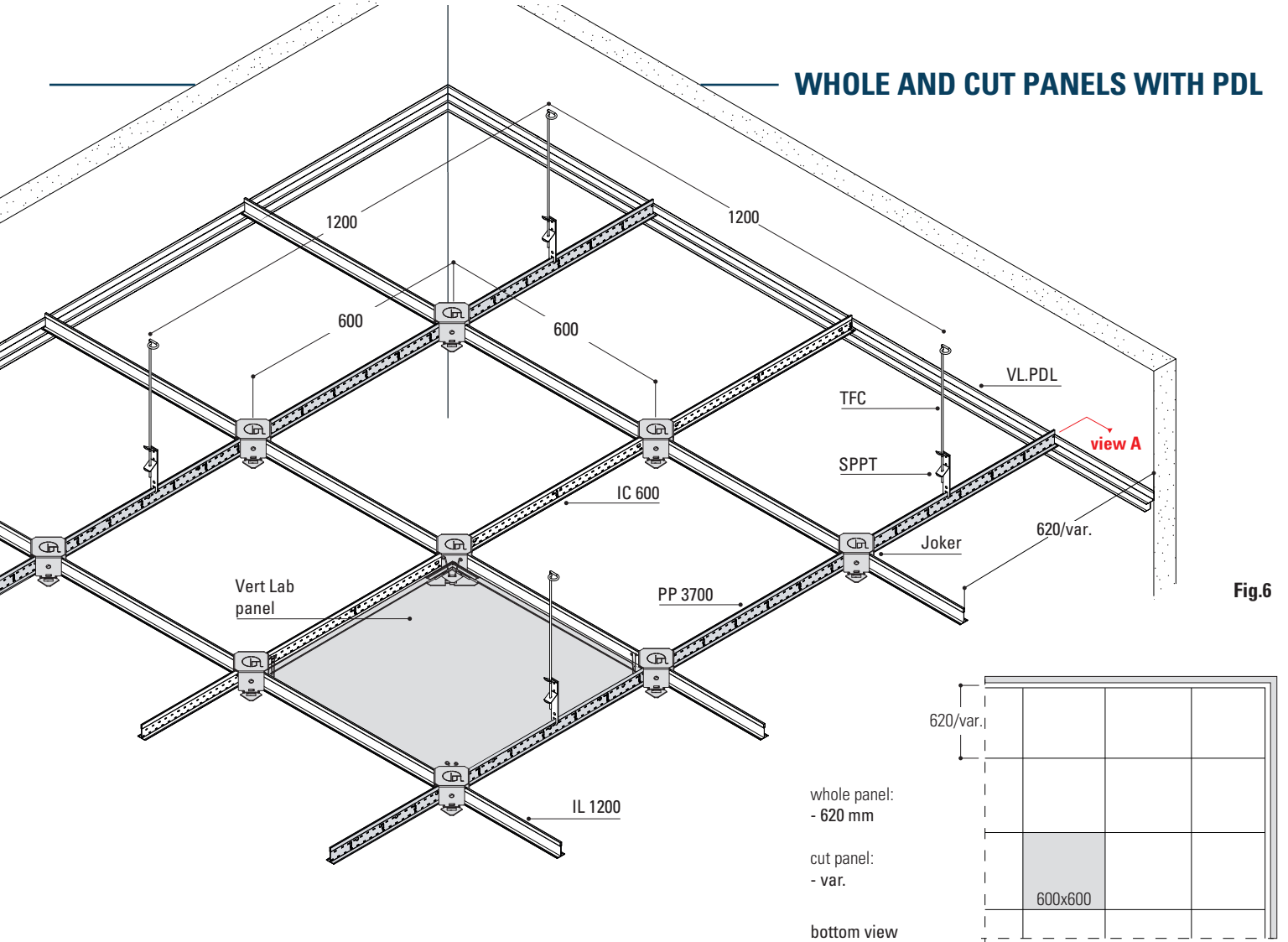
● Joker ● Centring accessory



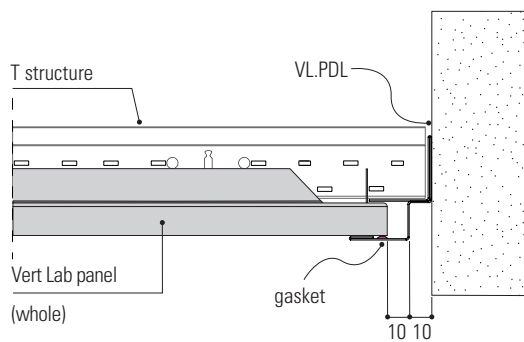
DESCRIPTION:

If you wish to assemble the entire panel, without visible perimeter, you must use the VL.PPC perimeter profile. This condition requires that during installation, the height of the T structure is coplanar to the height of the perimeter and that 1/2 Joker is used on the T structure (see drawings).

