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European Technical Assessment

ETA-14/0081 of 14/04/2014

English translation prepared by CSTB - Original version in French language

diamètres M8, M10 et M12

28 rue Paul Dubrule 59 854 LESQUIN

Scell-it A4-BZ2

Scell-it

France

Plant 1

cette évaluation

this assessment

General Part

Nom commercial *Trade name*

Famille de produit *Product family*

Titulaire *Manufacturer*

Usine de fabrication *Manufacturing plants*

Cette evaluation contient: This Assessment contains

Base de l'ETE Basis of ETA ETAG 001, Version April 2013, utilisée en tant que EAD ETAG 001, Edition April 2013 used as EAD

15 pages incluant 12 annexes qui font partie intégrante de

15 pages including 12 annexes which form an integral part of

Cheville métallique à expansion par vissage à couple

Torque-controlled expansion anchor for use in cracked and

contrôlé, de fixation dans le béton fissuré et non fissuré

uncracked concrete: sizes M8, M10 and M12

Cette evaluation remplace: *This Assessment replaces*

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Specific Part

1 Technical description of the product

The Scell-it A4-BZ2 anchor is an anchor made of stainless steel which is placed into a drilled hole and anchored by torque-controlled expansion.

The anchor is placed into a drilled hole and anchored by torque-controlled expansion.

The illustration and the description of the product are given in Annexes A.

2 Specification of the intended use

The performances given in Section 3 are only valid if the anchor is used in compliance with the specifications and conditions given in Annexes B.

The provisions made in this European technical assessment are based on an assumed 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, 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.

3 Performance of the product

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Characteristic tension resistance acc. ETAG001, Annex C	See Annex C 1
Characteristic shear resistance acc. ETAG001, Annex C	See Annex C 2
Characteristic tension resistance acc. CEN/TS 1992-4	See Annex C 5
Characteristic shear resistance acc. CEN/TS 1992-4	See Annex C 6
Displacements	See Annex C 9

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Anchorages satisfy requirements for Class A1
Characteristic tension resistance under fire acc. ETAG001, Annex C	See Annex C 3
Characteristic shear resistance under fire acc. ETAG001, Annex C	See Annex C 4
Characteristic tension resistance under fire acc. CEN/TS 1992-4	See Annex C 7
Characteristic shear resistance under fire acc. CEN/TS 1992-4	See Annex C 8

3.3 Hygiene, health and the environment (BWR 3)

Regarding dangerous substances contained in this European technical approval, there may be requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Directive, these requirements need also to be complied with, when and where they apply.

3.4 Safety in use (BWR 4)

For Basic requirement Safety in use the same criteria are valid as for Basic Requirement Mechanical resistance and stability.

3.5 Protection against noise (BWR 5)

Not relevant.

3.6 Energy economy and heat retention (BWR 6)

Not relevant.

3.7 Sustainable use of natural resources ((BWR 7)

For the sustainable use of natural resources no performance was determined for this product.

3.8 General aspects relating to fitness for use

Durability and Serviceability are only ensured if the specifications of intended use according to Annex B 1 are kept.

4 Assessment and verification of constancy of performance (AVCP)

According to the Decision 96/582/EC of the European Commission¹, as amended, the system of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table apply.

Product	Intended use	Level or class	System
Metal anchors for use in concrete	For fixing and/or supporting to concrete, structural elements (which contributes to the stability of the works) or heavy units	_	1

5 Technical details necessary for the implementation of the AVCP system

Technical details necessary for the implementation of the Assessment and verification of constancy of performance (AVCP) system are laid down in the control plan deposited at Centre Scientifique et Technique du Bâtiment.

The manufacturer shall, on the basis of a contract, involve a notified body approved in the field of anchors for issuing the certificate of conformity CE based on the control plan.

