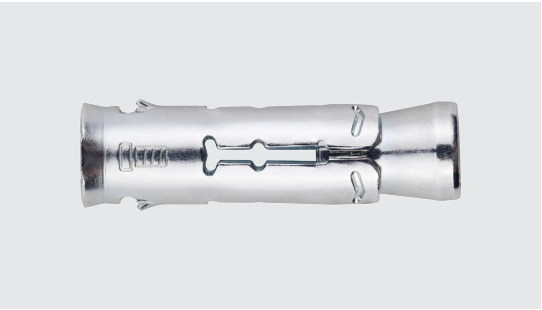
M10 BZP Hollow Core Slab Ceiling Anchor - ETA Approved

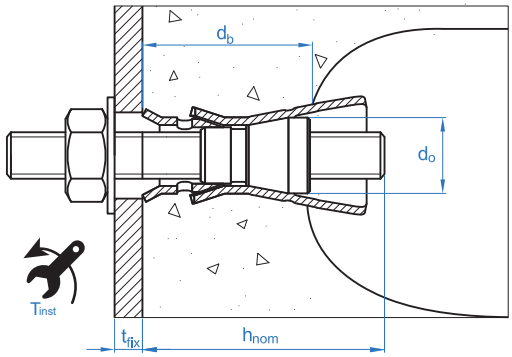
Product Code: B331-550



- European approval for interior non-structural applications in hollow slabs
- CE Certification
- R60 to R120 Fire Approval
- Flare collar prevents the anchor from entering the hole, making installation straightforward
- Suitable for installations with reduced distances
- Suitable for use with bolts or threaded rod

Specification

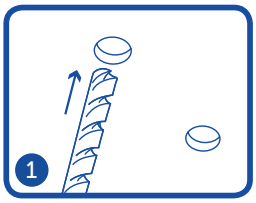
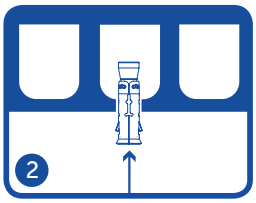
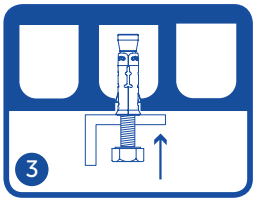
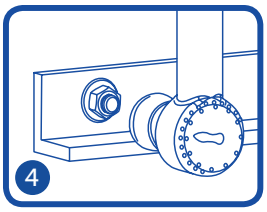
Drill bit diameter (d_0)	16mm
Drill hole depth (h_1)	60mm
Anchor plate diameter (d_f)	12mm
Installation torque (T_{ins})	30 Nm
Installation depth ≥ (h_{nom})	53mm
Minimum bolt length (e)	t_{fix} + 55mm
Minimum spacing	100mm
Minimum edge distance	90mm
Critical spacing between anchors	200mm
Critical edge distance	100mm
Box quantity	25



Applications

- Suspended ceiling fixings
- Sprinkler systems and ventilation systems
- Pipe work installations
- Cable ducts
- Suspended ceiling

Installation

	**1. Drilling** Check concrete is well compacted and porosity is insignificant. Suitable for dry, humid or flooded drillholes. Drill using percussion or hammer setting. Drill to the specified diameter depth.
	**2. Install** Insert the anchor to the bottom of the drillhole. Use hammer if necessary. The anchor must be flush to the surface of the base material.
	**3. Place material to be fixed** Place the material to be fixed, threading the bolt or stud through the drillhole. Use the required bolt length. The use of wide series of washer (DIN 9021) is recommended. Do not apply any type of intermediate layer (sealants, etc.) between the material to be fixed and the washer.
	**4. Apply torque** Apply nominal torque using a torque wrench.

Base Material

Hollow-core slab

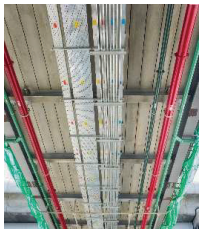
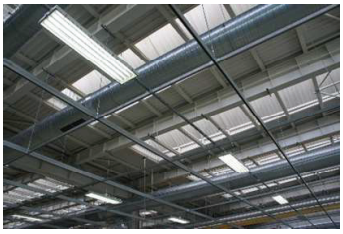
Material	Coating
Carbon Steel	Zinc-plated ≥ 5µm

Approval

NON STRUCTURAL FIXINGS IN HOLLOW CORE CONCRETE — ETA 15/0912

FIRE RESISTANCE

Application examples

Resistances

Characteristic resistance for non-structural applications in hollow concrete slabs type db25≥; <30 mm with minimum thickness of 30 mm and for an isolated anchor (without consideration of edge distance or distances between anchors), with bolt class 6.8.

ETE 15/0912 Approval		Yes
Characteristic resistance in hollow concrete slabs ≥ C40/50 (FRk)	db ≥25;<30mm	8.0kN
	db ≥30;<40mm	14.0kN
	db ≥40mm	14.0kN
Partial safety coefficient		1,8

1KN ≈ 100 kg

The safe load recommended γF = 1,4

Calculation example:
Fixing a 400kg tensile load (= 3,92 kN) on a C40/50 hollow concrete slab
with 43mm thickness with an HC10 anchor and bolt class 6.8
Verification to be performed: Load calculation < Resistance of calculation
Load calculation = service load * safe load coefficient = 3,92 * 1,4 = 5,49 kN
Resistance of calculation = characteristic resistance / partial safety coefficient = 14,0 / 1,8 = 7,78 kN
Verification: 5.49 kN < 7,78 kN: the fixing is safe.