

GSS Safe - GSS Beam

PURPOSE

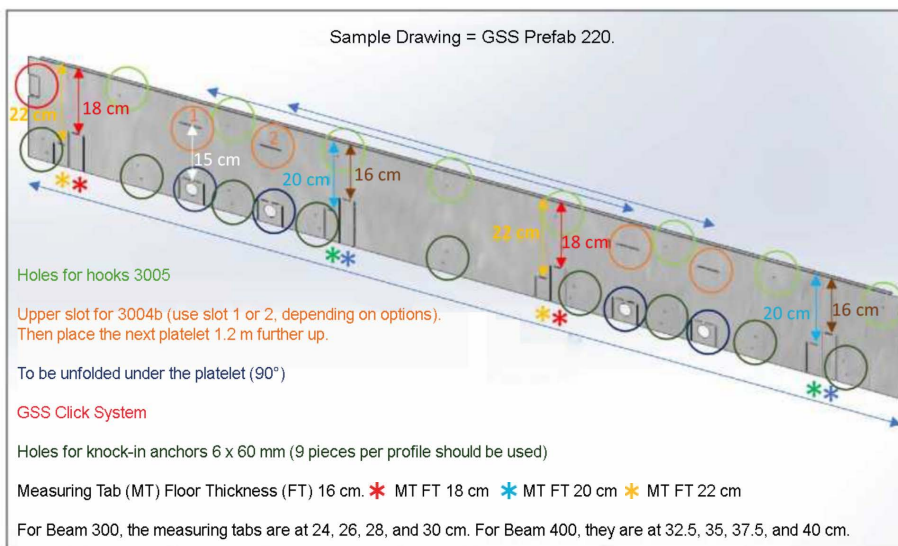
- This is a recessed formwork for the quick and easy retrofitting of precast concrete beams or walls.
- For your information: There is also a profile that can be integrated immediately after the elements have been manufactured, namely GSS Prefab (see TF Item 6000 GSS Prefab).

TECHNICAL DATA

- Material: Galvanised steel sheet with a minimum thickness of 1.25 mm made of normal structural steel or high-strength steel (Tolerance ± 0.1).
- Height: depending on floor thickness.
- The profile is provided with 4.5 mm holes for anchoring the profile to the upper reinforcement (concrete mesh) or the lattice girder and provides the option of using our safety system GSS Safe.

STANDARD TYPES

- A** GSS Beam 220: For all floor thicknesses ranging from 16 – 18 - 20 to 22 cm
- B** GSS Beam 300: For all floor thicknesses ranging from 24 – 26 - 28 to 30 cm
- C** GSS Beam 400: For all floor thicknesses ranging from 32.5 – 35 – 37.5 to 40 cm



- The drawing is similar for each profile from 220 to 400. 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
 - C** Holes at a distance of 30 cm, repeated on 2 lines
- Each profile has size tabs at 2 points for 4 floor thicknesses to be unfolded by 90° and placed on the supports. This allows you to determine the exact height to be poured. This corresponds to the floor thickness.

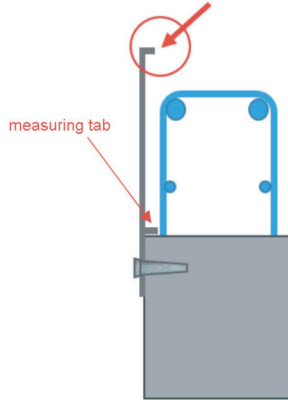
STRUCTURE OF ITEM NUMBERS

- For example, GSS Beam 4220, where 4 stands for the article group of the beam formwork.
- For example, GSS Beam 4220, where 220 stands for the height of the floor thickness of the floor in mm. **For all profiles (GSS Profile, GSS Beam, GSS Prefab, GSS Edge), the height specified in the item number corresponds to the total height of the floor to be concreted!** In the case of GSS-Beam 220, the floor is 16, 18, 20, or 22 cm thick, including the thickness of the locking bar or precast concrete panel. However, if you measure the total profile height, it is ± 29 cm.

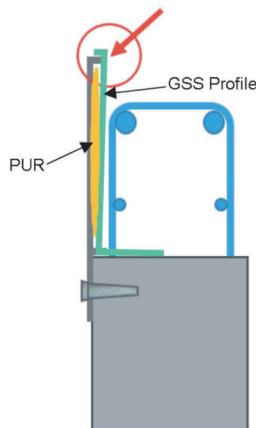
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PRACTICAL USE

- The girder formwork is always fitted with the folded edge facing inwards.



- The girder formwork is fitted with 2 sets of 4 tabs that serve as a gauge (see drawing above). Fold the left and right tabs of the square inward, depending on the thickness of the right inner lining, and place these tabs on the beam. Use a 6 mm drill to drill through each hole in the beam profile and install a Hilti HUS3-H 6×40/5 screw anchor or an equivalent into the drilled hole.
- Connect the formwork at the top with the GSS Fast brackets. (See our demo video for [Item 4000 GSS Beam](#).)
- The GSS Beam can also be connected with our click system. However, since the fold edge points inwards at the top and outwards on the GSS Profile, it is not possible to connect the two. Overlap the profiles by a few centimetres and fill the gap with PU foam (see figure below).



**Do you use our safety railing?
Carefully read the technical data sheet for GSS Safe!**

**The following information is only important
if you use GSS Beams in combination with GSS Safe!**

When using GSS Safe in combination with GSS-Beam, it is the wall and the upper platelet that provide the stability of the safety post, not the wall and the lower platelet. In this case, it is important to check particularly carefully that the upper platelet is firmly in place. Carry out a test and preferably use the supplied Hilti HUS3-H 6×40/5 screw anchor. The use of a nail gun is prohibited for this use!!

When using GSS Beam, we do not use a fitting post! We straighten the post. When wind speeds reach Beaufort Force 6 or above, the safe use of the fall protection system cannot be guaranteed prior to the concrete pour.

