ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Internet www.etadanmark.dk

Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-25/1027 of 2025/10/24

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S	
Trade name of the construction product:	JCP J-Fix Polyester Styrene Free
Product family to which the above construction product belongs:	Bonded anchor with anchor rod for use in non-cracked concrete Threaded rod sizes: M8 – M24
Manufacturer:	Hexstone Ltd. JCP Construction Products Opal Way Stone Business Park Stone, Staffordshire ST15 OSW - UK Tel. +44 (0)1785 811300 Fax +44 (0)1785 817199 Internet: www.owlett-jaton.com/hexstone-ltd
Manufacturing plant:	JCP – Manufacturing 1
This European Technical Assessment contains:	22 pages including 17 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 330499-01-0601 - Bonded fasteners for use in concrete
This version replaces:	

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

The JCP J-Fix Polyester Styrene Free is a bonded anchor (injection type) consisting of an injection mortar cartridge equipped with a special mixing nozzle and threaded anchor rod of the sizes from M8 to M24 made of:

- galvanized carbon steel,
- stainless steel A4-70, A4-80 or high corrosion resistant stainless steel with hexagon nut and washer.

The threaded rod is placed into a drilled hole previously injected (using an applicator gun) with a mortar with a slow and slight twisting motion. The anchor rod is anchored by the bond between rod, mortar and concrete.

The threaded rod is available for all diameters with three type of tip end a one side 45° chamfer, a two sided 45° chamfer or a flat. The threaded rods are either delivered with the mortar cartridges or commercial standard threaded rods purchased separately. Each mortar cartridge is marked with the identifying mark of the producer and with the trade name. The mortar cartridges are available in different sizes.

The anchor in the range of M8 to M24 and the mortar cartridges corresponds to the drawings given in the Annex A1 to A3.

The characteristic material values, dimensions and tolerances of the anchors not indicated in Annexes shall correspond to the respective values laid down in the technical documentation[1] of this European Technical Assessment.

The anchors are intended to be used with embedment depth given in Annex A2, Table A1. For the installed anchor see Figure given in Annex A1. The intended use specifications of the product are detailed in the Annex B1.

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B1 to B10.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the anchor of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

1 The technical documentation of this European Technical Assessment is deposited at ETA-Danmark and, as far as relevant for the tasks of the Notified bodies involved in the attestation of conformity procedure, is handed over to the notified bodies.

3 Performance of the product and references to the methods used for its assessment

3.1 Characteristics of product

Mechanical resistance and stability (BWR 1):
The essential characteristics are detailed in the Annex from C1 to C4.

Hygiene, health and the environment (BWR3):
No performance assessed.

3.2 Methods of assessment

The assessment of fitness of the anchor for the intended use in relation to the requirements for mechanical resistance and stability in the sense of the Basic Requirements 1 has been made in accordance with EAD 330499-01-0601, on the basis of Option 7.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base.

4.1 AVCP system

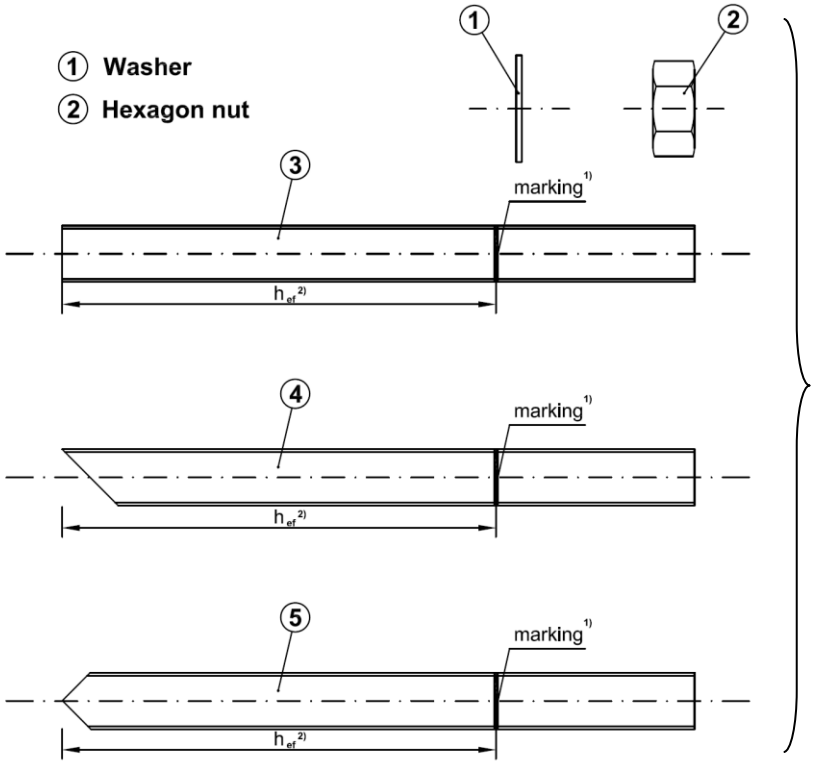
According to the decision 96/582/EC of the European Commission, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2025-10-24 by

Thomas Bruun
Manager, ETA-Danmark



① Washer
② Hexagon nut
③ Version 1 - rod with flat end with marking on h_{ef}
④ Version 2 - rod with 45° cutted end with marking on h_{ef}
⑤ Version 3 - rod with V shape end with marking on h_{ef}

Table A1: Threaded rod dimensions

Size	d [mm]	$h_{ef,min}$ [mm]	$h_{ef,max}$ [mm]
M8	8	60	160
M10	10	70	200
M12	12	80	240
M14	14	80	280
M16	16	100	320
M20	20	120	400
M24	24	145	480

