

γM,s

NRk,s

γM,s

NRk,s

γM,s

γМ,р

τRk,p,ucr

Partial safety factor

Partial safety factor

Partial safety factor

Partial safety factor (Includes γ2)

Pull-out failure, concrete cone failure

Characteristic tensile resistance steel Grade A4-80

Characteristic tensile resistance HCR steel Grade 70

Characteristic bond strength in uncracked concrete C20/25

Declaration of Performance No. 0679-CPD-0764

JCP Chemical Capsule Anchor - Quartz JCP Construction Products, Unit 14 Teddington Business Park, Station Rd, Teddington, Middlesex TW11 9BQ Telephone +44 (0)208 943 1800

Intended us	se or uses of the products according to EAD 330499-00-0601								
Generic type		Bonded Anchor							
Base material		Non-cracked concrete C20/25 to C50/60 acc. EN 206-2:2003							
Batch Number		Marked on individual boxes							
Material			1] Galvanised carbon steel Grade 5.8 and 8.8 to EN ISO 891-1 2 ]Stainless Steel A4, 1.4401, 1.4404 or 1.4571 Property class 70 or 80 to EN ISO 3506 3[ High corrosion resistant stainless steel, 1.4529, 1.4565						to
Durability		<ol> <li>Dry internal conditions</li> <li>Internal and external atmospheric exposure including industrial and marine environment, or exposure in permenantly damp internal conditions, if no particularly aggressive conditions exist.</li> <li>Internal and external atmospheric exposure including industrial and marine environment, or exposure in permenantly damp internal conditions, and marine environment, or exposure in permenantly damp internal conditions, and in other particularly aggressive conditions.</li> </ol>							
Loading			Static, quasi-static						
Use catego	ry		Dry or wet concrete (Flooded holes are excluded)						
Reaction to	-		Class A1						
Temperature range(s)			-40°C to +40°C (max. short term temperature +40°C and Max. long term temperature +24°C)						
FTA 12/023	33 issued by		CSTB						
On the basis	-		EAD 330499-00-0601						
	of Conformity 0679-CPD-0764 issued by		CSTB						
Under syste			1						
	erformances according to ETA 12/0233 Issued 02/05/2018 haracteristics		M08	M10	M12	Performance M16	e M20	M24	M30
Installation	parameters				-				
d <sub>o</sub>	Nominal diameter of drill bit	[mm]	10	12	14	18	22	26	32
d <sub>f</sub>	Fixture clearance hole	[mm]	9	12	14	18	22	26	33
d <sub>b</sub>	Brush diameter	[mm]	11	13	16	20	24	28	34
h <sub>ef</sub>	Effective anchorage depth	[mm]	80	90	110	125	170	210	280
h <sub>nom</sub>	Minimum installation depth	[mm]	80	90	110	125	170	210	280
h <sub>1</sub>	Depth of drill hole to deepest point	[mm]	80	90	110	125	170	210	280
h <sub>min</sub>	Minimum thickness of concrete member	[mm]	110	120	140	160	220	260	340
T <sub>inst</sub>	Nominal torque moment	[mm]	10	20	40	80	120	180	300
S <sub>min</sub>	Minimum spacing	[mm]	40	45	55	65	85	105	140
C <sub>min</sub>	Minimum edged distance	[mm]	40	45	55	65	85	105	140
Tensile stee	el failure								
NRk,s	Characteristic tensile resistance steel Grade 5.8	[kN]	18	29	42	78	123	177	281
NRk,s	Characteristic tensile resistance steel Grade 8.8	[kN]	29	46	67	126	196	282	449
γM,s	Partial safety factor					1.5			
NRk,s	Characteristic tensile resistance steel Grade A4-70	[kN]	26	40	59	110	172	247	393
M -		1	1	•			•		•

[kN]

[kN]

[N/mm2]

[-]

