

# Insulation fastener IPD

## Advantages



IPD 8 with steel nail



IPD 10 with plastic nail (glass fibre reinforced)

- ETA approved for ETICS (external thermal insulation composite systems)
- Suitable for fastening solid insulation boards
- The textured surface of the plate provides a good bond for the plaster
- Stable design and impact resistant material prevents bending when hitting in

## Suitable building materials

### Very suitable



- Concrete
- Solid brick
- Solid sand-lime brick
- Lightweight solid concrete blocks
- Aerated concrete



- Hollow brick
- Hollow sand-lime brick
- Lightweight hollow concrete blocks
- Natural stone



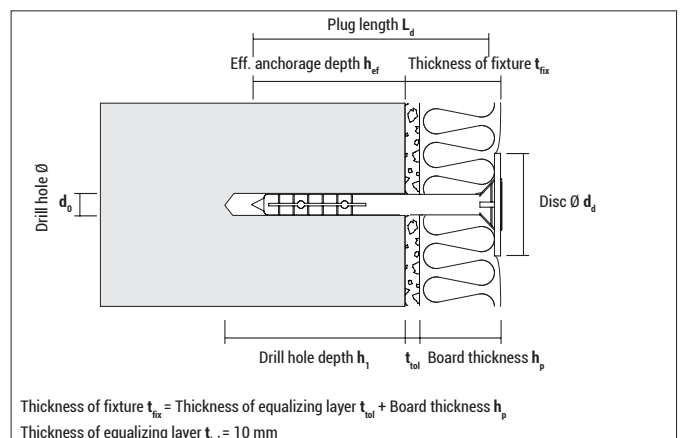
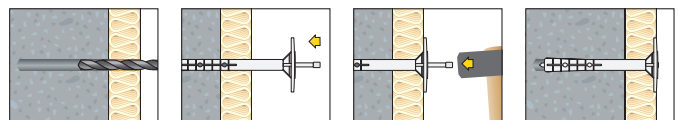
## Approvals and certificates



European Technical Assessment  
for ETICS



## Mounting



## Insulation fastener IPD



**IPD 8** with steel nail

| Type      | Art-No   | $d_0$<br>[mm] | $h_1 \geq$<br>[mm] | $h_{ef} \geq *$<br>[mm] | $L_d$<br>[mm] | $d_d$<br>[mm] | $t_{fix} \leq$<br>[mm] | ETA | €/ 100 pcs | [pcs] | [pcs] |
|-----------|----------|---------------|--------------------|-------------------------|---------------|---------------|------------------------|-----|------------|-------|-------|
| IPD 8x95  | 9895IPD  | 8             | 35                 | 25                      | 95            | 60            | 70                     | ●   |            | 200   | –     |
| IPD 8x115 | 98115IPD | 8             | 35                 | 25                      | 115           | 60            | 90                     | ●   |            | 200   | –     |
| IPD 8x135 | 98135IPD | 8             | 35                 | 25                      | 135           | 60            | 110                    | ●   |            | 200   | –     |
| IPD 8x155 | 98155IPD | 8             | 35                 | 25                      | 155           | 60            | 130                    | ●   |            | 200   | –     |
| IPD 8x175 | 98175IPD | 8             | 35                 | 25                      | 175           | 60            | 150                    | ●   |            | 200   | –     |
| IPD 8x195 | 98195IPD | 8             | 35                 | 25                      | 195           | 60            | 170                    | ●   |            | 200   | –     |

\* Setting depth  $h_{ef} = 65$  mm for aerated concrete, which reduces the thickness of fixture  $t_{fix}$  accordingly



**IPD 10** with plastic nail (glass-fibre reinforced)

| Type       | Art-No       | $d_0$<br>[mm] | $h_1 \geq$<br>[mm] | $h_{ef} \geq *$<br>[mm] | $L_d$<br>[mm] | $d_d$<br>[mm] | $t_{fix} \leq$<br>[mm] | ETA | €/ 100 pcs | [pcs] | [pcs] |
|------------|--------------|---------------|--------------------|-------------------------|---------------|---------------|------------------------|-----|------------|-------|-------|
| IPD 10x70  | 91070IPD200  | 10            | 40                 | 30                      | 70            | 60            | 40                     | ●   |            | 200   | –     |
| IPD 10x90  | 91090IPD200  | 10            | 40                 | 30                      | 90            | 60            | 60                     | ●   |            | 200   | –     |
| IPD 10x110 | 910110IPD200 | 10            | 40                 | 30                      | 110           | 60            | 80                     | ●   |            | 200   | –     |
| IPD 10x120 | 910120IPD200 | 10            | 40                 | 30                      | 120           | 60            | 90                     | ●   |            | 200   | –     |
| IPD 10x140 | 910140IPD200 | 10            | 40                 | 30                      | 140           | 60            | 110                    | ●   |            | 200   | –     |
| IPD 10x160 | 910160IPD200 | 10            | 40                 | 30                      | 160           | 60            | 130                    | ●   |            | 200   | –     |
| IPD 10x180 | 910180IPD200 | 10            | 40                 | 30                      | 180           | 60            | 150                    | ●   |            | 200   | –     |
| IPD 10x200 | 910200IPD200 | 10            | 40                 | 30                      | 200           | 60            | 170                    | ●   |            | 200   | –     |
| IPD 10x220 | 910220IPD100 | 10            | 40                 | 30                      | 220           | 60            | 190                    | ●   |            | 100   | –     |
| IPD 10x260 | 910260IPD100 | 10            | 40                 | 30                      | 260           | 60            | 230                    | ●   |            | 100   | –     |

\* Setting depth  $h_{ef} = 50$  mm for aerated concrete, which reduces the thickness of fixture  $t_{fix}$  accordingly

### Loads $F_{per}$ according to ETA

| Type   | Concrete<br>C12/15<br>$F_{per}$ [kN] | Concrete<br>$\geq C20/25$<br>$F_{per}$ [kN] | Solid brick<br>Mz<br>$F_{per}$ [kN] | Solid sand-lime<br>brick KS<br>$F_{per}$ [kN] | Hollow sand-<br>lime brick KSL<br>$F_{per}$ [kN] | Hollow brick<br>HLz<br>$F_{per}$ [kN] | Aerated<br>concrete<br>AAC2<br>$F_{per}$ [kN] |
|--------|--------------------------------------|---------------------------------------------|-------------------------------------|-----------------------------------------------|--------------------------------------------------|---------------------------------------|-----------------------------------------------|
| IPD 8  | 0,17                                 | 0,25                                        | 0,25                                | 0,25                                          | 0,25                                             | 0,20                                  | 0,25                                          |
| IPD 10 | 0,17                                 | 0,25                                        | 0,25                                | 0,20                                          | 0,20                                             | 0,20                                  | 0,17                                          |

$F_{per}$ : Permissible loads according to ETA assessment incl. safety factors

The safety coefficients are 2,0 and 1,5

### Example of anchor arrangement for polystyrene hard foam boards 800x625mm, 1000x500mm

|          |                                                               |  |
|----------|---------------------------------------------------------------|--|
| Standard | Area: 4 St./m <sup>2</sup><br>Edge area: 8 St./m <sup>2</sup> |  |
|----------|---------------------------------------------------------------|--|

For other types of insulation boards, please contact the manufacturer

Edge zone | Normal zone