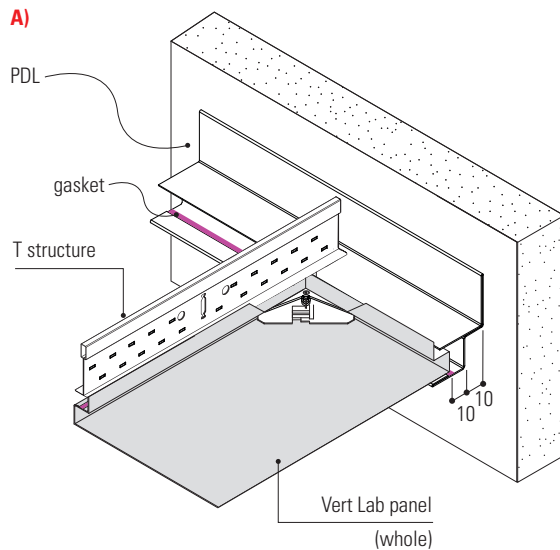
WHOLE AND CUT PANELS WITH PDL



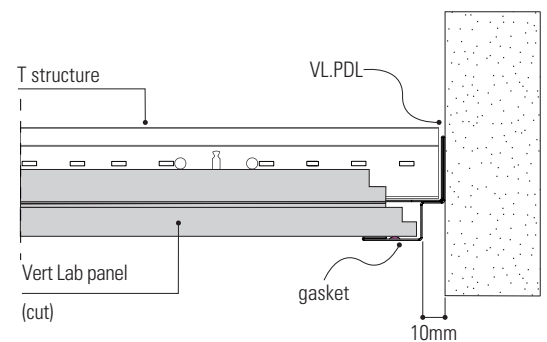
Whole panel assembly on PDL



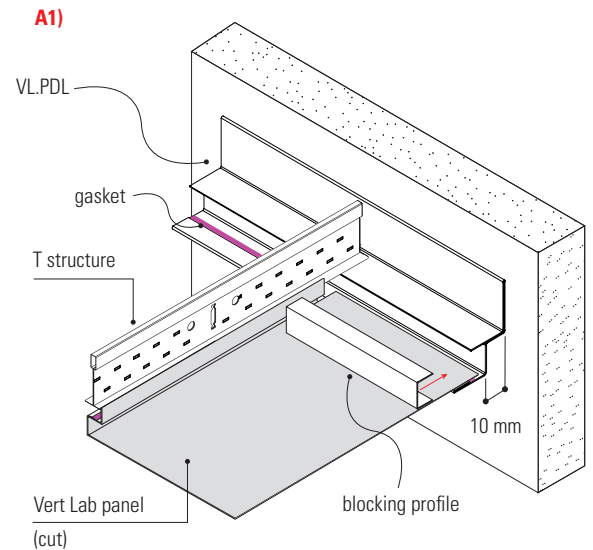
A)