The original French version is signed by

Charles Baloche Technical Director

Official Journal of the European Communities L 254 of 08.10.1996



Table 1: Materials

Part	Designation	Material	Protection
1	Bolt	Stainless steel A4 SS316 ¹⁾	-
2	Expansion clip	Stainless steel A4 SS316 ¹⁾	Coated
3	Washer	ISO 3506-1 Stainless steel SS316 ¹⁾ DIN 125, DIN 9021,or EN ISO 7089	-
4	Hexagonal nut	ISO 3506-2 Stainless steel SS316 (A4-70) DIN 934 or DIN EN ISO 4032 SS316 (A4-70) acc. To ISO 3506	-

1) Material: 1.4401;1.4404;1.4571;1.4362;1.4578

 Scell-it A4-BZ2 anchor

 Product description

 Materials

Specifications of intended use

Anchorages subject to:

• Static, quasi-static and fire.

Base materials:

- Cracked concrete and non-cracked concrete
- Reinforced or unreinforced normal weight concrete of strength classes C 20/25 at least to C50/60 at most according to ENV 206: 2000-12.

Use conditions (Environmental conditions):

 The anchor may be used in concrete subject to dry internal conditions and also in concrete subject to external atmospheric exposure (including industrial and marine environment), or exposure in permanently damp internal conditions, if no particular aggressive conditions exist. Such particular aggressive conditions are e.g. permanent, alternating immersion in seawater or the splash zone of seawater, chloride atmosphere of indoor swimming pools or atmosphere with extreme chemical pollution (e.g. in desulphurization plants or road tunnels where de-icing materials are used).

Design:

- The anchorages are designed in accordance with the ETAG001 Annex C "Design Method for Anchorages" or CEN/TS 1992-4-4 " Design of fastenings for use in concrete" under the responsibility of an engineer experienced in anchorages and concrete work.
- For application with resistance under fire exposure the anchorages are designed in accordance with method given in TR020 "Evaluation of Anchorage in Concrete concerning Resistance to Fire".
- 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.

Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site.
- Use of the anchor only as supplied by the manufacturer without exchanging the components of an anchor.
- Anchor installation in accordance with the manufacturer's specifications and drawings and using the appropriate tools.
- Effective anchorage depth, edge distances and spacing not less than the specified values without minus tolerances.
- Hole drilling by hammer drill.
- Cleaning of the hole of drilling dust.
- Application of specified torque moment using a calibrated torque wrench.
- In case of aborted hole, drilling of new hole at a minimum distance of twice the depth of the aborted hole, or smaller distance provided the aborted drill hole is filled with high strength mortar and no shear or oblique tension loads in the direction of aborted hole.

Scell-it A4-BZ2 anchor	
Intended Use Specifications	Annex B1

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Table 2: Anchor dimensions			M8	M10	M12	
Length of the anchor Min. Max.			[mm]	75	90	110
		- L	[mm]	160	180	180
Mir	Min.	n. ax. t _{fix}	[mm]	1	1	1
Fixture inickness	Max.		[mm]	90	90	80
Length expansion sleeve I _{clip}		I _{clip}	[mm]	13.5	18.0	21.5
Width torque wrench SW [mm		[mm]	13	17	19	

Table 3: Installation data			M8	M10	M12
Drill hole diameter	d₀	[mm]	≤ 8,45	≤ 10,45	≤ 12,50
Drill hole depth	h ₁	[mm]	60	75	85
Embedment depth	h _{ef}	[mm]	45	60	70
Installation torque	T _{inst}	[Nm]	20	45	60
Diameter through hole fixture	d _f	[mm]	9	12	14
Min. member thickness	h _{min}	[mm]	100	120	140
Minimum edge distance	C _{min}	[mm]	70	80	90
Minimum spacing	S _{min}	[mm]	70	80	90



Scell-it A4-BZ2 anchor

Intended Use Installation parameters Annex B2

Table 4: Characteristic values for tension loads in case of static and quasi static loading for design design method A acc. ETAG001, Annex C

