

Pure-Epoxy

3:1

BIS-PE Injection Adhesive

NEW!



Product Information for the Installation of Threaded Rods and Rebar Dowels in Concrete



Pure-Epoxy^{3:1}

NEW!

ICCONS[®] ChemSelect ICCONS[®] Chem
Pure-Epo
^{3:1}
BIS-PE Injection Adhesive



ULTRA

FOR HIGH LOADS IN CRACKED AND UNCRACKED CONCRETE




















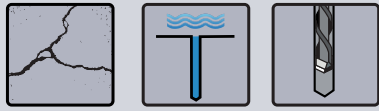
Features

- ETA Assessed for Threaded Rods M8 - M30 and Rebar Dowels Ø8 - 32 mm
- For Carbide & Diamond Drilled Holes
- For Cracked and Uncracked Concrete
- For Flooded Holes
- Fire Test Report
- Seismic Approval C2
- VOC Rating A+
- Lead Tested
- NSF Certificate (Drinking Water)
- Slow Curing

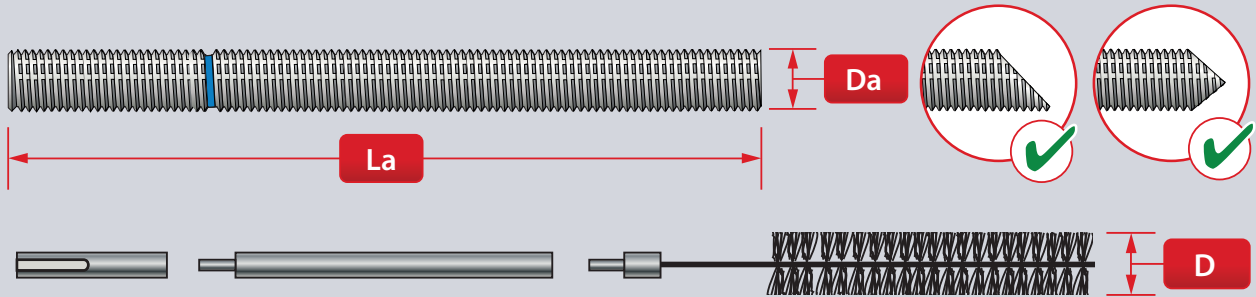
For the Installation

- of Threaded Rods: ✓
- of Rebar Dowels: ✓
- in hammer drilled holes: ✓
- in diamond drilled holes: ✓
- in dry bore holes: ✓
- in damp bore holes: ✓
- in flooded bore holes: ✓
- in uncracked concrete: ✓
- in cracked concrete: ✓
- in hollow brick: ✗
- in ceilings: ✓

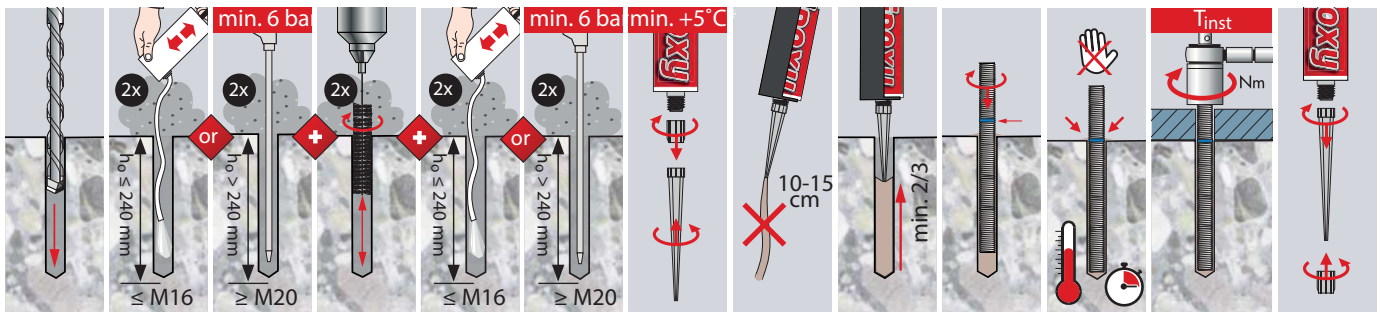
														
 ETA - 14/0351	M12 - M30 Ø12 - 32	M8 - M30 Ø8 - 32	M12 - M30 Ø12 - 32	M8 - M30 Ø8 - 32	✓	✗	✓	✗	C1: M12-M30 Ø12-Ø32 C2: M12-M16	F120	✗	✓	✓	✓
 ETA - 14/0350	✗	M10 - M24 Ø10 - 25	✗	M10 - M24 Ø10 - 24	✓	✗	✗	✓	✗	F120	✗	✓	✓	✓
 ETA - 14/0321	✗	Ø8 - 25	✗	✗	✗	✓	✓	✗	✗	F120	✗	✓	✓	✓



Specification Data for the use in Cracked & Uncracked Concrete and Carbide/Air Drilled Holes according to ETAG TR029 and CEN/TS 1992-4



Installation Procedures



*Cartridge Temperature **must** be min. +5°C. Optimal Cartridge Temperature +20°C.

