

GSS Profile

DESCRIPTION

- GSS stands for Gilbert Steel Solutions, which invented, patented, and launched the GSS click system at the end of 2010. It replaces adjusting a floor with wooden formwork. This is faster, easier, and there is no need to remove anything from the profile of the edge formwork afterwards. With the unique click system and the additional fold in the upper area, the product is more stable.
- The GSS profile can now exceed 40 cm. It immediately forms the basis for attaching an integrated fall protection system, GSS Safe.

PURPOSE

- This is a recessed formwork that prevents concrete from penetrating the insulation zone or the air cavity. Once the concrete has cured, the profile has no structural value anymore; it remains between the poured floor and the insulation. The profile therefore does not create a thermal bridge to the outside.
- The GSS profile is designed to stop the concrete pressure layer poured on vaults (hollow core slabs, wide slabs (filigree ceilings), pots, and beams, solid plates, etc.).
- In combination with GSS Safe, the GSS profile immediately serves as a spacer for the two supports on which our safety post rests.

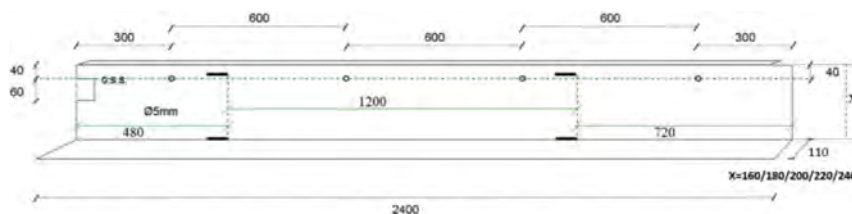
TECHNICAL DATA

- Material: Galvanised steel sheet with a minimum thickness of 1 mm made of normal structural steel or high-strength steel.
- Angle: 88 to 89 degrees to additionally counteract the pressure of the concrete.
- Height: depending on floor thickness (Tolerance ± 5). The tolerances are always given in mm unless otherwise indicated. Floor Thickness = Profile Height = Arch + Subsidence.
- Width: Always 11 cm (Tolerance ± 5) and length 2.4 m (Tolerance ± 10).
- The profile is provided with 4.5 mm recurring holes so that it can be anchored to the upper reinforcement (concrete mats) or to the lattice girder.
- Additionally, it has slots for our safety system GSS Safe and the GSS click system for connecting the profiles.

STANDARD TYPES

A GSS-160/ 180/ 200/ 220/ 240: For all floor thicknesses from 15 cm to 25 cm

B GSS-260/300: For all floor thicknesses from 23 cm to 31 cm



- The drawing is similar for each profile from 160 to 300. Only the number of holes for connecting to the reinforcement varies:
 - A** 4 holes at a distance of 60 cm, repeated on 1 line
 - B** 6 holes at a distance of 40 cm, repeated on 1 line
- GSS-325/350/375 and 400: For all floor thicknesses from 30 cm to 40 cm

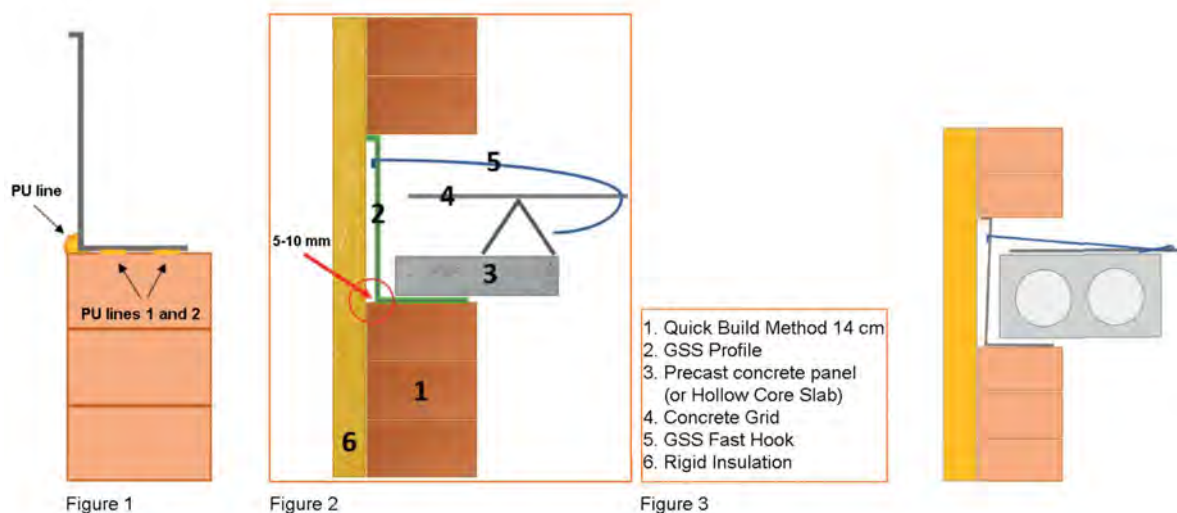
GSS Profile

STRUCTURE OF ITEM NUMBERS

- For example GSS1220, where 1 stands for material thickness → referred to as GSS 220
 - 1 = 1 mm (Tolerance +0.1/-0.05)
 - 2 = 1.25 mm → (Tolerance +0.1/-0.1) referred to as GSS Plus 220
- For example, GSS1220, where 220 stands for the height of the profile in mm. **In all profiles (GSS Profile, GSS Beam, GSS Prefab, GSS Edge), the specified height in the item number corresponds to the total height of the floor to be concreted!** In the case of GSS 220, the floor is 22 cm thick, including the thickness of the locking bar or precast concrete panel.

PRACTICAL USE

- Place the GSS Profile on the bricks immediately after laying the last layer. When gluing the walls, the profile should preferably be glued with, for example, tile adhesive. This can often be done with the same adhesive used for bonding quick-build bricks. Spray at least 2 rows of PU foam (rows 1 and 2) covering the entire length of the wall and an additional row at the outer edge (row 3). The profile is placed 1 cm inwards so that the excess foam from the outer row (row 3) accumulates in front of the profile. This subsequently provides additional strength, preventing the profile from moving outward (Figure 1). Temporarily place a weight on it (e.g., a few stones). You can also temporarily secure the formwork by driving a few steel nails through the profile into the joint. Please refer to the detailed GSS installation instructions on our website or included in the goods delivery.
- Since the majority of users are right-handed, we accounted for this in the design. You can only click the profile together if you start on the left-hand side (when you are inside the building) and work your way to the right!!!
- Always place the GSS Profile 5 to 10 mm inwards (see red circle in Figure 2).
- Lay the profiles side by side and slide the right profile into the other from top to bottom.
- Watch our demo video for each item: The video on [Item 1000, the GSS Profile](#), shows not only the placement but also how to form an angle.
- Use our brackets GSS Fast Item 3005 to anchor the GSS profile to the upper reinforcement (concrete grid). A demo video of GSS Fast is also available on our website: [Item 3005 GSS Fast \(Clamps\)](#)
- Below are 2 illustrations showing where the GSS profile is located on the wall in the case of protrusions (Figure 2) and vaults (Figure 3).



Do you use our safety railing? Then carefully read the technical data sheet for article group 3000 GSS Safe!