				M8	M10	M12
Steel failure						
Char. resistance		N _{Rk,s}	[kN]	19,1	30,9	49,6
Partial safety facto	r	γ _{Ms} ¹⁾	[-]		1,5	
Pullout failure N _F						
Char. resistance i	n cracked	N ⁰ _{Rk,p}	[kN]	2,0	6,0	12,0
concrete C20/25	non-cracked	N ⁰ _{Rk,p}	[kN]	6,0	12,0	16,0
Partial safety factor for cracked or non-cracked concrete		γ _{Mp} ¹⁾	[-]		1,8 ²⁾	
	concrete C30/37		[-]	1,06		
Increasing factor	concrete C40/50	Ψc	[-]	1,11 1,14		
	concrete C50/60		[-]			
Concrete cone fa	ilure and splitting failu	re				
Effective embedm	ent depth	h _{ef}	[mm]	45	60	70
Partial safety factor for craked or non-	or cracked concrete	$\gamma_{Mc}=\gamma_{Msp}^{1)}$			1,8 ²⁾	
	concrete C30/37		[-]		1,06	
Increasing factor	concrete C40/50	Ψc	[-]	-] 1,11		
	concrete C50/60		[-]	1,14		
Char spacing	concrete cone failure	S _{cr,N}	[mm]	135	180	210
Char. spacing	splitting failure	S _{cr,sp}	[mm]	200	290	420
Char. edge	concrete cone failure	C _{cr,N}	[mm]	67,5	90	105
distance	splitting failure	C _{cr,sp}	[mm]	100	145	210

 $^{1)}$ In absence of other national regulations $^{2)}$ The value contains an installation safety factor γ_2 = 1.2

Scell-it A4-BZ2 anchor

Design according to ETAG001, Annex C

Characteristic resistance under tension loads

Table 5: Characteristic values for shear loads in case of static and quasi static loading for design method A acc. ETAG001, Annex C

			M8	M10	M12	
Steel failure without lever arm						
Char. resistance	$V_{Rk,s}$	[kN]	10,8	17,1	24,9	
Partial safety factor	γ _{Ms} 1)	[-]	1,25			
Steel failure with lever arm						
Char. bending resistance	M ⁰ _{Rk,s}	[Nm]	22,1	44,1	77,3	
Partial safety factor	γ _{Ms} ¹⁾	[-]	1,25			
Concrete pry-out failure						
Factor in equation (5.6) of ETAG Annex C, § 5.2.3.3	k	[-]	1,0	2,0	2,0	
Partial safety factor	γ _{Mc} 1)	[-]		1,5		
Concrete edge failure						
Effective length of anchor under shear loading	۱ _f	[mm]	45	60	70	
Outside diameter of anchor	d _{nom}	[mm]	8	10	12	
Partial safety factor	γ _{Mc} ¹⁾	[-]		1,5		

¹⁾ In absence of other national regulations

Scell-it A4-BZ2 anchor

Design according to ETAG001, Annex C

Characteristic resistance under shear loads

Table 6: Characteristic tension resistance in cracked and non-cracked concrete under fire exposure for design method A acc. ETAG001, Annex C

			M8	M10	M12
Steel failure					
	R30 N _{Rk,s,fi}	[kN]	0,7	1,5	2,5
Characteristic resistance	R60 N _{Rk,s,fi}	[kN]	0,6	1,2	2,1
	R90 N _{Rk,s,fi}	[kN]	0,4	0,9	1,7
	R120 N _{Rk,s,fi}	[kN]	0,4	0,8	1,3

Pullout failure (cracked and non-cracked concrete)						
Char. resistance in concrete ≥ C20/25	R30 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R60 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R90 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R120 N _{Rk,p,fi}	[kN]	0,4	1,2	2,4	

Concrete cone and splitting failure ²⁾ (cracked and non-cracked concrete)						
Char. resistance in concrete ≥ C20/25	R30 N ⁰ _{Rk,c,fi}	[kN]	2,4	5,0	7,4	
	R60 N ⁰ _{Rk,c,fi}	[kN]	2,4	5,0	7,4	
	R90 $N^0_{Rk,c,fi}$	[kN]	2,4	5,0	7,4	
	R120 N ⁰ _{Rk,c,fi}	[kN]	2,0	4,0	5,9	
Characteristic spacing	S _{cr,N,fi}	[mm]	180	240	280	
Characteristic edge distance	C _{cr,N,fi}	[mm]	90	120	140	

¹⁾ Design under fire exposure is performed according to the design method given in TR 020. Under fire exposure usually cracked concrete is assumed. The design equations are given in TR 020, Section 2.2.1.