Installation Dimensions

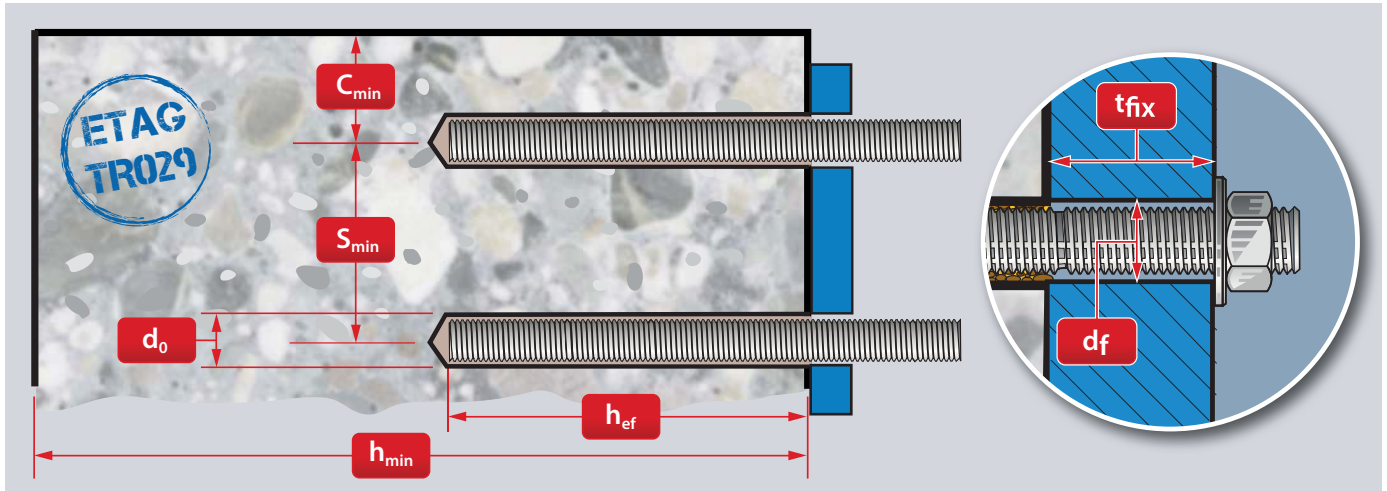
Anchor Size	Da	M8	M10	M12	M16	M20	M24	M27	M30
Rod Length	La [mm]	110	130	160	190	260	300	340	360
Hole Diameter	do [mm]	10	12	14	18	24	28	32	35
Embedment Depth	ho=hef [mm]	80	90	110	125	170	210	250	280
Diameter Fixture Hole	df [mm]	9	12	14	18	22	26	30	33
Fixture Thickness	tfix ≤ [mm]	20	30	35	45	70	65	60	50
Recommended Torque	Tinst [Nm]	10	20	40	80	120	160	180	200
Required Volume per cm Embedment Depth	Vs [ml/cm]	0,44	0,59	0,75	1,09	2,25	2,87	3,72	4,37

Member Thickness, Edge Distance & Spacing

Anchor Size	Da	M8	M10	M12	M16	M20	M24	M27	M30
Min. Member Thickness	hmin [mm]	110	120	140	165	220	270	315	350
Min. Edge Distance	Cmin [mm]	40	50	60	80	100	120	135	150
Min. Spacing	Smin [mm]	40	50	60	80	100	120	135	150

Steel Brush & Piston Plug Dimensions

Anchor Size	Da	M8	M10	M12	M16	M20	M24	M27	M30
Brush Diameter	D [mm]	12	14	16	20	26	30	34	37
Min. Brush Diameter	Dmin [mm]	10,5	12,5	14,5	18,5	24,5	28,5	32,5	35,5
Piston Plug	[#]					24	28	32	35



Recommended Tension Loads¹⁾

Uncracked Concrete.



Anchor Size	D _a	M8	M10	M12	M16	M20	M24	M27	M30
Temp. range 24 - 40°C	[kN]	8,6	13,8	20,0	28,0	38,1	52,3	67,9	80,5
Temp. range 43 - 72°C	[kN]	6,8	9,5	13,2	18,7	25,4	37,7	46,9	58,3

Flooded Holes in Uncracked Concrete.



Anchor Size	D _a	M8	M10	M12	M16	M20	M24	M27	M30
Temp. range 24 - 40°C	[kN]	8,6	13,5	18,3	21,4	34,5	45,8	54,1	62,8
Temp. range 43 - 72°C	[kN]	5,8	8,2	11,3	16,0	25,4	32,3	39,7	49,4

Cracked Concrete.



Anchor Size	D _a	M8	M10	M12	M16	M20	M24	M27	M30
Temp. range 24 - 40°C	[kN]	--	--	12,3	16,2	21,8	29,6	39,7	49,4
Temp. range 43 - 72°C	[kN]	--	--	6,6	8,7	10,9	16,2	21,6	26,9

Flooded Holes in Cracked Concrete.



Anchor Size	D _a	M8	M10	M12	M16	M20	M24	M27	M30
Temp. range 24 - 40°C	[kN]	--	--	10,6	12,8	18,2	24,2	28,9	35,9
Temp. range 43 - 72°C	[kN]	--	--	5,6	7,5	10,9	16,2	21,6	26,9

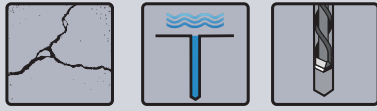
Recommended Shear Loads²⁾

Anchor Size	D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	[kN]	5,1	8,6	12,0	22,3	34,9	50,3	65,7	80,0
Steel 8.8	[kN]	8,6	13,1	19,4	36,0	56,0	80,6	105,1	128,0
Stainless Steel A4-50	[kN]	--	--	--	--	--	--	34,5	42,0
Stainless Steel A4-70	[kN]	6,0	9,2	13,7	25,2	39,4	56,8	--	--

