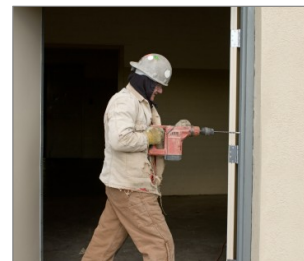


## KDS Frame fixing with long expansion zone - countersunk pozi-drive

### Frame fixing with long expansion zone



### Product information

#### Features and benefits

- Durable, high quality PA6 grade nylon plug for extended fixing life
- Tough nylon sleeve prevents frame distortion during tightening
- Zig-zag design ensures enhanced expansion
- Special design with anti-rotation lugs
- No marking out required - drill straight through the frame

#### Applications

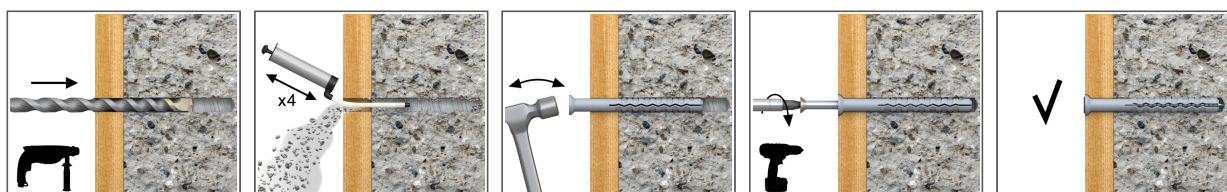
- Door and window frames

#### Base materials

##### Approved for use in:

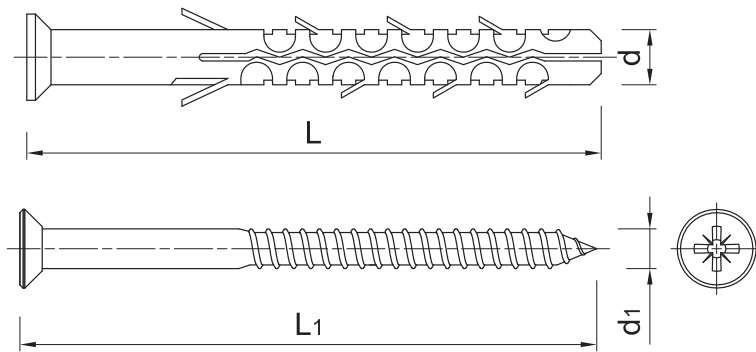
- Hollow Brick
- Aerated Concrete Block

### Installation guide



1. Drill a hole of required diameter and depth
2. Lightly tap the plug through the fixture into hole with a hammer, until fixing depth is reached
3. Tighten the screw

## Product information



| Size | Product Code | Plug     |        | Screw          |        | Fixture          |                |
|------|--------------|----------|--------|----------------|--------|------------------|----------------|
|      |              | Diameter | Length | Diameter       | Length | Max. thickness   | Hole diameter  |
|      |              | d        | l      | d <sub>1</sub> | L1     | t <sub>fix</sub> | d <sub>f</sub> |
| [mm] |              |          |        |                |        |                  |                |
| Ø8   | KDS-08100    | 8        | 100    | 4.9            | 110    | 40               | 9              |
|      | KDS-08120    | 8        | 120    | 4.9            | 130    | 60               | 9              |
|      | KDS-08140    | 8        | 140    | 4.9            | 150    | 80               | 9              |
| Ø10  | KDS-10080    | 10       | 80     | 6.8            | 90     | 20               | 11             |
|      | KDS-10100    | 10       | 100    | 6.8            | 110    | 40               | 11             |
|      | KDS-10120    | 10       | 120    | 6.8            | 130    | 60               | 11             |
|      | KDS-10140    | 10       | 140    | 6.8            | 150    | 80               | 11             |
|      | KDS-10160    | 10       | 160    | 6.8            | 170    | 100              | 11             |
|      | KDS-10200    | 10       | 200    | 6.8            | 210    | 140              | 11             |
|      | KDS-10240    | 10       | 240    | 6.8            | 250    | 180              | 11             |