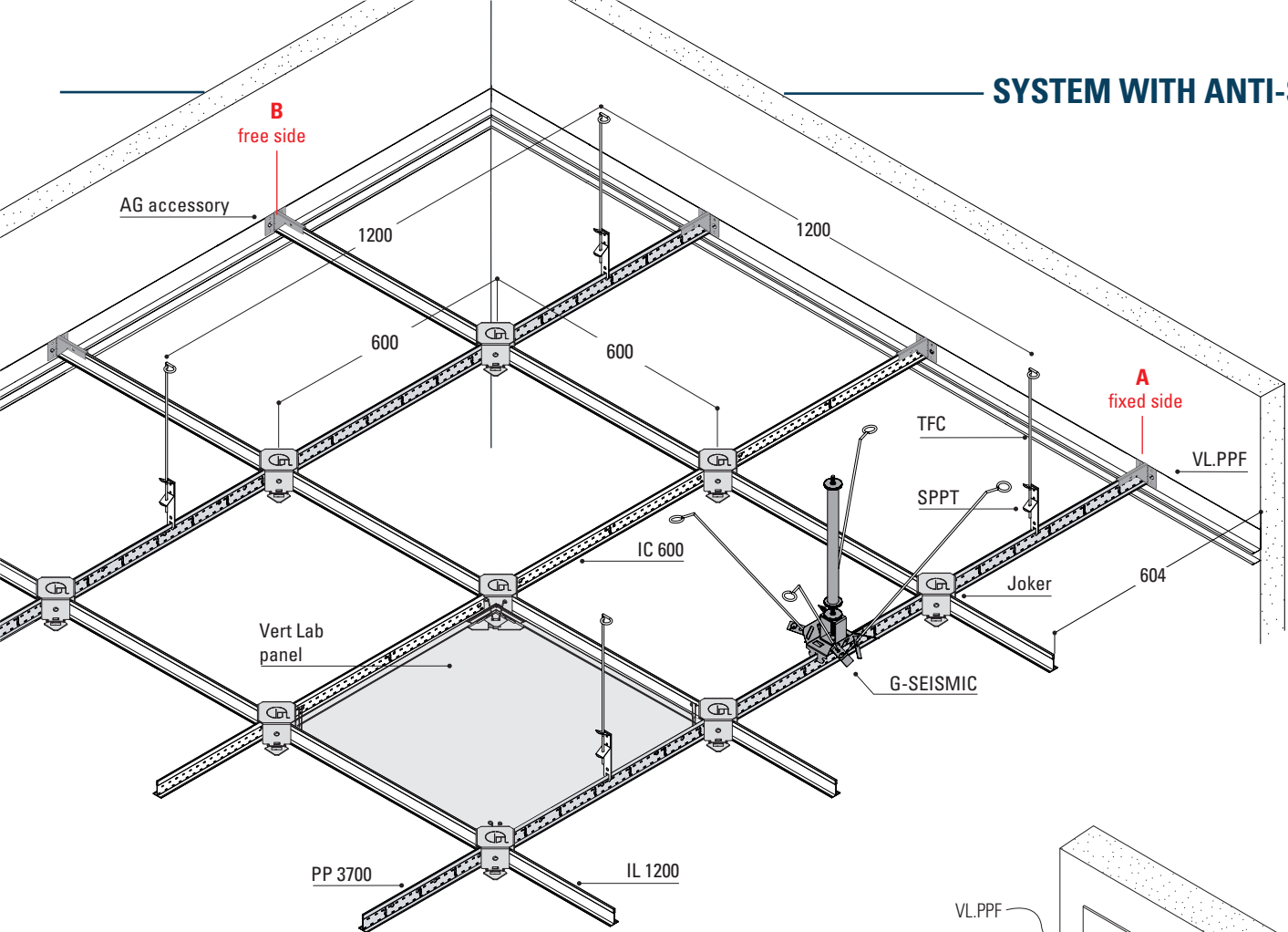


Mounting cut panel on PDL

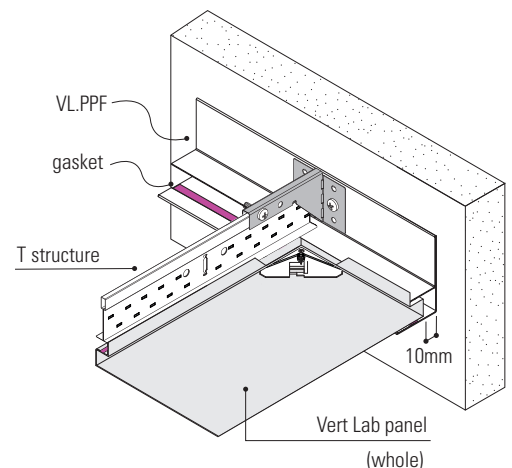
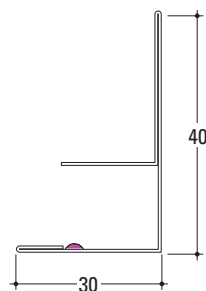


A1)



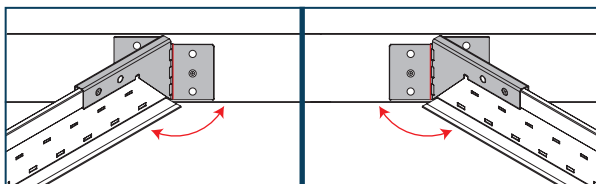


The **VL.PPF** is characterised by its ability to integrate perfectly with the Vert Lab system thanks to its two planes on which it is possible to the positioning of the structure (upper plane) and the panel (lower side). On the same it is possible to install the AG anti-seismic accessory, guaranteeing greater stability and safety. The colour of the PPF profile may vary depending on the T structure or the chosen panels that will be mounted on the ceiling.

