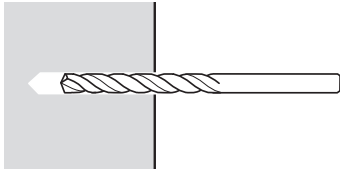




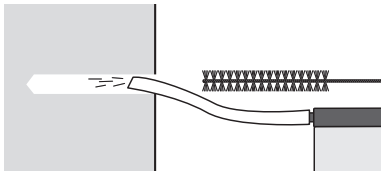
### Installation:

For fixing  
in solid brick and concrete

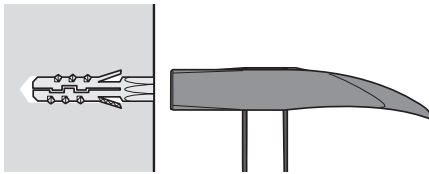
**1** Drill a hole with correct diameter and depth



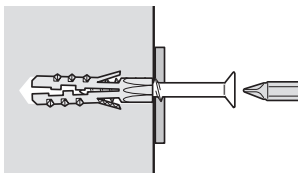
**2** Clean the drilled hole thoroughly



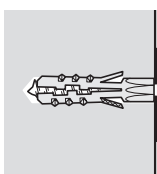
**3** Insert Super - use a hammer if necessary



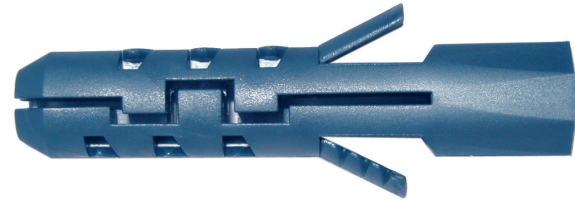
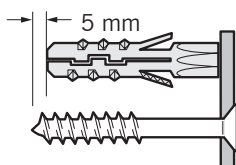
**4** Use screw size as recommended. When tightened, the plug is pressed against the drilled hole



**5** The installation is finished



**note** Always use a screw which is min. 5 mm longer than the plug + the fixing object



### Advantages:

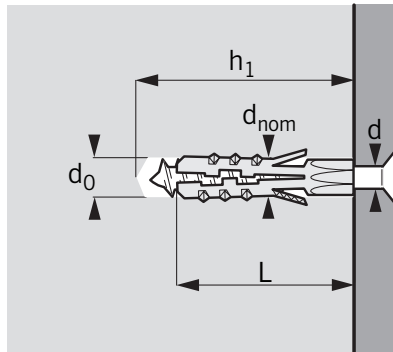
High load capacities in concrete and solid brick.  
Rotation in the drilled hole is prevented by the octagonal neck and strong wings.  
Useable as through fixing due to knock-in protection.  
The construction of Expandet Super ensures self-centering of the screw.

### Materials:

Expandet Super is made of Nylon (PA6).  
Withstands temperatures from -40°C to +80°C.

### Further information:

See overleaf



| Type            | Dimensions                    |                  |  | Fixing                 |                                 | Load Capacities                     |                            |  |  |
|-----------------|-------------------------------|------------------|--|------------------------|---------------------------------|-------------------------------------|----------------------------|--|--|
|                 | $d_{nom}$                     | L                | $d$<br><small>Chipboard &amp; Wood</small> | $d_0$                  | $h_1$                           | <b>Concrete 25 N/mm<sup>2</sup></b> |                            | <b>Solid brick 15 N/mm<sup>2</sup></b>   |  |
|                 | Outside diameter of anchor mm | Anchor length mm | Screw diameter mm                          | Drill hole diameter mm | Depth of drilled hole (Min.) mm | Recommended tension load kN*        | Recommended shear load kN* | Recommended tension load kN <sup>◇</sup> | Recommended shear load kN <sup>◇</sup> |
| Expandet Super® |                               |                  |  |                        |                                 |                                     |                            |  |  |
| 4x20            | 4                             | 20               | 2,0- <b>3,0</b>                            | 4                      | 30                              | (0,3)                               | (0,1)                      | (0,1)                                    | (0,1)                                  |
| 5x25            | 5                             | 25               | 2,5- <b>4,0</b>                            | 5                      | 35                              | 1,2 (0,3)                           | 0,3                        | 0,5 (0,3)                                | 0,3                                    |
| 6x30            | 6                             | 30               | 3,5- <b>5,0</b>                            | 6                      | 40                              | 1,3 (0,6)                           | 0,6                        | 0,9 (0,6)                                | 0,4                                    |
| 7x35            | 7                             | 35               | 4,0- <b>5,5</b>                            | 7                      | 45                              | 1,4 (0,6)                           | 0,6                        | 1,0 (0,6)                                | 0,6                                    |
| 8x40            | 8                             | 40               | 4,5- <b>6,0</b>                            | 8                      | 50                              | 1,6 (1,0)                           | 1,2                        | 1,3 (1,0)                                | 1,2                                    |
| 10x50           | 10                            | 50               | 6,0- <b>8,0</b>                            | 10                     | 60                              | 3,2                                 | 2,4                        | 1,7                                      | 1,4                                    |
| 12x60           | 12                            | 60               | 8,0- <b>10,0</b>                           | 12                     | 70                              | 4,0                                 | 3,6                        | 2,2                                      | 2,0                                    |
| 14x70           | 14                            | 70               | 10,0- <b>12,0</b>                          | 14                     | 80                              | 5,0                                 | 4,7                        | -  | -                                      |
| 16x80           | 16                            | 80               | 12,0- <b>14,0</b>                          | 16                     | 90                              | 5,8                                 | 5,8                        | -  | -                                      |
| 20x90           | 20                            | 90               | 14,0- <b>16,0</b>                          | 20                     | 100                             | 8,0                                 | 6,5                        | -  | -                                      |

♦ Recommended loads are valid for concrete  $\geq C 20/25$ , not influenced by edge distance and/or spacing, and only together with largest recommended woodscrew.  
 Loads in ( ) are valid for largest recommended chipboardscrew. Shear loads are only valid together with largest recommended wood screw.  
 Safety factor is included ( $\geq 3$ ). 1 kN  $\approx$  100 kg.

◇ Recommended loads are valid for solid brick with a compressive strength  $\geq 15 \text{ N/mm}^2$ , not influenced by edge distance and/or spacing, and only together with largest recommended woodscrew.  
 Loads in ( ) are valid for largest recommended chipboardscrew. Shear loads are only valid together with largest recommended wood screw.  
 Safety factor is included ( $\geq 3$ ). 1 kN  $\approx$  100 kg.

**Important:** See Expandet's "Principles for fastening" for general information on fastening as well as information on limited liability.  
 (Can be downloaded at [www.expandet.com](http://www.expandet.com))



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