Concrete screw JC2-IT Plus



Cross references

Cordless impact screwdriver ASCD
Cordless hammer drill ABH
Hammer drill SDS plus®
Socket wrench insert SW13
Cleaning brush
Blow-out pump

Application range

> ETA-approved concrete screw for cracked and uncracked concrete
> Suitable for dry indoor conditions
> Fastening of e.g.:
  > Pipe brackets
  > Profile rails

Characteristics

> Zinc-plated steel
> Hexagon head SW13 with internal thread M8/M10
> Self-tapping approved screw anchor for push-in installation
> No expansion therefore small edge and centre distances possible
> Completely removable

Notice

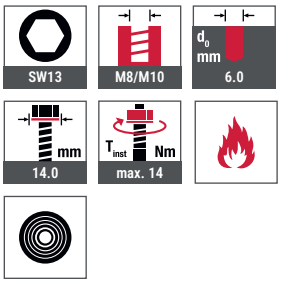
Characteristic values apply to the compression strength of C20/25 concrete. Design load of an anchor for centric tension in cracked concrete.

The load values in these tables are based on concrete C20/25, $f_{ck,cube}$ = 25 N/mm²; correct installation; no influence of centre and edge distances; observe the minimum thickness of the base material.

Applications



Technical specifications

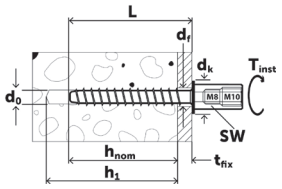


Certifications



Base materials

Approved for
> Cracked concrete
> Uncracked concrete
> Pre-stressed hollow core slab



Parameters						Recommended loads uncracked concrete C20/25		Recommended loads cracked concrete C20/25	
Typ	d_f [mm]	Drive [mm]	d_0 [mm]	h_{ef} [mm]	T_{inst} [Nm]	N_{Rec} [kN]	V_{Rec} [kN]	N_{Rec} [kN]	V_{Rec} [kN]
ETA-17/1009 - approval according to EAD-330747-00-0601 for multiple fastening of non-structural systems in concrete									
JC2-IT 6 Plus	7.7 – 9.0	SW13	6	27.6/31.9	≤ 14	1.9/1.9	5.4	1.9/1.9	5.4
ETA-20/0446 - approval according to EAD-330232-02-0601 (option 1) for use in cracked and uncracked concrete									
JC2-IT 6 Plus	7.7 – 9.0	SW13	6	29.8/42.5	≤ 14	3.3/4.6	5.4	1.7/2.3	5.4

Order description	L [mm]	t_{fix} [mm]	h_{nom} [mm]	h_1 [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
ETA-17/1009 - approval according to EAD-330747-00-0601 for multiple fastening of non-structural systems in concrete								
JC2-IT Plus 6x35 M8/M10x30 SW13	35	0	35	45	50		9650071513	4061245075716
JC2-IT Plus 6x45 M8/M10x30 SW13	45	5/10	35/40	45/50	50		9650071514	4061245074146
JC2-IT Plus 6x60 M8/M10x30 SW13	60	20/25	35/40	45/50	50		9650071519	4061245074153
ETA-20/0446 - approval according to EAD-330232-02-0601 (option 1) for use in cracked and uncracked concrete								
JC2-IT Plus 6x45 M8/M10x30 SW13	45	5	40	50	50		9650071514	4061245074146
JC2-IT Plus 6x60 M8/M10x30 SW13	60	5/20	40/55	50/65	50		9650071519	4061245074153

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Technical abbreviations

Abbreviation	Description	Unit
a	Spacing	mm
a_p	Distance between drill hole and armouring	mm
a_z	Shell distance / gap	mm
b	Component width	mm
C	Minimum edge distance for S_{min}	mm
c	Edge distance	mm
$c_{cr,N}$	Characteristic edge distance	mm
C_{min}	Minimum edge distance	mm
d	Thread outer diameter / nominal diameter	mm
d_0	Nominal drill diameter / drill hole diameter	mm
DC	Drilling capacity	mm
d_{cut}	Cutting diameter of the drill bit	mm
d_f	Diameter of the through hole in the attachment	mm
d_h	Head diameter	mm
d_{head}	Head diameter	mm
d_{nom}	Effective external diameter	mm
d_k	Diameter cone	mm
f	Thread length in the anchor	mm
f_b	Minimum compressive strength	N/mm²
f_{ck}	Nominal characteristic compressive strength	N/mm²
f_{max}	Maximum installation depth	mm
f_{min}	Minimum installation depth	mm
F_{Rk}	Characteristic resistance	kN
F_{zul}	Permitted load	kN
h	Component thickness	mm
h	Component height	mm
h_0	Drill hole depth	mm
h_1	Drill hole depth to deepest point	mm
h_a	Thickness of the outer sheet	mm
h_D	Insulation thickness	mm
h_{ef}	Installation depth in the load-bearing layer	mm

Abbreviation	Description	Unit
h_{ef}	Effective embedment depth	mm
h_{min}	Minimum thickness of base materials	mm
h_{nom}	Nominal embedment depth	mm
k	Height of cone	mm
L	Length	mm
l	Screw length	mm
l_d	Anchor length	mm
l_g	Thread length	mm
l_s	Sleeve length	mm
l_s	Screw length	mm
L_s	Thread length in the anchor	mm
M	Internal thread diameter	mm
M_{Rk}	Bending moment	Nm
M_{zul}	Admissible bending moment	Nm
N	Tensile load	kN
N_{rec}	Recommended tensile capacity	kN
N_{Rk}	Characteristic resistance	kN
S	Minimum centre distance for C_{min}	mm
s_1	Center distance (perpendicular to the free edge) within an anchor group	mm
s_2	Center distance (parallel to the free edge) within an anchor group	mm
$s_{cr.N}$	Characteristic centre distance	mm
S_{min}	Minimum centre distance	mm
SW	Wrench size	mm
t	Drill hole depth	mm
t_1	Component thickness 1	mm
t_{fix}	t_{tol} + thickness of attachment	mm
T_{inst}	Tightening torque	Nm
t_s	Overall drill hole depth	mm
t_{sheet}	Panel thickness	mm
t_{tol}	Thickness of tolerance compensation or of the non-load-bearing outer layer	mm
V	Transverse load	kN
V_{rec}	Recommended shear load capacity	kN
V_{Rk}	Shear load capacity	kN
ρ	Raw density class	kg/dm³

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