

# Liebig Safety bolt SK M6-10/45/15 ZP

SORMAT CODE 9650045415



## 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.
- ZP for dry indoor and temporary outdoor use.

## PRODUCT OVERVIEW

|             |                                                   |
|-------------|---------------------------------------------------|
| Other codes | /                                                 |
| Material    | Steel, zinc plated                                |
| Packages    | box (bag): 50 / outer carton: 250 / pallet: 14000 |
| Weight      | 34.0 kg / 1000                                    |

## APPLICATIONS

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

## BASE MATERIALS

- APPROVED FOR
- Cracked concrete
  - Non-cracked concrete
- ALSO SUITABLE FOR
- Natural stone

## APPROVALS / CERTIFICATES



ETA-06/0108 + DoPs



Fire resistance (ETA-06/0108)



0809-CPR-19006293

## Technical data

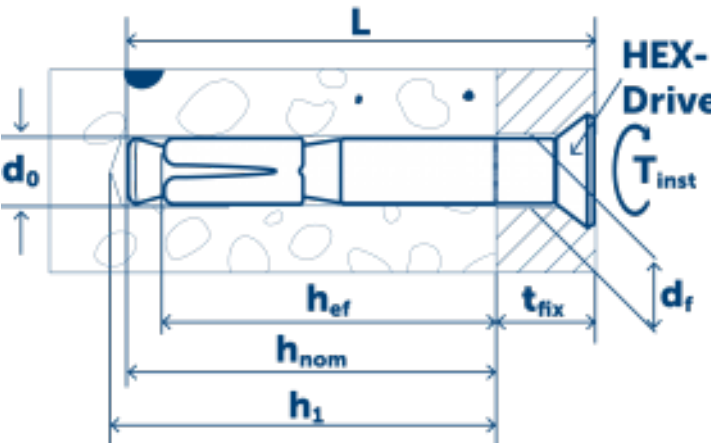
### INSTALLATION DETAILS

|            |    |
|------------|----|
| Size       | M6 |
| Length (L) | 70 |

### INSTALLATION DETAILS

|                                         |    |
|-----------------------------------------|----|
| Hole in fixture (D <sub>f</sub> )       | 12 |
| Drill hole diameter (d <sub>0</sub> ) Ø | 10 |

|                                      |      |                                      |    |
|--------------------------------------|------|--------------------------------------|----|
| Drive                                | HEX4 | Minimum drill hole depth             | 60 |
| Max. fixture thickness ( $T_{fix}$ ) | 15   | Drill hole depth ( $h_1$ )           | 60 |
|                                      |      | Nominal setting depth ( $H_{nom}$ )  | 52 |
|                                      |      | Effective setting depth ( $H_{ef}$ ) | 45 |
|                                      |      | Installation torque ( $T_{inst}$ )   | 12 |



### HEX-Drive HEAD DETAILS

|                             |     |
|-----------------------------|-----|
| Head diameter $\varnothing$ | 20  |
| Head height                 | 5,5 |
| Diameter, other             | 10  |

# Performance data

| Base material               | Load type        | Load direction | Load value |
|-----------------------------|------------------|----------------|------------|
| All                         |                  |                |            |
| Non-cracked concrete C20/25 | N <sub>Rec</sub> |                | 3.0 kN     |
| Non-cracked concrete C20/25 | V <sub>Rec</sub> |                | 7.2 kN     |
| Cracked concrete C20/25     | N <sub>Rec</sub> |                | 2.4 kN     |
| Cracked concrete C20/25     | V <sub>Rec</sub> |                | 5.2 kN     |

## Installation

