

# SKR | SKS | SKP

## SCREW ANCHOR FOR CONCRETE CE1



### 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].

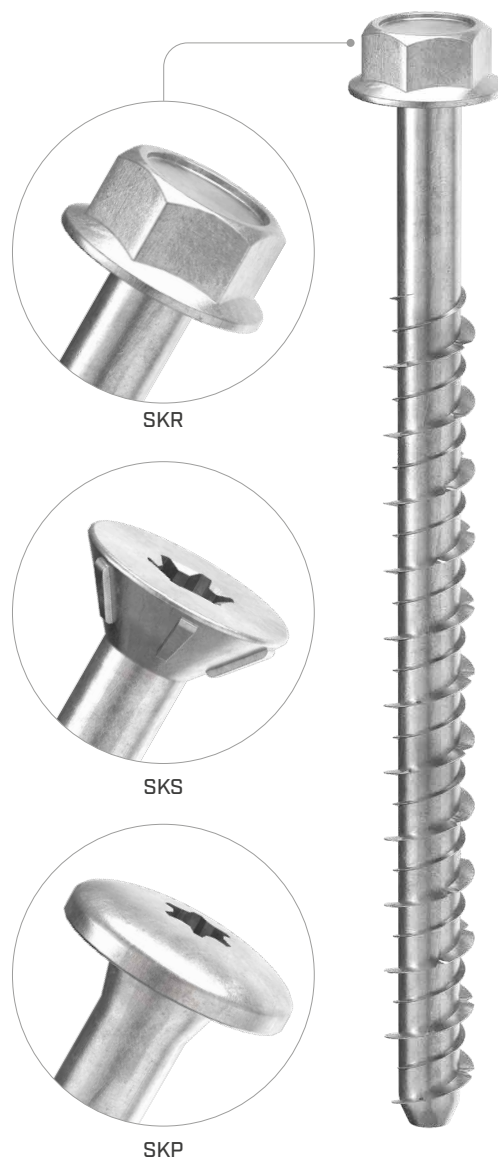
### IMMEDIATE STRENGTH

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                            | EC2   | EC3     | EC4    |
| ATMOSPHERIC CORROSIVITY | C1                             | C2    | C3      | C4     |
| WOOD CORROSIVITY        | T1                             | T2    | T3      | T4     |
| MATERIAL                | 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

| $d_1$<br>[mm]<br>[in]      | CODE     | L<br>[mm] [in] |         | $t_{fix}$<br>[in] | $h_{1,min}$<br>[in] | $h_{nom}$<br>[in] | $h_{ef}$<br>[in] | $d_0$<br>[in] | $d_F$<br>[in] | $T_{inst}$<br>[ft-lbs] | $N_{p,uncr}^{(*)}$<br>[lbs] | pcs |
|----------------------------|----------|----------------|---------|-------------------|---------------------|-------------------|------------------|---------------|---------------|------------------------|-----------------------------|-----|
| 8<br><b>0.32</b><br>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<br><b>0.40</b><br>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<br><b>0.48</b><br>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<br><b>0.63</b><br>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

| $d_1$<br>[mm]<br>[in]       | CODE     | L<br>[mm] [in] |       | $t_{fix}$<br>[in] | $h_{1,min}$<br>[in] | $h_{nom}$<br>[in] | $h_{ef}$<br>[in] | $d_0$<br>[in] | $d_F$<br>[in] | $d_K$<br>[in] | $N_{p,uncr}^{(*)}$<br>[lbs] | pcs |
|-----------------------------|----------|----------------|-------|-------------------|---------------------|-------------------|------------------|---------------|---------------|---------------|-----------------------------|-----|
| 6<br><b>0.24</b><br>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<br><b>0.29</b><br>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<br><b>0.40</b><br>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

