



25/0541

TDS | 2048.1

VINYLESTER BIS-V420

VINYLESTER INJECTION SYSTEM
WITH ETA ASSESSMENT

Vinylester





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VINYLESTER BIS-V420

VINYLESTER INJECTION SYSTEM
OPTION 1 FOR CRACKED
& NON-CRACKED CONCRETE.

ETA ASSESSMENT
(ETA - 25/0541)



SUITABLE ANCHOR

RODS M8 - M30

- Steel 5.8 and 8.8 Zinc Plated and Hot Dip Galvanized
- Stainless Steel A4-50 and A4-70
- High Corrosion Resistant Steel 1.4529

REBAR Ø12 - Ø32

- EN 1992-1-1:2004 + AC:2010 Annex C

USE CONDITIONS

- Installation in cracked & Non-cracked concrete C20/25 to C50/60 according to EN 206-1:2000 and AS 5216;
- For Static and quasi static loading & Seismic Action C1
- In Dry, Wet and Flooded Holes
- Structures subject to dry internal and permanent damp internal conditions
- Structures subject to external atmospheric exposure
- Overhead Installation allowed

TYPICAL APPLICATIONS

- Infrastructure Construction (Roads, Viaducts, Sound Barriers, Crash Barriers, Harbours, High Rise Construction, Steel Construction)
- Production Facilities (Installation of Cranes, Robots, Conveyor Lines etc.)



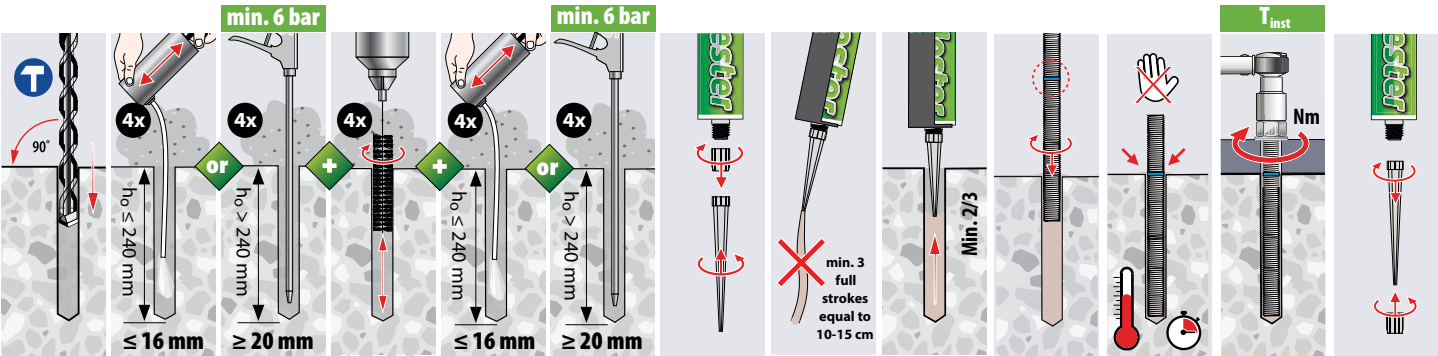
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THREADED RODS INSTALLATION PROCEDURES



INSTALLATION PROCEDURES



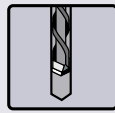
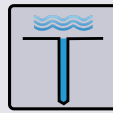
CURING TIMES

Temperature ¹	°C	-10°	-5	0	+5	+10	+20	+30	+35	+40
Processing /Working Time		90 min	90 min	45 min	25 min	15 min	6 min	4 min	2 min	1.5 min
Curing Time Dry Holes		24 h	14 h	7 h	2 h	80 min	45 min	25 min	20 min	15 min
Curing Time Wet Holes		48 h	28 h	14 h	4 h	160 min	90 min	50 min	40 min	30 min

