



PRODUCT DATASHEET

Steel Ceiling Anchor Range

Product Details

Purpose:	Connection of angle brackets, clips, etc in non-structural concrete applications.
Head style:	Flat
Material:	Carbon Steel
Material Grade:	SAE C1022
Coating:	5 µm zinc (w/ dichromate passivation)
Drill Diameter:	6.00 mm
Recommended Embedment Depth:	35.00 mm
Minimum Embedment Depth:	30.00 mm

Steel Ceiling Anchor Range- Products for use in Concrete

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)
EVDBZ640	M6.00 x 40.00
EVDBZ665	M6.00 x 65.00

Technical Data

Installation Data				
Parameter	Symbol	Unit	Value(s)	
Nominal Dimensions:	$d_{nom} \times L_{nom}$	mm	M6.00 x 40.00	M6.00 x 65.00
Nominal Diameter of Drill Bit:	d_0	mm	6.00	
Effective Embedment Depth:	h_{ef}	mm	35.00	
Thickness of Fixture (Maximum):	t_{fx}	mm	10.00	35.00

Minimum Spacing and Edge Distances			
Parameter	Symbol	Unit	Value(s)
Minimum thickness of the member:	h_{min}	mm	80.00
Minimum spacing:	h_s	mm	200.00
Minimum Edge Distance:	t_{fx}	mm	100.00

Characteristic Values			
Parameter	Symbol	Unit	Value(s)
Any Load Direction			
Characteristic resistance in C20/25 to C50/60:	F_{Rk}	kN	3.00
Partial Safety Factor (inc. installation safety factor):	γ_m	N/A	1.80
Characteristic Edge Distance:	c_{cr}	mm	150.00
Characteristic Spacing:	s_{cr}	mm	200.00
Shear Load with Lever Arm			
Characteristic Bending Moment:	$M^0_{Rk,s}$	Nm	6.30
Partial Safety Factor:	γ_{ms}	N/A	1.34

NOTE: The results expressed in this document are determined from empirical testing. Specifiers, end-users and other third parties should make their own decision(s) on what safety factors to use relevant to their design(s)/ application(s). This document is provided, strictly: without prejudice, without recourse, without liability, non-assumptions, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
©Evolution Fasteners UK Ltd, 2021.

Characteristic Values Under Fire Exposure (In Any Load Direction In Concrete C20/25 - C50/60)				
Fire Resistance Class	EVDBZ			Value(s)
R30	Characteristic resistance	$F_{Rk,fi}$	kN	0.26
R60				0.23
R90				0.18
R120				0.13
R30 to R120	Spacing	$s_{cr,fi}$	mm	200.00
	Edge Distance	$c_{cr,fi}$	mm	150.00

NOTE: The results expressed in this document are determined from empirical testing. Specifiers, end-users and other third parties should make their own decision(s) on what safety factors to use relevant to their design(s)/ application(s). This document is provided, strictly: without prejudice, without recourse, without liability, non-assumpsit, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
 ©Evolution Fasteners UK Ltd, 2021.