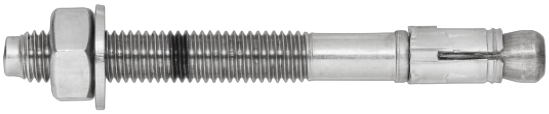
Through bolt S-KAH+ 12/50/30 A4

SORMAT CODE 9640005343



Improved premium-quality A4 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.
- Seismic performance category C1/C2 ($h_{ef,std}$).
- A4 for indoor, outdoor and industrial use.

PRODUCT OVERVIEW

Other codes	SNRO 1324137 / LVI 3253737
Material	Stainless steel, A4
Packages	box (bag): 20 / outer carton: 100 / pallet: 5600
Weight	113.1 kg / 1000
GTIN-13	6416031053436

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

0809-CPR-1252

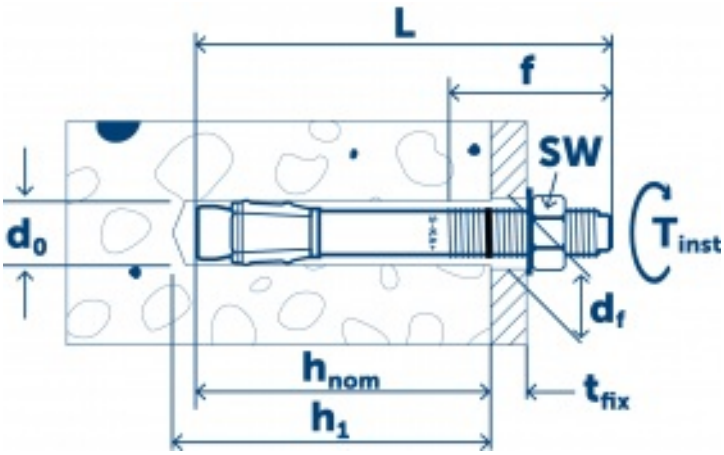
Fire resistance (ETA-16/0934)

Seismic resistance (ETA-16/0934)

Technical data

INSTALLATION DETAILS

Size	M12
Length (L)	128
Thread (f)	78
Width across flats (SW)	19
Max. fixture thickness (T_{fix})	50/30



INSTALLATION DETAILS

Hole in fixture (D_f)	14
Drill hole diameter (d_0) ⌀	12
Minimum drill hole depth	70/90
Drill hole depth (h_1)	70/90
Nominal setting depth (H_{nom})	61/81
Effective setting depth (H_{ef})	50/70
Installation torque (T_{inst})	60

Performance data

Base material: All	Load type	Embedment depth (h_{nom})	Load direction	Load value
Non-cracked concrete C20/25	N_{Rec}	61 mm		8.3 kN
Non-cracked concrete C20/25	V_{Rec}	61 mm		19.7 kN
Non-cracked concrete C20/25	N_{Rec}	81 mm		11.9 kN
Non-cracked concrete C20/25	V_{Rec}	81 mm		19.7 kN
Cracked concrete C20/25	N_{Rec}	61 mm		5.8 kN
Cracked concrete C20/25	V_{Rec}	61 mm		16.5 kN
Cracked concrete C20/25	N_{Rec}	81 mm		7.6 kN
Cracked concrete C20/25	V_{Rec}	81 mm		19.7 kN

Installation