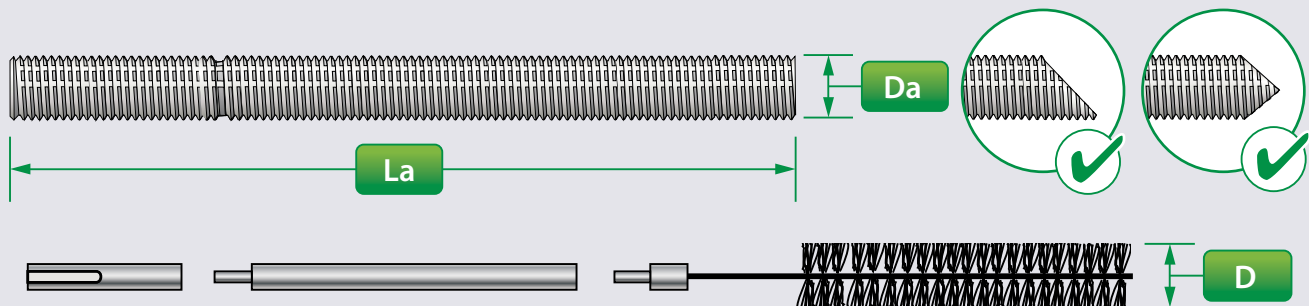
¹ Concrete temperature ² Cartridge temperature must be min. +15 °C



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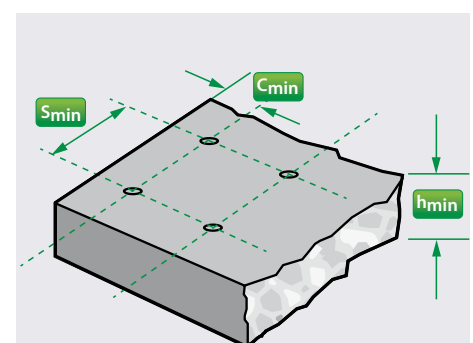
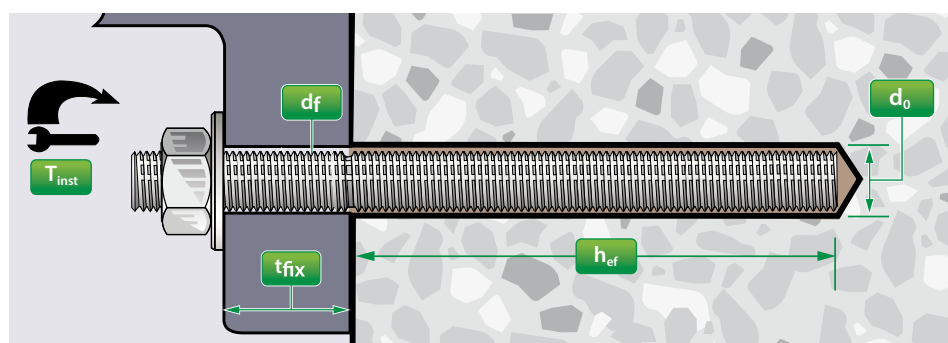


Specification Data for the use in Cracked & Uncracked Concrete and Hammer/Air Drilled Holes according to EN1992-4 & AS 5216 Technical Report TR 055



INSTALLATION DIMENSIONS

Anchor Size	D_a		M8	M10	M12	M16	M20	M24	M27	M30
Rod Length	$L_a \geq$	[mm]	110	130	160	190	260	300	340	360
Effective Anchorage Depth	h_{ef}	[mm]	60-160	60-200	70-240	80-320	90-400	96-480	108-540	120-600
Hole Diameter	d_o	[mm]	10	12	14	18	24	28	32	35
Depth of Drill Hole	h_o	[mm]	80	90	110	125	170	210	240	280
Diameter Fixture Hole	d_f	[mm]	9	12	14	18	22	26	30	33
Fixture Thickness	t_{fix}	[mm]	20	30	35	45	70	65	70	50
Recommended Torque	T_{inst}	[Nm]	10	20	40	60	100	170	250	300
Required Volume per cm Embedment Depth	V_s	[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	D_a		M8	M10	M12	M16	M20	M24	M27	M30
Min. Member Thickness	h_{min}	[mm]	110	120	140	160	220	265	305	350
Min. Edge Distance	c_{min}	[mm]	40	50	60	80	100	120	135	150
Min. Spacing	s_{min}	[mm]	40	50	60	80	100	120	135	150

STEEL BRUSH DIMENSIONS

Anchor Size	D_a		M8	M10	M12	M16	M20	M24	M27	M30
Brush Diameter	D	[mm]	12	14	16	20	26	30	34	37
Min. Brush Diameter	D_{min}	[mm]	10.5	12.5	14.5	18.5	24.5	28.5	32.5	35.5



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

- Performance Data:** Loads in kN for a single anchor in Concrete C20/C25*. Temperature 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
- Shear Loads:** Steel strength in kN without bending moment.
- Recommended Loads** incl. Safety factor $\gamma_c=1.4$.