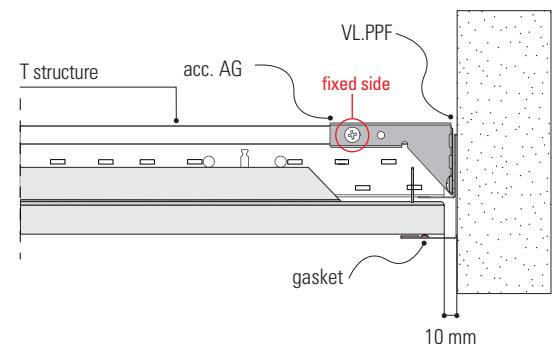


On the perimeter profiles, in order to create an additional constraint to the seismic action, two variations on opposite sides through the use of the AG accessory. On one side (A), the structure is constrained to the wall, preventing any movement by screwing the AG accessory to the perimeter profile and the structure; while on the other side (B), the structure in the event of seismic action, is freed from the AG accessory but still constrained in the direction and without being able to make rotational movements.

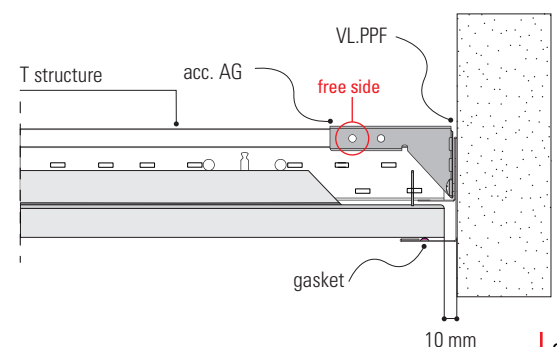
The **anti-seismic accessory** has the possibility once mounted on the profile to adjust the angle to suit any needs



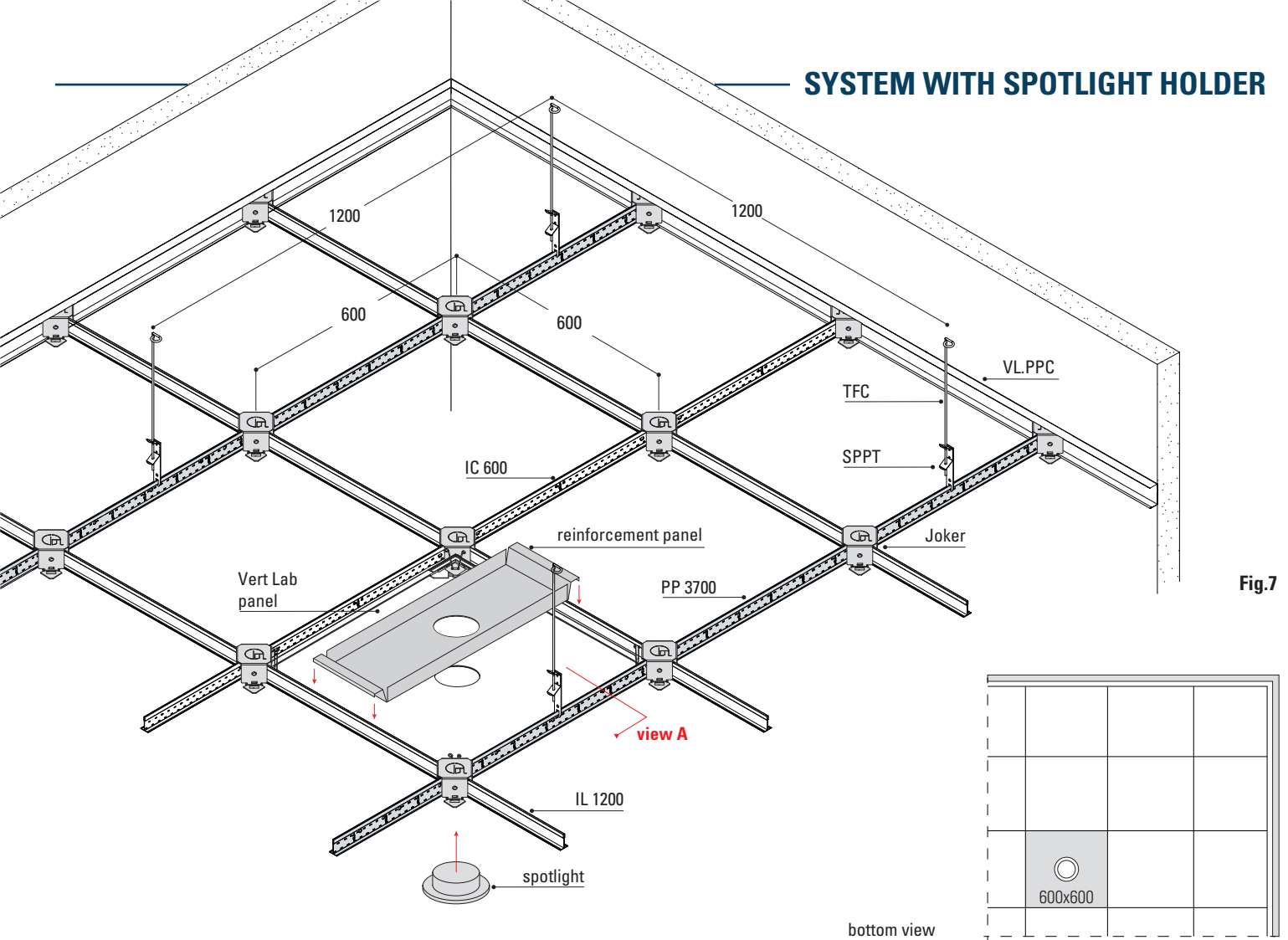
A)



