Declaration of Performance No. 1020-CPD-030046



Injection Resin JF380PSF and JF150P Polyester Resin Styrene Free 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	eric type			Bonded Anchor						
Base materi				Non-cracked concrete C20/25 to C50/60 acc. EN 206-2:2003 The anchor may be installed in dry, wet and flooded holes						
Batch numb				Marked on individual tubes						
Steel eleme	eel elements			1] Galvanised carbon steel Grade 5.8, 8.8 and 10.9 to EN ISO 891-1 2] Stainless Steel 1.4401, 1.4404 or 1.4571Property class 70 or 80 to EN ISO 3506						
Durability			3] High corrosion resistant stainless steel to 1.4529, 1.4565							
			1] Dry internal conditions 2] Internal and external atmospheric exposure including industrial and marine environment, or exposure in permenantly damp internal conditions, if no particularly aggressive conditions exist. 3] Internal and external atmospheric exposure including industrial and marine environment, or exposure in permenantly damp internal conditions, and in other particularly aggressive conditions.							
Loading			Static, quas	si-static						
ETA 40'55	201		7110							
ETA 13/078			ZUS	0.00.01==						
			EAD 330499-00-0601 ZUS							
	,									
	1 9 17				1 -40°C to +80°C (Max. short term temperature +80°C and Max. long term temperature +50°C)					
Declared pe	erformances according to EAD 330499-00-0601									
Essential Characteristics			Performance M08 M10 M12 M16 M20 M24							
Installation	parameters		IVIUO	IVITO	M12	IVITO	IVIZU	IVIZ4		
d _o	Nominal diameter of drill bit	[mm]	10	12	14	18	22	26	I	
d _f	Fixture clearance hole	[mm]	10	12	14	18	22	26		
d _b	Brush diameter	[mm]	14	14	20	20	29	29		
T _{inst}	Nominal torque moment	[mm]	10	20	40	80	150	200	1	
h _{ef,min}	Minimum effective anchorage depth = 8d				I	1	1			
h _o	Depth of drill hole	[mm]	64	80	96	128	160	192		
h _{min}	Minimum thickness of concrete member	[mm]	100	110	126	158	200	240		
S _{min}	Minimum spacing	[mm]	35	40	50	65	80	96		
C _{min}	Minimum edged distance	[mm]	35	40	50	65	80	96		
h _{ef,max}	Maximum effective anchorage depth = 12d]	
h _o	Depth of drill hole	[mm]	96	120	144	192	240	288]	
h _{min}	Minimum thickness of concrete member	[mm]	126	150	174	222	280	336]	
S _{min}	Minimum spacing	[mm]	50	60	70	95	120	145]	
C _{min}	Minimum edged distance	[mm]	50	60	70	95	120	145		
Tensile Stee		B 5 2			1			475	1	
NRk,s	Characteristic tensile resistance steel Grade 5.8	[kN]	18	29	42	79	123	177	-	
NRk,s γM,s	Characteristic tensile resistance steel Grade 8.8	[kN]	29	46	67	126	196	282	1	
γινι,s NRk,s	Partial safety factor Characteristic tensile resistance steel	[-] [kN]	37	58	84	.5 157	245	353	1	
γM,s		[KIN]	3/	ეგ		.4	240	ამა	4	
1	I Partial Safety factor		-						j	
NRk s	Partial safety factor Characteristic tensile resistance steel		26	41	50	110	172	247		
NRk,s γM,s	Characteristic tensile resistance steel Grade A4-70	[kN]	26 1.9	41	59	110	172	247		
γM,s	-	[kN] [-]	1.9		I		1			
	Characteristic tensile resistance steel Grade A4-70 Partial safety factor Characteristic tensile resistance steel Grade A4-80	[kN] [-] [kN]			67	126	172 196	247		
γM,s NRk,s	Characteristic tensile resistance steel	[kN] [-]	1.9		67		1			

