

# Through bolt S-KAK+ 10/70/50 HDG

SORMAT CODE 9640003329



# 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 1324107 / LVI 3253692 Steel, hot dip galvanized box (bag): 25 / outer carton: 125 / pallet: 7000 80.8 kg / 1000 6416031033292

#### **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)

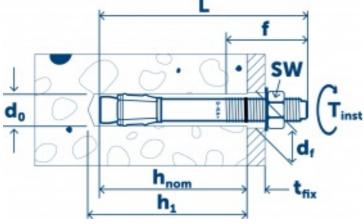


0809-CPR-1252

## Technical data

### **INSTALLATION DETAILS**

### Size M10 Length (L) 132 Thread (f) Width across flats (SW) Max. fixture thickness (Tfix ) 70/50



### **INSTALLATION DETAILS**

87

17

| 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                               | <u> </u>       | 11.7 kN    |
| Cracked concrete C20/25     | N <sub>Rec</sub> | 68 mm                               | <b> → →</b>    | 5.7 kN     |
| Cracked concrete C20/25     | V <sub>Rec</sub> | 68 mm                               | <u> </u>       | 11.7 kN    |

# Installation