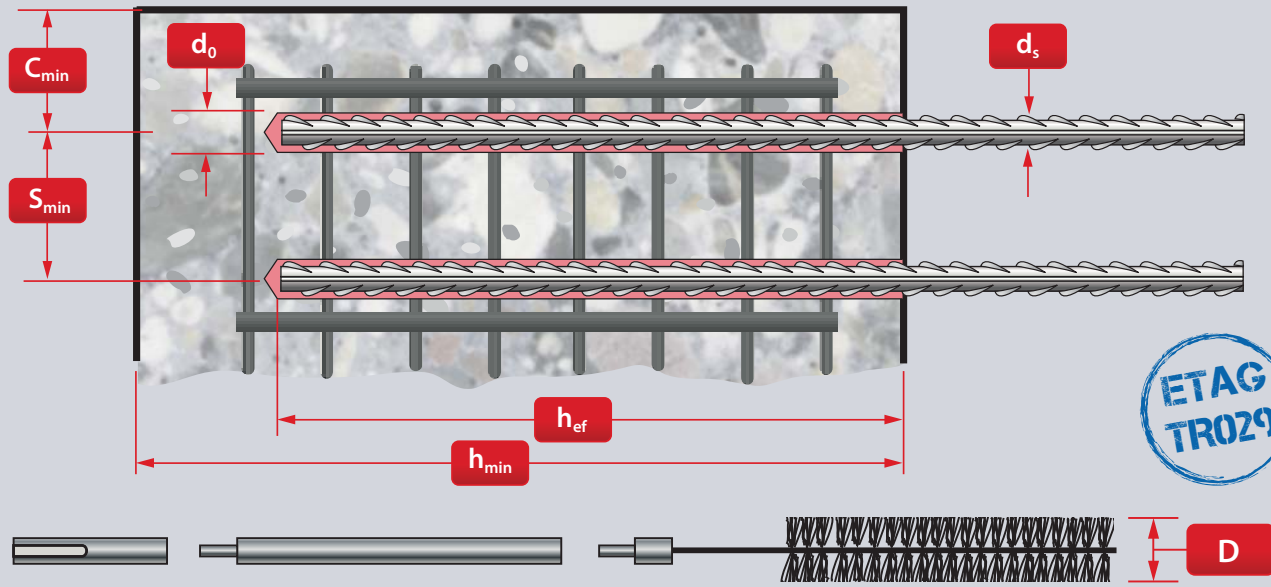
Curing Times

Temperature ³⁾	°C	+5	+10	+20	+30	+40
Processing Time		2 h	1,5 h	30 min	20 min	12 min
Curing Time Dry Holes		50 h	30 h	10 h	6 h	4 h
Curing Time Wet Holes		100 h	60 h	20 h	12 h	8 h

- 1) Loads in kN for a single anchor Grade 5.8 in Concrete C20/C25*. Temperature for long/short term.
No influence of Edge- or Center to Center Distances. Increasing factors for concrete ψ_C : **C30/37**: 1,04 **C40/50**: 1,08 **C50/60**: 1,10
Safety factor $\gamma_G = 1,4$.
- 2) Steel strength in kN without bending moment.
- 3) Concrete Temperature

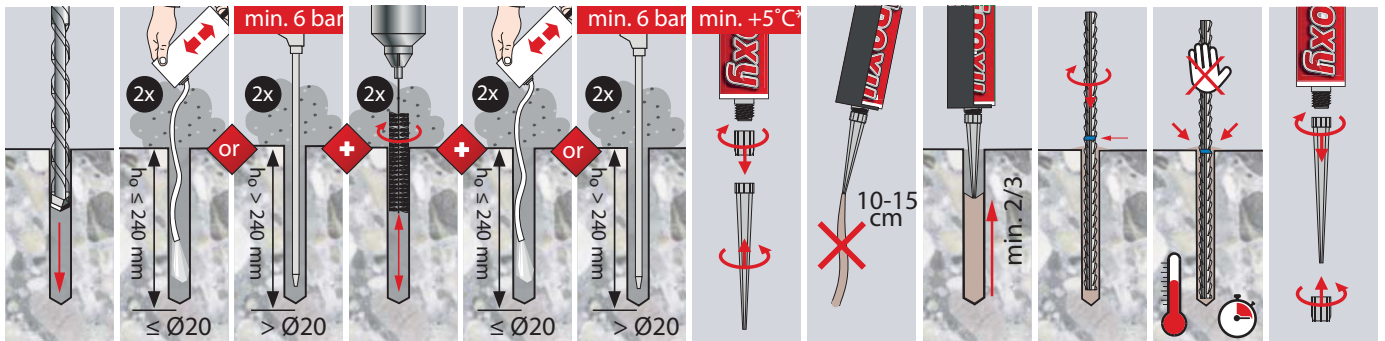


Specification Data for the use in Cracked and Uncracked Concrete and Carbide/Air Drilled Holes according to ETAG TR029 and CEN/TS 1992-4



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Installation Procedures



*Cartridge Temperature **must** be min. +5°C. Optimal Cartridge Temperature +20°C.

Installation Dimensions

Dowel Size	d_s	8	10	12	14	16	20	25	28	32
Hole Diameter	d_0 [mm]	12	14	16	18	20	24	32	35	40
Effective Anchorage Depth	h_{ef} [mm]	60-160	60-200	70-240	75-280	80-320	90-400	100-500	112-560	128-640
Required Volume per cm Embedment Depth	V_s [ml/cm]	0,76	0,91	1,06	1,21	1,36	2,12	3,76	4,20	5,50

Member Thickness, Edge Distance & Spacing

Dowel Size	d_s	8	10	12	14	16	20	25	28	32
Min. Member Thickness	h_{min} [mm]	100-190	100-230	105-275	110-320	120-360	140-450	165-565	180-630	210-720
Min. Edge Distance	C_{min} [mm]	40	50	60	70	80	100	125	140	160
Min. Spacing	S_{min} [mm]	40	50	60	70	80	100	125	140	160

Steel Brush & Piston Plug Dimensions

Dowel Size	d_s	8	10	12	14	16	20	25	28	32
Brush Diameter	D [mm]	14	16	18	20	22	26	34	37	41,5
Min. Brush Diameter	Dbmin [mm]	12,5	14,5	16,5	18,5	20,5	24,5	32,5	35,5	40,5
Piston Plug #	[#]						24	32	35	38