B)

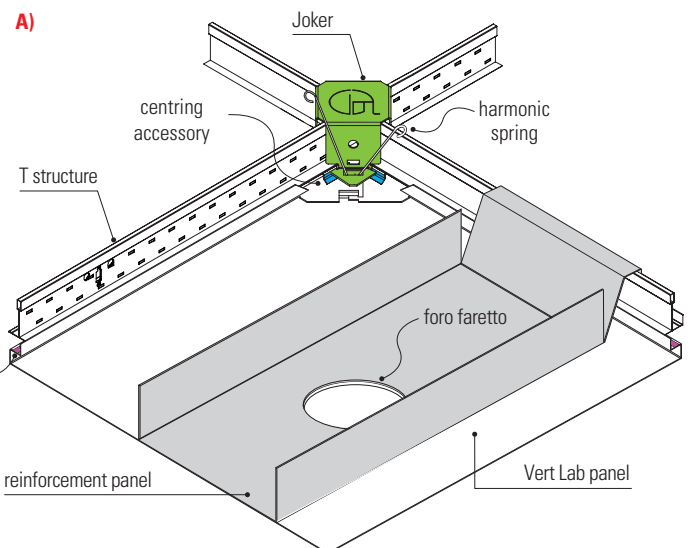
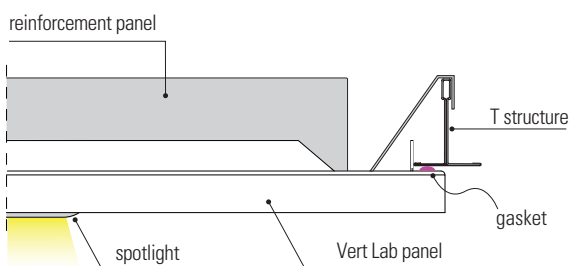


SYSTEM WITH SPOTLIGHT HOLDER



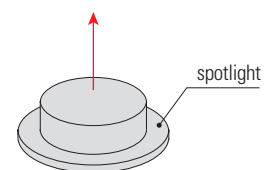
SPOTLIGHT ASSEMBLY

● Joker ● Centring accessory



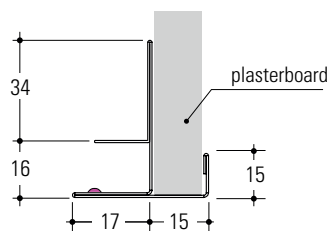
DESCRIPTION:

The luminaire when installed is accompanied by a reinforcement panel to ensure a greater seal, making installation simple and intuitive. The spotlight will discharge its full weight onto the reinforcement panel so that no bulges are created on the Vert Lab panel. The reinforcement panel with its ends will be positioned above the Vert Lab panel by hooking onto the sides of the 'T' structure. The last step is to install the spotlight and connect it to the power supply.

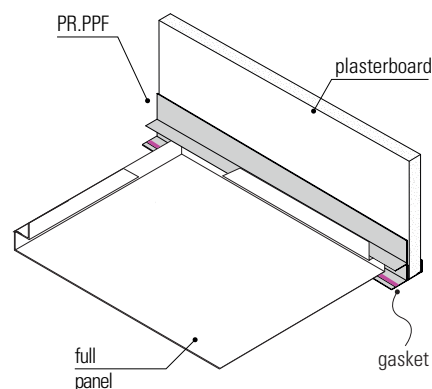
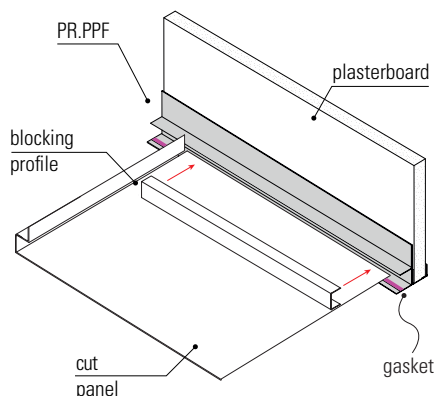


