SKR | SKS | SKP

SCREW ANCHOR FOR CONCRETE CE1

SEISMIC C2 ETA-24/0024

SEISMIC PERFORMANCE

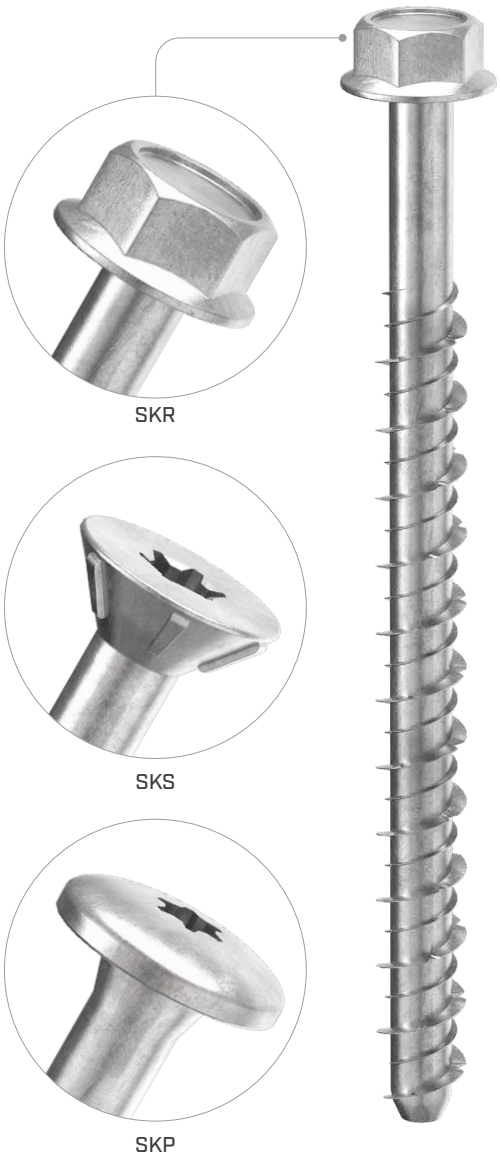
Certified for applications on cracked and non-cracked concrete and in performance class for seismic actions C1 (M10-M16) [d_1 0.40-0.63 inch] and C2 (M12-M16) [d_1 0.48-0.63 inch].

IMMEDIATE STRENGTH

Its operating principle allows the load to be applied after zero waiting times.

OPERATION BY SHAPE

The stresses acting on the anchor are transmitted to the substrate predominantly through the interaction of the geometric conformation of the anchor, in particular, diameter and thread; allowing it to lock into the substrate and guaranteeing the seal.



DIAMETER [in]	0.24 **0.24** – **0.63** 0.63
LENGTH [in]	2 1/16 **2 3/8** – **11 7/16** 15 3/4
EXPOSURE CONDITION	EC1 or WET
ATMOSPHERIC CORROSIVITY	C1 C2
WOOD CORROSIVITY	T1 T2
MATERIAL	Zn ELECTRO PLATED electrogalvanized carbon steel

FIELDS OF USE

Fastening of timber or steel elements to supports:

- concrete according to EN 206:2013
- cracked and uncracked concrete

CODES AND DIMENSIONS

SKR - hexagonal washer head

d_1 [mm] [in]	CODE	L [mm]	L [in]	t_{fix} [in]	$h_{1,min}$ [in]	h_{nom} [in]	h_{ef} [in]	d_0 [in]	d_F [in]	T_{inst} [ft·lbs]	$N_{p,uncr}$(*) [lbs]	pcs
8 **0.32** SW 10	**SKR8100**	100	4	1 9/16	2 15/16	2 3/8	1 7/8	7/32	3/8	154	3979	50
10 **0.40** SW 13	**SKR1080**	80	3 1/8	3/8	3 3/8	2 3/4	2 3/16	5/16	1/2	154	5305	50
	SKR10100	100	4	1 3/16	3 3/8	2 3/4	2 3/16	5/16	1/2	154	5305	25
	SKR10120	120	4 3/4	1 15/16	3 3/8	2 3/4	2 3/16	5/16	1/2	154	5305	25
12 **0.48** SW 15	**SKR1290**	90	3 1/2	3/8	4	3 1/8	2 1/2	3/8	9/16	243	6789	25
	SKR12110	110	4 3/8	1 3/16	4	3 1/8	2 1/2	3/8	9/16	243	6789	25
	SKR12150	150	6	2 3/4	4	3 1/8	2 1/2	3/8	9/16	243	6789	25
	SKR12210	210	8 1/4	5 1/8	4	3 1/8	2 1/2	3/8	9/16	243	6789	20
	SKR12250	250	10	6 3/4	4	3 1/8	2 1/2	3/8	9/16	243	6789	15
	SKR12290	290	11 7/16	8 1/4	4	3 1/8	2 1/2	3/8	9/16	243	6789	15
16 **0.63** SW 21	**SKR16130**	130	5 1/8	1 3/16	5 1/2	4 3/8	3 3/8	9/16	11/16	243	8880	10

(*)$N_{p,uncr}$ = pull-out resistance in uncracked concrete (mean test value). Values obtained from pull-out tests. For ASD values the designer shall refer to the relevant standard.

