

DATASHEET



C-BLOCK™ C100

Non-invasive fastening solution for construction

The alternative to drilling and anchors

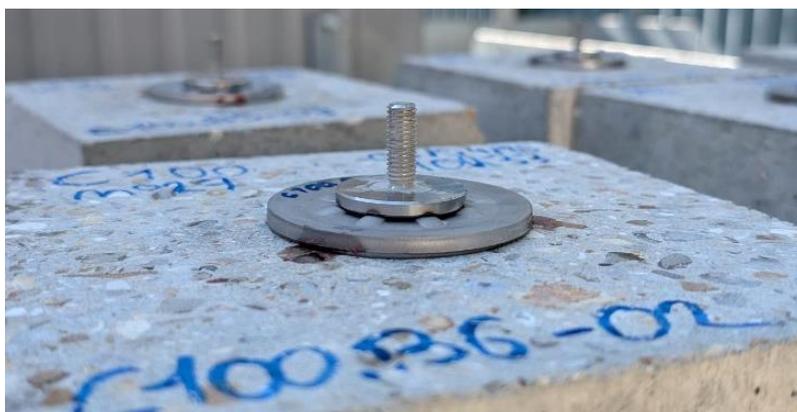


BONDED FASTENER C-BLOCK™ C100

The C-BLOCK™ C100 is an industrial bonded fastener using a high-performance epoxy adhesive, designed to overcome the challenges associated with drilling in construction and civil engineering works (high-performance concrete, risk of damaging reinforcement, dust, vibrations, etc.).

The C-BLOCK™ C100 is non-intrusive, reliable, and durable, with quick installation (< 2min).

The C-BLOCK™ C100 has an ETA (ETA-25/1039) for 50 years of use.

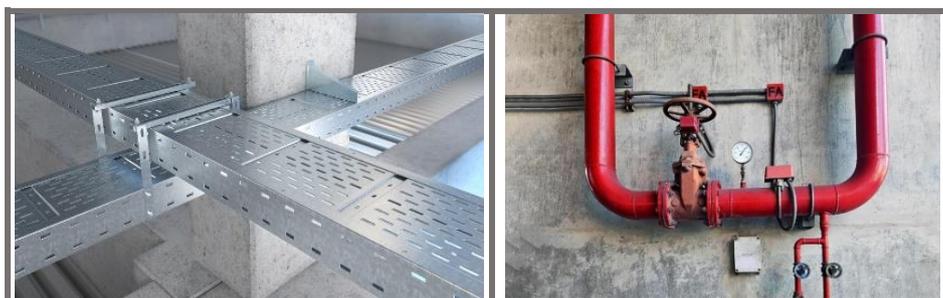


Grade	Direction	Ultimate value	Design value
Tension	C20/25	5,73 kN (584 kg)	1,12 kN (114 kg)
	C50/60	8,52 kN (868 kg)	1,77 kN (180 kg)
Shear	C20/25	5,24 kN (534 kg)	0,75 kN (76 kg)

MAIN APPLICATIONS

The C-BLOCK™ C100 is a robust and non-invasive universal anchoring point. It operates on dry & wet concrete across a wide temperature range. It is designed for various industrial applications, including:

- Any application where an anchor is needed but drilling is not preferred
- Pipe or HVAC fastening
- Lighting fastening
- Safety equipment fastening
- Clamping/securing equipment



C-BLOCK™ C100 SPECIFICATIONS



Characteristic	
C-BLOCK™ C100 Height	31 mm
C-BLOCK™ C100 Diameter	70 mm
Threaded rod	M8X1.25
Rod length	22 mm
Plate thickness	5 mm
Weight	160 g
Clearance radius*	83 mm
Minimum center-to-center distance	120 mm
Plate material	Stainless steel
Threaded rod	Stainless steel
Adhesive	HIT-RE 500 V4

STANDARD SERVICE CONDITIONS

Specifications	
⌚ Expected service life	50 years
🌡️ Installation temperature	[5°C ; +40°C]
🌡️ Service temperature	[0°C ; +55°C]
🌡️ Maximum long-term temperature	+40°C
⌚ Curing time at ≥ 5°C	24h
⌚ Curing time at ≥ 20°C	16h
📄 Surface preparation	Mechanical surfacing and chemical cleaning
🔧 Tightening torque	10 N.m
📏 Load direction	Tension or shear, simultaneous or separate
Traceability & inspection	Per batch

* The intended position of the C-BLOCK™ C100 rod must be at least 83mm away from any obstacle (wall, obstruction, etc.) or from the edge of a slab, wall, beam, or ceiling. This value will be gradually reduced to 50 mm.

INSTALLATION STEPS



Level the surface using a grinding tool, then clean with solvent wipes (< 1min30).



Apply the adhesive on the C-BLOCK™ C100.



Mount the C-BLOCK™ C100 in the installation tool and start the bonding cycle (cycle duration: 30s).

FOR MORE INFORMATION ON THE INSTALLATION PROCESS