PERIMETER AND CONNECTION PROFILES

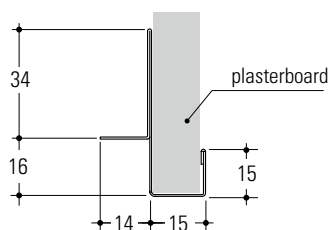
PR.PPF



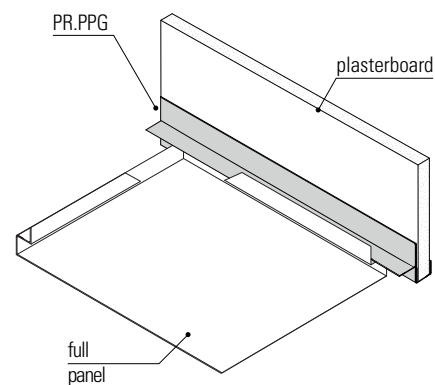
Connecting profile PR.PPF for vertical soffit and false ceiling, suitable for installation with VertLab system type. The profile allows perfect integration with cut or full panel. The adjacent illustration shows the application of the PR.PPF profile on a plasterboard panel (13mm thick) and the Vert Lab panel laying on it. In the case of a cut panel, a clamping 'C' profile is added to ensure a better hold.



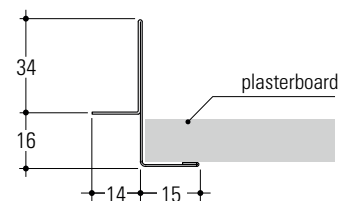
PR.PPG



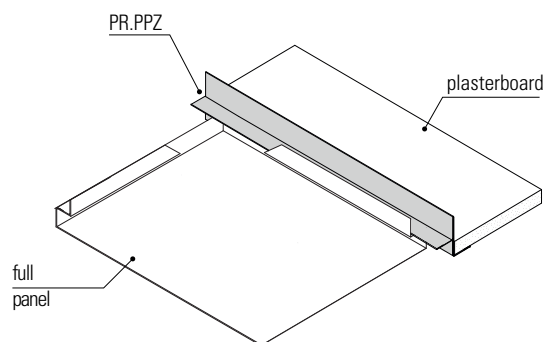
PR.PPG" connection profile for vertical ceiling tile and suspended ceiling, suitable for installation with Vert Lab system. The adjacent illustration shows the application of the 'PR.PPG' profile on a plasterboard panel (13mm thick) with the Vert Lab panel in place.



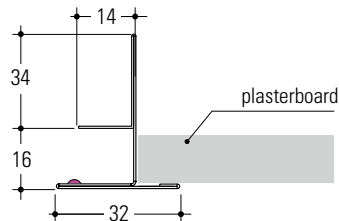
PR.PPZ



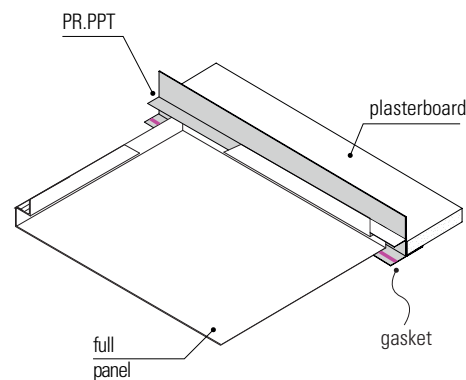
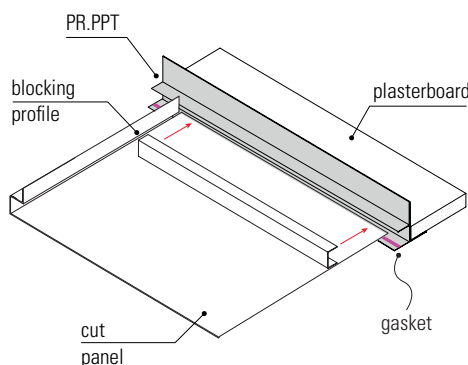
PR.PPZ" connection profile for horizontal compensation and false ceiling, suitable for installation with Vert Lab type system. The adjacent representation shows the application of the "PR.PPZ" profile on a plasterboard panel and the Vert Lab panel in support.



