

# Liebig Safety bolt S M10-15/70/40 ZP

SORMAT CODE 9655070140

## Legendary twin-cone heavy duty anchor for hi-power performance

- Torque-controlled twin-cone heavy duty anchor for push-through installations.
- Suitable for heavy loads due to optimal friction resistance.
- Cylindrical, wide expansion of sleeve over entire length.
- Equipped with domed washers providing a visual installation control.
- ZP for dry indoor and temporary outdoor use.

## APPLICATIONS

- Steel structures
- Machines
- Guardrails
- Car lifting systems
- Railings
- Base plates
- Warehouse racks

## APPROVALS / CERTIFICATES



ETA-06/0108 + DoPs



Fire resistance (ETA-06/0108)

## Technical data

### INSTALLATION DETAILS

### PRODUCT OVERVIEW

<b>Other codes</b>	/
<b>Material</b>	Steel, zinc plated
<b>Packages</b>	box (bag): 10 / outer carton: 50 / pallet: 2800
<b>Weight</b>	160.0 kg / 1000

### BASE MATERIALS

#### APPROVED FOR

- Cracked concrete
- Non-cracked concrete

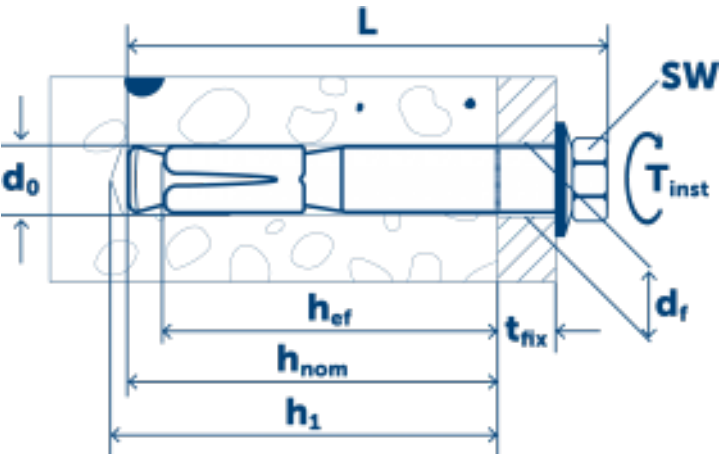
#### ALSO SUITABLE FOR

- Natural stone



0809-CPR-19006293

Size	M10	Hole in fixture ( $D_f$ )	17
Length (L)	130	Drill hole diameter ( $d_0$ ) $\varnothing$	15
Width across flats (SW)	17	Minimum drill hole depth	85
Max. fixture thickness ( $T_{fix}$ )	40	Drill hole depth ( $h_1$ )	85
		Nominal setting depth ( $H_{nom}$ )	76
		Effective setting depth ( $H_{ef}$ )	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	$N_{Rec}$	76 mm		9.5 kN
Non-cracked concrete C20/25	$V_{Rec}$	76 mm		22.3 kN
Cracked concrete C20/25	$N_{Rec}$	76 mm		7.6 kN
Cracked concrete C20/25	$V_{Rec}$	76 mm		20.1 kN

# Installation

