



The Structural Anchor for Concrete



"Special anti-corrosion coating - 1000hours in salt spray test"



CERTIFICATION OF QUALITY MANAGEMENT SYSTEM ISO 9001 Cert. n° 1085



CISQ

CERTIFICATION OF ENVIRONMENTAL MANAGEMENT SYSTEM

- White Zinc Plated Hex head screw
- Nautilus Hex Head screw

- Concrete Solid Brick
- **Honeycomb Brick**
- Solid Stone

FM-CLK

ALSO AVAILABLE IN: « NAUTILUS » 🚺 1000 h Special anti-corrosion coating with glossy finish - 1000 hours in salt spray test

Lv

h nom

h 1 hmin

g

White Zinc Plated Hex head screw

High Shear Loads

No Plug required

Spacing Distance

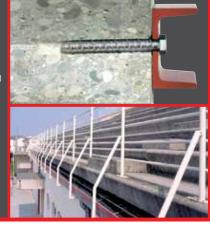
Edge Distance

Re-usable

Drill Diameter

Diameter Vs Loads

- Safe Anchoring in Concrete
 - **Direct Installation**
- High Loading Capacity ٠
- Low due to Keying Principle
- Correct funtioning with reduced spacing
 - Can remove and reuse 2mm less than Anchor diameter



suitable applications
partially suitable applications

Code		do mm	d x Lv mm	tfix mm		SW	Pkg.	Outer box
72000b10060		8	10x60	20		15	100	600
72000b10075		8	10x75	35		15	100	500
72000b10100		8	10x100	60		15	100	500
72000b10130		8	10x130	90		15	50	300
72000b10150		8	10x150	110		15	50	300
72000b12060		10	12x60	10		17	50	300
72000b12075		10	12x75	25		17	50	300
72000b12100		10	12x100	50		17	50	300
72000b12130		10	12x130	80		17	25	150
72000b12150		10	12x150	100		17	25	150
72000b14075		12	14x75	15		19	50	300
72000b14100		12	14x100	40		19	50	250
72000b14130		12	14x130	70		19	25	150
72000b14150		12	14x150	90		19	20	120
d	=	screw diame	eter	Lv	=	screw length		
do	=	hole diameter		sw	=	wrench		
h1	=	minimum hole depth		tfix	=	fixture thickness		
hmin	=	minimum support thickness		Tmax	=	maximum torque		
hnom	=	nominal embedment depth						
Installa	atio	n Proce	dure					
1		2		2		4		_



DESIGN AND RECOMMENDED⁽¹⁾ LOADS

t fix

Single anchor with large anchor spacing and edge distances in non-cracked concrete C20/25

Anchor			Ø10	Ø12	Ø14
Minimum support thickness	h _{min}	mm	100	100	120
Depth of hole	h,	mm	50	60	70
Nominal embedment depth	h _{nom}	mm	40	50	60
Hole diameter	d ₀	mm	8	10	12
Spacing	S _{cr.N}	mm	120	150	180
Edge distance	C _{cr.N}	mm	60	75	90
Tensile non-cracked concrete	N _{rd}	kN	3.5	4.2	5.6
	N	kN	2.5	3.0	4.0
Shear $C >= 10xhef$	V _{rd}	kN	9.8	14.0	21.0
Shear C >= Toxner	V	kN	7.0	10.0	15.0
Minimum spacing	S _{min}	mm	50	60	70
Minimum edge distance	C _{min}	mm	50	60	70
Shear $C = C_{min}$	V _{rd.cmin}	kN	2.1	3.2	4.2
Shear $\mathbf{U} = \mathbf{U}_{\min}$	V _{cmin}	kN	1.5	2.3	3.0
Torque max	T _{max}	Nm	40	80	100

1kN = 100 kgf ⁽¹⁾ The recommended loads N and V derive from the mean ultimate loads and are inclusive of the total safety factors γ =4 (shear=3).

In the absence of CE markings. the recommended loads derive from tests carried out in the Friulsider laboratory in accordance with the appropriate standards.

The load values are only valid if the installation has been carried out correctly. The design engineer is responsible for the designing and calculation of the fixing.

Ripple Construction Products Pvt Ltd



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