

Through bolt S-KA 12/20 ZP

SORMAT CODE 9640001152



Premium-quality through bolts for fixing in noncracked and cracked concrete

- Torque-controlled expansion anchors for pre-, pushthrough and distance installations.
- When torgue 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.
- ZP for dry indoor and temporary outdoor use.

PRODUCT OVERVIEW

Other codes	SNRO 1356637 / LVI		
	3253036		
Material	Steel, zinc plated		
Packages	box (bag): 20 / outer		
	carton: 100 / pallet: 5600		
Weight	106.1 kg / 1000		

APPLICATIONS

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

APPROVALS / CERTIFICATES



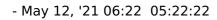
ETA-08/0173 + DoPs







Seismic resistance (ETA-08/0173)







Fire resistance (ETA-08/0173)

BASE MATERIALS

APPROVED FOR

- Cracked concrete
- Non-cracked concrete

ALSO SUITABLE FOR

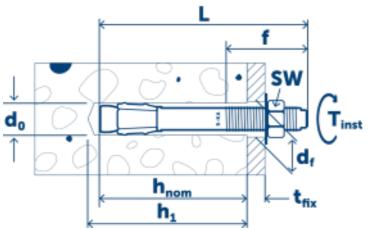
Natural stone

Technical data

INSTALLATION DETAILS

Size

- Length (L)
- Thread (f) Width across flats (SW)
- Max. fixture thickness (T_{fix})



INSTALLATION DETAILS

M12	Hole in fixture (D _f)	14
118	Drill hole diameter (d ₀) ø	12
68	Minimum drill hole depth	90
19	Drill hole depth (h1)	90
20	Nominal setting depth (H _{nom})	81
	Effective setting depth (H _{ef})	70
	Installation torque (T _{inst})	50

Performance data

Base material All	Load type		Load direction	Load value
Non-cracked concrete C20/25	N _{Rec}	81 mm	**	7.9 kN
Non-cracked concrete C20/25	V _{Rec}	81 mm	×	13.1 kN
Cracked concrete C20/25	N _{Rec}	81 mm	<u> </u>	4.8 kN
Cracked concrete C20/25	V _{Rec}	81 mm)	13.1 kN

Installation

