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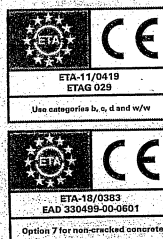
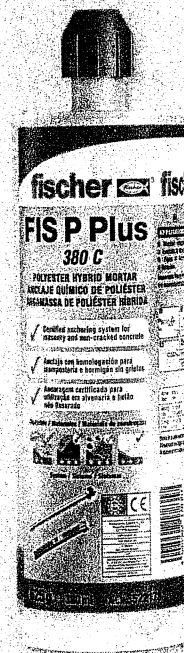
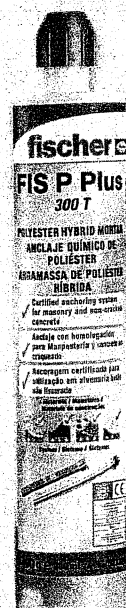
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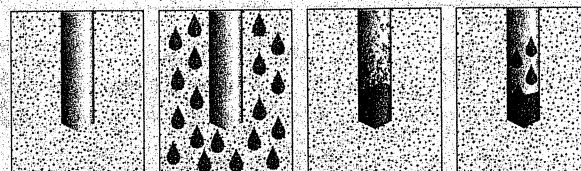
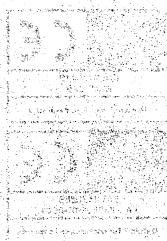
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innovative solutions

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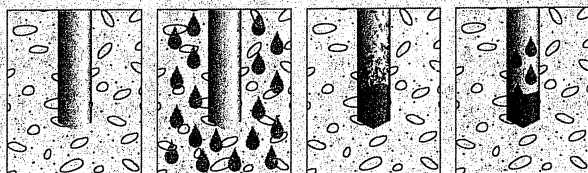
fischer FIS P Plus



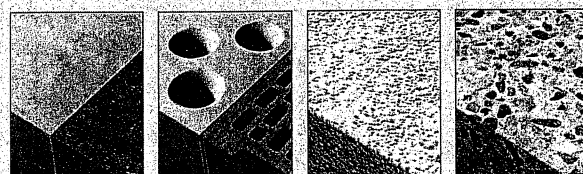
- (D) Gebrauchsanweisung
- (GB) Operating instructions
- (F) Mode d'emploi
- (NL) Montagehandleiding
- (I) Istruzioni per l'installazione
- (E) Instrucciones de uso
- (P) Instruções de utilização
- (DK) Installationsvejledning
- (S) Installationsinstruktioner
- (N) Installasjonsveiledning
- (FIN) Asennusohjeet
- (PL) Instrukcja instalacji
- (CZ) Návod k instalaci
- (SK) Návod na používanie
- (H) Szerelési útmutató
- (RO) Instrucțiuni de utilizare
- (GR) Οδηγίες εγκατάστασης
- (RUS) Инструкция по установке
- (RC) 使用说明书
- (J) 取扱説明書
- (ROK) 사용 설명서
- (UAE) تعليمات الاستخدام



