Elite Concrete techical specifications

5 tonne lifting pin (all Legato blocks and TVCBs) pull out calcs with dynamic loading to 48Kn



Lift calculation

Project propertie Project description: Part: User/Advisor: Customer/Applicant: Date:	s Legato Blocks 800mm x 800mm x 800mm 48kN load Damian Smith Elite Precast Concrete Limited 11/3/2017		
General informat Anchortype: hoist and			
Anchor properties Anchor type Anchor length Diameter Foot diameter Haeussler lengths		L D D 9 L 1 L 2 L 3	T-050-0180 180 mm 20 mm 50 mm 195 mm 148 mm 155 mm
Concrete properties Concrete cube strength Situation (at the time of hoisting) : assembly on construction site Cover on the foot of the anchor Length Width Height		f _{ck} C _{min} I _{concrete} W _{concrete} h _{concrete}	20MPa 10 mm 800 mm 800 mm 800 mm
Loads and load factors Hoist angle factor Bump factor Adhesion factor Number of anchors Weight concrete element Force			1.00 4.00 1.00 1 st 12.0 kN 48.0 kN



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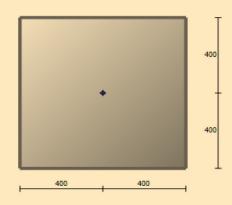
Calculation results Haeussler formulas

Design force formula	1:	N/A	kN
Design force formula	2: 1	457.82	kN
Design force formula	3:	86.77	kN
Design force formula	4:	120.56	kN
Design force formula	5:	113.04	kN
Design force formula	6:	105.99	kN
Design force formula	7:	N/A	kN
Design force formula	8:	N/A	kN
Design force formula	9:	103.97	kN
Design force formula	11:	N/A	kN

Connection with anchortype T-050-0180 is sufficient

(86.77 kN > 48.00 kN), in which 86.77 kN is the lowest capacity from the Haeussler formulas and 48.00 kN is the force on each anchor. (50.00 kN > 48.00 kN), in which 50.00 kN is the capacity of the anchor type.

When erecting additional armorment is not taken into account





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