

# Through bolt S-KA+ 12/85/65 ZP

SORMAT CODE 9640001346



## 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 (hef.std).
- ZP for dry indoor use.

#### PRODUCT OVERVIEW

Other codes
Material
Packages

Weight GTIN-13

SNRO 1324092 / LVI 3253678 Steel, zinc plated box (bag): 20 / outer carton: 100 / pallet: 5600 136.8 kg / 1000

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#### **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

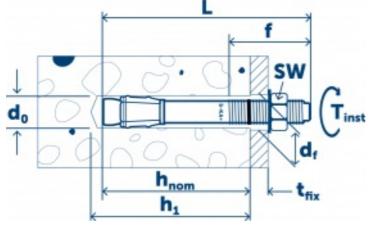


Seismic resistance (ETA-16/0934)

## Technical data

## **INSTALLATION DETAILS**

# SizeM12Length (L)163Thread (f)113Width across flats (SW)19Max. fixture thickness (T<sub>fix</sub>)85/65



## **INSTALLATION DETAILS**

Hole in fixture (D <sub>f</sub> )	14
Drill hole diameter (d₀) 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	<b>∭</b> →	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

