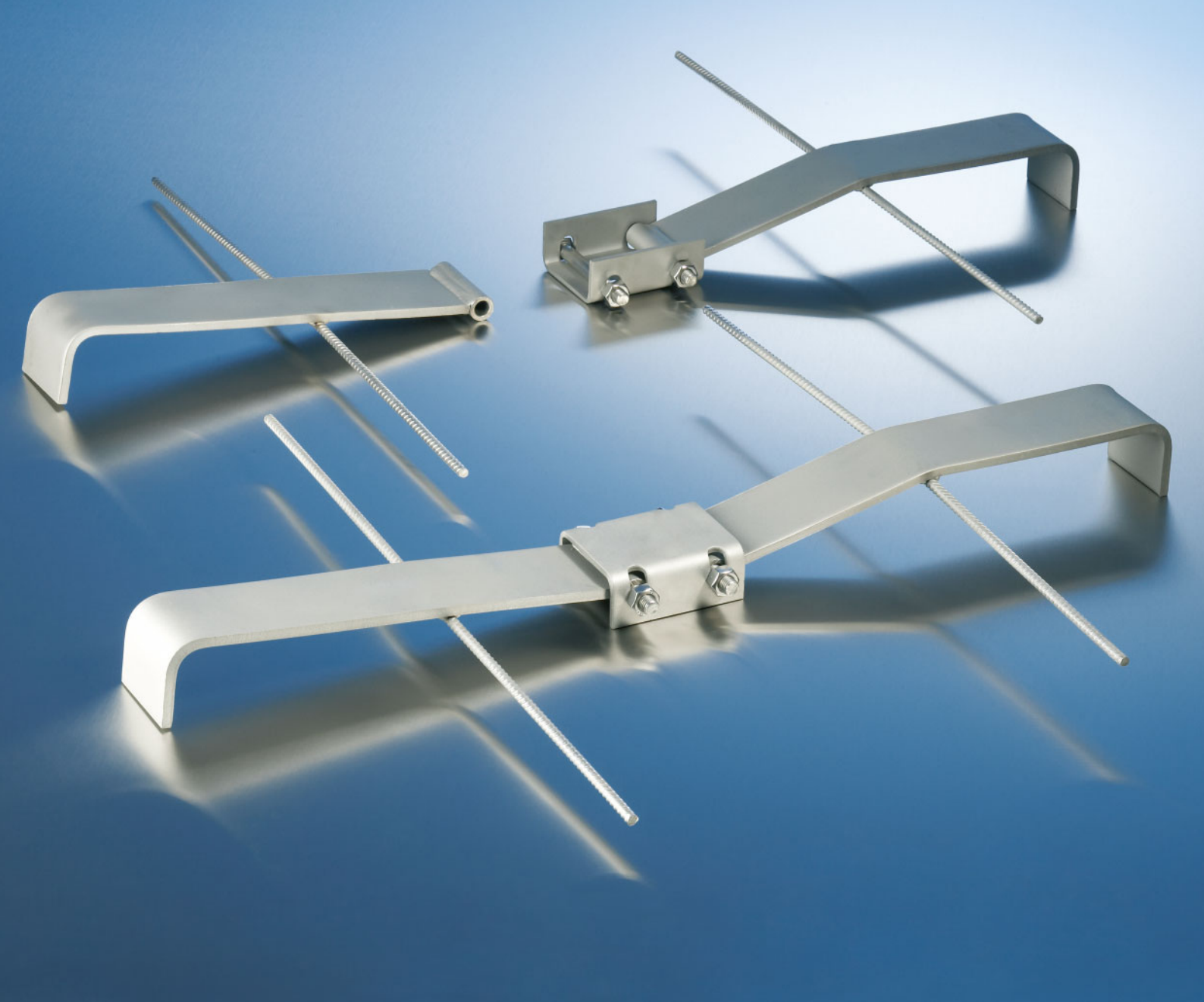




## PS BALCONY HINGE

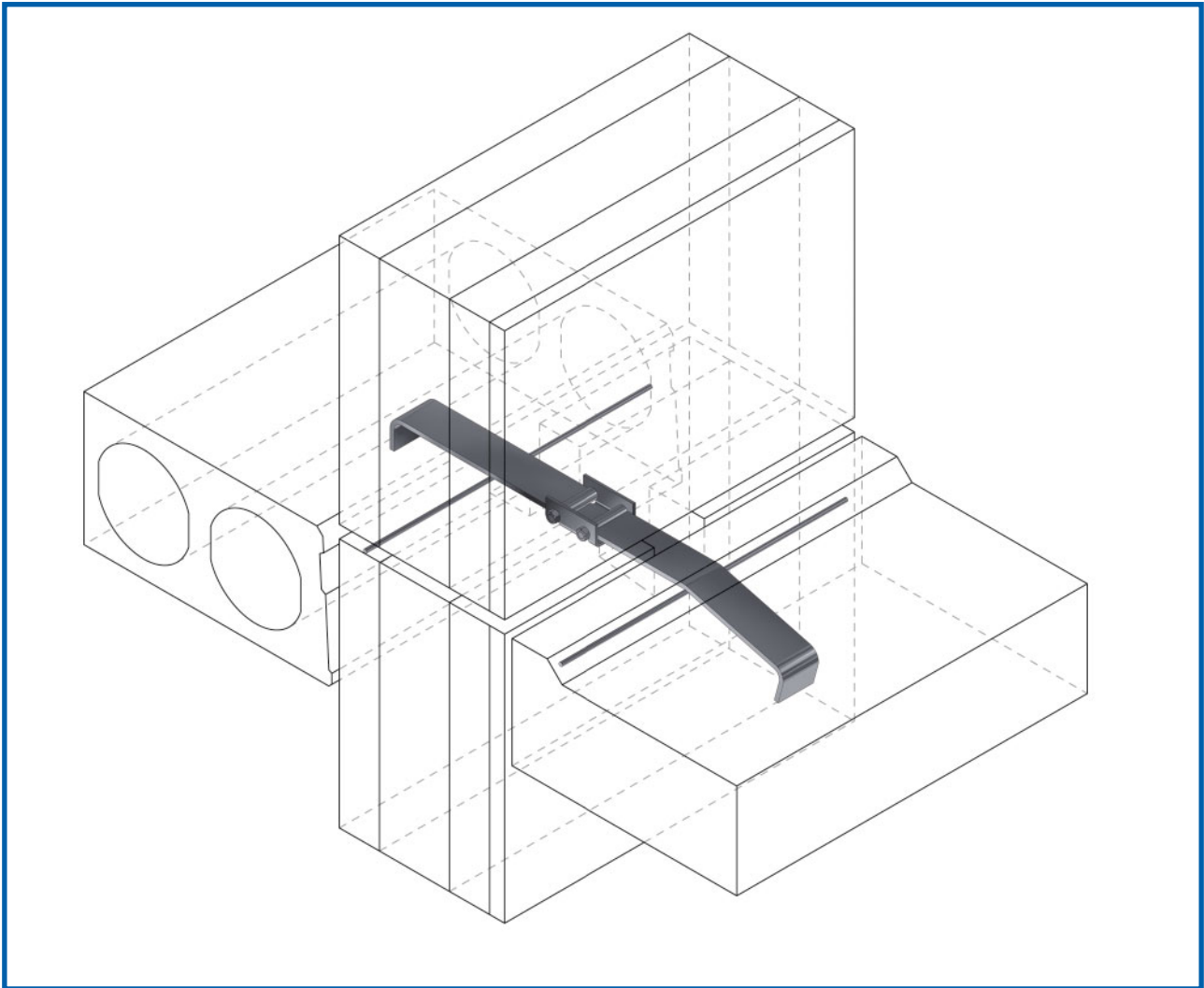


ISO 9001  
ISO 3834-2  
ISO 14001

Version: **Peikko Group 7/2011**  
(update 3/2014)

# PS BALCONY HINGE

Figure 1. Balcony hinge in non-bearing wall



## Benefits of PS balcony hinge

- Transfers the horizontal forces from balcony slab to midsole, yet allowing vertical movements of the balcony
- Excellent solution that has been used for a long time
- Fully stainless - no rust leaks
- Suitable for use with thick insulation layers



### Peikko benefits

- reliable: passed demanding test program