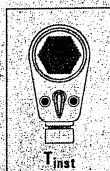
- | | | | |
|------------------------------|--------------------------|-----------------------------|---------------------------------------|
| (D) Trockenes Mauerwerk | Nasses Mauerwerk | Verschmutztes Bohrloch | Wassergefülltes Bohrloch |
| (GB) Dry masonry | Wet masonry | Contaminated drill hole | Water filled borehole |
| (F) Maçonnerie sèche | Maçonnerie humide | Perçage non dépoussiéré | Trou inondé |
| (NL) Droog muurwerk | Vochtig/nat muurwerk | Vervuild boorgat | Met water gevuld boorgat |
| (I) Muratura asciutta | Muratura umida | Foro sporco | Foro pieno d'acqua nel calcestruzzo |
| (E) Obra seca | Obra húmeda | Agujero de taladrado sucio | Taladro lleno de agua en hormigón |
| (P) Alvenaria seca | Alvenaria molhada | Furo com sujidade | Furo cheio de água |
| (DK) Tørt murværk | Vædt murværk | Tilsmudset borehul | Vandfyldt borehul |
| (S) Tørrt murverk | Fuktigt murverk | Smutsigt hål | Vattenfylt hål |
| (N) Tørrt murverk | Vætt murverk | Tilskittet borehull | Vannfylt borehull |
| (FIN) Kuiva muuri | Märkä muuri | Likaantunut poranreikä | Vedellä täytynyt poranreikä |
| (PL) Suchy mur | Wilgotny mur | Zabrudzony wywiercony otwór | Wywiercony otwór wypełniony |
| (CZ) Suché zdivo | Vlhké zdivo | Znečištěný vývrt | Naplněné vodou |
| (SK) Suché múrivo | Vlhké múrivo | Znečistený vývrt | Vodou naplnený otvor vyvrtaný |
| (H) Száraz falazat | Nedves falazat | Szennyezett furat | Vízzel töltött furat |
| (RO) Zidărie falazat | Zidărie umeză | Gaură forată contaminată | Gaură forată umplută cu apă |
| (GR) Στεγνή τοιχοποιία | Υγρή τοιχοποιία | Βρώμικη τρύπα | Τρύπα γεμάτη νερό |
| (RUS) Сухая кирпичная кладка | Влажная кирпичная кладка | Загрязненное отверстие | Отверстие в бетоне, заполненное водой |
| (RC) 干砌体 | 浆砌体 | 受污的钻孔 | 注水的钻孔 |
| (J) 空積み | 練り積み | 汚れた掘削孔 | 水がたまった掘削孔 |
| (ROK) 건조한 석조 | 습윤한 석조 | 이물질이 삽입된 드릴 구멍 | 물이 찬 드릴 구멍 |
| (UAE) بناء جاف | بناء رطب | ثقب ملوث | ثقب ممتلئ بالماء |



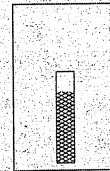
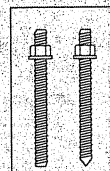
(D)	Trockener Beton	Nasser Beton	Verschmutztes Bohrloch	Wassergefülltes Bohrloch
(GB)	Dry concrete	Water saturated concrete	Contaminated drill hole	Water filled borehole
(F)	Béton sec	Béton humide	Percage non dépoussiéré	Trou inondé
(NL)	Droog beton	Met water verzadigd beton	Vervuild boorgat	Met water gevuld boorgat
(I)	Calcestruzzo secco	Calcestruzzo saturo d'acqua	Foro sporco	Foro pieno d'acqua nel calcestruzzo
(E)	Hormigón seco	Hormigón saturado de agua	Agujero de taladrado sucio	Taladro lleno de agua en hormigón
(P)	Betão seco	Betão saturado de água	Furo com sujidade	Furo cheio de água
(DK)	Tør beton	Vandmættet beton	Tilsmudset borehul	Vandfyldt borehul
(S)	Torr betong	Vattenmättad betong	Smutsigt hål	Vattenfylt hål
(N)	Terr betong	Vannmettet betong	Tilskitnet borehull	Vannfylte borehull
(FIN)	Kuiva betony	Veden kyllästämä betoni	Likaantunut poranreikä	Vedellä täyttynyt porareikä
(PL)	Beton suchy wodą	Beton nasycony wodą	Zabrudzony wywiercony otwór	Wywiercony otwór wypelnionym
(CZ)	Suchý beton	Mokrý beton otvory vyvrtané do	Znečištěný vývrt	Naplněné vodou
(SK)	Suchý betón	Vodou nasýtený betón	Znečištěný vývrt	Vodou naplnený otvor vyvrtaný
(H)	Száraz beton	Nedves beton	Szennyezett furat	Vízzel töltött furat
(RO)	Beton uscat	Beton ud	Gaură forată contaminată	Gaură forată umplută cu apă
(GR)	Στεγνό μπετόν	Υγρό μπετόν	Βρώμικη τρύπα	Τρύπα γεμάτη νερό
(RUS)	Сухой бетон	Водонасыщенный бетон	Загрязненное отверстие	Отверстие в бетоне, заполненное водой
(RC)	干燥混凝土	湿混凝土	受污的钻孔	注水的钻孔
(J)	いたベトン	湿ったベトン	汚れた掘削孔	水がたまった掘削孔
(ROK)	건조 콘크리트	습윤 콘크리트	이물질이 삽입된 드릴 구멍	물이 찬 드릴 구멍
(UAE)	خرسانة جافة	خرسانة رطبة	ثقب ملوث	ثقب ممتلئ بالماء