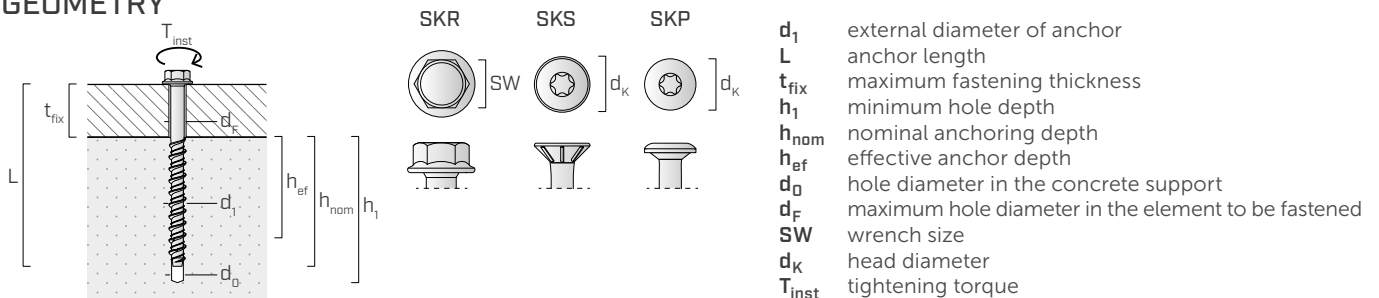
| $d_1$<br>[mm]<br>[in]     | CODE    | L<br>[mm] [in] |       | $t_{fix}$<br>[in] | $h_{1,min}$<br>[in] | $h_{nom}$<br>[in] | $h_{ef}$<br>[in] | $d_0$<br>[in] | $d_F$<br>[in] | $d_K$<br>[in] | $N_{p,uncr}^{(*)}$<br>[lbs] | pcs |
|---------------------------|---------|----------------|-------|-------------------|---------------------|-------------------|------------------|---------------|---------------|---------------|-----------------------------|-----|
| 6<br><b>0.24</b><br>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.

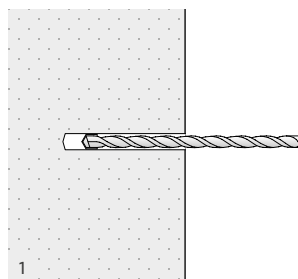
## ADDITIONAL PRODUCTS - ACCESSORIES

| 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   |

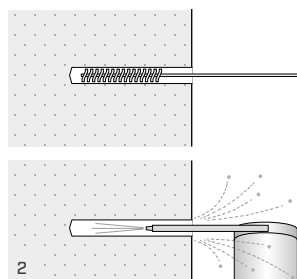
## GEOMETRY



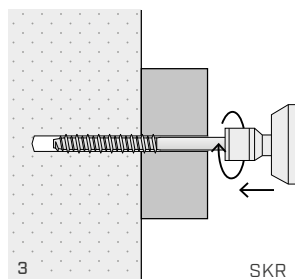
## ASSEMBLY



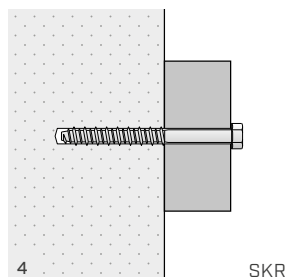
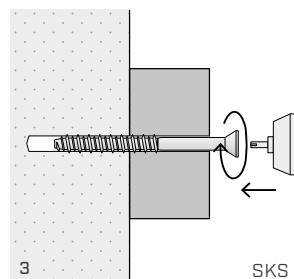
1  
Drill a hole in rotary percussor mode



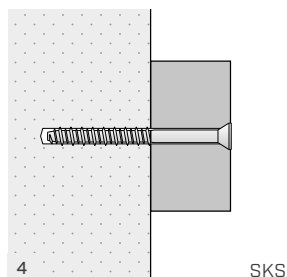
2  
Clean the hole



3  
Position the object to be fixed and install the screw with a pulse screw gun



4  
SKR



4  
SKS

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