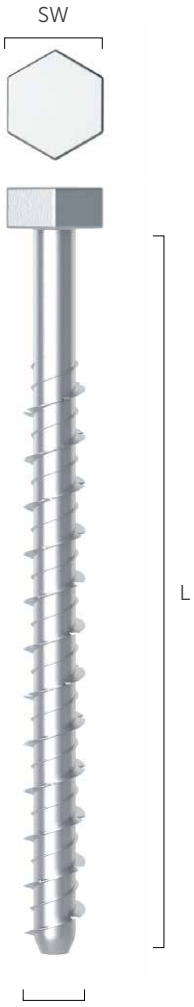
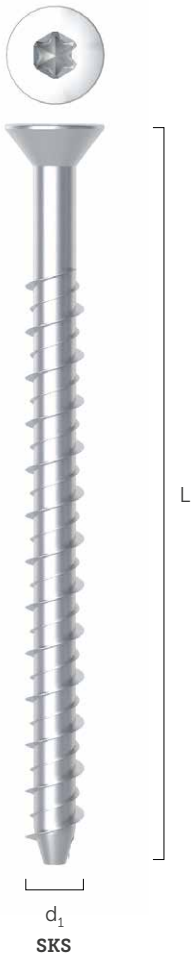


SKR-HT



SKS

SKR-HT | SKS

SCREW ANCHORS

- Suitable for uncracked concrete
- Hexagonal head of increased size
- Thread is suitable for dry fastening
- Electrogalvanized carbon steel
- Through fastening
- No fastener expansion

Zn ELECTRO PLATED

SKR-HT

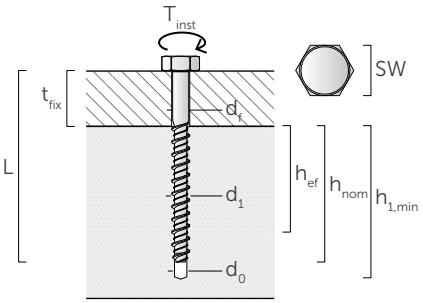
hexagonal head

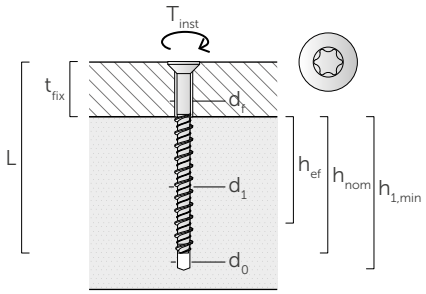
d_1 [mm]	CODE	L [mm]	t_{fix} [mm]	$h_{1,min}$ [mm]	h_{nom} [mm]	d_0 [mm]	$d_{f\ timber}$ [mm]	$d_{f\ steel}$ [mm]	SW [mm]	T_{inst} [Nm]	pcs
7,5	SKR7560	60	10	60	50	6	8	8-10	13	15	50
	SKR7580	80	30	60	50	6	8	8-10	13	15	50
	SKR75100	100	20	90	80	6	8	8-10	13	15	50
10	SKR1080H	80	30	65	50	8	10	10-12	16	25	50
	SKR10100H	100	20	95	80	8	10	10-12	16	25	25
	SKR10120H	120	40	95	80	8	10	10-12	16	25	25
	SKR10140H	140	60	95	80	8	10	10-12	16	25	25
	SKR10160	160	80	95	80	8	10	10-12	16	25	25
12	SKR12100H	100	20	100	80	10	12	12-14	18	50	25
	SKR12120H	120	40	100	80	10	12	12-14	18	50	25
	SKR12140H	140	60	100	80	10	12	12-14	18	50	25
	SKR12160H	160	80	100	80	10	12	12-14	18	50	25
	SKR12200H	200	120	100	80	10	12	12-14	18	50	25
	SKR12240	240	160	100	80	10	12	12-14	18	50	25
	SKR12280	280	200	100	80	10	12	12-14	18	50	25
	SKR12320	320	240	100	80	10	12	12-14	18	50	25
	SKR12400	400	320	100	80	10	12	12-14	18	50	25

SKS

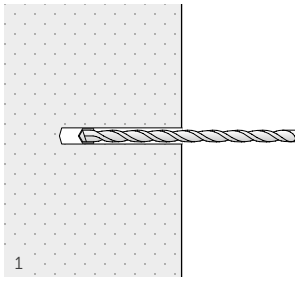
countersunk head

d_1 [mm]	CODE	L [mm]	t_{fix} [mm]	$h_{1,min}$ [mm]	h_{nom} [mm]	d_0 [mm]	$d_{f\ timber}$ [mm]	$d_{f\ steel}$ [mm]	TX	T_{inst} [Nm]	pcs
7,5	SKS7560	60	10	60	50	6	8	-	40	-	50
	SKS7580	80	30	60	50	6	8	-	40	-	50
	SKS75100	100	20	90	80	6	8	-	40	-	50
	SKS75120	120	40	90	80	6	8	-	40	-	50
	SKS75140	140	60	90	80	6	8	-	40	-	50
	SKS75160	160	80	90	80	6	8	-	40	-	50