Recommended Tension Loads¹⁾



Uncracked Concrete

Dowel Size ▶	d_s	8	10	12	14	16	20	25	28	32
▼ Embedment Depth h_{ef}										
60		8,4	9,3							
70		9,8	11,7	11,7						
80		11,2	14,0	14,3	14,3	14,3				
90		12,6	15,7	17,1	17,1	17,1	14,7			
100		14,0	17,5	19,4	20,0	20,0	17,2	17,2		
110		14,3	19,2	21,4	23,1	23,1	19,8	19,8	19,8	
130			21,9	25,3	29,5	29,7	25,5	25,5	25,5	
200				31,6	43,4	47,9	48,6	48,6	48,6	48,6
240						56,6	61,5	63,9	63,9	63,9
320							82,1	94,0	98,3	98,3
350							88,3	102,8	112,5	112,5
420								123,4	138,2	147,8
470								137,8	154,7	175,0
530									173,0	199,4
600										225,5



Flooded Holes in Uncracked Concrete

Dowel Size ▶	d_s	8	10	12	14	16	20	25	28	32
▼ Embedment Depth h_{ef}										
60		5,7	5,7							
70		7,2	7,2	7,2						
80		8,8	8,8	8,8	8,8	8,8				
90		10,5	10,5	10,5	10,5	10,5	10,5			
160		14,3	21,9	22,6	23,9	24,8	24,8	24,8		
200				28,2	29,9	32,5	34,6	34,6	34,6	
240				31,6	35,9	39,0	43,6	45,5	45,5	
280					41,9	45,5	50,9	56,1	57,4	57,4
320						52,0	58,1	64,1	67,0	65,7
360							65,4	72,1	75,4	73,9
400							72,7	80,1	83,8	82,1
440								88,2	92,2	90,3
500								100,2	104,7	102,6
560									117,3	114,9
640										131,3
$N_{rec,s}$		14,3	21,9	31,6	43,4	56,6	88,3	137,8	173,0	225,5

Recommended Tension Loads ¹⁾



Cracked Concrete

Dowel Size ▶	d_s			12	14	16	20	25	28	32
▼ Embedment Depth h_{ef}										
70				7,9						
80				9,0	9,8	10,2				
90				10,1	11,0	11,7	10,5			
100				11,2	12,2	13,0	12,2	12,2		
110				12,3	13,4	14,3	14,1	14,1	14,1	
130				14,6	15,9	16,9	16,7	18,1	18,1	18,1
240				26,9	29,3	31,1	30,8	35,3	39,5	45,1
280					34,2	36,3	35,9	41,1	46,1	52,7
320						41,5	41,0	47,0	52,7	60,2
360							46,2	52,9	59,2	67,7
400							51,3	58,8	65,8	75,2
440								64,6	72,4	82,7
500								73,5	82,3	94,0
560									92,2	105,3
640										120,4



Flooded Holes in Cracked Concrete

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Dowel Size ▶	d_s			12	14	16	20	25	28	32
▼ Embedment Depth h_{ef}										
70				6,7						
80				7,7	7,8	8,2				
90				8,7	8,8	9,2	9,6			
100				9,6	9,7	10,3	10,7	12,0		
110				10,6	10,7	11,3	11,8	13,2	13,2	
130				12,5	12,6	13,3	13,9	15,6	15,6	17,8
240				23,1	23,3	24,6	25,6	28,9	28,7	32,8
280					27,2	28,7	29,9	33,7	33,5	38,3
320						32,8	34,2	38,5	38,3	43,8
360							38,5	43,3	43,1	49,2
400							42,7	48,1	47,9	54,7
440								52,9	52,7	60,2
500								60,1	59,8	68,4
560									67,0	76,6
640										87,5
$N_{rec,s}$				31,6	43,4	56,6	88,3	137,8	173,0	225,5

Recommended Shear Loads²⁾

Dowel Size	d_s	8	10	12	14	16	20	25	28	32
Recomm. Shear Load	V_{rec,s} [kN]	6,7	10,5	14,8	20,0	26,2	41,0	64,3	80,5	105,2

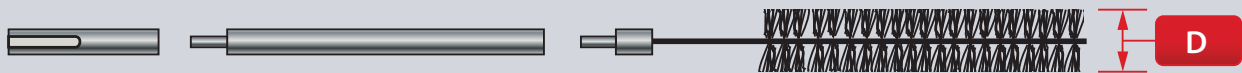
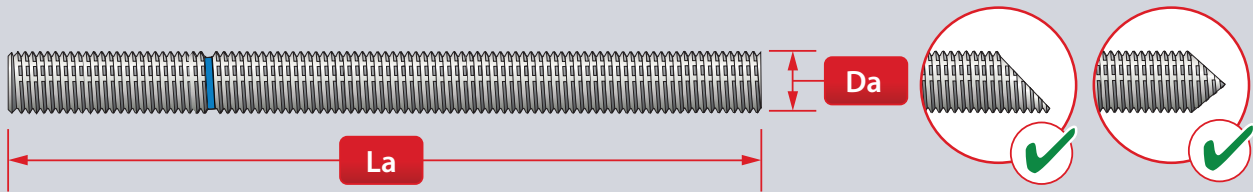
Curing Times

Temperature ³⁾	°C	+5	+10	+20	+30	+40
Processing Time		2 h	1,5 h	30 min	20 min	12 min
Curing Time Dry Holes		50 h	30 h	10 h	6 h	4 h
Curing Time Wet Holes		100 h	60 h	20 h	12 h	8 h

