

Installation of KAPU® Safety Railing Sleeves

Installation at the element factory

Product identification

KAPU® Safety Railing Sleeves are available in four standard designs: KAPU®-202, KAPU®-602, KAPU®-602+, and KAPU®-403...KAPU®-803. The railing sleeve model and protection class can be identified by the marking on the product.

Installation in the element

KAPU® Safety Railing Sleeves are installed in the mold before the concrete is cast. The exact locations of the railing sleeves are indicated in the structural designs. The railing sleeves are either mounted on the element's outer surface or embedded in the element to the tube's depth (figures *Figure 16* and *Figure 17*). Railing Sleeves can also be installed in the insulation space of a sandwich element in which case the stud anchors are anchored to the element's inner shell (*Figure 18*).

Figure 16. KAPU® mounted on the outer surface of an element.



Figure 17. KAPU® embedded in the element.



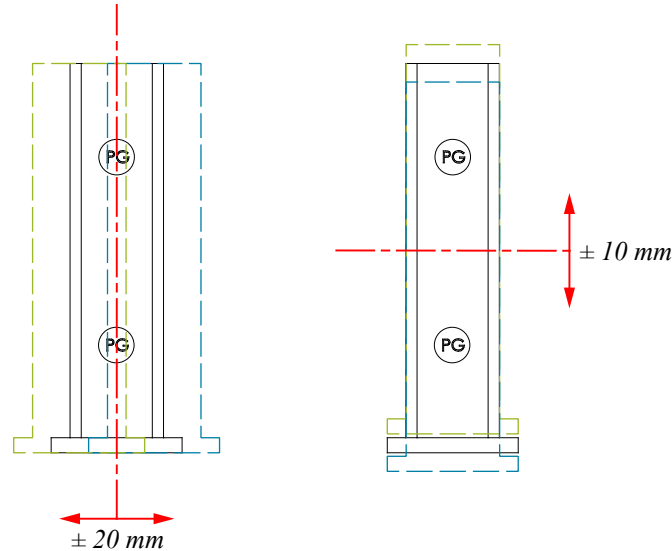
Figure 18. KAPU® installation in a sandwich element.



The installation of the required additional reinforcement should be performed in accordance with Appendix A of the Technical Manual. The product's stud anchors should not be bent or cut off in any case.

The installation tolerance for the Railing Sleeve positioning is ± 10 mm vertically and ± 20 mm laterally. Care must be taken during casting to ensure that the Railing Sleeve position does not shift and that post-casting tolerances can be achieved.

Figure 19. Assembly tolerances.



KAPU® Safety Railing Sleeves are available with polyethylene protective plugs to prevent concrete from flowing into the rail during the casting process. The protective caps can also be used to cover the openings at the end of the rails and to prevent debris, rainwater, snow and ice from accumulating in KAPU® Safety Railing Sleeves during element storage and installation.

Figure 20. Protective cap.



Installation on site

The selected railings are installed in accordance with the rail system supplier's guidelines and applicable standards. Note that the security rating for the entire railing is determined by the lowest rated section.

Figure 21. An example of a railing system built using KAPU® Safety Railing Sleeves.



The Railing Sleeve can be cut if it is not required anymore. Alternatively, the Railing Sleeve can be left in the structure, in which case we recommend filling the sleeve with rock wool or concrete.