

# Through bolt S-KAK 12/30 HDG

SORMAT CODE 9640003153

## Premium-quality through bolts for fixing in non-cracked and cracked concrete

- Torque-controlled expansion anchors for pre-, push-through and distance installations.
- When torque is applied the expansion clip expands developing frictional grip with the drill hole walls.
- Anchor diameter and max. fixture thickness marked on the body.
- The use of S-KA setting tool makes serial installation safer and quicker.
- HDG for dry and humid indoor use, outdoor inland rural areas only.

## APPLICATIONS

- Steel structures
- Column base plates
- Seatings
- Barriers
- Cable racks
- Handrails
- Ladders
- Façade systems

## APPROVALS / CERTIFICATES



ETA-08/0173 + DoPs



0809-CPR-1078



TC 6236-21



Fire resistance (ETA-08/0173)

## PRODUCT OVERVIEW

<b>Other codes</b>	SNRO 1356362 / LVI 3252932
<b>Material</b>	Steel, hot dip galvanized
<b>Packages</b>	box (bag): 20 / outer carton: 100 / pallet: 5600
<b>Weight</b>	114.7 kg / 1000

## BASE MATERIALS

### APPROVED FOR

- Cracked concrete
- Non-cracked concrete

### ALSO SUITABLE FOR

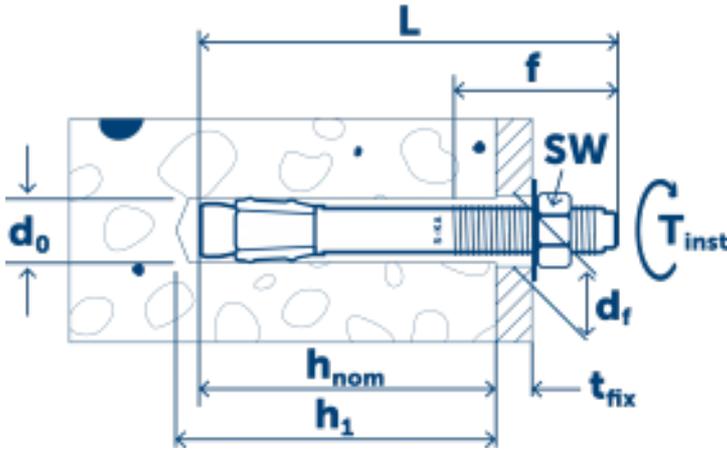
- Natural stone

## Technical data

INSTALLATION DETAILS

Size  
 Length (L)  
 Thread (f)  
 Width across flats (SW)  
 Max. fixture thickness ( $T_{fix}$ )

M12  
 128  
 78  
 19  
 30



INSTALLATION DETAILS

Hole in fixture ( $D_f$ )	14
Drill hole diameter ( $d_0$ ) $\varnothing$	12
Minimum drill hole depth	90
Drill hole depth ( $h_1$ )	90
Nominal setting depth ( $H_{nom}$ )	81
Effective setting depth ( $H_{ef}$ )	70
Installation torque ( $T_{inst}$ )	50

# Performance data

Base material	Load type	Embedment depth ( $h_{nom}$ )	Load direction	Load value
All <input type="text" value="All"/>				
Non-cracked concrete C20/25	$N_{Rec}$	81 mm		7.9 kN
Non-cracked concrete C20/25	$V_{Rec}$	81 mm		13.1 kN
Cracked concrete C20/25	$N_{Rec}$	81 mm		4.8 kN
Cracked concrete C20/25	$V_{Rec}$	81 mm		13.1 kN

# Installation