- competitive price and delivery time
- economical and easy to use in designing, manufacturing and installation of the elements

PS balcony hinge transfers the vertical forces of balcony slab to midsole allowing vertical movements of the balcony. PS balcony hinge allows vertical movements of 20 mm.

Typically at least two hinges are needed for balcony slab.

Materials:

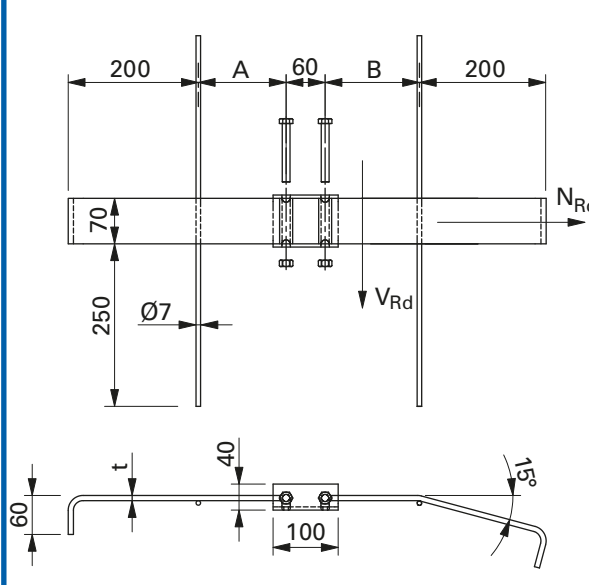
|             |        |          |
|-------------|--------|----------|
| plates      | 1.4301 | EN 10088 |
| sleeve      | 1.4301 | EN 10088 |
| ribbed bars | B600KX | SFS 1259 |

