# SORMAT 🔁

# Through bolt S-KAK 12/65 HDG (2 DIY)

SORMAT CODE 9640094134



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

- Torque-controlled expansion anchors for pre-, pushthrough 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.
- HDG for dry and humid indoor use, outdoor inland rural areas only.

## PRODUCT OVERVIEW

Other codes	/			
Material	Steel, hot dip galvanized			
Packages	box (bag): 2 / outer			
	carton: 10			
Weight	140.7 kg / 1000			

## APPLICATIONS

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

## APPROVALS / CERTIFICATES



#### ETA-08/0173 + DoPs



## Technical data

- Mar 20, '21 23:17 21:17:52

## BASE MATERIALS

#### APPROVED FOR

- Cracked concrete
- Non-cracked concrete

#### ALSO SUITABLE FOR

Natural stone





#### Fire resistance (ETA-08/0173)

## INSTALLATION DETAILS

Size	M12	Hole
Length (L)	163	Drill
Thread (f)	113	Mini
Width across flats (SW)	19	Drill
Max. fixture thickness (T <sub>fix</sub> )	65	Nom
		Effec
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2	Hole in fixture (D <sub>f</sub> )	14
3	Drill hole diameter (d <sub>0</sub> ) ø	12
3	Minimum drill hole depth	90
9	Drill hole depth (h1)	90
5	Nominal setting depth (H <sub>nom</sub> )	81
	Effective setting depth (H <sub>ef</sub> )	70
	Installation torque (T <sub>inst</sub> )	50

# Performance data

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

# Installation