1) Marking according to point 1.1 of EAD 330499-01-0601
2) Effective anchorage depths according to the range specified in Table A1

Table A2: Threaded rod materials

Designation	**Material**				
Steel, zinc plated **electroplated ≥ 5 µm acc. to EN ISO 4042** **hot-dip galvanized ≥ 40 µm acc. to EN ISO 1461**					
Threaded rod	**Property class**	**Characteristic steel ultimate strength**	**Characteristic steel yield strength**	**Fracture elongation**	
	4.8	$f_{uk} \geq 400$ N/mm²	$f_{yk} \geq 320$ N/mm²	$A_5 > 8\%$ [1)]	EN ISO 898-1
	5.8	$f_{uk} \geq 500$ N/mm²	$f_{yk} \geq 400$ N/mm²	$A_5 > 8\%$ [1)]	
	8.8	$f_{uk} \geq 800$ N/mm²	$f_{yk} \geq 640$ N/mm²	$A_5 \geq 12\%$ [1)]	
Hexagon nut	4	for class 4.8 rods			EN 898-2
	5	for class 5.8 rods			
	8	for class 8.8 rods			
Washer	Steel, according to EN ISO 7089; corresponding to anchor rod material				
Stainless steel A2 **(Materials) 1.4301, 1.4307, 1.4567, 1.4541** **Stainless steel A4** **(Materials) 1.4401, 1.4404, 1.4571, 1.4362,1.4578** **High corrosion resistance stainless steel (HCR)** **(Materials) 1.4529, 1.4565**					
Threaded rod	**Property class**	**Characteristic steel ultimate strength**	**Characteristic steel yield strength**	**Fracture elongation**	
	50	$f_{uk} \geq 500$ N/mm²	$f_{yk} \geq 210$ N/mm²	$A_5 > 8\%$ [1)]	EN 10088 EN ISO 3506
	70	$f_{uk} \geq 700$ N/mm²	$f_{yk} \geq 450$ N/mm²	$A_5 \geq 12\%$ [1)]	
	80	$f_{uk} \geq 800$ N/mm²	$f_{yk} \geq 600$ N/mm²	$A_5 \geq 12\%$ [1)]	
Hexagon nut	50	for class 50 rods			EN 10088 EN ISO 3506
	70	for class 70 rods			
	80	for class 80 rods			
Washer	Steel, according to EN 10088; corresponding to anchor rod material				

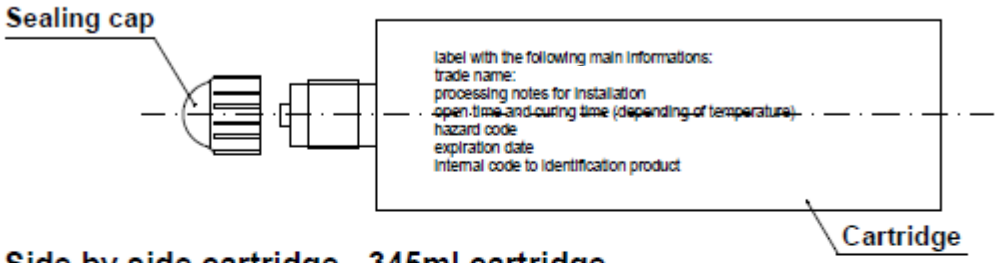
Commercial standard threaded rods may be used, with:

– material and mechanical properties according to Table A3,
– confirmation of material and mechanical properties by inspection certificate 3.1 according to EN-10204:2004,
– marking of the threaded rod with the embedment depth.

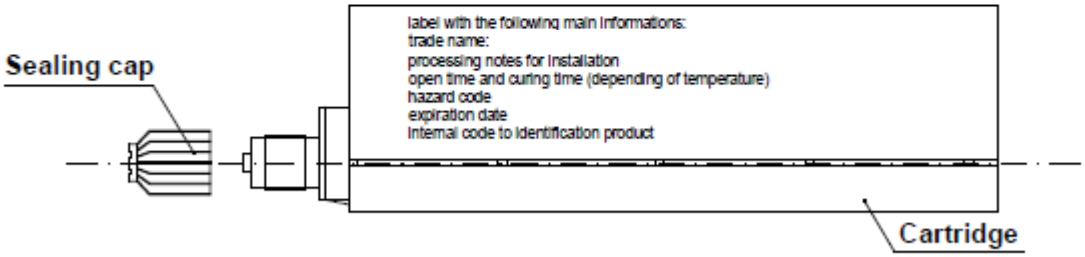
Table A3: Injection mortar

Product	**Composition**
JCP J-Fix Polyester Styrene Free two components injection mortar	Mortar resin styrene-free, hardener, filler

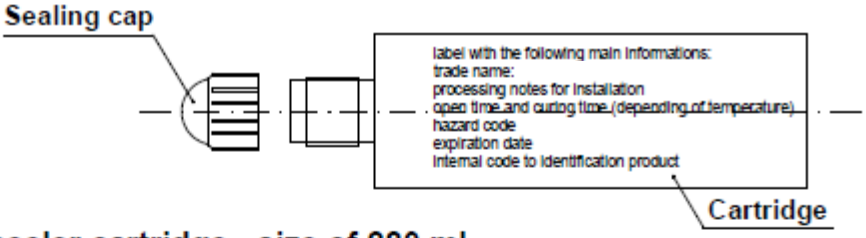
Coaxial cartridge - sizes from 75 ml to 420 ml



