Pan head TX self-drilling screw

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

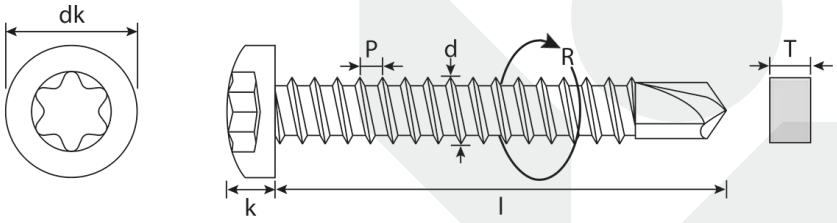
Reference: Ambrovit 81186 · Thread: Self-drilling · Drive: TX · Units: mm



Representative geometry photograph. Material and finish are specified separately.

Technical drawing and legend

Ambrovit reference execution 81186



dk	Head diameter
k	Head height
d	External thread diameter
P	Thread pitch
TX	Hexalobular recess number
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.

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	dk	k	d	P	TX
3,5	Min.	6,54	2,35	3,35	~1,30	T15
3,5	Max	6,90	2,60	3,53	~1,30	T15
3,9	Min.	7,14	2,55	3,73	~1,30	T15
3,9	Max	7,50	2,80	3,91	~1,30	T15
4,2	Min.	7,84	2,75	4,04	~1,40	T20
4,2	Max	8,20	3,05	4,22	~1,40	T20
4,8	Min.	9,14	3,25	4,62	~1,60	T25
4,8	Max	9,50	3,55	4,80	~1,60	T25
5,5	Min.	10,37	3,65	5,28	~1,80	T25
5,5	Max	10,80	3,95	5,46	~1,80	T25

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 81186
Stainless steel A2	To be specified in the quotation	King
Stainless steel A1 / A2; A4	Executions for soft metals; finish to be specified	Tobsteel M
1018-1022 steel	Cr3 zinc plating	Kilton 041TX

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
3,5	2.250	To be determined from the point and required length
3,9	2.250	To be determined from the point and required length
4,2	2.250	To be determined from the point and required length
4,8	2.250	To be determined from the point and required length
5,5	2.250	4,00

Declared hardness for Ambrovit 81186: surface HV ≥ 560; core HV 270-425. Solid stainless executions for soft metals, such as aluminium, do not inherit case-hardened steel drilling values. Bimetallic screws require separate verification of the body and drill point.

Technical references

Ambrovit 81186 · King · Tobsteel · Kilton 041TX · Inoxmare