# Hexagon head self-drilling screw, point no. 5

Drill point and thread for fastening in one operation. Dimensions and tolerances refer to the stated execution; materials, finishes and drilling conditions are described separately.

Self-drilling screws

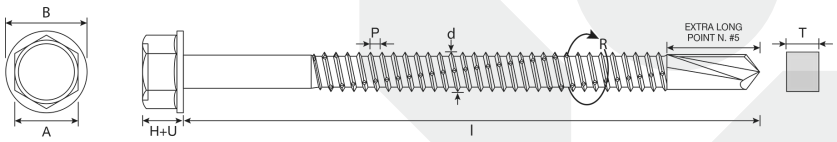
Reference: Ambrovit 81171 · Thread: Self-drilling · Drive: External hexagon · Units: mm



Representative geometry photograph. Material and finish are specified separately.

## Technical drawing and legend

Ambrovit reference execution 81171




| | |
|---|---|
| A | Width across flats |
| B | Flange or wafer head diameter |
| H+U | Combined head and flange height |
| d | External thread diameter |
| P | Thread pitch |
| R | Indicative driving speed (rpm) |
| T | Drilling capacity for the specified execution |
| l | Required length, to be specified in the quotation |

Drawing not to scale.

https://www.dueemmesidol.it/en/products/standard-fasteners/self-drilling-screws/esagonale-punta-5/

## Dimensions

Dimensions in mm, except drive size. Min./Max. and approximate values (~) follow the Ambrovit catalogue for this execution and do not automatically apply to other versions.

| Nominal diameter | Limit | A | B | H+U | d | P |
|---|---|---|---|---|---|---|
| 5,5 | Min. | 7,78 | 10,00 | 5,15 | 5,31 | ~1,81 |
| 5,5 | Max | 8,00 | 11,00 | 5,45 | 5,46 | ~1,81 |
| 6,3 | Min. | 9,78 | 12,20 | 6,15 | 6,10 | ~1,81 |
| 6,3 | Max | 10,00 | 13,20 | 6,45 | 6,25 | ~1,81 |

## Materials and finishes

Executions documented by the named suppliers. Dueemme confirms material, coating and actual availability in the quotation. Not every combination applies to every diameter or geometry.

| Material | Finish / execution | Reference |
|---|---|---|
| C1022 steel | zinc plating with Cr3 passivation | Ambrovit 81171 |
| 1018-1022 steel | Cr3 zinc plating | Kilton 046 |

## 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.

## Drilling and application conditions

The R and T values below apply only to the Ambrovit C1022 steel execution. R is an indicative laboratory value: speed, substrate thickness and strength must be checked for the application. Where T depends on length, capacity is specified for the requested execution.

| Diameter | R (rpm) | T (mm) / condition |
|---|---|---|
| 5,5 | 2.000 | 12,00 |
| 6,3 | 2.000 | 12,00 |

Declared hardness for Ambrovit 81171: surface HV ≥ 560; core HV 270-425.

## Technical references

Ambrovit 81171 · Kilton 046 · Tecfi AB04