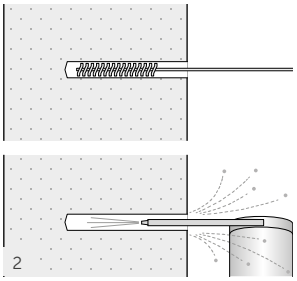




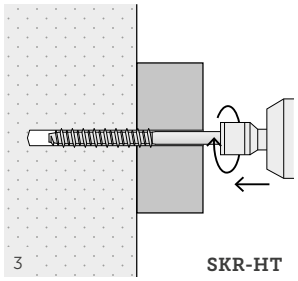
ASSEMBLY

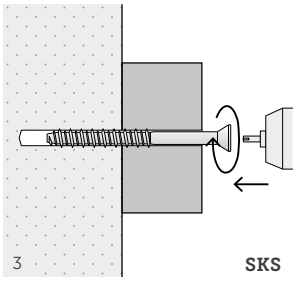


Drill a hole in rotary percussion mode

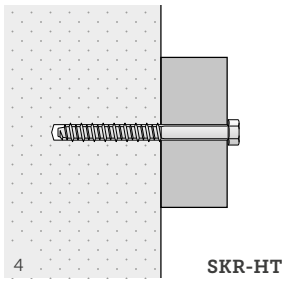


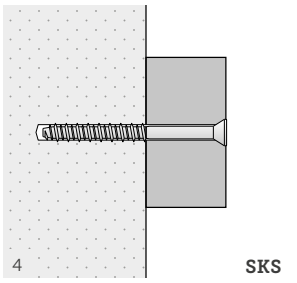
Clean the hole



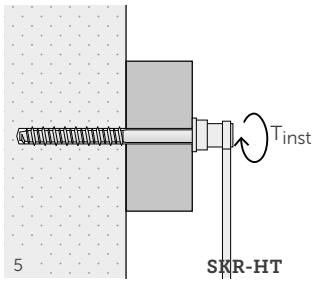


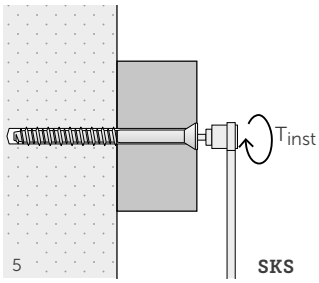
Position the object to be fixed and install the screw with a pulse screw gun





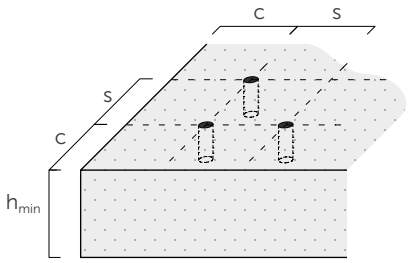
Ensure the anchor head is in complete contact with the object to be fixed





Check the tightening torque T_{inst}

INSTALLATION



			SKR-HT			SKS
Spacing and distances for tensile loads			**Ø7,5**	**Ø10**	**Ø12**	**Ø7,5**
Minimum spacing	$s_{min,N}$	[mm]	50	60	65	50
Minimum edge distance	$c_{min,N}$	[mm]	50	60	65	50
Minimum thickness of concrete support	h_{min}	[mm]	100	110	130	100
Critical spacing	$s_{cr,N}$	[mm]	100	150	180	100
Critical edge distance	$c_{cr,N}$	[mm]	50	70	80	50

Spacing and distances for shear loads			**Ø7,5**	**Ø10**	**Ø12**	**Ø7,5**
Minimum spacing	$s_{min,V}$	[mm]	50	60	70	50
Minimum edge distance	$c_{min,V}$	[mm]	50	60	70	50
Minimum thickness of concrete support	h_{min}	[mm]	100	110	130	100
Critical spacing	$s_{cr,V}$	[mm]	140	200	240	140
Critical edge distance	$c_{cr,V}$	[mm]	70	110	130	70

For spacing and distances smaller than the critical ones, strength values have to be reduced depending on the installation parameters.

STRUCTURAL VALUES

Valid for a single anchor in thickened C20/25 grade concrete with a thin reinforcing layer when spacing and edge-distance are not limiting parameters.

ADMISSIBLE VALUES

		UNCRACKED CONCRETE		
		tension $N_{1,rec}$ [kN]	*shear*[1] V_{rec} [kN]	*head pull-through* $N_{2,rec}$ [kN]
SKR-HT	*7,5*	*2,13*	*2,50*	*1,19* [2]
	10	*6,64*	*6,65*	*1,86* [2]
	12	*8,40*	*8,18*	*2,83* [2]
SKS	*7,5*	*2,13*	*2,50*	*0,72*

NOTES

(1) When evaluating the anchor global-strength, the shear strength on the element to be fastened (e.g. timber, concrete, ...) must be considered separately based on the material adopted.
(2) All values refer to SKR installed with DIN 9021 (ISO 9073) washer.

GENERAL PRINCIPLES

- Recommended admissible shear and tensile values are compliant with Certificate Nr. 2006/5205/1 released from Politecnico di Milano and obtained by considering a safety factor of 4 for the failure load.