CHARACTERISTIC RESISTANCE DRY/WET HOLES

Non-Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rk}	[kN]		18.0	29.0	42.0	75.4	123.0	174.2	212.1	237.5
	Shear ²⁾	V _{Rk}	[kN]		9.0	14.0	21.0	39.0	61.0	88.0	115.0	140.0
Steel 8.8	Tensile	N _{Rk}	[kN]		20.1	33.9	49.8	75.4	128.2	174.2	212.1	237.5
	Shear ²⁾	V _{Rk}	[kN]		15.0	23.0	34.0	63.0	98.0	141.0	184.0	224.0
A4-50	Tensile	N _{Rk}	[kN]								212.1	237.5
	Shear ²⁾	V _{Rk}	[kN]								115.0	140.0
A4-70	Tensile	N _{Rk}	[kN]		20.1	33.9	49.8	75.4	128.2	174.2		
	Shear ²⁾	V _{Rk}	[kN]		13.0	20.0	30.0	55.0	86.0	124.0		

Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rk}	[kN]				22.8	34.6	58.7	87.1	137.8	171.5
	Shear ²⁾	V _{Rk}	[kN]				21.0	39.0	61.0	88.0	115.0	140.0
Steel 8.8	Tensile	N _{Rk}	[kN]				22.8	34.6	58.7	87.1	137.8	171.5
	Shear ²⁾	V _{Rk}	[kN]				34.0	63.0	98.0	141.0	184.0	224.0
A4-50	Tensile	N _{Rk}	[kN]								137.8	171.5
	Shear ²⁾	V _{Rk}	[kN]								115.0	140.0
A4-70	Tensile	N _{Rk}	[kN]				22.8	34.6	58.7	87.1		
	Shear ²⁾	V _{Rk}	[kN]				30.0	55.0	86.0	124.0		



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

- Performance Data:** Loads in kN for a single anchor in Concrete C20/C25*. Temperature 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**
- Shear Loads:** Steel strength in kN without bending moment.
- Recommended Loads** incl. Safety factor $\gamma_c=1.4$.

CHARACTERISTIC RESISTANCE FLOODED HOLES

Non-Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rk}	[kN]		15.1	24.0	35.2	53.4				
	Shear ²⁾	V _{Rk}	[kN]		9.0	14.0	21.0	39.0				
Steel 8.8	Tensile	N _{Rk}	[kN]		15.1	24.0	35.2	53.4				
	Shear ²⁾	V _{Rk}	[kN]		15.0	23.0	34.0	63.0				
A4-50	Tensile	N _{Rk}	[kN]									
	Shear ²⁾	V _{Rk}	[kN]									
A4-70	Tensile	N _{Rk}	[kN]		15.1	24.0	35.2	53.4				
	Shear ²⁾	V _{Rk}	[kN]		13.0	20.0	30.0	55.0				

Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rk}	[kN]				22.8	34.6				
	Shear ²⁾	V _{Rk}	[kN]				21.0	39.0				
Steel 8.8	Tensile	N _{Rk}	[kN]				22.8	34.6				
	Shear ²⁾	V _{Rk}	[kN]				34.0	63.0				
A4-50	Tensile	N _{Rk}	[kN]									
	Shear ²⁾	V _{Rk}	[kN]									
A4-70	Tensile	N _{Rk}	[kN]				22.8	34.6				
	Shear ²⁾	V _{Rk}	[kN]				30.0	55.0				