²⁾ As a rule, splitting failure can be neglected when cracked concrete and reinforcement is assumed.

TR 020 covers design for fire exposure from one side. For fire attack from more than one side the edge distance must be increased to $c_{min} \ge 300$ mm and $\ge 2 \cdot h_{ef}$.

Scell-it A4-BZ2 anchor	
Design according to ETAG001, Annex C Characteristic tension resistance under fire exposure	Annex C3

Table 7: Characteristic shear resistance in cracked and non-cracked concrete under fire exposure for design method A acc. ETAG001, Annex C

			M8	M10	M12
Steel failure without lever arm					
	R30 V _{Rk,s,fi}	[kN]	0,7	1,5	2,5
Obere starietie register of	R60 V _{Rk,s,fi}	[kN]	0,6	1,2	2,1
Characteristic resistance	R90 V _{Rk,s,fi}	[kN]	0,4	0,9	1,7
	R120 V _{Rk,s,fi}	[kN]	0,4	0,8	1,3
Steel failure with lever arm					
	R30 M ⁰ _{Rk,s,fi}	[Nm]	0,75	1,9	3,9
	R60 M ⁰ _{Rk,s,fi}	[Nm]	0,60	1,5	3,3
Characteristic bending moment	R90 M ⁰ _{Rk,s,fi}	[Nm]	0,45	1,2	2,6
	R120 M ⁰ _{Rk,s,fi}	[Nm]	0,37	1,0	2,1
Concrete pry-out failure					1
Factor in equation (5.6) of ETAG Annex C, § 5.2.3.3	k	[-]	1,0	2,0	2,0
	R30 V _{Rk,cp,fi}	[kN]	2,4	10,0	14,8
	R60 V _{Rk, cp,fi}	[kN]	2,4	10,0	14,8
Characteristic resistance	R90 V _{Rk, cp,fi}	[kN]	2,4	10,0	14,8
	R120 V _{Rk, cp,fi}	[kN]	2,0	8,0	11,8
Concrete edge failure					
		ſ			
Eff. length of anchor under shear loading	l _f	[mm]	45	60	70
loading					

TR 020 covers design for fire exposure from one side. For fire attack from more than one side the edge distance must be increased to $c_{min} \ge 300$ mm and $\ge 2 \cdot h_{ef}$.

Scell-it A4-BZ2 anchor	
Design according to ETAG001, Annex C Characteristic shear resistance under fire exposure	Annex C4

Table 8: Characteristic values for tension loads in case of static and quasi static loading for design design method A acc. CEN/TS 1992-4

