Installing PC® Beam Shoe

Identification of the product

PC® Beam Shoe is available in two different models (e.g. PC-L and PC-H) and six different sizes (2, 3, 5, 7, 10 and 15). Models and sizes can be identified by the name in the label on the product; sizes may be also identified according to color of the product. Color codes are shown in table hereafter.

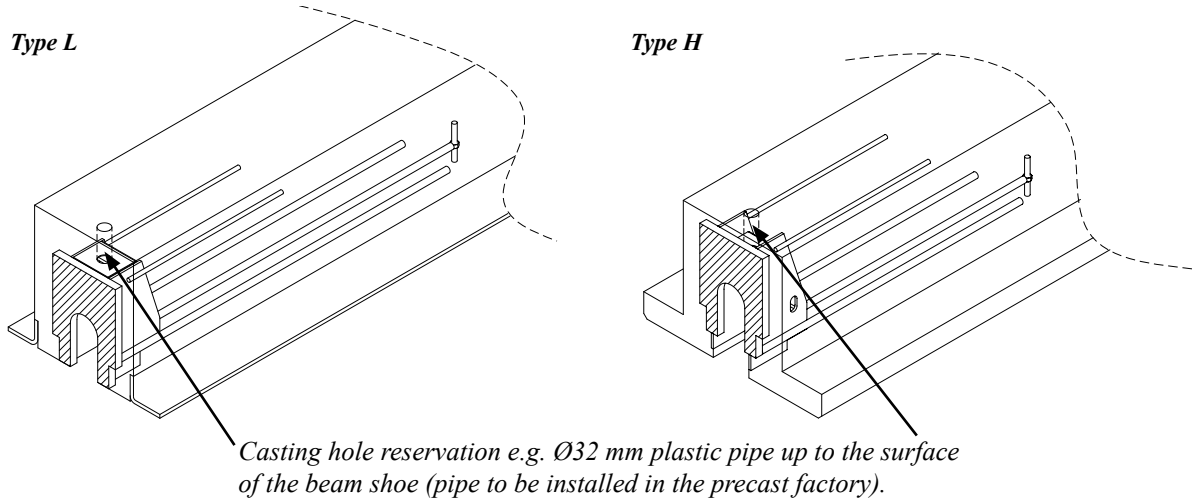

Figure 15. Standardized models for PC® Beam Shoe – type L and type H.

PC 2-L / PC 2-H	PC 3-L / PC 3-H	PC 5-L / PC 5-H	PC 7-L / PC 7-H	PC 10-L / PC 10-H	PC 15-L / PC 15-H
Red	Grey	Yellow	Green	Blue	Black

In precast factory

PC® Beam Shoe is installed in the framework according to design plans of the beam together with reinforcement of the beam. PC® Beam Shoe is installed so that it will be inside the main stirrups of the beam.

Beam shoe shall be fixed so that it will not move during casting. Pocket for PCs® Corbel is formed by steel plates of the PC® Beam Shoe, creating the required mold. It is necessary to ensure the bottom opening with plywood board or link in the bottom plate (according to *Figure 5* for PC-L or *Figure 6* for PC-H of this Technical Manual).

It is recommended to fill up the PC® Beam Shoe pocket with polystyrene or equivalent to prevent concrete to fill up the pocket.

Supplementary reinforcement must be placed at the area of beam according to design plans of the beam.

Figure 16. Example of supplementary reinforcement and fixing of PC® Beam Shoe before casting.

INSTALLING

On construction site

Beams will be installed on the corbel so that the slot of the beam will surround the corbel and the end plate of the beam will be in contact with top surface of the corbel plate.

PC® Beam Shoes do not bear torsion loads; therefore, beams must be supported against rotation during erection and beam must have a good cooperation with slab in final construction so that slab will prevent beam's rotation.

The joint between column and beam is cast at the same time with joints of slabs.