# Countersunk head PZ - HI-LO - pointed

Direct fastening into plastics. Reference geometry: Kilton 172. Check the component material, pilot hole and assembly conditions.

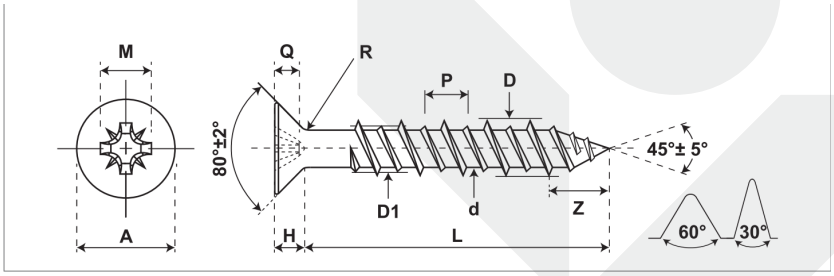
HI-LO



Representative photo: the technical drawing defines the execution’s drive, point and dimensions.

Geometry reference: Kilton 172 · Thread: HI-LO · Drive: PZ · Units: mm

## Technical drawing and legend




| | |
|---|---|
| A | Head diameter |
| H | Head height |
| Q | Recess depth |
| M | Recess width |
| R | Underhead fillet radius |
| D1 | Major diameter of the low thread |
| D | Major diameter of the high thread |
| d | Minor diameter |
| P | Pitch between high-thread crests |
| Z | Axial extent of the point |
| L | Length to specify in the enquiry; reference as shown in the drawing |

Kilton 172 drawing, not to scale.

## Dimensions

Dimensions in mm, except drive size. Min / max pairs are dimensional limits for Kilton 172. A dash means the manufacturer does not state a value. Specify the required length in the enquiry.

| Nominal diameter | A min max | H | Q min max | Drive n° | M | R |
|---|---|---|---|---|---|---|
| 2,5 | 4,00 / 4,30 | 1,30 | 1,02 / 1,32 | 1 | 2,50 | 0,80 |
| 3 | 4,60 / 4,90 | 1,50 | 1,25 / 1,55 | 1 | 2,70 | 0,90 |
| 3,5 | 5,20 / 5,50 | 1,70 | 1,40 / 1,70 | 1 | 3,00 | 1,10 |
| 4 | 6,44 / 6,80 | 2,10 | 1,62 / 2,12 | 2 | 4,20 | 1,40 |
| 4,5 | 7,14 / 7,50 | 2,30 | 2,03 / 2,53 | 2 | 4,60 | 1,50 |
| 5 | 7,74 / 8,10 | 2,50 | 2,11 / 2,62 | 2 | 4,70 | 1,60 |
| 5,5 | 9,14 / 9,50 | 3,00 | 2,59 / 3,10 | 2 | 5,10 | 1,90 |
| 6 | 10,37 / 10,80 | 3,40 | 2,95 / 3,53 | 3 | 6,80 | 2,10 |

| Nominal diameter | D1 | D min max | d min max | P | Z |
|---|---|---|---|---|---|
| 2,5 | - | 2,45 / 2,65 | - / - | - | - |
| 3 | 2,49 | 2,95 / 3,15 | 1,75 / 1,95 | 2,10 | 2,30 |
| 3,5 | 2,74 | 3,35 / 3,65 | 1,85 / 2,15 | 2,50 | 2,60 |
| 4 | 3,14 | 3,80 / 4,10 | 2,15 / 2,45 | 2,70 | 3,00 |
| 4,5 | 3,44 | 4,35 / 4,65 | 2,35 / 2,65 | 2,80 | 3,20 |
| 5 | 3,79 | 4,80 / 5,10 | 2,70 / 3,00 | 3,00 | 3,70 |
| 5,5 | 4,29 | 5,30 / 5,60 | 3,20 / 3,50 | 3,00 | 4,30 |
| 6 | 4,79 | 5,80 / 6,10 | 3,60 / 3,90 | 3,10 | 4,80 |

## Materials and finishes

| Material | Finish | Source |
|---|---|---|
| C1018-C1022 steel | Cr3 zinc plating | Kilton 172 |

Dueemme confirms material, finish and availability in the quotation. Steel execution dimensions do not automatically apply to stainless versions.

## Documentation

| Document | Status |
|---|---|
| Declaration of conformity | Subject to order agreement |
| Material certificate | Subject to order agreement |
| EN 10204 2.2 test report | Subject to order agreement |
| EN 10204 3.1 inspection certificate | Subject to order agreement |
| Dimensional inspection report | Subject to order agreement |
| Coating report | Subject to order agreement |
| Other documentation | Subject to order agreement |

Batch documents are not automatically included: specify your requirements in the RFQ.

## Application guidance

Pilot hole and assembly torque depend on the polymer, fillers, wall thickness and boss geometry. Validate fastening on the actual component; do not automatically apply metric screw tightening torques.

HI-LO and 30° screws have different profiles. PT, DELTA PT and ecosyn plast trade names do not establish automatic equivalence with the geometry shown here.

## Technical sources

Kilton 172