

Through bolt S-KAH+ 12/100/80 A4

SORMAT CODE 9640005347



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 1324141 / LVI 3253740 |
| Material | Stainless steel, A4 |
| Packages | box (bag): 20 / outer carton: 100 / pallet: 5600 |
| Weight | 0.0 kg / 1000 |
| GTIN-13 | 6416031053474 |

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









| | |
|--|--------|
| Size | M12 |
| Length (L) | 178 |
| Thread (f) | 115 |
| Width across flats (SW) | 19 |
| Max. fixture thickness (T _{fix}) | 100/80 |



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 | Load type | Embedment depth (h_{nom}) | Load direction | Load value |
|-----------------------------|-----------|-------------------------------|---|------------|
| All | | | | |
| 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