SKS - countersunk head

d_1 [mm] [in]	CODE	L [mm]	L [in]	t_{fix} [in]	$h_{1,min}$ [in]	h_{nom} [in]	h_{ef} [in]	d_0 [in]	d_F [in]	d_K [in]	$N_{p,uncr}$(*) [lbs]	pcs
6 **0.24** TX 30	**SKS660**	60	2 3/8	3/8	2 3/16	1 15/16	1 1/2	3/16	1/4	0.433	2945	100
7,5 **0.29** TX 30	**SKS880**	80	3 1/8	13/16	2 15/16	2 3/8	1 7/8	7/32	3/8	0.551	3979	50
	SKS8100	100	4	1 9/16	2 15/16	2 3/8	1 7/8	7/32	3/8	0.551	3979	50
10 **0.40** TX 40	**SKS10100**	100	4	1 3/16	3 3/8	2 3/4	2 3/16	5/16	1/2	0.787	5305	50

(*)$N_{p,uncr}$ = pull-out resistance in uncracked concrete (mean test value). Values obtained from pull-out tests. For ASD values the designer shall refer to the relevant standard.

SKP - pan head

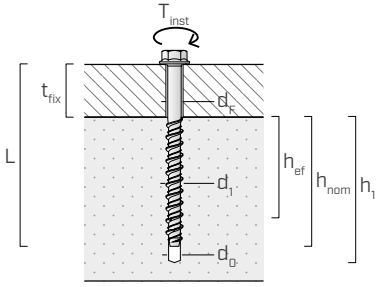
d_1 [mm] [in]	CODE	L [mm]	L [in]	t_{fix} [in]	$h_{1,min}$ [in]	h_{nom} [in]	h_{ef} [in]	d_0 [in]	d_F [in]	d_K [in]	$N_{p,uncr}$(*) [lbs]	pcs
6 **0.24** TX 30	**SKP680**	80	3 1/8	1 3/16	2 3/16	1 15/16	1 1/2	3/16	1/4	0.472	2945	50
	SKP6100	100	4	1 15/16	2 3/16	1 15/16	1 1/2	3/16	1/4	0.472	2945	50

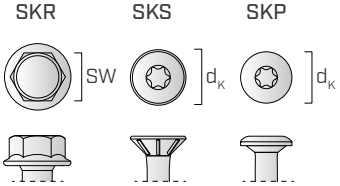
(*)$N_{p,uncr}$ = pull-out resistance in uncracked concrete (mean test value). Values obtained from pull-out tests. For ASD values the designer shall refer to the relevant standard.

ADDITIONAL PRODUCTS - ACCESSORIES

CODE	description	pcs
SOCKET10	SW 10 bushing 1/2" connection	1
SOCKET13	SW 13 bushing 1/2" connection	1
SOCKET15	SW 15 bushing 1/2" connection	1
SOCKET21	SW 21 bushing 1/2" connection	1

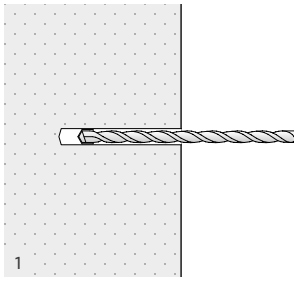
GEOMETRY



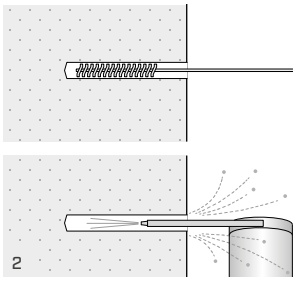


d_1	external diameter of anchor
L	anchor length
t_{fix}	maximum fastening thickness
h_1	minimum hole depth
h_{nom}	nominal anchoring depth
h_{ef}	effective anchor depth
d_0	hole diameter in the concrete support
d_F	maximum hole diameter in the element to be fastened
SW	wrench size
d_K	head diameter
T_{inst}	tightening torque

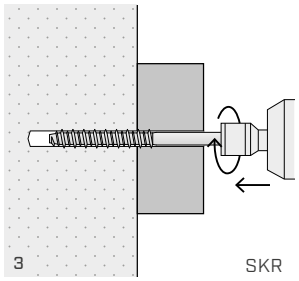
ASSEMBLY

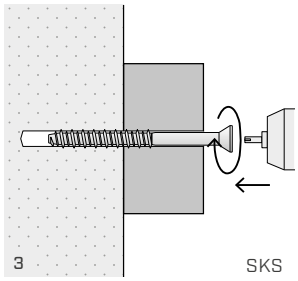


Drill a hole in rotary percussion mode

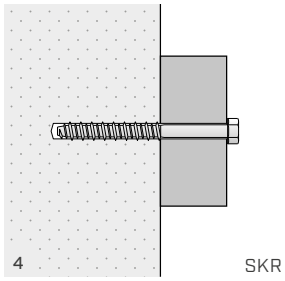


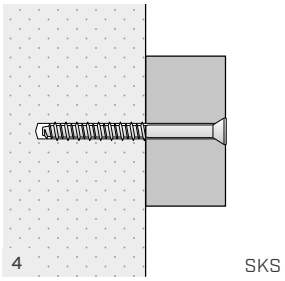
Clean the hole





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