



Threaded insert
self-tapping or thread forming
with hexagonal socket

Ensat®-SHI
Works Standard
309 2

Application

Threaded insert Ensat®-SHI with cutting slot is a fastener designed to create wear- and vibrationresistant screw connections capable of withstanding high loads in:

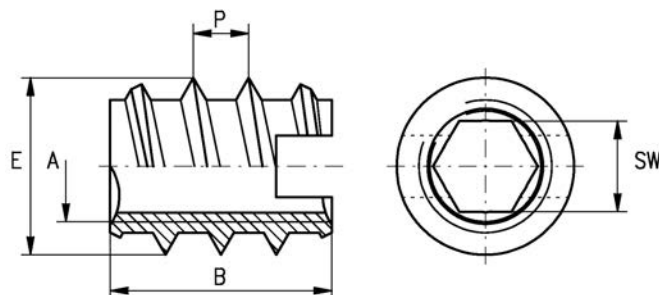
- Hardwood
- Softwood
- Soft plastic and
- Composite materials

Hexagonal socket

The Ensat® is inserted via the hexagonal socket, permitting the achievement of short installation time.

Other benefits: More simple driving tools and machines which require only clockwise rotation.

The Ensat® can be extracted without problems before the recycling process.



Dimensions in mm

| Article number | Internal thread A | External thread | | Length B | Hexagonal socket SW +0,1 | Guideline values for receiving hole dia. | | Minimum borehole depth for blind holes T |
|-----------------|----------------------|-----------------|-----|-------------|-----------------------------|--|--------------------------|---|
| | | E | P | | | Softwood ≥ L | Plastic Hardwood L | |
| 309 200 040 ... | M 4 | 7 | 2,5 | 10 | 3,2 | 5,1 | 5,2 to 5,3 | 13 |
| 309 200 050 ... | M 5 | 9 | 3 | 12 | 4,1 | 6,6 | 6,7 to 6,9 | 15 |
| 309 200 060 ... | M 6 | 10 | 4 | 14 | 4,9 | 7,6 | 7,7 to 7,9 | 17 |
| 309 200 080 ... | M 8 | 13 | 4 | 20 | 6,6 | 9,9 | 10,1 to 10,3 | 23 |
| 309 200 100 ... | M 10 | 16 | 5 | 23 | 8,3 | 12,4 | 12,6 to 12,8 | 26 |

Example for finding the article number

Self-tapping threaded insert Ensat®-SHI to Works Standard 309 2 with internal thread A = M5 made of brass: Ensat®-SHI 309 200 050.800

Materials

Case-hardened steel, zinc plated, blue passivated
Brass

Article-No. (**fourth** group of digits) ... 110
Article-No. (**fourth** group of digits) ... 800

Other materials, designs (e. g. fine thread) and finishes on request.

Tolerance

ISO 2768-m

Thread

Internal thread A: as per ISO 6H
External thread E: Special thread, as per KKV specification

Countersink

Guideline values for countersink N (see page 5, fig. 5): **N = 1,0 to 2,0 + E** (E = External dia. of the Ensat®). because of the larger diameter of the countersink, **the bore hole (L) countersink with 90°.**