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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
Material grade:	AISI C1022
Drill diameter:	6.0mm
Pilot hole:	6.0mm
Min. drill depth:	30.0mm

EUROPA
CE
ETAG001
ETA-13-0634

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_0	mm	6	6
Cutting diameter of drill bit	$d_{cut} \leq$	mm	6.4	
Diameter of clearance hole in the fixture	d_f	mm	8	
Depth of drill hole	$h_1 \geq$	mm	40	
Effective anchorage depth	h_{ef}	mm	35	
Thickness of fixture (maximum)	t_{fix}	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_{min}	mm	80	
Minimum spacing	h_s	mm	200	
Minimum edge distance	t_{fix}	mm	100	

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Characteristic Values				
	Symbol	Unit	Value(s)	
Nominal dimensions	d x L	mm	**M6x40**	**M6x65**
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		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}		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	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 the datasheet are taken as mean loads from a range of empirical tests and are ultimate unfactored loads. Each specifier or end user should make his/ her own decision on what safety factors to use relevant to their design application (such as BS 5950, EN 1991, etc).

Errors and Omissions Excepted.