

# Through bolt S-KAH 12/30 A4 (2 DIY)

SORMAT CODE 9640094232



## Premium-quality 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 thickness marked on the body.
- The use of S-KA setting tool makes serial installation safer and quicker.
- A4 for indoor, outdoor and industrial use.

## PRODUCT OVERVIEW

|                    |                                 |
|--------------------|---------------------------------|
| <b>Other codes</b> | SNRO 1310087 /                  |
| <b>Material</b>    | Stainless steel, A4             |
| <b>Packages</b>    | box (bag): 2 / outer carton: 20 |
| <b>Weight</b>      | 115.3 kg / 1000                 |

## 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-08/0173 + DoPs



0809-CPR-1078



Seismic resistance (ETA-08/0173)



TC 4635-15

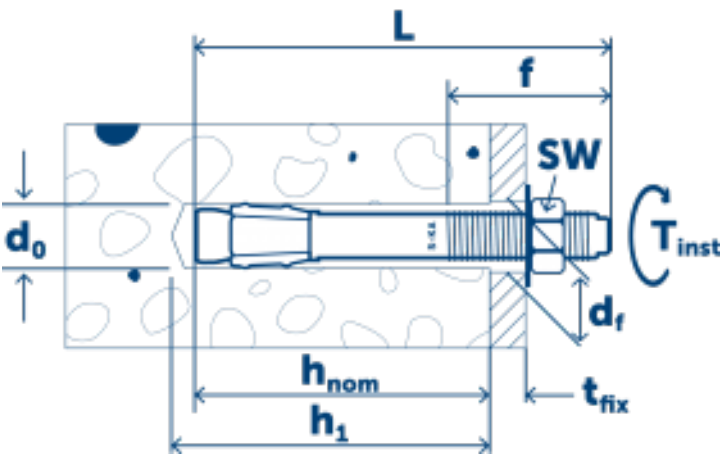


Fire resistance (ETA-08/0173)

# Technical data

## INSTALLATION DETAILS

Size  
Length (L)  
Thread (f)  
Width across flats (SW)  
Max. fixture thickness (T<sub>fix</sub>)



## INSTALLATION DETAILS

|     |  |    |
|-----|--|----|
| M12 | Hole in fixture (D <sub>f</sub> )          | 14 |
| 128 | Drill hole diameter (d <sub>0</sub> ) ∅    | 12 |
| 78  | Minimum drill hole depth                   | 90 |
| 19  | Drill hole depth (h <sub>1</sub> )         | 90 |
| 30  | Nominal setting depth (H <sub>nom</sub> )  | 81 |
|     | Effective setting depth (H <sub>ef</sub> ) | 70 |
|     | Installation torque (T <sub>inst</sub> )   | 70 |

# Performance data

| Base material               | Load type | Embedment depth ( $h_{nom}$ ) | Load direction | Load value |
|-----------------------------|-----------|-------------------------------|----------------|------------|
| All                         |           |                               |                |            |
| Non-cracked concrete C20/25 | $N_{Rec}$ | 81 mm                         |                | 7.9 kN     |
| Non-cracked concrete C20/25 | $V_{Rec}$ | 81 mm                         |                | 14.3 kN    |
| Cracked concrete C20/25     | $N_{Rec}$ | 81 mm                         |                | 4.8 kN     |
| Cracked concrete C20/25     | $V_{Rec}$ | 81 mm                         |                | 14.3 kN    |

# Installation