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

DESIGN RESISTANCE DRY/WET HOLES

Non-Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rd}	[kN]		12.0	18.8	27.6	39.2	62.1	85.4	110.8	131.9
	Shear ²⁾	V _{Rd}	[kN]		7.2	11.2	16.8	31.2	48.8	70.4	92.0	112.0
Steel 8.8	Tensile	N _{Rd}	[kN]		13.4	18.8	27.6	39.2	62.1	85.4	110.8	131.9
	Shear ²⁾	V _{Rd}	[kN]		12.0	18.4	27.2	50.4	78.4	112.8	147.2	179.2
A4-50	Tensile	N _{Rd}	[kN]								80.1	97.9
	Shear ²⁾	V _{Rd}	[kN]								48.3	58.8
A4-70	Tensile	N _{Rd}	[kN]		13.4	18.8	27.6	39.2	62.1	85.4		
	Shear ²⁾	V _{Rd}	[kN]		8.3	12.8	19.2	35.3	55.1	79.5		
Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rd}	[kN]				12.7	19.2	32.6	48.4	76.6	93.7
	Shear ²⁾	V _{Rd}	[kN]				16.8	31.2	48.8	70.4	92.0	112.0
Steel 8.8	Tensile	N _{Rd}	[kN]				12.7	19.2	32.6	48.4	76.6	93.7
	Shear ²⁾	V _{Rd}	[kN]				27.2	50.4	78.4	112.8	147.2	179.2
A4-50	Tensile	N _{Rd}	[kN]								76.6	93.7
	Shear ²⁾	V _{Rd}	[kN]								48.3	58.8
A4-70	Tensile	N _{Rd}	[kN]				12.7	19.2	32.6	48.4		
	Shear ²⁾	V _{Rd}	[kN]				19.2	35.3	55.1	79.5		



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

DESIGN RESISTANCE FLOODED HOLES

Non-Cracked Concrete				D _s	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rd}	[kN]		7.2	11.4	16.8	25.4				
	Shear ²⁾	V _{Rd}	[kN]		7.2	11.2	16.8	31.2				
Steel 8.8	Tensile	N _{Rd}	[kN]		7.2	11.4	16.8	25.4				
	Shear ²⁾	V _{Rd}	[kN]		12.0	18.4	27.2	50.4				
A4-50	Tensile	N _{Rd}	[kN]									
	Shear ²⁾	V _{Rd}	[kN]									
A4-70	Tensile	N _{Rd}	[kN]		7.2	11.4	16.8	25.4				
	Shear ²⁾	V _{Rd}	[kN]		8.3	12.8	19.2	35.3				

Cracked Concrete				D _s	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{Rd}	[kN]				10.9	16.5				
	Shear ²⁾	V _{Rd}	[kN]				16.8	31.2				
Steel 8.8	Tensile	N _{Rd}	[kN]				10.9	16.5				
	Shear ²⁾	V _{Rd}	[kN]				27.2	50.4				
A4-50	Tensile	N _{Rd}	[kN]									
	Shear ²⁾	V _{Rd}	[kN]									
A4-70	Tensile	N _{Rd}	[kN]				10.9	16.5				
	Shear ²⁾	V _{Rd}	[kN]				19.2	35.3				



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

RECOMMENDED LOADS DRY/WET HOLES

Non-Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{rec}	[kN]		8.6	13.5	19.7	28.0	50.9	69.1	79.1	94.2
	Shear ²⁾	V _{rec}	[kN]		5.1	8.0	12.0	22.3	34.9	50.3	65.7	80.0
Steel 8.8	Tensile	N _{rec}	[kN]		9.6	13.5	19.7	28.0	50.9	69.1	79.1	94.2
	Shear ²⁾	V _{rec}	[kN]		8.6	13.1	19.4	36.0	56.0	80.6	105.1	128.0
A4-50	Tensile	N _{rec}	[kN]								57.2	69.9
	Shear ²⁾	V _{rec}	[kN]								34.5	42.0
A4-70	Tensile	N _{rec}	[kN]		9.6	13.5	19.7	28.0	50.9	69.1		
	Shear ²⁾	V _{rec}	[kN]		6.0	9.2	13.7	25.2	39.4	56.8		

Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{rec}	[kN]				9.1	13.7	23.3	34.6	54.7	66.9
	Shear ²⁾	V _{rec}	[kN]				12.0	22.3	34.9	50.3	65.7	80.0
Steel 8.8	Tensile	N _{rec}	[kN]				9.1	13.7	23.3	34.6	54.7	66.9
	Shear ²⁾	V _{rec}	[kN]				19.4	36.0	56.0	80.6	105.1	128.0
A4-50	Tensile	N _{rec}	[kN]								54.7	66.9
	Shear ²⁾	V _{rec}	[kN]								34.5	42.0
A4-70	Tensile	N _{rec}	[kN]				9.1	13.7	23.3	34.6		
	Shear ²⁾	V _{rec}	[kN]				13.7	25.2	39.4	56.8		