PR.PPT



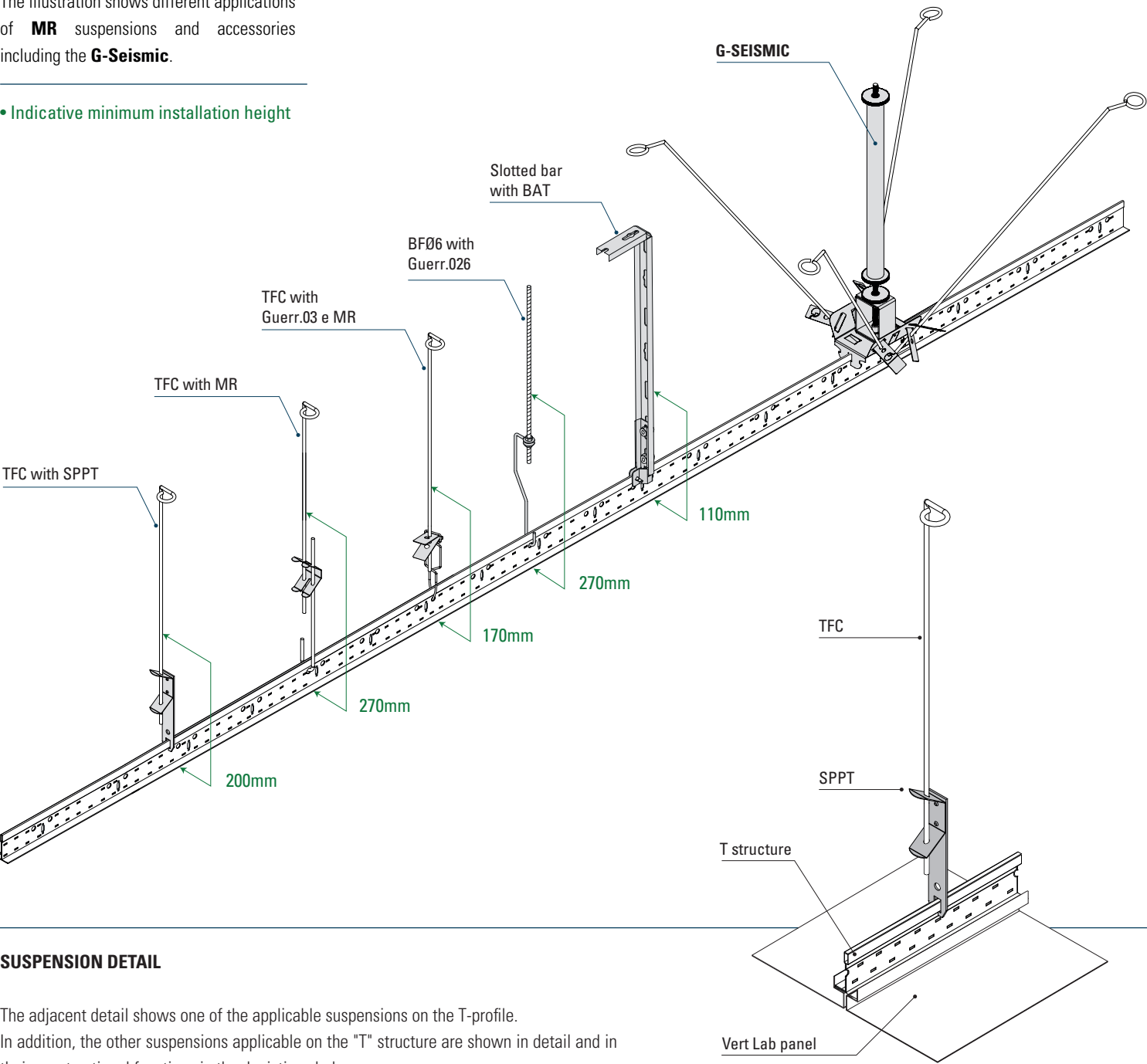
PR.PPT" connection profile for horizontal compensation and false ceiling, suitable for installation with VertLab type system. The profile allows perfect integration with cut or full panel. The adjacent illustration shows the application of the 'PR.PPT' profile on a plasterboard panel and the Vert Lab panel in support. In the case of a cut panel, a blocking 'C' profile is added to ensure a better hold.



