

Liebig Superplus BLS M12-20/80/30 ZP

SORMAT CODE 9650080030



Simply the best heavy duty self-undercutting anchor in the world

- Automatically self-undercutting, unique heavy duty anchor for push-through installations.
- Simplest, quickest and safest solution on the market.
- Economical: No special drill bits, undercut tools or setting tools.
- Minimal expansion forces allow for small spacings and edge distances.
- ZP for dry indoor and temporary outdoor use.

PRODUCT OVERVIEW

Other codes	/
Material	Steel, zinc plated
Packages	box (bag): 10 / outer carton: 30 / pallet: 1680
Weight	276.0 kg / 1000

APPLICATIONS

- Steel structures
- Machines
- Guardrails
- Car lifting systems
- Railings
- Base plates
- Warehouse racks
- Close edge distances
- Small anchor spacings

BASE MATERIALS

APPROVED FOR

- Cracked concrete
- Non-cracked concrete

APPROVALS / CERTIFICATES



ETA-01/0011 + DoPs



Fire resistance (ETA-01/0011)



0809-CPR-19006295



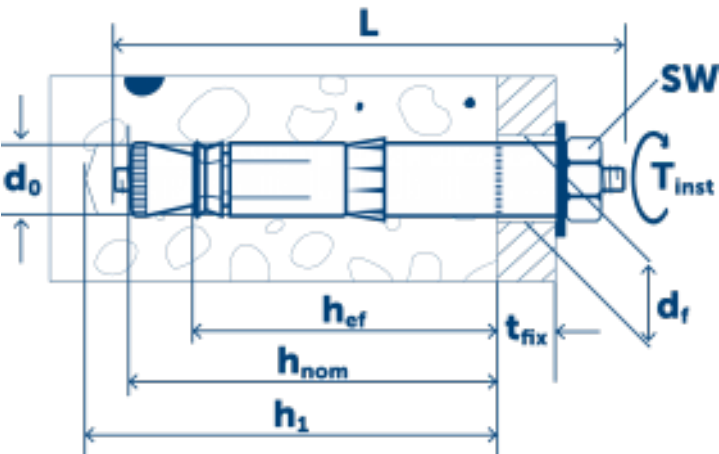
Seismic resistance (ETA-01/0011)

Technical data

INSTALLATION DETAILS

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Size	M12	Hole in fixture (D_f)	21
Length (L)	145	Drill hole diameter (d_0) $\varnothing$	20
Width across flats (SW)	19	Minimum drill hole depth	105
Max. fixture thickness (T_{fix})	30	Drill hole depth (h_1)	105
		Nominal setting depth (H_{nom})	96
		Effective setting depth (H_{ef})	80
		Installation torque (T_{inst})	80



Performance data

Base material	Load type	Embedment depth (h_{nom})	Load direction	Load value
All				
Non-cracked concrete C20/25	N_{Rec}	96 mm		17.2 kN
Non-cracked concrete C20/25	V_{Rec}	96 mm		34.4 kN
Cracked concrete C20/25	N_{Rec}	96 mm		11.9 kN
Cracked concrete C20/25	V_{Rec}	96 mm		24.6 kN

Installation

