

# Through bolt S-KAK+ 10/100/80 HDG

SORMAT CODE 9640003331



### 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 1324108 / LVI 3253693 Steel, hot dip galvanized box (bag): 25 / outer carton: 125 / pallet: 7000 96.0 kg / 1000 6416031033315

### **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)

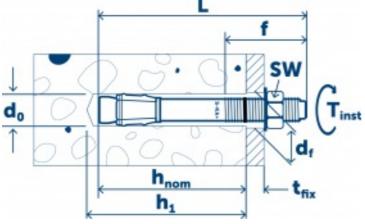


0809-CPR-1252

## Technical data

### **INSTALLATION DETAILS**

# Size M10 Length (L) 162 Thread (f) 115 Width across flats (SW) 17 Max. fixture thickness (T<sub>fix</sub>) 100/80



### **INSTALLATION DETAILS**

Hole in fixture (D <sub>f</sub> )	12
Drill hole diameter (d₀) Ø	10
Minimum drill hole depth	55/75
Drill hole depth (h <sub>1</sub> )	55/75
Nominal setting depth (H <sub>nom</sub> )	48/68
Effective setting depth (H <sub>ef</sub> )	40/60
Installation torque (T <sub>inst</sub> )	30

# 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>	48 mm	<b></b>	5.7 kN
Non-cracked concrete C20/25	V <sub>Rec</sub>	48 mm	<u></u>	11.7 kN
Non-cracked concrete C20/25	N <sub>Rec</sub>	68 mm	<b>∭</b> →→	9.0 kN
Non-cracked concrete C20/25	V <sub>Rec</sub>	68 mm	<u> </u>	11.7 kN
Cracked concrete C20/25	N <sub>Rec</sub>	48 mm	<b>(</b> → )	4.1 kN
Cracked concrete C20/25	V <sub>Rec</sub>	48 mm		11.7 kN
Cracked concrete C20/25	N <sub>Rec</sub>	68 mm	) <del>-</del> >>	5.7 kN
Cracked concrete C20/25	V <sub>Rec</sub>	68 mm		11.7 kN

# Installation