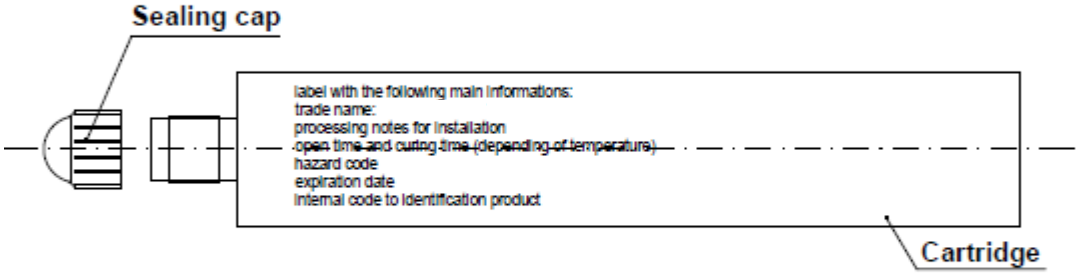
Side by side cartridge - 345ml cartridge



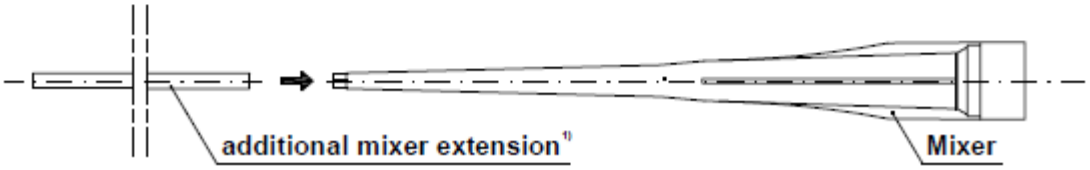
CIC foil cartridge - sizes from 165 ml to 300 ml



Coaxial peeler cartridge - size of 280 ml



MIXER - the mixer is suitable for each type of cartridge



1) Variable length from 380 mm up to 1000 mm

JCP J-FIX POLYESTER STYRENE FREE	**Annex A3** of European Technical Assessment ETA-25/XXXX
Product description Cartridge types and sizes	

Use:
The anchors are intended to be used for anchorages for which requirements for mechanical resistance and stability in the sense of the Basic Requirement 1 (EU) 305/2011 shall be fulfilled and failure of anchorages made with these products would compromise the stability of the works, cause risk to human life and/or lead to considerable economic consequences.

Anchors subject to:
- Static and quasi-static loads: sizes from M8 to M24

Base materials:
- Reinforced or unreinforced normal weight concrete of strength class C20/25 at minimum to C50/60 at maximum according to EN 206-1.
- Non cracked concrete for M8 to M24

Temperature range:
The anchors may be used in the following temperature range:
a) -40°C to +50°C (max. short term temperature +50°C and max. long term temperature +40°C).

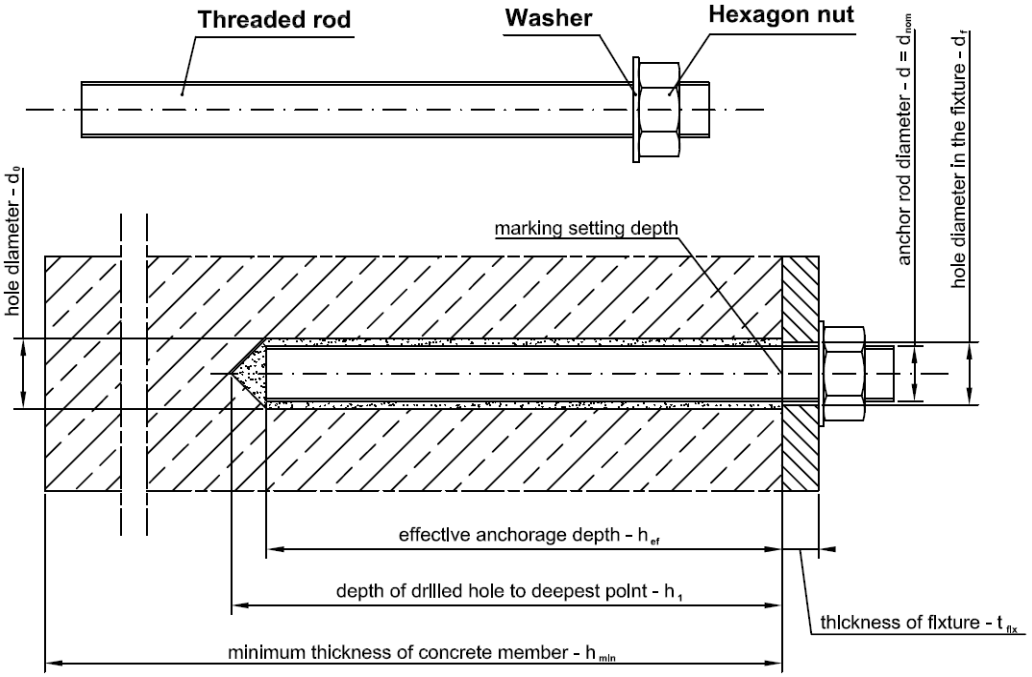
Use conditions (Environmental conditions):
- Structures subject to dry internal conditions: all materials according to Table A2.
- For all other conditions according to EN 1993-1-4:2006+A1:2015 corresponding to corrosion resistance class:
- Stainless steel A2 according to Annex A2, Table A3: CRC II
- Stainless steel A4 according to Annex A2, Table A3: CRC III
- High corrosion resistance steel HCR according to Annex A2, Table A3: CRC V

Installation:
The anchors may be installed in:
- Dry, wet concrete (use category I1) for all sizes
- Overhead installation allowed.
- The anchor is suitable for hammer drilled holes (HD) and compressed air drill (CA) for all sizes

Proposed design methods:
- Verifiable calculation notes and drawings are prepared taking account of the loads to be anchored. The position of the anchor is indicated on the design drawings (e. g. position of the anchor relative to reinforcement or to supports, etc.).
- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Anchorages under static or quasi-static loads are designed in accordance to EN 1992-4 and Technical Report TR055.