## Installation data

| Size                         |                  |      | Ø8 | Ø10 |
|------------------------------|------------------|------|----|-----|
| Fixing diameter              | d                | [mm] | 8  | 10  |
| Hole diameter in substrate   | d <sub>0</sub>   | [mm] | 8  | 10  |
| Min. hole depth in substrate | h <sub>0</sub>   | [mm] | 70 | 70  |
| Min. installation depth      | h <sub>nom</sub> | [mm] | 60 | 60  |
| Min. substrate thickness     | h <sub>min</sub> | [mm] | 80 | 80  |
| Min. spacing                 | s <sub>min</sub> | [mm] | 30 | 30  |
| Min. edge distance           | c <sub>min</sub> | [mm] | 30 | 30  |

## Basic performance data

Performance data for single fixing without influence of edge distance and spacing

| Substrate                                  |      | Aerated concrete 500 | Hollow brick 3.5MPa | Long expansion zone perforated brick (eg. porotherm) 400 |
|--|------|----------------------|---------------------|--|
| <b>MEAN ULTIMATE LOAD F<sub>Ru,m</sub></b> |      |                      |                     |  |
| Ø8   | [kN] | 1.76                 | 0.86                | 0.51   |
| Ø10  | [kN] | 2.63                 | 1.82                | 1.56   |
| <b>CHARACTERISTIC LOAD F<sub>Rk</sub></b>  |      |                      |                     |  |
| Ø8   | [kN] | 1.51                 | 0.66                | 0.33   |
| Ø10  | [kN] | 1.41                 | 1.44                | 1.04   |
| <b>DESIGN LOAD F<sub>Rd</sub></b>          |      |                      |                     |  |
| Ø8   | [kN] | 0.76                 | 0.26                | 0.13   |
| Ø10  | [kN] | 0.71                 | 0.58                | 0.42   |
| <b>RECOMMENDED LOAD F<sub>rec</sub></b>    |      |                      |                     |  |
| Ø8   | [kN] | 0.50                 | 0.20                | 0.10   |
| Ø10  | [kN] | 0.50                 | 0.40                | 0.30   |

## Product commercial data

| Product Code | Plug          | Screw       |     | Quantity [pcs] |        |       | Weight [kg] |        |       | Bar Codes     |
|--------------|---------------|-------------|-----|----------------|--------|-------|-------------|--------|-------|---------------|
|              | Diameter [mm] | Length [mm] | Box | Outer          | Pallet | Box   | Outer       | Pallet |       |               |
| KDS-08100    | 8             | 4.9         | 110 | 50             | 800    | 19200 | 0.81        | 12.9   | 340.5 | 5906675109725 |
| KDS-08120    | 8             | 4.9         | 130 | 50             | 800    | 19200 | 0.98        | 15.7   | 406.1 | 5906675109824 |
| KDS-08140    | 8             | 4.9         | 150 | 50             | 600    | 14400 | 1.16        | 13.9   | 364.4 | 5906675109923 |
| KDS-10080    | 10            | 6.8         | 90  | 50             | 600    | 14400 | 1.19        | 14.3   | 373.0 | 5906675109121 |
| KDS-10100    | 10            | 6.8         | 110 | 25             | 400    | 7200  | 0.78        | 12.6   | 255.9 | 5906675109220 |
| KDS-10120    | 10            | 6.8         | 130 | 25             | 400    | 9600  | 0.95        | 15.2   | 393.5 | 5906675109329 |
| KDS-10140    | 10            | 6.8         | 150 | 25             | 300    | 7200  | 1.10        | 13.2   | 347.4 | 5906675109428 |
| KDS-10160    | 10            | 6.8         | 170 | 25             | 300    | 7200  | 1.24        | 14.9   | 387.4 | 5906675109527 |
| KDS-10200    | 10            | 6.8         | 210 | 25             | 200    | 4800  | 1.57        | 12.6   | 332.2 | 5906675109626 |
| KDS-10240    | 10            | 6.8         | 250 | 25             | 200    | 4800  | 1.87        | 15.0   | 389.1 | 5906675109022 |