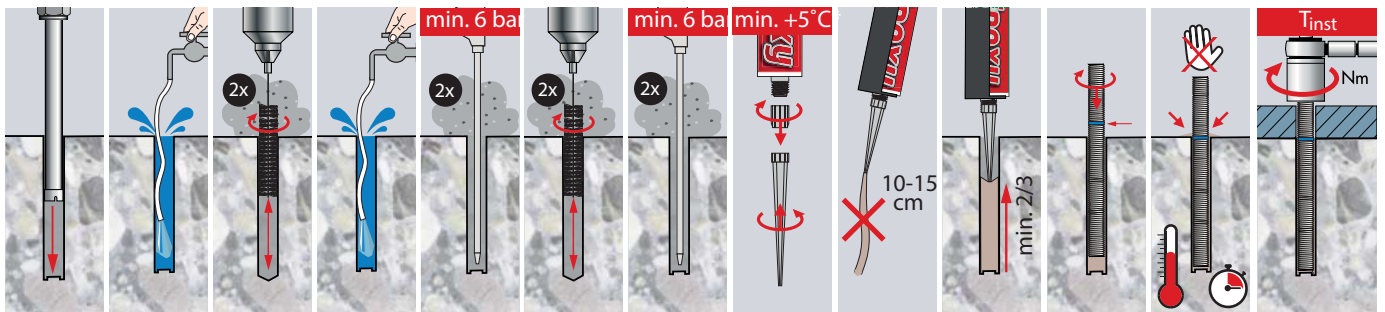
- 1) Loads in kN for a single Dowel BSt 500 S in Concrete C20/C25*. Temperature Range 24°C/40°C for long/short term.
No influence of Edge- or Center to Center Distances. Increasing factors for concrete ψ_c : **C30/37**: 1,04 **C40/50**: 1,08 **C50/60**: 1,10
Safety factor $\gamma_G = 1,4$.
- 2) Steel strength in kN for BSt 500 S without bending moment.
- 3) Concrete Temperature



Specification Data for the use in Uncracked Concrete and Diamond Drilled Holes according to ETAG TR029 and CEN/TS 1992-4



Installation Procedures



*Cartridge Temperature **must** be min. +5°C. Optimal Cartridge Temperature +20°C.

Installation Dimensions

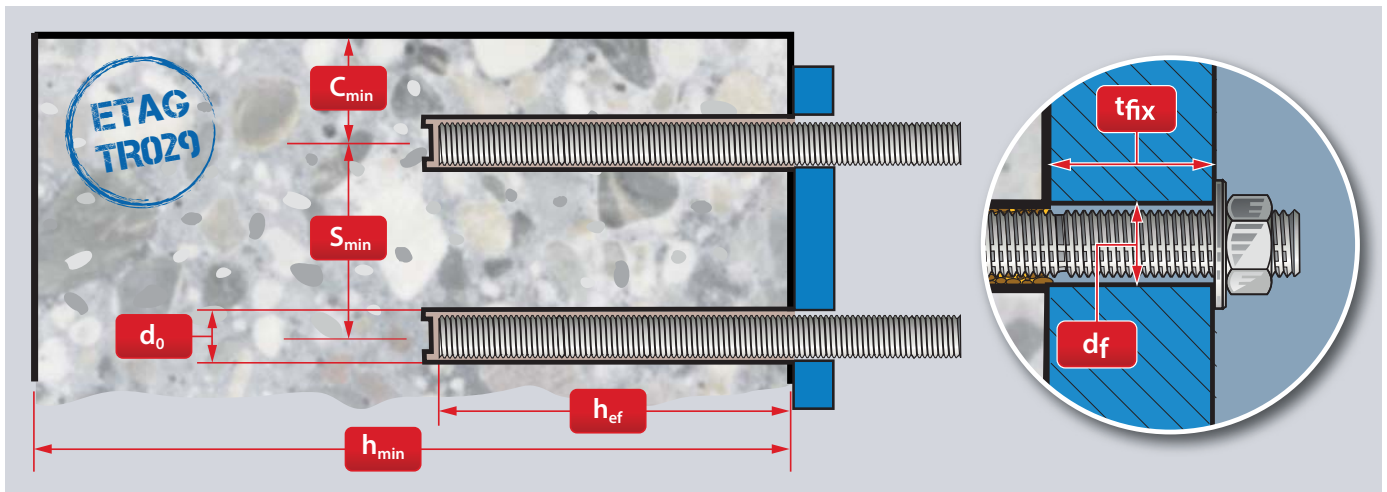
Anchor Size	Da	M10	M12	M16	M20	M24
Rod Length	La [mm]	130	160	190	260	300
Hole Diameter	do [mm]	12	14	18	24	28
Embedment Depth	ho=hef [mm]	90	110	125	170	210
Diameter Fixture Hole	df [mm]	12	14	18	22	26
Fixture Thickness	tfix ≤ [mm]	30	35	45	70	65
Recommended Torque	Tinst [Nm]	20	40	80	120	160
Required Volume per cm Embedment Depth	Vs [ml/cm]	0,59	0,75	1,09	2,25	2,87

Member Thickness, Edge Distance & Spacing

Anchor Size	Da	M10	M12	M16	M20	M24
Min. Member Thickness	hmin [mm]	120	140	165	220	270
Min. Edge Distance	Cmin [mm]	50	60	80	100	120
Min. Spacing	Smin [mm]	50	60	80	100	120

Steel Brush & Piston Plug Dimensions

Anchor Size	Da	M10	M12	M16	M20	M24
Brush Diameter	D [mm]	14	16	20	26	30
Min. Brush Diameter	Dmin [mm]	12,5	14,5	18,5	24,5	28,5
Piston Plug	[#]				24	28



Recommended Tension Loads¹⁾

Uncracked Concrete.



Anchor Size	D_a	M10	M12	M16	M20	M24
Temp. range 24 - 40°C	[kN]	14,8	16,5	24,9	40,3	56,5
Temp. range 43 - 72°C	[kN]	8,1	9,9	13,7	21,2	31,4

Flooded Holes in Uncracked Concrete.