29

26

12

46

40

12

67

59

12

1.87

126

1.6

110

1.87

12

1.5

196

172

11

282

247

11

449

393

10

1.8

ΨcC25/30	Increasing factor for concrete C25/30	[-]	1.06						
ΨcC30/37	Increasing factor for concrete C30/37	[-]	1.14						
ΨcC35/45	Increasing factor for concrete C35/45	[-]	1.22						
ΨcC40/50	Increasing factor for concrete C40/50	[-]	1.26						
ΨcC45/55	Increasing factor for concrete C45/55	[-]	1.30						
ΨcC50/60	Increasing factor for concrete C50/60	[-]	1.34						
Splitting failur	e								
S <sub>cr,sp</sub>	Critical spacing (Splitting)	[mm]	320	270	280	320	430	530	700
C <sub>cr,sp</sub>	Critical edge distance (Splitting)	[mm]	160	135	140	160	215	265	350
γM,sp Partial safety factor (Includes γ2)		[-]			1	.5			1.8
Displacement	t on tensile loading								
Nu <sub>cr</sub>	Service tensile loads in uncracked concrete	[kN]	9.6	13.5	19.7	29.9	48.3	71.6	94.2
δN0,u <sub>cr</sub>	Short term displacement under tensile loads	[mm]	0.17	0.18	0.18	0.19	0.19	0.20	0.21
δN∞, <sub>ucr</sub>	Long term displacement under tensile loads	[mm]				0.50			
Shear steel fa	ilure without lever arm								
V, <sub>Rk,s</sub>	Characteristic shear steel failure Grade 5.8	[kN]	9	14	21	39	61	88	140
V, <sub>Rk,s</sub>	Characteristic shear steel failure Grade 8.8	[kN]	15	23	34	63	98	141	224
γm,sV	Partial safety factor	[-]				1.25			
V, <sub>Rk,s</sub>	Characteristic shear steel failure Grade A4-70	[kN]	13	20	30	55	86	124	196
γm,sV	Partial safety factor	[-]			-	1.56	-	-	-
V, <sub>Rk,s</sub>	Characteristic shear steel failure Grade A4-80	[kN]	15	23	34	63	98	141	224
γm,sV	Partial safety factor	[-]	[-] 1.33						
V, <sub>Rk,s</sub>	Characteristic shear steel failure HCR steel Grade 70	[kN]	13	20	30	55	86	124	196
γm,sV	Partial safety factor	[-]				1.56			
Shear steel fa	ailure with lever arm								
M <sup>0</sup> <sub>Rk,s</sub>	Characteristic bending moment Grade 5.8	[Nm]	19	37	66	166	325	561	1125
M <sup>0</sup> <sub>Rk,s</sub>	Characteristic bending moment Grade 8.8	[Nm]	30	60	105	266	519	898	1799
γm,sV	Partial safety factor	[-]				1.25			
M <sup>0</sup> <sub>Rk,s</sub>	Characteristic bending moment Grade A4-70	[Nm]	26	52	92	233	454	786	1574
γm,sV	Partial safety factor	[-]				1.56			
M <sup>0</sup> <sub>Rk,s</sub>	Characteristic bending moment Grade A4-80	[Nm]	30	60	105	266	519	898	1799
γm,sV	Partial safety factor	[-]				1.33			
M <sup>0</sup> <sub>Rk,s</sub>	Characteristic bending moment HCR steel Grade 70	[Nm]	26	52	92	233	454	786	1574
γm,sV	Partial safety factor	[-]				1.56			
Shear concre	te edge failure								
I <sub>ef</sub>	Effective anchorage length	[mm]	80	90	110	125	170	210	280
Displacement	t on shear load								
V	Service shear load in concrete	[kN]	5.2	8.3	12	22.4	35.0	50.4	80.1
$\delta_{v0}$	Short term displacement under shear load	[mm]	2.0	2.1	2.2	2.5	2.6	2.8	3.0
δV∞	Long term displacement under shear load	[mm]	2.9	3.1	3.3	3.7	4.0	4.1	4.4

## The performance data above relates to the following product codes

d	Marking	Diam [mm]	Length [mm]	Product Code
M8	JFIX Q SPIN M8	9	80	JCAPSM08
M10	JFIX Q SPIN M10	11	80	JCAPSM10
M12	JFIX Q SPIN M12	13	95	JCAPSM12
M16	JFIX Q SPIN M16	17	95	JCAPSM16
M29	JFIX Q SPIN M20	17	160	JCAPSM20
M24	JFIX Q SPIN M24	22	175	JCAPSM24
M30	JFIX Q SPIN M30	25	230	JCAPSM30

Amendments	Date	
ETAG changed to EAD	20/12/2017	
Temperature Range changed	23/08/2018	
Bond Strength changed	23/00/2010	

The performances of the product identified by the above product codes are in conformity with the declared performance This Declaration of performance is issued under the sole responsibility of JCP Construction Products Signed for and on behalf of the manufacturers

Name and function	Place and date of issue	Signature			
Brian Deluce	Teddington	DEDE			
Technical Manager	23/08/2018	V. t. Veluce			