APPLICATION OF ACCESSORIES AND SUSPENSIONS

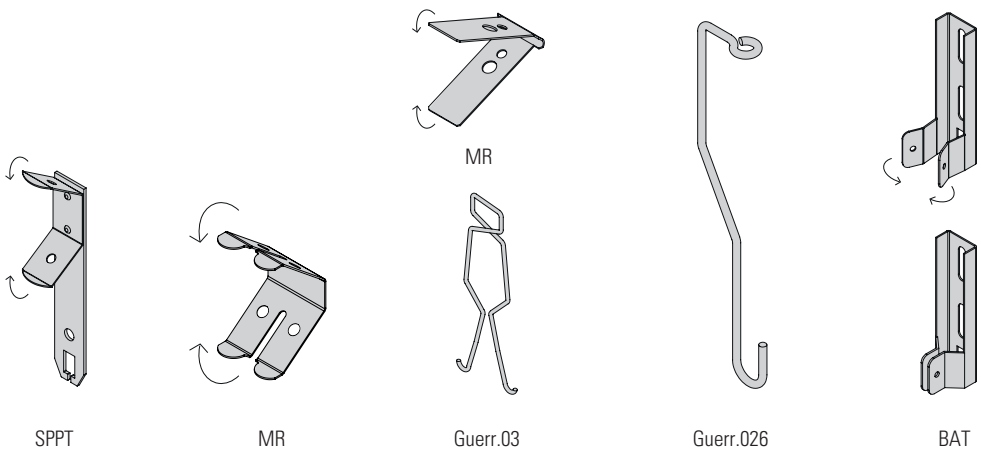
The illustration shows different applications of **MR** suspensions and accessories including the **G-Seismic**.

- Indicative minimum installation height



SUSPENSION DETAIL

The adjacent detail shows one of the applicable suspensions on the T-profile. In addition, the other suspensions applicable on the "T" structure are shown in detail and in their constructional functions in the depictions below



DESCRIPTION OF SUSPENSIONS

The "T" structure has the possibility of having several types of suspension, each of which has its own characteristics that make it suitable, effective and safe to suspend the structure with each type of ceiling. The assembly of the suspensions is simple and intuitive and guarantees practicality when setting up the structure.

NORMATIVE REFERENCES

- Construction product according to Regulation (EU) 305/2011
- CE marking in accordance with EN 13964
- Sheet metal quality and cladding grade in accordance with EN 10143 and EN 10346

- Air and dust tightness tests carried out in cooperation with Istituto Giordano:

The entire ceiling system was tested for impermeability according to the method prescribed by UNI EN 1026: 2016 and obtained permeability values in CLASS 2 according to UNI EN 14351-1 (test report no. 356263 dated 8.11.2018)

CE MARKING

The product indicated in this data sheet is intended for use inside buildings. It is provided with a Declaration of Performance (DoP). Reaction to fire: class A1/Durability: class B (Building components exposed to variable relative humidity up to 90% and temperatures up to 30°C but without corrosive agents, except class C5-M products).

LEED PROTOCOL

This certification is establishing itself as the new world standard for environmentally friendly construction and promotes a sustainability-oriented approach. Evaluation on integrated process, optimisation of energy performance, construction and demolition waste management planning, interior lighting and acoustic performance.

PRODUCT STORAGE

Store parcels in covered places with a relatively dry atmosphere and at a temperature as constant as possible to avoid condensation phenomena that can reduce the passivation state protecting the galvanised surface. In the event of external storage (not recommended), use a cover that ensures perfectly protect the material against the weather (rain, fog, snow), taking care to place the packages slightly inclined. This cover must in any case be such as to allow adequate ventilation (not putting the two surfaces in direct contact), so that moisture does not accumulate and create condensation.

PACKAGING MATERIAL

The packaging is made of cardboard with plastic bags inside containing the panels, all sealed with tape on the outside. The pallet is made of plastic strapping and a wooden wall. The packaging is suitably sized to facilitate handling in warehouses and on construction sites.

WARNINGS

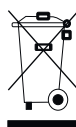
Important warnings

- Please read the following warnings carefully as they are important instructions for safe installation, use and maintenance.
- After removing the product from its packaging, make sure that it is intact, otherwise contact the seller.
- Packaging elements (plastic bags etc.) must not be left within reach of children as they are potential sources of danger.
- Failure to comply with the above may compromise the safety of the product.
- The manufacturer cannot be held liable for any damage resulting from improper, incorrect and unreasonable use.

ed irragionevoli.

Important warnings

- The product must not be subject to modification; any modification voids the warranty and may render the product dangerous.
- Antonio Guerrasio s.r.l. shall not be held liable for any damage caused by its products not being assembled in accordance with the instructions.
- The products must be installed in a workmanlike manner.
- The product is also intended to be installed on normally flammable surfaces.



Recycling

the crossed-out bin serves as a reminder to collect the product separately from other waste at the end of its life or to return it to the retailer when purchasing a new appliance of an equivalent type. This helps to preserve the environment from contamination and promotes the recycling of product components. Unauthorised disposal is subject to sanctions in accordance with the law.

Warning

- All representations in this data sheet are indicative and fixing should be checked when choosing the system to be used.

Features subject to change and improvement without notice