N				
IN _{Rk,s}	[kN]	19,1	30,9	49,6
γ _{Ms} ¹⁾	[-]		1,5	
-				
N10	FLA IT	2.0	0.0	40.0
N _{Rk,p}		2,0	6,0	12,0
IN Rk,p	נגואן	0,0	12,0	10,0
γ _{Mp} ¹⁾	[-]		1,8 ²⁾	
	[-]		1,06	
Ψc	[-]		1,11	
	[-]		1,14	
, 	[100,000]	45	60	70
n _{ef}	fuuul	45	60	70
k _{cr}			7,2	
k _{ucr}			10,1	
$\gamma_{Mc} = \gamma_{Msp}^{1)}$		1,8 ²⁾		
	[mm]	135	100	
S _{cr,N}		100	160	210
S _{cr,N} S _{cr,sp}	[mm]	200	290	210 420
S _{cr,N} S _{cr,sp} C _{cr,N}	[mm]	200 67,5	290 90	210 420 105
	$N^{0}_{Rk,p}$ $N^{0}_{Rk,p}$ $\gamma_{Mp}^{1)}$ Ψ_{c} h_{ef} k_{cr} k_{ucr} $\gamma_{Mc}=\gamma_{Msp}^{1)}$	$ \begin{array}{c c} N^{0}_{Rk,p} & [kN] \\ \hline N^{0}_{Rk,p} & [kN] \\ \hline \gamma_{Mp}^{1)} & [-] \\ \\ \Psi_{C} & [-] \\ \hline \\ \Psi_{C} & [-] \\ \hline \\ $	$ \begin{array}{c c c c c c } & & & & & & & & \\ \hline N^{0}_{Rk,p} & & & & & \\ \hline \end{array} $	$ \begin{array}{c c c c c c c } & N^{0}_{Rk,p} & [kN] & 2,0 & 6,0 \\ \hline N^{0}_{Rk,p} & [kN] & 6,0 & 12,0 \\ \hline \gamma_{Mp}^{1)} & [-] & 1,8^{2)} \\ \hline & & & & & \\ \Psi_{c} & [-] & 1,06 \\ \hline & & & & & \\ \Psi_{c} & [-] & 1,11 \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$

Scell-it A4-BZ2 anchor

Design according to CEN/TS 1992-4

Characteristic resistance under tension loads

Table 9: Characteristic values for shear loads in case of static and quasi static loading for design method A acc. CEN/TS 1992-4

			M8	M10	M12
Steel failure without lever arm					
Char. resistance	$V_{Rk,s}$	[kN]	10,8	17,1	24,9
Factor considering ductility	k ₂	[-]		0,8	
Partial safety factor	γ _{Ms} 1)	[-]		1,25	
Steel failure with lever arm					
Char. bending moment	$M^0_{Rk,s}$	[Nm]	22,1	44,1	77,3
Partial safety factor	γMs ¹⁾	[-]	1,25		
Concrete pry-out failure					
Factor in equation (16) of CEN TS 1992-4-4, § 6.2.2.3	k ₃	[-]	1,0	2,0	2,0
Partial safety factor	γ _{Mc} ¹⁾	[-]		1,5	
Compareto e duo feilune					
Concrete edge failure			r	i	
Effective length of anchor under shear loading	۱ _f	[mm]	45	60	70
Outside diameter of anchor	d _{nom}	[mm]	8	10	12
Partial safety factor	γ _{Mc} ¹⁾	[-]		1,5	

¹⁾ In absence of other national regulations

Scell-it A4-BZ2 anchor

Design according to CEN/TS 1992-4

Characteristic resistance under shear loads

Table 10: Characteristic tension resistance in cracked and non-cracked concrete under fire exposure for design method A acc. CEN/TS 1992-4

			M8	M10	M12
Steel failure					
	R30 N _{Rk,s,fi}	[kN]	0,7	1,5	2,5
Characteristic registeres	R60 N _{Rk,s,fi}	[kN]	0,6	1,2	2,1
	R90 N _{Rk,s,fi}	[kN]	0,4	0,9	1,7
	R120 N _{Rk,s,fi}	[kN]	0,4	0,8	1,3

Pullout failure (cracked and non-cracked concrete)						
Char resistance in concrete > C20/25	R30 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R60 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R90 N _{Rk,p,fi}	[kN]	0,5	1, 5	3,0	
	R120 N _{Rk,p,fi}	[kN]	0,4	1,2	2,4	

Concrete cone and splitting failure ²⁾ (cracked and non-cracked concrete)						
Char. resistance in concrete ≥ C20/25	R30 N ⁰ _{Rk,c,fi}	[kN]	2,4	5,0	7,4	
	R60 N ⁰ _{Rk,c,fi}	[kN]	2,4	5,0	7,4	
	R90 $N^0_{Rk,c,fi}$	[kN]	2,4	5,0	7,4	
	R120 N ⁰ _{Rk,c,fi}	[kN]	2,0	4,0	5,9	
Characteristic spacing	S _{cr,N,fi}	[mm]	180	240	280	
Characteristic edge distance	C _{cr,N,fi}	[mm]	90	120	140	

¹⁾ Design under fire exposure is performed according to the design method given in TR 020. Under fire exposure usually cracked concrete is assumed. The design equations are given in TR 020, Section 2.2.1.

