# SORMAT 🔁

# Through bolt S-KA+ 16/50 ZP (1 DIY)

SORMAT CODE 9640094047



### Improved premium-quality through bolts for fixing in noncracked 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.
- Seismic performance category C1/C2 (h<sub>ef,std</sub>).
- ZP for dry indoor use.

### PRODUCT OVERVIEW

Other codes Material Packages Weight GTIN-13

/ Steel, zinc plated box (bag): 1 / outer carton: 5 259.8 kg / 1000 6416031940477

### **APPLICATIONS**

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

# APPROVALS / CERTIFICATES



ETA-16/0934 + DoPs



## BASE MATERIALS

#### APPROVED FOR

- Cracked concrete
- Non-cracked concrete

#### ALSO SUITABLE FOR

Natural stone

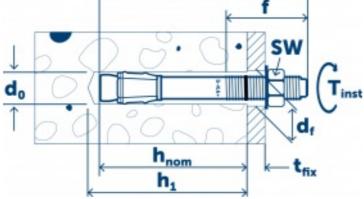




# Technical data

## INSTALLATION DETAILS





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W16	Hole in fixture (D <sub>f</sub> )	18
168	Drill hole diameter (d <sub>0</sub> ) ø	16
110	Minimum drill hole depth	110
24	Drill hole depth (h <sub>1</sub> )	110
50	Nominal setting depth (H <sub>nom</sub> )	97
	Effective setting depth (H <sub>ef</sub> )	85
	Installation torque (T <sub>inst</sub> )	110

# 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>	97 mm	····	17.1 kN
Non-cracked concrete C20/25	V <sub>Rec</sub>	97 mm	ž	30.9 kN
Cracked concrete C20/25	N <sub>Rec</sub>	97 mm	) 	11.4 kN
Cracked concrete C20/25	V <sub>Rec</sub>	97 mm		30.9 kN

# Installation

