

TAPSCREW BLUE - CONCRETE SCREW ANCHOR

Usage:

- Interior Hand Rails,
- Metal door frames, Window installations
- Light fittings, Interior hand rails

Advantages:

- Available in 2 Head Types
- No expansion forces
- High and Low thread for increased grip
- Removable (reusable in wood)
- Good corrosion protection

Method of marking TKS anchors

Symbol	Screw diameter d [mm]	Screw length L [mm]
TKS06057C	6	57
TKS06045H	6	45

Technical parameters of the TKS-C screw

Product code	Screw diameter	Hole diameter in base material	Minimum hole depth	Screw length	Max. thickness of the fixed element	Maximum tightening torque	DRIVE
	[mm] d	[mm] d _o					
TKS05032C	5	4	35	32	7	N/A	PH2
TKS05045C	5	4	35	45	20	N/A	PH2
TKS05070C	5	4	35	70	45	N/A	PH2
TKS05082C	5	4	35	82	57	N/A	PH2
TKS06045C	6	5	35	45	20	N/A	PH2
TKS06057C	6	5	35	57	32	N/A	PH2
TKS06070C	6	5	35	70	45	N/A	PH2
TKS06100C	6	5	35	100	75	N/A	PH2
TKS06125C	6	5	35	125	100	N/A	PH2

Technical parameters of the TKS-H screw

Product code	Screw diameter	Hole diameter in base material	Minimum hole depth	Screw length	Max. thickness of the fixed element	Maximum tightening torque	DRIVE
	[mm] d	[mm] d _o					
TKS05032H	5	4	35	32	7	N/A	6.5
TKS05045H	5	4	35	45	20	N/A	6.5
TKS05057H	5	4	35	57	32	N/A	6.5
TKS06032H	6	5	35	32	7	N/A	8
TKS06045H	6	5	35	45	20	N/A	8
TKS06057H	6	5	35	57	32	N/A	8
TKS06070H	6	5	35	70	45	N/A	8
TKS06082H	6	5	35	82	57	N/A	8
TKS06100H	6	5	35	100	75	N/A	8



HEAD STYLES

- Slotted Hex Washer Head
- Phillips Flat Head

HEAD MARKING

Hex Washer Head

Phillips Flat Head

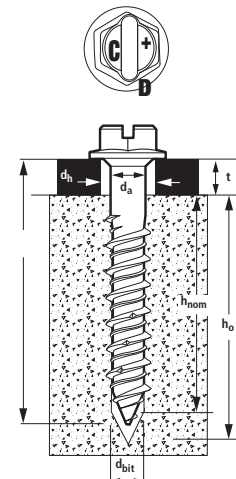
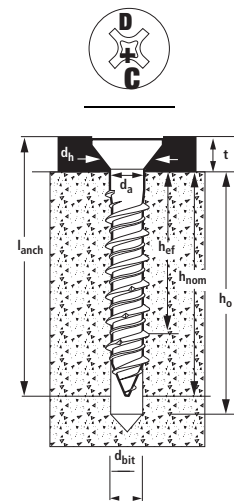


Anchor Material:

Carbon Steel with perma coating

Substrate material:

Normal weight concrete, solid brick, Lightweight concrete, Hollow concrete, Grouted concrete and wood.



REFERENCE PERFORMANCE DATA

Ultimate / Characteristic loads in kN

Technical Data:		TLS-C and TKS-H			
Parameter	TENSILE		SHEAR		WHERE:
Nominal Diameter (mm)	5	6	5	6	$N_{Ru,m}$ = Ultimate tensile load
Nominal Embedment Depth h_i (mm)	25				N_{Rk} = Characteristic tensile load
Ultimate Load, $N_{Ru,m} / V_{Ru,m}$	3.70	3.90	5.10	7.70	$V_{Ru,m}$ = Ultimate Shear load
Anchor spacing S_{min} [mm]	2.60	2.90	4.20	6.30	V_{Rk} = Characteristic shear load

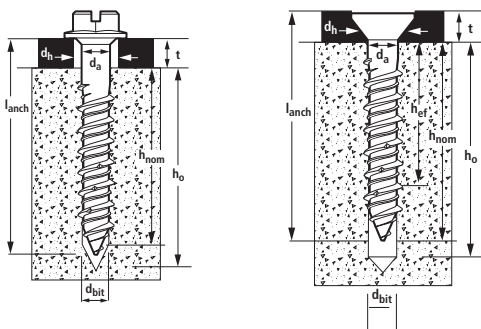
Design loads in kN

Technical Data:		TLS-C and TKS-H			
Parameter	TENSILE, N_{Rd}		SHEAR, V_{Rd}		WHERE:
Nominal Diameter (mm)	5	6	5	6	Y_{mc} = Partial safety factor for tension = 2.0,
Nominal Embedment Depth h_i (mm)	25				Y_{ms} = Partial safety factor for shear = 1.5,
Calculated value	1.30	1.45	2.80	4.20	N_{Rd} = Tensile design load V_{Rd} = Shear design load

Recommended loads / Safety working loads in kN

Technical Data:		TLS-C and TKS-H			
Parameter	TENSILE, N_{rec}		SHEAR, V_{rec}		WHERE:
Nominal Diameter (mm)	5	6	5	6	Y_m = Partial factor of safety = 1.8.
Nominal Embedment Depth h_{nom} (mm)	25				Y_f = Partial factor of safety = 1.5,
Calculated value	1.30	1.45	2.80	4.20	N_{Rec} = Recommended tensile capacity per fixing V_{Rec} = Recommended shear capacity per fixing

Installation diagram of TKS anchors



Installation diagram of TKS anchors