Table B1: Installation data for threaded rod

Size		M8	M10	M12	M14	M16	M20	M24
Nominal drilling diameter	d_0 [mm]	10	12	14	16	18	22-24	28
Maximum diameter hole in the fixture	d_{fix} [mm]	9	12	14	16	18	22	26
Embedment depth	$h_{ef,min}$ [mm]	60	70	80	80	100	120	145
	$h_{ef,max}$ [mm]	160	200	240	280	320	400	480
Depth of the drilling hole	h_1 [mm]	h_{ef} + 5 mm						
Minimum thickness of the slab	h_{min} [mm]	h_{ef} + 30 mm; ≥ 100 mm			h_{ef} + $2d_0$			
Torque moment	T_{inst} [Nm]	10	20	40	40	80	130	200
Minimum spacing	S_{min} [mm]	40	50	60	75	75	90	115
Minimum edge distance	C_{min} [mm]	40	40	40	50	50	55	60



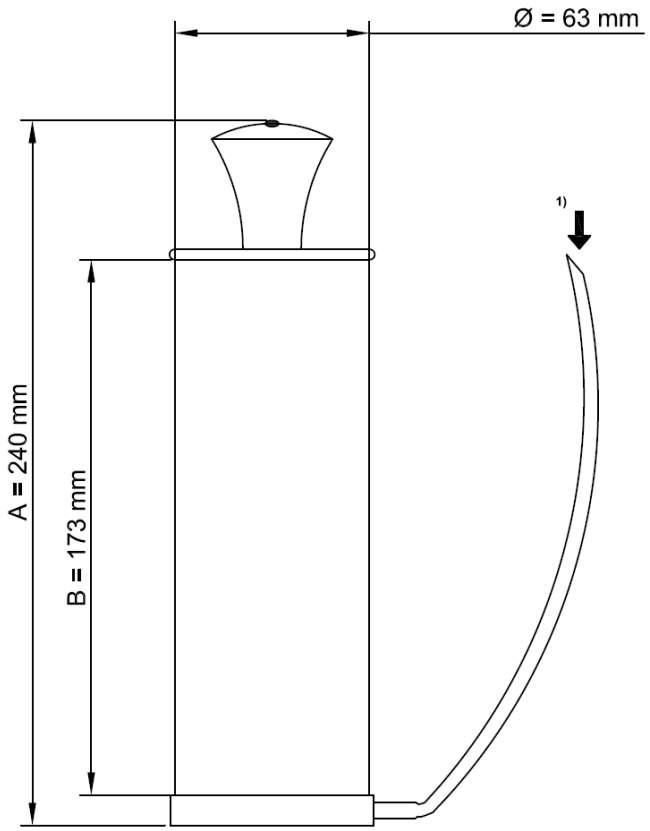
JCP J-FIX POLYESTER STYRENE FREE	**Annex B2**
Intended use Installation data for threaded rods	of European Technical Assessment ETA-25/XXXX

Table B2: Minimum curing time [1)]

Concrete temperature	Processing time	Minimum curing time [3)]
-5°C [2)]	30 min	360 min
0°C [2)]	25 min	180 min
5°C [2)]	15 min	120 min
10°C	12 min	90 min
15°C	8 min	60 min
20°C	6 min	45 min
25°C	4 min	30 min
30°C	3 min	20 min
40°C	1 min	20 min

1) the minimum time from the end of the mixing to the time when the anchor may be torque or loaded.
2) minimum resin temperature recommended, for injection between -5°C and 5°C, equal to 10°C.
3) minimum curing time for dry and wet conditions.

Manual blower pump: nominal dimensions



It is possible to use the mixer extension with the manual blower pump.

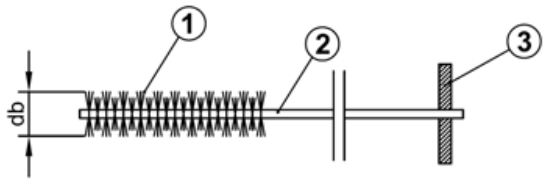
However it is possible to blow the hole using the mechanical air system (compressed air) also with the mixer estension

Suitable min pressure 6 bar at 6 m³/h
Oil-free compressed air
Recommended air gun with an orifice opening of minimum 3.5 mm in diameter

1) Position to insert the mixer extension

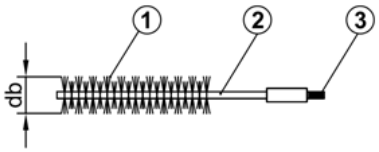
Mixer extension (from 380 mm to 1000 mm) with nominal diameter equal to 10 mm

Standard brush



① Steel bristles
② Steel stem
③ Wood handle

Special brush



① Steel bristles
② Steel stem
③ Threaded connection for drilling tool extension
④ Extension special brush
⑤ Drilling tool connection (SDS connection)