Anchor Size	D_a	M10	M12	M16	M20	M24
Temp. range 24 - 40°C	[kN]	12,1	16,5	23,7	40,3	53,4
Temp. range 43 - 72°C	[kN]	6,7	9,9	12,5	21,2	31,4

Recommended Shear Loads²⁾ V_{REC}

Anchor Size	D_a	M10	M12	M16	M20	M24
Steel 5.8	[kN]	8,6	12,0	22,3	34,9	50,3
Steel 8.8	[kN]	13,1	19,4	36,0	56,0	80,6
Stainless Steel A4-70	[kN]	9,2	13,7	25,2	39,4	56,8

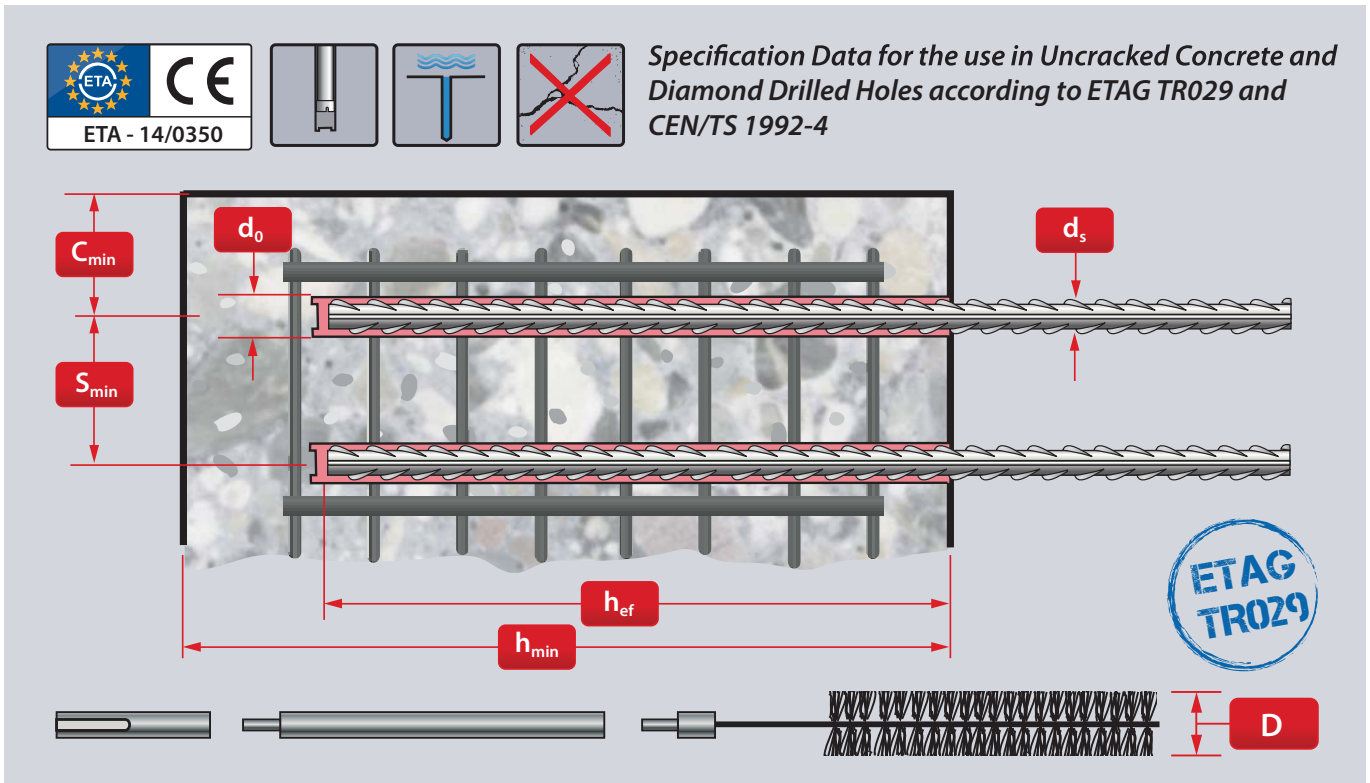
Curing Times

Temperature ³⁾	°C	+5	+10	+20	+30	+40
Processing Time		2 h	1,5 h	30 min	20 min	12 min
Curing Time Wet Holes		100h	60 h	20 h	12 h	8 h

- 1) Loads in kN for a single anchor Grade 5.8 in Concrete C20/C25*. Temperature for long/short term.
No influence of Edge- or Center to Center Distances. Increasing factors for concrete ψ_c : **C30/37**: 1,04 **C40/50**: 1,08 **C50/60**: 1,10
Safety factor $\gamma_G = 1,4$.
- 2) Steel strength in kN without bending moment.
- 3) Concrete Temperature

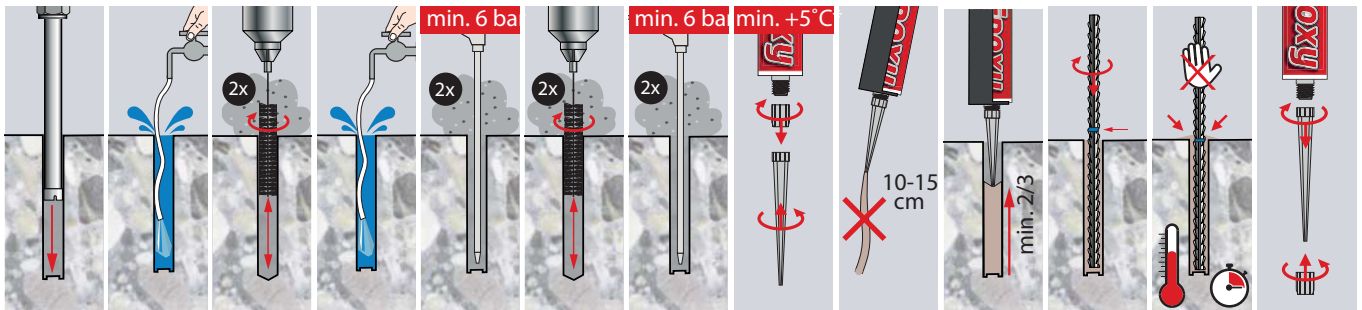


Specification Data for the use in Uncracked Concrete and Diamond Drilled Holes according to ETAG TR029 and CEN/TS 1992-4



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Installation Procedures



*Cartridge Temperature **must** be min. +5°C. Optimal Cartridge Temperature +20°C.