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PERFORMANCE DATA¹⁾ FOR HAMMER/AIR DRILLED HOLES

Steel Failure

RECOMMENDED LOADS FLOODED HOLES

Non-Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{rec}	[kN]		5.1	8.2	12.0	18.2				
	Shear ²⁾	V _{rec}	[kN]		5.1	8.0	12.0	22.3				
Steel 8.8	Tensile	N _{rec}	[kN]		5.1	8.2	12.0	18.2				
	Shear ²⁾	V _{rec}	[kN]		8.6	13.1	19.4	36.0				
A4-50	Tensile	N _{rec}	[kN]									
	Shear ²⁾	V _{rec}	[kN]									
A4-70	Tensile	N _{rec}	[kN]		5.1	8.2	12.0	18.2				
	Shear ²⁾	V _{rec}	[kN]		6.0	9.2	13.7	25.2				

Cracked Concrete				D _a	M8	M10	M12	M16	M20	M24	M27	M30
Steel 5.8	Tensile	N _{rec}	[kN]				7.8	11.8				
	Shear ²⁾	V _{rec}	[kN]				12.0	22.3				
Steel 8.8	Tensile	N _{rec}	[kN]				7.8	11.8				
	Shear ²⁾	V _{rec}	[kN]				19.4	36.0				
A4-50	Tensile	N _{rec}	[kN]									
	Shear ²⁾	V _{rec}	[kN]									
A4-70	Tensile	N _{rec}	[kN]				7.8	11.8				
	Shear ²⁾	V _{rec}	[kN]				13.7	25.2				



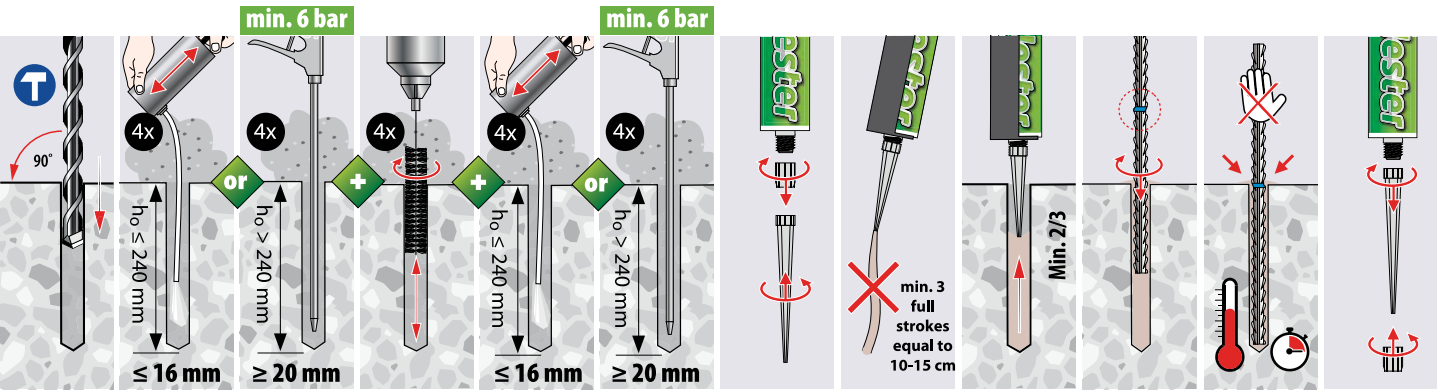
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REBAR INSTALLATION PROCEDURES



INSTALLATION PROCEDURES



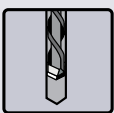
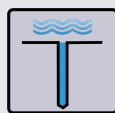
CURING TIMES

Temperature ¹	°C	-10 ²	-5	0	+5	+10	+20	+30	+35	+40
Processing Working Time		90 min	90 min	45 min	25 min	15 min	6 min	4 min	2 min	1.5 min
Curing Time Dry Holes		24 h	14 h	7 h	2 h	80 min	45 min	25 min	20 min	15 min
Curing Time Wet Holes		48 h	28 h	14 h	4 h	160 min	90 min	50 min	40 min	30 min