welding           MAG by hand or with a robot  
welding class    C (SFS-EN ISO 5817)

Peikko Group's production units are externally controlled and periodically audited on the basis of production certifications and product approvals by various organizations, including Inspecta Certification, VTT Expert Services, Nordcert, SLV, TSUS and SPSC among others.

Products are marked with the mark of the Inspecta, the emblem of Peikko Group, the type of the product and year and the week of manufacturing.

Table 1. Dimensions [mm], resistances [kN] and weights [kg] of balcony hinge



The technical drawing shows the PS balcony hinge in two views. The top view illustrates the hinge's footprint on the slab, with dimensions 200 mm for the outer panels and 60 mm for the central inner panel. It also shows the vertical dimensions of 70 mm and 250 mm, and a hole diameter of Ø7. The side view shows the hinge's profile, including the 15° angle of the outer panel and the 40 mm height of the central part. The load indicators  $N_{Rd}$  and  $V_{Rd}$  are shown acting on the hinge.

|        | t  | A   | B   | $N_{Rd}$ | $V_{Rd}$ | weight |
|--------|----|-----|-----|----------|----------|--------|
| PS 110 | 8  | 110 | 170 | 33.2     | 8.8      | 4.7    |
| PS 170 | 8  | 170 | 170 | 33.2     | 8.8      | 5.0    |
| PS 200 | 10 | 200 | 200 | 33.2     | 8.7      | 6.2    |
| PS 230 | 10 | 230 | 230 | 33.2     | 8.1      | 6.5    |

Figure 2. Balcony hinge PS 200 and non-bearing wall

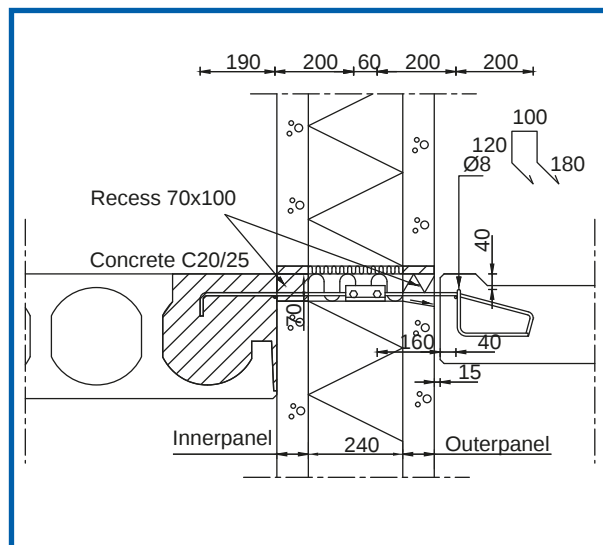
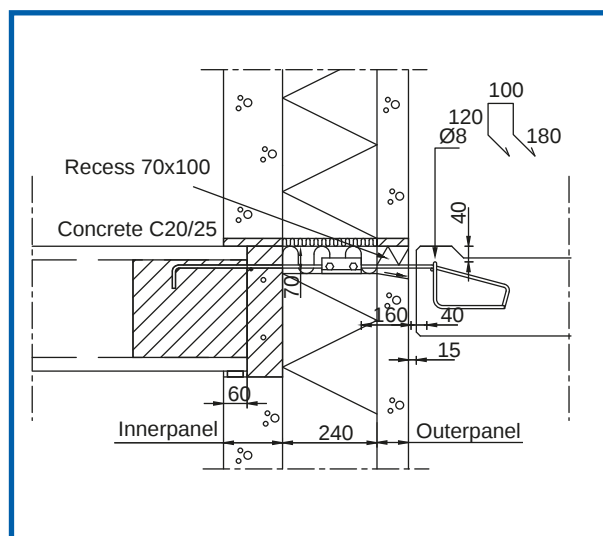


Figure 3. Balcony hinge PS 200 in bearing wall



#### Installation

- Steel item is pre-installed in balcony slab
- The other end of steel item is placed in to grouting hole
- Nuts are tightened before grouting



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