

# REMARKS

on fastening

**ASSY<sup>®</sup>plus VG 4 ETX Full-thread screws**

**Screw diameter of 14 mm**



**General remarks:**

ASSYplus VG 4 ETX screws with a diameter of 14 mm can be screwed into timber components made of softwood with a pilot drilling of at least 10% of the screw length or into completely predrilled timber components. The pilot hole makes the setting of the screw much easier. In timber components made of beech, ash or oak wood, ASSYplus VG 4 ETX d = 14 mm may only be screwed into predrilled holes. The diameter of the predrilled hole is specified in Table 1 of ETA-11/0190.

| Thread outer diameter in [mm] | diameter of the holes to be predrilled with a tolerance of $\pm 0.1$ mm [mm] |  |
|-------------------------------|--|--|
|                               | timber components made of softwood   | timber components made of beech or oak |
| 14.0                          | 8.0  | 9.0                                    |

Diameter of the holes to be predrilled in softwood, beech, ash or oak for an ASSYplus VG 4 ETX d = 14 mm according to ETA-11/0190

When screwing into narrow beams, the pre-drilled hole must be aligned parallel to the lateral surface of the beam to minimise screw flow. Using a drill press and a robust 305 mm Smart Step drill bit or a 390 mm auger drill bit is recommended to minimise the screw flow. Extending the length of the pre-drilled pilot hole to e.g. 390 mm rather than using the minimum pre-drilled hole length specified in ETA 11/0190 - 10% of the length of the screw - reduces the risk of screw flow. A run-out may be caused by knots and the setting behaviour or the direction of the pilot hole. We recommend drilling a pilot hole that is as long as the drill bit. Depending on the condition of the cross-section and on whether top and side surface are perpendicular, the use of a box column drill is recommended to obtain an exact run of the pilot hole.

**Required for predrilling:**

- Portable drill press/drilling station, screwing or drilling aid
- Twist drill bit HSS DIN 1869 R2 SMART STEP 8 x 305 mm, art. no. 0624 950 800 or 9 x 305 mm, art. no. 0624 950 900 or
- Auger drill bit 8 x 460 mm, art. no. 0650 770 839

**Required for fastening:**

- Hand drill EHB32/2 R R/L, art. no. 0997 676 867
- Adapter MK3/square 1/2 inch, art. no. 0997 676 881 for direct use
- Socket wrench 1/2 inch external TX E12 (short version) art. no. 0715 132 12
- Bit holder for ASSYplus VG 4 ETX screws BITS-ASSY-D14-E12-1/2ZO art. no. 0165 300 98

**Note:** Before countersinking the head or screwing the head flush to the wood or metal surface, the bit holder, which is attached with a magnet, must be removed.


**ASSYplus VG 4 ETX d 14 mm range:**

| Head shape                    | d in mm | l in mm             | Drive | Surface             | Article no.         | PU/pc. | Packaging    |
|-------------------------------|---------|---------------------|-------|---------------------|---------------------|--------|--------------|
| External hexagonal round head | 14      | 800                 | E12   | A3K blue passivated | <b>0165 314 800</b> | 15     | Packing tape |
|                               |         | <b>0165 314 850</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 900</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 950</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 100</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 105</b> |       |                     | 10                  |        |              |
|                               |         | <b>0165 314 110</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 120</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 130</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 140</b> |       |                     |                     |        |              |
|                               |         | <b>0165 314 150</b> |       |                     |                     |        |              |

**Note:** For dimensioning and use, please refer to the General Information on the use of ASSY wood screws and the underlying approvals and standards.