

# Through bolt S-KAK+ 12/50/30 HDG

SORMAT CODE 9640003343



# Improved premium-quality hdg 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 thicknesses marked on the body. Anchor length letter code marked on the bolt head.
- M8, M10 and M12 have two different anchorage depths.
- 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.

### PRODUCT OVERVIEW

Other codes
Material
Packages

Weight GTIN-13

SNRO 1324112 / LVI 3253697 Steel, hot dip galvanized box (bag): 20 / outer carton: 100 / pallet: 5600 114.6 kg / 1000 6416031033438

### **APPLICATIONS**

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

### **BASE MATERIALS**

### APPROVED FOR

- · Cracked concrete
- · Non-cracked concrete

### ALSO SUITABLE FOR

Natural stone

### APPROVALS / CERTIFICATES



ETA-16/0934 + DoPs



Fire resistance (ETA-16/0934)

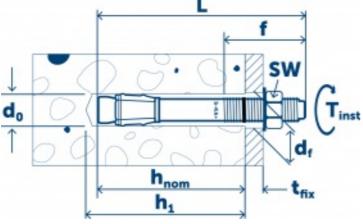


0809-CPR-1252

## Technical data

### **INSTALLATION DETAILS**

# Size M12 Length (L) 128 Thread (f) 78 Width across flats (SW) 19 Max. fixture thickness (T<sub>fix</sub>) 50/30



### **INSTALLATION DETAILS**

Hole in fixture (D <sub>f</sub> )	14
Drill hole diameter (d <sub>0</sub> ) Ø	12
Minimum drill hole depth	70/90
Drill hole depth (h <sub>1</sub> )	70/90
Nominal setting depth (H <sub>nom</sub> )	61/81
Effective setting depth (H <sub>ef</sub> )	50/70
Installation torque (T <sub>inst</sub> )	60

# Performance data

Base material All	Load type	Embedment depth (h <sub>nom</sub> )	Load direction	Load value
Non-cracked concrete C20/25	N <sub>Rec</sub>	61 mm	<b>₩</b>	8.3 kN
Non-cracked concrete C20/25	V <sub>Rec</sub>	61 mm	<u>_</u>	17.1 kN
Non-cracked concrete C20/25	N <sub>Rec</sub>	81 mm	<u> </u>	11.9 kN
Non-cracked concrete C20/25	V <sub>Rec</sub>	81 mm	<u>_</u>	17.1 kN
Cracked concrete C20/25	N <sub>Rec</sub>	61 mm	<b>(</b>	5.8 kN
Cracked concrete C20/25	V <sub>Rec</sub>	61 mm	<u> </u>	16.5 kN
Cracked concrete C20/25	N <sub>Rec</sub>	81 mm	<b>(</b>	7.6 kN
Cracked concrete C20/25	V <sub>Rec</sub>	81 mm	<u> </u>	17.1 kN

# Installation