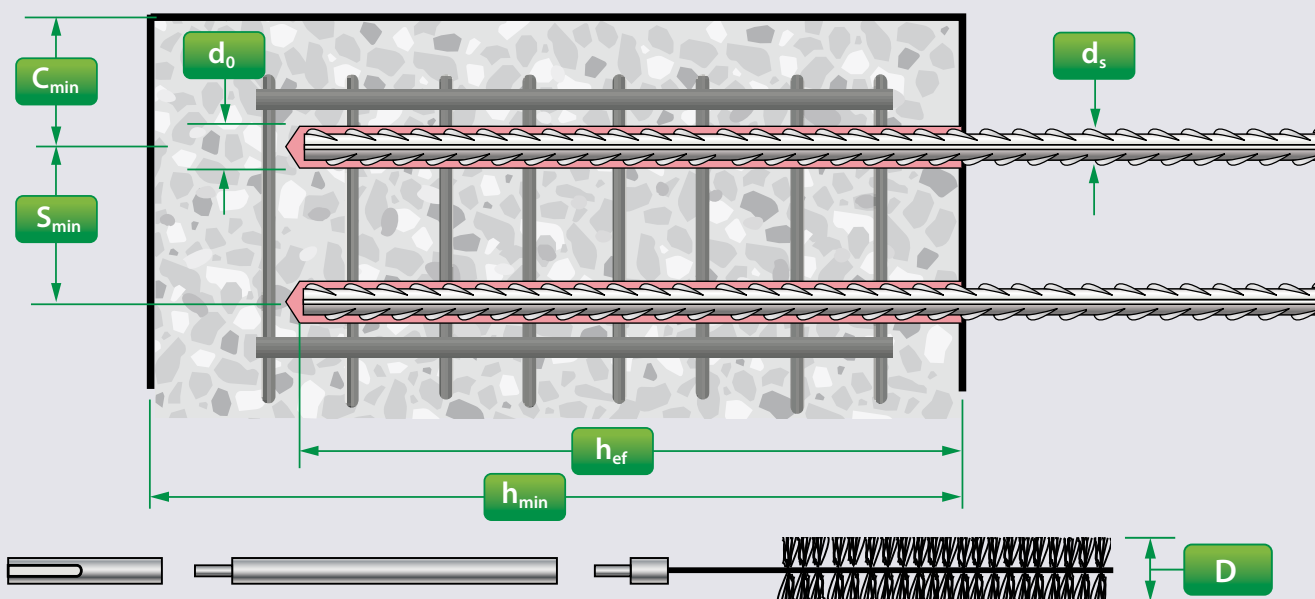
¹ Concrete temperature ² Cartridge temperature must be at least +15 °C



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Specification Data for the use in Cracked & Uncracked Concrete and Hammer/Air Drilled Holes according to EN1992-4 & AS 5216 and Technical Report TR 055



INSTALLATION DIMENSIONS

Rebar Size	d_{nom}		Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
Min. Eff. Anchorage Depth	$h_{ef,min}$	[mm]	70	80	90	96	112	128
Max. Eff. Anchorage Depth	$h_{ef,max}$	[mm]	240	320	400	480	560	640
Hole Diameter	d_o	[mm]	16	20	25	32	35	40
Required Volume per cm Embedment Depth	V_s	[ml/cm]	1.06	1.36	2.12	3.76	4.20	5.50

MEMBER THICKNESS, EDGE DISTANCE & SPACING

Rebar Size	d_{nom}		Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
Min. Member Thickness	h_{min}	[mm]	$h_{ef} + 2d_o$					
Min. Edge Distance	C_{min}	[mm]	60	80	100	120	140	160
Min. Spacing	S_{min}	[mm]	60	80	100	120	140	160

STEEL BRUSH DIMENSIONS

Rebar Size	d_{nom}		Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
Brush Diameter	D	[mm]	18	22	27	34	37	41.5
Min. Brush Diameter	D_{min}	[mm]	16.5	20.5	25.5	32.5	35.5	40.5
Piston Plug	#	[-]	no plug required	20	25	32	35	40



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PERFORMANCE DATA¹⁾

Steel Failure

- 1) **Performance Data:** Loads in kN for a single Rebar Dowel in Concrete C20/C25*
Temperature 24°C/40°C for long/short term. No influence of Edge- or Center to Center Distances.
- 2) **Shear Loads:** Steel strength in kN without bending moment.
- 3) **Recommended Loads** incl. Safety factor $\gamma_c=1.4$.