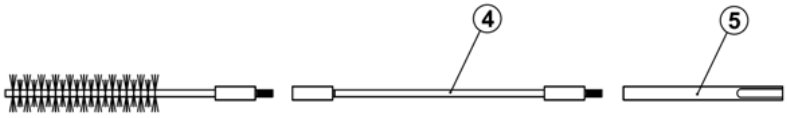
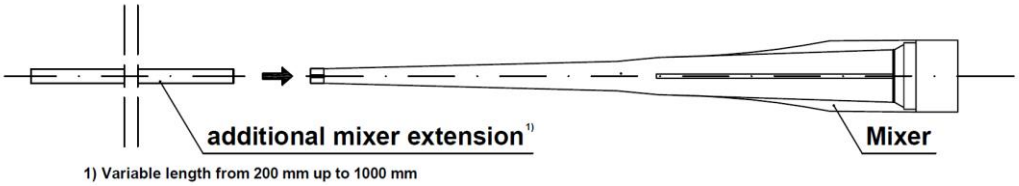


Table B3: Brush diameter for threaded rod

Threaded rod diameter - d			**M8**	**M10**	**M12**	**M14**	**M16**	**M20**	**M24**
d_0	Nominal drill hole	[mm]	10	12	14	16	18	22-24	28
d_b	Brush diameter	[mm]	12	14	16	18	20	26	30

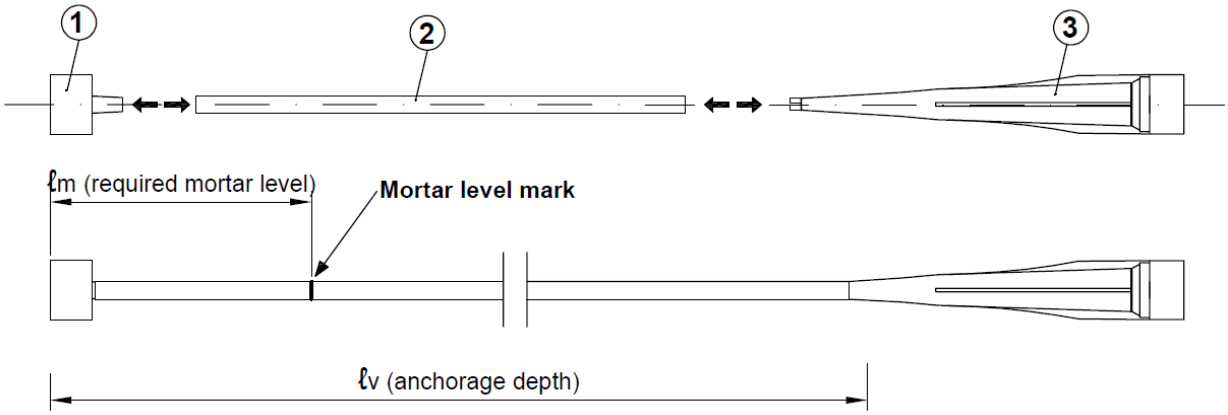
Injection up to 300 mm:

Use the mixer or, if necessary, the mixer with the mixer extension assembled.



Injection up to 480 mm and/or overhead installation:

It is recommended to use the system as described in the pictures below.
Use pneumatic or battery dispenser.

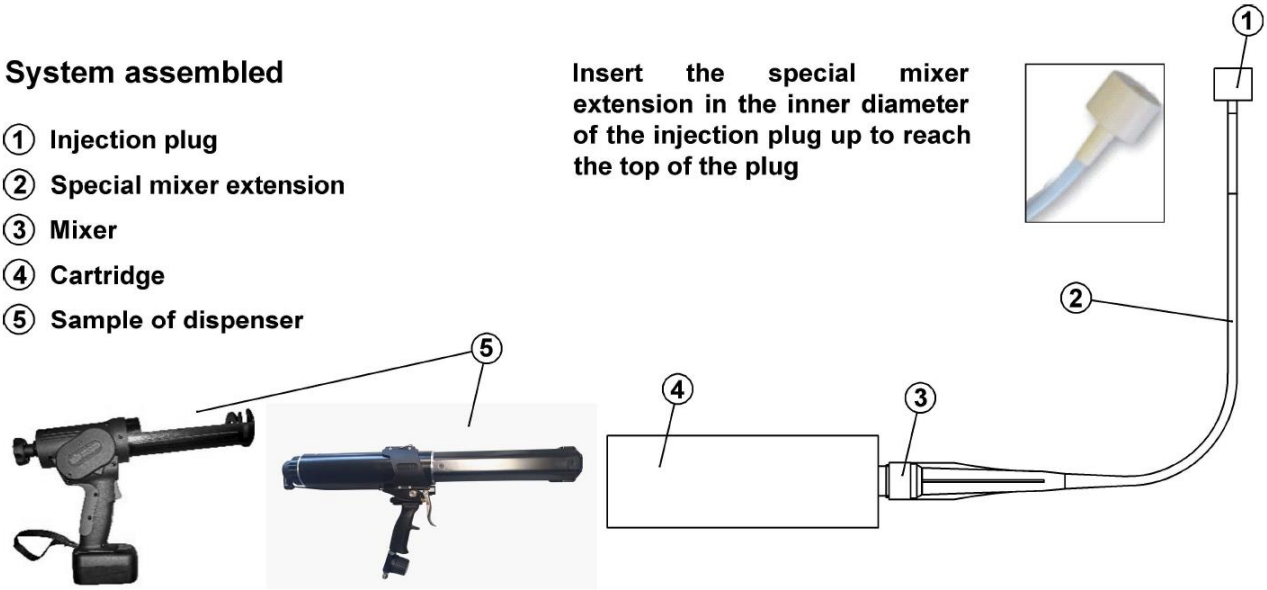


Mark the required mortar level ℓm and embedment depth ℓv with tape or marker on the injection extension.
Quick estimation: ℓm = 1/3 · ℓv. Continue injection until the mortar level mark ℓm becomes visible.

