X1 EVO & X1 EVO-L

Autoclaved Aerated Concrete (AAC)



•



Material Properties

Plug			Nylon Pa6		
CSK H screw:	eac s	I / Pan Head chipboard	Zinc Clear, Class 5.6		
Hex w	000	d screw	Zinc Clear, Class 5.6		
d	=	Screw diameter			
do	=	Hole diameter			
h1	=	Minimum hole depth			
hnom	=	nominal embedment depth			

Instal	lation Temp.	+5 to +40 °C		
Worki	ng Temp.	+5 to +40 °C (max 80 for short period)		
L	= anchor length			

ICCONS

TDS |1039.2

Lv = screw length

tfix = fixture thickness

Tinst = torque

Recommended ⁽¹⁾ Loads in Autoclaved Aerated Concrete (AAC) (≥ 5.0 MPa)

Single spacing with large anchor spacing and edge distance								
	h1	h _{nom}	d₀	d	Aerated Concrete		JCe	ല്
	Min hole depth	Nominal emb. depth	Hole Dia.	Dia. of screw & Type	Tensile (kN)	Shear ((kN)	Edge Distar	Spaciı
	mm	mm	mm	mm	Nrec	V _{rec}	mm	mm
x 25	35	25	5	Chip. Ø 3.0	0.05	0.08	45	40
				Chip. Ø 3.5	0.06	0.1		
Ø 5				Chip. Ø 4.0	0.08	0.1		
				Wood. Ø 4.0	0.09	0.12		
Ø 6 × 30	40	30	6	Chip. Ø 4.0	0.05	0.08	55	55
				Chip. Ø 4.5	0.06	0.1		
				Chip. Ø 5.0	0.09	0.12		
				Wood. Ø 4.0	0.08	0.1		
				Wood. Ø 5.0	0.1	0.13		
				Metric. M4	0.09	0.12		
Ø8 x 40	50	40	40 8	Chip. Ø 4.5	0.11	0.13	70	60
				Chip. Ø 5.0	0.15	0.2		
				Chip. Ø 6.0	0.19	0.22		
				Wood. Ø 5.0	0.17	0.2		
				Wood. Ø 6.0	0.19	0.23		
				Metric. M5	0.18	0.22		

	h ₁	h _{nom}	d₀	d	Aerated Concrete		JCe	ള
	Min hole depth	Nominal emb. depth	Hole Dia.	Dia. of screw & Type	Tensile (kN)	Shear ((kN)	Edge Distar	Spaciı
	mm	mm	mm	mm	N _{rec}	V _{rec}	mm	mm
Ø 10 × 50	60	50	10	Chip. Ø 6.0	0.25	0.3	90	75
				Chip. Ø 8.0	0.3	0.35		
				Wood. Ø 6.0	0.25	0.3		
				Wood. Ø 7.0	0.3	0.35		
				Wood. Ø 8.0	0.3	0.35		
				Metric. M6	0.28	0.32		
Ø 12 × 60	70	60	12	Chip. Ø 8.0	0.31	0.5	110	90
				Wood. Ø 8.0	0.35	0.5		
				Wood. Ø 10.0	0.43	0.5		
				Metric. M8	0.38	0.5		
Ø 14 × 70	80	70	14	Wood. Ø 10.0	0.32	0.5	130	110
				Wood. Ø 12.0	0.44	0.6		
				Metric. M10	0.44	0.6		

1kN ≈ 100 kgf

 $^{(1)}$ The recommended loads derive from the mean ultimate loads and are inclusive of the total safety factor γ =6 The use of plastic anchors is not recommended for permanent suspended loading applications above 40 °C.

NOTE: The torque has to be regulated according to the type of installation and base material. 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.

Installation