Installation Dimensions

Dowel Size	d_s	10	12	14	16	20	25
Hole Diameter	d_0 [mm]	14	16	18	20	24	32
Effective Anchorage Depth	h_{ef} [mm]	60-200	70-240	75-280	80-320	90-400	100-500
Required Volume per cm Embedment Depth	V_s [ml/cm]	0,91	1,06	1,21	1,36	2,12	3,76

Member Thickness, Edge Distance & Spacing

Dowel Size	d_s	10	12	14	16	20	25
Min. Member Thickness	h_{min} [mm]	100-230	105-275	110-320	120-360	140-450	165-565
Min. Edge Distance	c_{min} [mm]	50	60	70	80	100	125
Min. Spacing	s_{min} [mm]	50	60	70	80	100	125

Steel Brush & Piston Plug Dimensions

Dowel Size	d_s	10	12	14	16	20	25
Brush Diameter	D [mm]	16	18	20	22	26	34
Min. Brush Diameter	D_{min} [mm]	14,5	16,5	18,5	20,5	24,5	32,5
Piston Plug #	[#]					24	32

Recommended Tension Loads¹⁾



**Uncracked
Concrete**

Dowel Size ▶	d_s	10	12	14	16	20	25
▼ Embedment Depth h_{ef}							
60		9,9					
70		11,5	10,5				
80		13,2	12,0	14,0	14,3		
90		14,8	13,5	15,7	17,1	17,1	
100		16,5	15,0	17,5	19,9	20,0	20,0
150		21,9	22,4	26,2	29,9	35,5	36,8
200			29,9	34,9	39,9	47,4	56,1
240			31,6	41,9	47,9	56,8	67,3
280				43,4	55,9	66,3	78,5
320					56,6	75,8	89,8
360						85,3	101,0
400						88,3	112,2
440							123,4
500							137,8



**Flooded Holes in
Uncracked Concrete**

Dowel Size ▶	d_s	10	12	14	16	20	25
▼ Embedment Depth h_{ef}							
60		8,1					
70		9,4	10,5				
80		10,8	12,0	14,0	14,3		
90		12,1	13,5	15,7	17,1	17,1	
100		13,5	15,0	17,5	18,9	20,0	20,0
150		20,2	22,4	26,2	28,4	35,5	36,8
200		21,9	29,9	34,9	37,9	47,4	53,0
240			31,6	41,9	45,5	56,8	63,6
280				43,4	53,1	66,3	74,2
320					56,6	75,8	84,8
360						85,3	95,4
400						88,3	106,0
440							116,6
500							132,5
$N_{rec,s}$		21,9	31,6	43,4	56,6	88,3	137,8

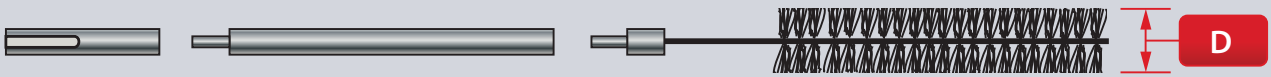
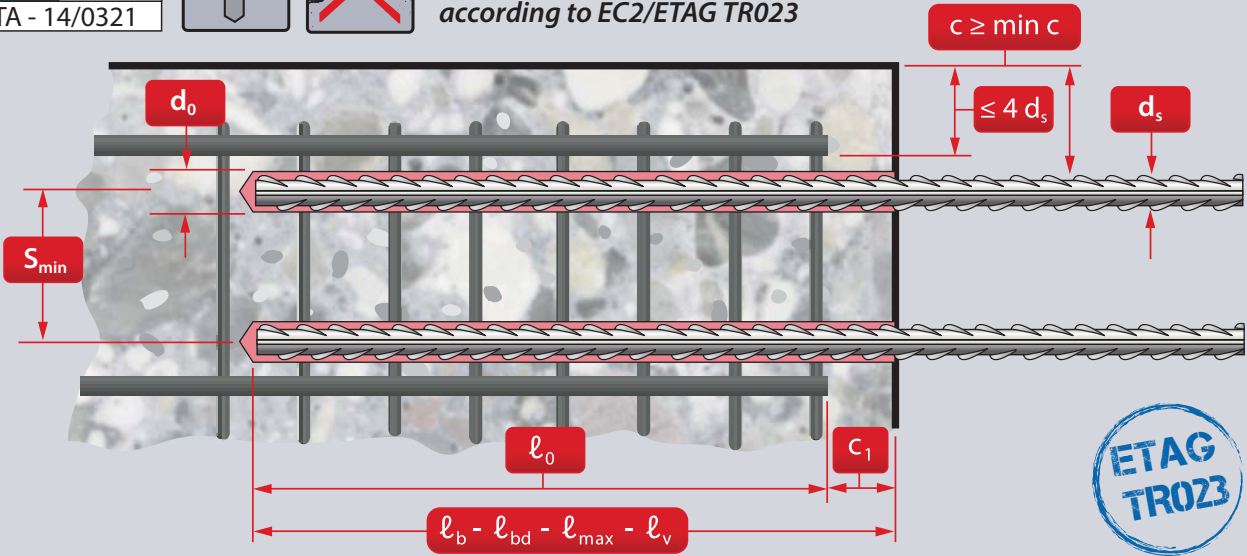
Recommended Shear Loads²⁾

Dowel Size	d_s	8	10	12	14	16	20	25	28	32
Recomm. Shear Load	$V_{rec,s}$ [kN]	6,7	10,5	14,8	20,0	26,2	41,0	64,3	80,5	105,2

- 1) Loads in kN for a single Dowel BSt 500 S in Concrete C20/C25*. Temperature Range 24°C/40°C for long/short term. No influence of Edge- or Center to Center Distances. Increasing factors for concrete ψ_c : **C30/37**: 1,04 **C40/50**: 1,08 **C50/60**: 1,10 Safety factor $\gamma_c = 1,4$.
- 2) Steel strength in kN for BSt 500 S without bending moment.
- 3) Concrete Temperature