System assembled

1. Injection plug
2. Special mixer extension
3. Mixer
4. Cartridge
5. Sample of dispenser

Insert the special mixer extension in the inner diameter of the injection plug up to reach the top of the plug

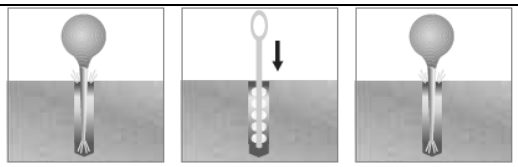
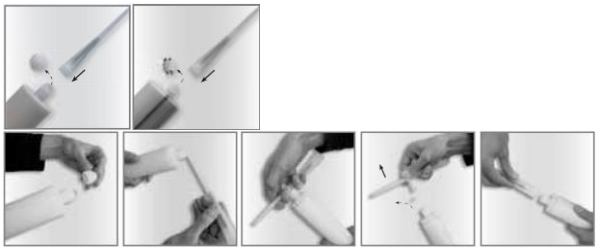
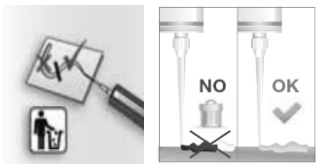
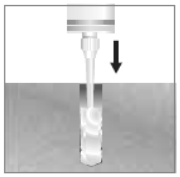
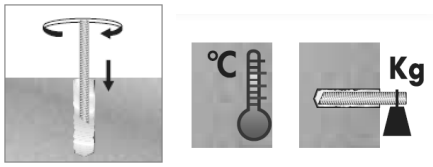


JCP J-FIX POLYESTER STYRENE FREE	**Annex B6** of European Technical Assessment ETA-25/XXXX
Intended use Tools for installation (1)	

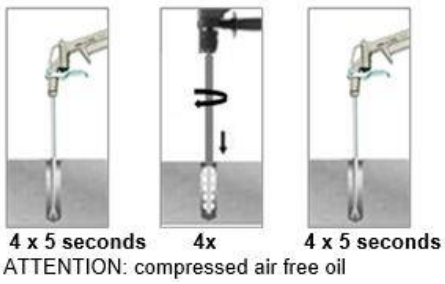
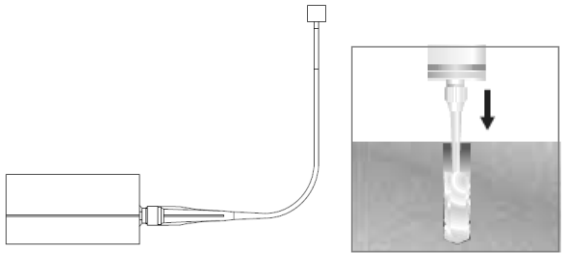
Table B5: Mortar injection dispenser

Injection dispensers	Cartridges	Maximum depth of the drilled hole
 *Manual*	420 ml 400 ml 380 ml	up to 300 mm *
 *Manual*	345 ml 300 ml 280 ml 165 ml	up to 300 mm *
 *Manual*	300 ml 280 ml 165 ml	up to 300 mm *
 *Pneumatic*	420 ml 400 ml 380 ml	up to 480 mm *
 *Battery*	420 ml 400 ml 380 ml 345 ml 300 ml	up to 480 mm *

*** Note: use the mixer extension described in Annex B6 for the injection of the mortar**

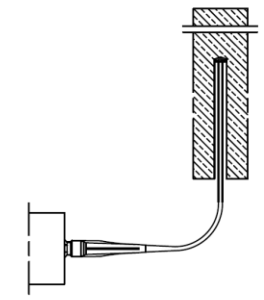
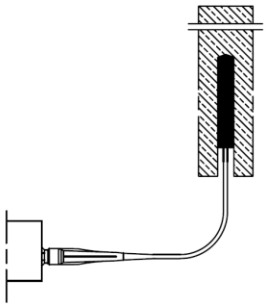
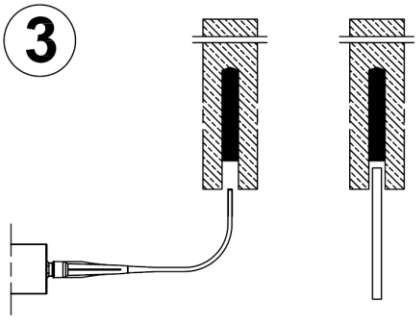
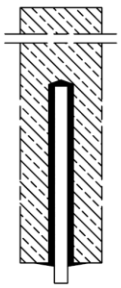
1		Drill the hole with the correct diameter and depth using a rotary percussive machine. Check the perpendicularity of the hole during the drilling operation.
2	 **4 x Blower** **4 x Brush** **4 x Blower** **If necessary, use a mixer extension for the blower operation (see Annex B4). In case of use of compressed air each blower operation must be done for 5 seconds. Use compressed air free oil.**	Clean the hole from drilling dust: The hole shall be cleaned by at least 4 blowing operations, by at least 4 brushing operations followed again by at least 4 blowing operations; before brushing clean the brush and check (see Annex B5) if the brush diameter is sufficient. For the blower tools see Annex B4.
3		For coaxial, side by side and peeler cartridges unscrew the front cup, screw on the mixer and insert the cartridge in the gun. For the size 300 ml and 165 ml, unscrew the front cup, pull-out the steel closing clip according to the following operations: - insert the mixer in the eye of the plastic extractor, - pull the extractor to unhook the steel closing clip of the foil. In the version without extractor cut the foil pack. After that, screw on the mixer and insert the cartridge in the gun.
4		Before starting to use the cartridge, eject a first part of the product, being sure that the two components are completely mixed. The complete mixing is reached only after that the product, obtained by mixing the two components, comes out from the mixer with a uniform color.
5	 **If necessary, use a mixer extension for the injection (see Annex A3)**	Fill the drilled hole uniformly starting from the drilled hole bottom, in order to avoid entrapment of the air; remove the mixer slowly bit by bit during pressing-out; filling the drill hole with a quantity of the injection mortar corresponding to 2/3 of the drill hole depth.
6	 **ATTENTION:** **Use the rods dry and free oil and other contaminants**	Insert immediately the steel element, marked according to the proper anchorage depth, slowly and with a slight twisting motion, removing excess of injection mortar around the steel element. Observe the processing time according Annex B3. Wait the curing time according Annex B3.