DESIGN RESISTANCE DRY/WET HOLES

Non-Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{Rd,min}	[kN]		16.4	20.1	24.0	26.4	33.3	40.6
	Tensile Max.	N _{Rd,max}	[kN]		44.4	79.0	123.4	177.6	241.9	303.8
	Shear ²⁾	V _{Rd,max}	[kN]		20.7	36.9	57.6	82.9	112.9	147.4
Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{Rd,min}	[kN]		8.1	12.3	17.1	18.8	23.7	29.0
	Tensile Max.	N _{Rd,max}	[kN]		27.6	49.1	76.8	110.6	171.5	232.3
	Shear ²⁾	V _{Rd,max}	[kN]		20.7	36.9	57.6	82.9	112.9	147.4

DESIGN RESISTANCE FLOODED HOLES

Non-Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{Rd,min}	[kN]		10.7	16.3				
	Tensile Max.	N _{Rd,max}	[kN]		36.6	65.1				
	Shear ²⁾	V _{Rd,max}	[kN]		20.7	36.9				
Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{Rd,min}	[kN]		6.9	10.5				
	Tensile Max.	N _{Rd,max}	[kN]		23.7	42.1				
	Shear ²⁾	V _{Rd,max}	[kN]		20.7	36.9				



25/0541



PERFORMANCE DATA¹⁾

Steel Failure

- Performance Data:** Loads in kN for a single Rebar Dowel in Concrete C20/C25*
Temperature 24°C/40°C for long/short term. No influence of Edge- or Center to Center Distances.
- Shear Loads:** Steel strength in kN without bending moment.
- Recommended Loads** incl. Safety factor $\gamma_c=1.4$.

RECOMMENDED LOADS DRY/WET HOLES

Non-Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{rec,min}	[kN]		11.7	14.3	17.1	18.9	23.8	29.0
	Tensile Max.	N _{rec,max}	[kN]		31.7	56.4	88.2	126.9	172.8	217.0
	Shear ²⁾	V _{rec,max}	[kN]		14.8	26.3	41.1	59.2	80.6	105.3
Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{rec,min}	[kN]		5.8	8.8	12.2	13.4	16.9	20.7
	Tensile Max.	N _{rec,max}	[kN]		19.7	35.1	54.9	79.0	122.5	166.0
	Shear ²⁾	V _{rec,max}	[kN]		14.8	26.3	41.1	59.2	80.6	105.3

RECOMMENDED LOADS FLOODED HOLES

Non-Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{rec,min}	[kN]		7.6	11.6				
	Tensile Max.	N _{rec,max}	[kN]		26.2	46.5				
	Shear ²⁾	V _{rec,max}	[kN]		14.8	26.3				
Cracked Concrete				D _{nom}	Ø12	Ø16	Ø20	Ø24	Ø28	Ø32
B500B	Tensile, Min.	N _{rec,min}	[kN]		4.9	7.5				
	Tensile Max.	N _{rec,max}	[kN]		16.9	30.1				
	Shear ²⁾	V _{rec,max}	[kN]		14.8	26.3				



AS 5216 COMPLIANT NCC ANCHOR DESIGN



Design of fastenings
under seismic
actions



Design of redundant
non-structural
systems



Combined loading
and displacement
calculations



Unique all-in-one
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- ✓ Flexible custom anchor and base plate geometry design for complex shapes and applications
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ICCONS® PTY LTD

VICTORIA - Head Office

383 Frankston Dandenong Rd,
Dandenong South,
Victoria, 3175
P: 03 9706 4344

NSW Branch

Unit A, 17 Seddon Street,
Bankstown,
New South Wales, 2200
P: 02 9791 6869

QLD Branch

42-44 Nealdon Dr,
Meadowbrook,
Queensland, 4131
P: 07 3200 6455

FNQ Branch

41 Corporate Crescent,
Garbutt,
Queensland, 4814
P: 07 2111 3453

S.A Branch

29-31 Weaver Street,
Edwardstown,
South Australia, 5039
P: 08 8234 5535

W.A. Branch

Unit 4, 79 Gnangara Road,
Wangara
Western Australia 6065
P: 08 6305 0008

N.T Branch

Unit 1, 14 Menmuir Street,
Winnellie,
Northern Territory, 0820
P: 08 8947 2758

NEW ZEALAND

SESTO FASTENERS

5E Piermark Drive,
Rosedale, Auckland,
New Zealand, 0632
P: +64 9415 8564
E: sestofasteners@gmail.com

THAILAND

ICCONS® (Thailand) Co. Ltd.

55 Phetkasem 62/3,
Bangkhuae, Bangkok
Thailand, 0160
P: + 66 2 801 0764
F: + 66 2 801 0764
M: + 66 8 1 710 8745
E: icconsthailand@iccons.com.au

