

Evolution Fasteners (UK) Ltd Units 2A & 2B Clyde Gateway Trade Park Dalmarnock Road, Rutherglen, Glasgow G73 1AN Tel: +44 (0)141 647 7100 / Fax: +44 (0)141 647 5100

Email: technical@evolutionfasteners.co.uk



www.evolutionfasteners.co.uk



# **PRODUCT DATASHEET** STEEL CEILING ANCHOR

### **Product Details**

Designed for: Connection of angle brackets, clips, etc in non-structural concrete

applications.

Head style: Flat

Coating: *5 μm* zinc (w/ dichromate passivation)

Shank material: Carbon steel **AISI C1022** Material grade: Drill diameter: 6.0mm Pilot hole: 6.0mm

Min. drill depth: 30.0mm

# **EUROPA**

## Steel ceiling anchor product range

Product Range			
Part No.	Size		
EVDBZ640	M6.0 x 40.0 mm		
EVDBZ665	M6.0 x 65.0 mm		

### **Technical Data**

Installation Data					
Parameter	Symbol	Unit	Value(s)		
Nominal dimensions	d x L	mm	M6x40	M6x65	
Nominal diameter of drill bit	d <sub>0</sub>	mm	6	6	
Cutting diameter of drill bit	d <sub>cut</sub> ≤	mm	6.4		
Diameter of clearance hole in the fixture	d <sub>f</sub>	mm	8		
Depth of drill hole	h <sub>1</sub> ≥	mm	40		
Effective anchorage depth	h <sub>ef</sub>	mm	35		
Thickness of fixture (maximum)	t <sub>fix</sub>	mm	5	30	

Minimum Spacing and Edge Distances				
Parameter	Symbol	Unit	Value(s)	
Nominal dimensions	d x L	mm	M6x40	M6x65
Minimum thickness of the member	h <sub>min</sub>	mm	80	
Minimum spacing	h <sub>s</sub>	mm	200	
Minimum edge distance	t <sub>fix</sub>	mm	100	

Characteristic Values				
	Symbol	Unit	Value(s)	
Nominal dimensions	dxL	mm	M6x40	M6x65
Any load direction				
Characteristic resistance in C20/25 to C50/60	F <sub>Rk</sub>	kN	3.00	
Partial safety factor (inc. installation safety factor)	γm		1.80	
Characteristic edge distance	C <sub>cr</sub>	mm	150.00	
Characteristic spacing	Scr	mm	200.00	
Shear load with lever arm				
Characteristic bending moment	M <sup>0</sup> <sub>Rk,s</sub>	Nm	6.	30
Partial safety factor	γ <sub>Ms</sub>		1.	34

Characteristic Values Under Fire Exposure						
(in Any Load Direction in Concrete C20/25 – C50/60)						
Fire resistance class EVDBZ		Anchor Size				
				M6x40	M6x65	
R30	Chausatauistia usaistausa	F <sub>Rk,fi</sub>	kN	0.26		
R60				0.23		
R90	Characteristic resistance			0.18		
R120				0.13		
D20 to D120	Spacing	Spacing Scr	S <sub>cr,fi</sub>	mm	200	.00
R30 to R120	Edge distance	C <sub>cr,fi</sub>	mm	150	.00	