²⁾ As a rule, splitting failure can be neglected when cracked concrete and reinforcement is assumed.

TR 020 covers design for fire exposure from one side. For fire attack from more than one side the edge distance must be increased to $c_{min} \ge 300$ mm and $\ge 2 \cdot h_{ef}$.

Scell-it A4-BZ2 anchor	
Design according to CEN/TS 1992-4 Characteristic tension resistance under fire exposure	Annex C7

Table 11: Characteristic shear resistance in cracked and non-cracked concrete under fire exposure for design method A acc. CEN/TS 1992-4

			M8	M10	M12
Steel failure without lever arm					
	R30 V _{Rk,s,fi}	[kN]	0,7	1,5	2,5
Characteristic resistance	R60 V _{Rk,s,fi}	[kN]	0,6	1,2	2,1
Characteristic resistance	R90 V _{Rk,s,fi}	[kN]	0,4	0,9	1,7
	R120 V _{Rk,s,fi}	[kN]	0,4	0,8	1,3
Steel failure with lever arm					
	R30 M ⁰ _{Rk,s,fi}	[Nm]	0,75	1,9	3,9
	R60 M ⁰ _{Rk,s,fi}	[Nm]	0,60	1,5	3,3
Characteristic bending moment	R90 M ⁰ _{Rk,s,fi}	[Nm]	0,45	1,2	2,6
	R120 M ⁰ _{Rk,s,fi}	[Nm]	0,37	1,0	2,1
Concrete pry-out failure					
Factor in equation (16) of CEN TS 1992-4-4, § 6.2.2.3	k ₃	[-]	1,0	2,0	2,0
	R30 V _{Rk,cp,fi}	[kN]	2,4	10,0	14,8
	R60 V _{Rk, cp,fi}	[kN]	2,4	10,0	14,8
Characteristic resistance	R90 V _{Rk, cp,fi}	[kN]	2,4	10,0	14,8
	R120 V _{Rk, cp,fi}	[kN]	2,0	8,0	11,8
Concrete edge failure					
Eff. length of anchor under shear	If	[mm]	45	60	70
loading					

Scell-it A4-BZ2 anchor	
Design according to CEN/TS 1992-4 Characteristic shear resistance under fire exposure	Annex C8

Table 12: Displacements	under tension loading
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			M8	M10	M12		
Tension load in non-cracked concrete C20/25							
Displacement	δ _{N0}	[mm/(N/mm ²)]	0,5	0,3	0,2		
	δ _N ∞	[mm/(N/mm ²)]	1,7	0,7	0,4		
Tension load in non-cracked concrete C50/60							
Displacement	δ _{N0}	[mm/(N/mm ²)]	0,4	0,2	0,1		
	δ _N ∞	[mm/(N/mm ²)]	1,7	0,7	0,4		
Tension load in cracked concrete C20/25							
Displacement	δ _{N0}	[mm/(N/mm ²)]	0,6	0,5	0,4		
	δ _N ∞	[mm/(N/mm ²)]	1,7	0,7	0,4		
Tension load in cracked concrete C50/60							
Displacement	δ _{N0}	[mm/(N/mm ²)]	0,1	0,1	0,1		
	δ _N ∞	[mm/(N/mm ²)]	1,7	0,7	0,4		

Table 14: Displacements under shear loads

			M8	M10	M12
Shear load in cracked a concrete C20/25 to C50/					
Displacement	δ _{V0}	[mm/(N/mm ²)]	0,4	0,3	0,2
	δv∞	[mm/(N/mm ²)]	0,6	0,5	0,3

Additional displacement due to anular gap between anchor and fixture is to be taken into account.

Scell-it A4-BZ2 anchor		
Design Displacements	Annex C9	