JCP J-FIX POLYESTER STYRENE FREE	**Annex B8** of European Technical Assessment ETA-25/XXXX
Intended use Procedure of installation up to 300 mm depth	

1	**See clause 1 Annex B8**	
2		Clean the hole from drilling dust: the hole shall be cleaned by at least 4 blowing operations (5 seconds for single operation) with compressed air, by at least 4 brushing operations with special brush followed again by at least 4 blowing operations (5 seconds for single operation) with compressed air. Before brushing clean the brush and check if the brush diameter is sufficient.
3	**See clause 3 Annex B8**	
4	**See clause 4 Annex B8**	
5		Before starting the injection, assemble the system according to Annex B6. After that, fill the drilled hole uniformly from the drilled hole bottom, in order to avoid entrapment of the air; remove the special mixer extension with injection plug slowly bit by bit during pressing-out; filling the drill hole with a quantity of the injection mortar corresponding to 2/3 of the drill hole depth. Procedure for overhead installation is detailed in Annex B10.
6	**See clause 6 Annex B8**	

JCP J-FIX POLYESTER STYRENE FREE	**Annex B9** of European Technical Assessment ETA-25/XXXX
Intended use Procedure of installation up to 480 mm depth	

For overhead installation follow the procedure detailed in Annex B8 or B9 up to point 4.
Put the mixer extension (cut the proper length) on the mixer see Annex B6 and follow the below procedure:

1 	**1 - Start injection** **Inject from the bottom of the hole. Use battery or pneumatic dispenser if the anchorage depth is grater than 200 mm.**
2 	**2 - Injection phase** **Inject the product about 2/3 of the hole depth.** **Remove the mixer extension slowly bit by bit during pressing-out.**
3 	**3 - End injection** **Remove the mixer extension. Insert immediately the steel element (turn the steel element during the insertion).**
4 	**4 - End installation** **To avoid the slipping of the steel element during the open time of the product (due to the steel element own weigth) use a temporary interlocking element (for ex. wedge of wood)**

Observe the open time and wait for the curing time according to Annex B3.

JCP J-FIX POLYESTER STYRENE FREE	**Annex B10** of European Technical Assessment ETA-25/XXXX
Intended use Overhead installation instruction	

Table C1: Characteristic values for steel: tension resistance and shear resistance for threaded rods

Size			M8	M10	M12	M14	M16	M20	M24
Steel failure – characteristic tension resistance									
Steel class 4.8	$N_{Rk,s}$	[kN]	15	23	34	46	63	98	141
Steel class 5.8	$N_{Rk,s}$	[kN]	18	29	42	58	78	122	176
Steel class 8.8	$N_{Rk,s}$	[kN]	29	46	67	92	126	196	282
Stainless steel A2, A4, HCR class 50	$N_{Rk,s}$	[kN]	18	29	42	58	78	122	176
Stainless steel A2, A4, HCR class 70	$N_{Rk,s}$	[kN]	26	41	59	81	110	171	247
Stainless steel A4, HCR class 80	$N_{Rk,s}$	[kN]	29	46	67	92	126	196	282
Steel failure – characteristic tension resistance – partial factor									
Steel class 4.8	$\gamma_{Ms,N}$ [1)]	[-]	1,50						
Steel class 5.8	$\gamma_{Ms,N}$ [1)]	[-]	1,50						
Steel class 8.8	$\gamma_{Ms,N}$ [1)]	[-]	1,50						
Stainless steel A2, A4, HCR class 50	$\gamma_{Ms,N}$ [1)]	[-]	2,86						
Stainless steel A2, A4, HCR class 70	$\gamma_{Ms,N}$ [1)]	[-]	1,87						
Stainless steel A4, HCR class 80	$\gamma_{Ms,N}$ [1)]	[-]	1,60						
Steel failure – characteristic shear resistance without lever arm									
Steel class 4.8	$V^0_{Rk,s}$	[kN]	7	12	17	23	31	49	71
Steel class 5.8	$V^0_{Rk,s}$	[kN]	9	14	21	29	39	61	88
Steel class 8.8	$V^0_{Rk,s}$	[kN]	15	23	34	46	63	98	141
Stainless steel A2, A4, HCR class 50	$V^0_{Rk,s}$	[kN]	9	14	21	29	39	61	88
Stainless steel A2, A4, HCR class 70	$V^0_{Rk,s}$	[kN]	13	20	29	40	55	86	124
Stainless steel A4, HCR class 80	$V^0_{Rk,s}$	[kN]	15	23	34	46	63	98	141
Steel failure – characteristic shear resistance with lever arm									
Steel class 4.8	$M^0_{Rk,s}$	[Nm]	15	30	52	83	133	260	449
Steel class 5.8	$M^0_{Rk,s}$	[Nm]	19	37	65	104	166	324	561
Steel class 8.8	$M^0_{Rk,s}$	[Nm]	30	60	105	167	266	519	898
Stainless steel A2, A4, HCR class 50	$M^0_{Rk,s}$	[Nm]	19	37	66	104	166	324	561
Stainless steel A2, A4, HCR class 70	$M^0_{Rk,s}$	[Nm]	26	52	92	146	233	454	786
Stainless steel A4, HCR class 80	$M^0_{Rk,s}$	[Nm]	30	60	105	167	266	519	898
Steel failure – characteristic shear resistance – partial factor									
Steel class 4.8	$\gamma_{Ms,V}$ [1)]	[-]	1,25						
Steel class 5.8	$\gamma_{Ms,V}$ [1)]	[-]	1,25						
Steel class 8.8	$\gamma_{Ms,V}$ [1)]	[-]	1,25						
Stainless steel A2, A4, HCR class 50	$\gamma_{Ms,V}$ [1)]	[-]	2,38						
Stainless steel A2, A4, HCR class 70	$\gamma_{Ms,V}$ [1)]	[-]	1,56						
Stainless steel A4, HCR class 80	$\gamma_{Ms,V}$ [1)]	[-]	1,33						