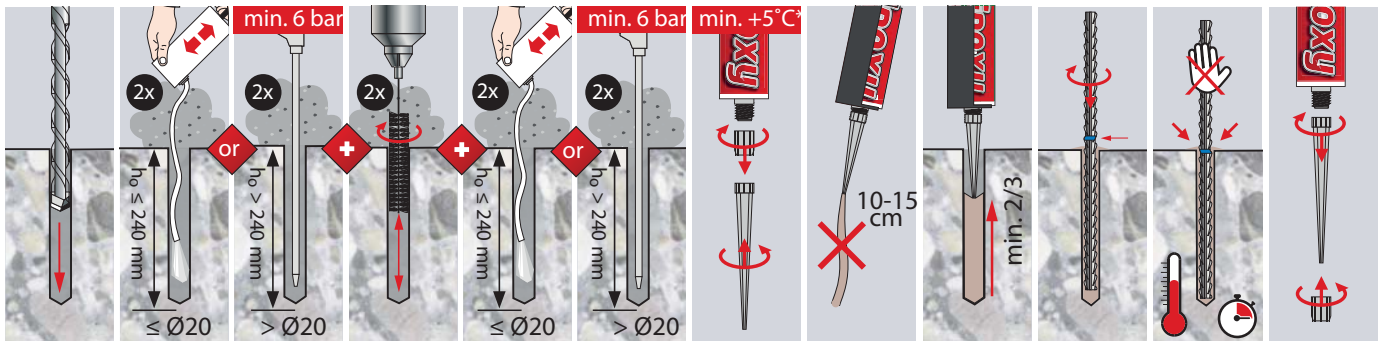


Specification Data for the use in Uncracked Concrete and Carbide/Air Drilled Holes according to EC2/ETAG TR023



Installation Procedures

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*Cartridge Temperature **must** be min. +5°C. Optimal Cartridge Temperature +20°C.

Installation Dimensions

Dowel Size	d_s	8	10	12	14	16	20	22	24	25
Hole Diameter	d_0 [mm]	12	14	16	18	20	25	28	32	32
Min. Embedment Depth	$l_{b,min}$ [mm]	170	213	255	298	340	425	468	510	532
Min. Lap Length	$l_{o,min}$ [mm]	300	300	300	315	360	450	495	540	563
Design Anchorage Length	l_{bd} [mm]	378	473	567	662	756	945	1040	1134	1181
Max. Embedment Depth	l_{max} [mm]	1000	1000	1200	1400	1600	2000	2000	2000	2000
Min. Spacing	S_{min} [mm]	50	50	60	70	80	100	110	120	125
Required Volume per cm Embedment Depth	V_s [ml/cm]	0,75	0,90	1,06	1,21	1,36	2,12	2,83	4,22	3,76

Product Information for the Installation of Post-Installed Rebar Dowels in Carbide/Air Drilled Holes

Min. Concrete Cover¹⁾

Drilling Method	d_s [mm]	Without Drilling Guide [mm]	With Drilling Guide [mm]
Hammer Drilling HD	<25	$30 + 0,06 \cdot \ell_v \geq 2d_s$	$30 + 0,02 \cdot \ell_v \geq 2d_s$
	=25	$40 + 0,06 \cdot \ell_v \geq 2d_s$	$40 + 0,02 \cdot \ell_v \geq 2d_s$
Air Drilling AD	<25	$50 + 0,08 \cdot \ell_v$	$50 + 0,02 \cdot \ell_v$
	=25	$60 + 0,08 \cdot \ell_v$	$60 + 0,02 \cdot \ell_v$

Steel Brush & Piston Plug Dimensions

Dowel Size	d_s	8	10	12	14	16	20	22	24	25
Brush Diameter D [mm]		14	16	18	20	22	27	30	34	34
Min. Brush Diameter D_{min} [mm]		12,5	14,5	16,5	18,5	20,5	25,5	28,5	32,5	32,5
Piston Plug [#]		-	14	16	18	20	24	28	32	32

Design Values Ultimate Bond Strength (N/mm²)²⁾

Dowel Size d_s	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø8 - 25	1,6	2,0	2,3	2,7	3,0	3,4	3,7	4,0	4,3

Design Values Tension Loads³⁾

Dowel Size ▶	d_s	8	10	12	14	16	20	22	24	25
▼ Embedment Depth l, b										
170		9,8								
180		10,4								
200		11,6								
220		12,7	15,9							
240		13,9	17,3							
260		15,0	18,8	22,5						
280		15,6	20,2	24,3						
300			21,7	26,0	30,3					
350			24,4	30,3	35,4	40,5				
400				34,7	40,5	46,2				
450				35,1	45,5	52,0	65,0			
500					47,8	57,8	72,3	79,5		
550						62,4	79,5	87,4	95,4	99,4
600							86,7	95,4	104,0	108,4
700							97,6	111,3	121,4	126,4
800								118,1	138,7	144,5
900									140,5	152,4
$N_{rec,s}$		15,6	24,4	35,1	47,8	62,4	97,6	118,1	140,5	152,4

Curing Times

Temperature ⁴⁾ °C	+5	+10	+20	+30	+40
Processing Time	2 h	1,5 h	30 min	20 min	12 min
Curing Time Dry Holes	50 h	30 h	10 h	6 h	4 h
Curing Time Wet Holes	100 h	60 h	20 h	12 h	8 h

- 1) Use drilling aid to ensure bore holes are parallel to existing surface within 2%.
- 2) Valid for all drilling methods and optimal conditions in Concrete C20/25. All other bonding conditions: Values x 0,7
- 3) Loads in kN for a single dowel in non-cracked concrete C20/C25 according to ETAG TR023. $f_{bd} = 2,3$ N/mm². Steel strength $N_{rec,s}$ in kN incl. safety factor $\gamma_c = 1,4$. $f_{y,k} = 500$ N/mm².
- 4) Concrete Temperature.

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