Unaracteris	stic bond resistance in non-cracked concrete C20/25								
τ _{Rk}	Dry and wet concrete	[N/mm²]	8.5	8.0	9.0	9.0	8.0	7.5	
/M,p	Partial safety factor	[-]		1		1.8			1
r _{Rk}	Flooded hole	[N/mm²]	8.5	8.0	9.0	9.0	8.0	7.5	1
_/ M,p	Partial safety factor	[-]		1		1.8			1
Ψ_{c}	Factor for C25/30 concrete	[-]				1.12			1
Ψ_{c}	Factor for C30/37 concrete	[-]	1.19				1		
Ψ_{c}	Factor for C50/60 concrete	[-]				1.30			1
Splitting fai	ilure								_
S _{cr,sp}	Critical spacing (Splitting)	[mm]	4.0h _{ef} 3.0h _{ef}				Т		
C _{cr,sp}	Critical edge distance (Splitting)	[mm]	2.0h _{ef} 1.5h _{ef}						
уМ,р	Partial safety factor	[-]		0.		1.8			1
Displaceme	ent under tensile loading								_
Nu _{cr}	Service tensile loads in non-cracked concrete	[kN]	6.3	7.9	11.9	23.8	29.8	45.6	Т
δN0	Short term displacement under tensile loads	[mm]	0.2	0.2	0.3	0.5	0.7	0.9	1
δN∞	Long term displacement under tensile loads	[mm]	0.4	0.4	0.4	0.4	0.4	0.4	1
Shear stee	I failure without lever arm								1
V, _{Rk,s}	Characteristic shear steel failure Grade 5.8	[kN]	9	15	21	39	61	88	
V, _{Rk,s}	Characteristic shear steel failure Grade 8.8	[kN]	15	23	34	63	98	141	1
m,sV	Partial safety factor	[-]				1.25			1
I, _{Rk,s}	Characteristic shear steel failure	[kN]	18	29	42	79	123	177	
m,sV	Partial safety factor	[-]				1.5		I	
/ _{,Rk,s}	Characteristic shear steel failure	[kN]	13	20	30	55	86	124	
ym,sV	Partial safety factor	[-]				1.56			
V _{,Rk,s}	Characteristic shear steel failure Grade A4-80	[kN]	15	23	34	63	98	141	1
ym,sV	Partial safety factor	[-]	10	20	01	1.33	70		
	I failure with lever arm	1 11				1.55			
M ⁰ _{Rk,s}	Characteristic bending moment Grade 5.8	[Nm]	19	37	66	166	325	561	Т
M ⁰ _{Rk,s}	Characteristic bending moment Grade 8.8	[Nm]	30	60	105	266	519	898	-
ym,sV	Partial safety factor	[-]	30	00	103	1.25	J17	070	1
M ⁰ _{Rk,s}	Characteristic bending moment Grade 10.9	1	37	75	131	1	649	1100	1
νι _{Rk,s} γm,sV		[Nm]	31	/5	131	333	049	1123	1
	Partial safety factor Characteristic handing mamont. Crade 04 70	[-]	07	F0	00	1.5	45.4	70/	1
M ⁰ _{Rk,s}	Characteristic bending moment Grade A4-70	[Nm]	26	52	92	233	454	786	1
ym,sV	Partial safety factor	[-]		T	4.0-	1.56	1	600	
M ⁰ _{Rk,s}	Characteristic bending moment Grade A4-80	[Nm]	30	60	105	266	519	898	1
ym,sV	Partial safety factor	[-]		1		1.33			ı
M ⁰ _{Rk,s}	Characteristic bending moment 1.4529	[Nm]	26	52	92	233	454	786	
γm,sV	Partial safety factor	[-]	<u></u>			1.25			
•	ryout failure	1	<u> </u>						
Κ 8	Factor in equation EAD 330499-00-0601, Para. 2.2.8, Table 2.6	[-]	2.0						
γМ,с	Partial safety factor	[-]	1.5						
Shear cond	crete edge failure								
ef	Effective anchorage length	[mm]	Effective E	mbedment	Depth (h _{ef})				
Displaceme	ent under shear load								
/	Service shear load in concrete	[kN]	5.2	8.3	12.0	22.4	35.0	50.4	
δ_{v0}	Short term displacement under shear load	[mm]	0.1	0.1	0.2	0.4	0.8	1.5	
δV∞	Long term displacement under shear load	[mm]	0.2	0.2	0.3	0.6	1.2	2.3	1

Ammendment	Date
JF300PSF Removed	16/06/2016
ETAG changed to EAD	19/12/2017

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	0-01			
Ttechnical Manager	19/12/2017	V. t. Veluce			