[1)] In the absence of national regulation

Table C2: Characteristic values in tension: resistance in non-cracked concrete for threaded rods

Size			**M8**	**M10**	**M12**	**M14**	**M16**	**M20**	**M24**
Steel failure									
Characteristic resistance	$N_{Rk,s}$	[kN]	See Annex C1 – Table C1						
Partial factor	$\gamma_{Ms,N}$	[-]	See Annex C1 – Table C1						
Combined pull-out and concrete cone failure in non-cracked concrete C20/25									
Characteristic bond resistance temperature range -40°C / +50°C	$\tau_{Rk,ucr}$	[N/mm²]	12,0	12,0	11,0	10,0	9,0	9,0	8,0
Reduction and increasing factor for concrete									
Increasing factor for non-cracked concrete related to strength f_{ck}	$\psi_{c,ucr}$	[-]	1,0						
Sustained load factor temperature range -40°C / +50°C	ψ^0_{sus}	[-]	0,74						
Concrete cone failure									
Factor for non-cracked concrete	$k_{ucr,N}$	[-]	11,0						
Edge distance	$c_{cr,N}$	[mm]	$1,5\ h_{ef}$						
Spacing	$s_{cr,N}$	[mm]	$3,0 \cdot h_{ef}$						
Splitting failure									
$S_{cr,sp}$ [mm]	for $h = h_{min}$		$S_{cr,sp} = 4\ h_{ef}$						
	if $h_{min} \le h < 2\ h_{ef}$		$S_{cr,sp}$ = interpolated value						
	if $h \ge 2\ h_{ef}$		$S_{cr,sp} = S_{cr,Np} = 20\ d\ (\tau_{Rk,ucr}/7,5)^{\wedge 0,5} \le 3\ h_{ef}$						
$C_{cr,sp}$ [mm]			$0,5\ S_{cr,sp}$						
Installation factor for combined pull-out, concrete cone and splitting failure									
Installation factors for category I1	γ_{inst}	[-]	1,2						

Table C3: Characteristic values in shear: resistance in non-cracked concrete for threaded rods

Size			**M8**	**M10**	**M12**	**M14**	**M16**	**M20**	**M24**
Steel failure without lever arm									
Characteristic resistance	$V^0_{Rk,s}$	[kN]	See Annex C1 – Table C1						
Partial factor	$\gamma_{Ms,V}$	[-]	See Annex C1 – Table C1						
Ductility factor	k_7	[-]	1,0						
Steel failure with lever arm									
Characteristic resistance	$M^0_{Rk,s}$	[Nm]	See Annex C1 – Table C1						
Partial factor	$\gamma_{Ms,V}$	[-]	See Annex C1 – Table C1						
Concrete pry out failure									
Factor	k_8	[-]	2,0						
Installation factor	γ_{inst}	[-]	1,0						
Concrete edge failure									
Effective length of anchor under shear loading	l_f	[mm]	$l_f = h_{ef}$ and $\leq 12\ d_{nom}$						
Installation factor	γ_{inst}	[-]	1,0						

Table C6: Displacements under service loads (static and quasi static) in non-cracked concrete.

Size	M8	M10	M12	M14	M16	M20	M24
Displacement under service load Tensile load for concrete from C20/25 to C50/60							
$\delta_{N0,unc}$ [mm/(N/mm^2)]	0,025	0,025	0,032	0,030	0,039	0,039	0,050
$\delta_{N\infty,unc}$ [mm/(N/mm^2)]	0,061	0,061	0,066	0,073	0,081	0,081	0,091
Displacement under service load Shear load for concrete from C20/25 to C50/60							
$\delta_{V0,unc}$ [mm/kN]	0,033	0,021	0,016	0,010	0,009	0,006	0,005
$\delta_{V\infty,unc}$ [mm/kN]	0,049	0,031	0,025	0,016	0,013	0,009	0,007