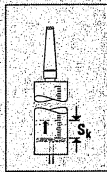
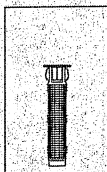
(D)	Vollstein	Lochstein	Porenbeton	Ungerissener Beton
(GB)	Solid brick	Perforated brick	Aerated concrete	Non-cracked concrete
(F)	Maçonneries pleines	Maçonneries creuses	Béton cellulaire	Béton non fissuré
(NL)	Volle steen	Holle steen	Cellenbeton	Ongescheurd beton
(I)	Mattone pieno	Mattone forato	Calcestruzzo cellulare autoclavato	Calcestruzzo non fessurato
(E)	Ladrillo macizo	Ladrillo perforado	Hormigón celular	Hormigón sin grietas
(P)	Pedra maciça	Pedra porosa	Betão celular	Betão não fissurado
(DK)	Massiv sten	Hulsten	Porebeton	Ikke-revnet beton
(S)	Massiv sten	Hålsten	Lättbetong	Ej sprucken betong
(N)	Helstein	Perforert (mur)stein	Porebetong	Betong uten riss
(FIN)	Umpitiili	Reikätiili	Solubetoni	Halkeamaton betoni
(PL)	Cegła pełna	Pustak	Beton porowaty	Beton niespekany
(CZ)	Plně cihly	Děrované cihly	Pórbeton	Beton bez trhlin
(SK)	Plná tehla	Dierovaná tehla	Pórbetón	Betón bez trhlín
(H)	Tomör kő	Lyukaskő	Porózus beton	Repedésmentes beton
(RO)	Căramidă plină	Căramidă cu găuri	Beton poros	Beton fără fisuri
(GR)	Συμπαγείς πλίνθοι	Διάτρητοι πλίνθοι	Πορώδης μπετόν	Μπετόν χωρίς ρωγμές
(RUS)	Полнотелый кирпич	Пустотелый кирпич	Пористый бетон	Цельный бетон
(RC)	实心砖	空心砖	多孔混凝土	无裂缝的混凝土
(J)	全面石材	穴付き石材	気泡コンクリート	ひび割れのないベトン
(ROK)	일반 벽돌	공동 벽돌	기포 콘크리트	비균열 콘크리트
(UAE)	طوبه كاملة	طوبه مخرمة	خرسانة ذات مسام	خرسانة غير متصدعة



(D)	Drehmoment	Verarbeitungszeit	Aushärtezeit
(GB)	Required torque	Open time	Hardening time
(F)	Couple	Temps de manipulation	Temps de durcissement
(NL)	Draaimoment	Verwerkingstijd	Uithardtijd
(I)	Coppia	Tempo di lavorazione	Tempo di indurimento
(E)	Par	Tiempo de tratamiento	Tiempo de endurecimiento
(P)	Binário	Tempo de processamento	Tempo de endurecimento
(DK)	Tilspændingsmoment	Forarbejdsningstid	Hærdetid
(S)	Vridmoment	Bearbetningstid	Hårdningstid
(N)	Dreimoment	Bearbejdselstid	Herdetid
(FIN)	Vääntömomentti	Käsittelyaika	Kovettumisaika
(PL)	Moment dokręcania	Czas żelowania	Czas wiązania
(CZ)	Utahovací moment	Doba zpracování	Doba vytvrzení
(SK)	Utahovací moment	Doba spracovania	Doba vytvrdnutia
(H)	Forgatónyomatek	Feldolgozási idő	Kikeményedési idő
(RO)	Cuplu	Timp de punere în operă	Timp de întărire
(GR)	Ροπή σύσφιξης	Χρόνος επεξεργασίας	Χρόνος σκλήρυνσης
(RUS)	Крутящий момент	Время обработки	Время отверждения
(RC)	扭矩	加工时间	硬化时间
(J)	トルク	加工時間	凝固時間
(ROK)	토크	작업 시간	경화 시간
(UAE)	عزم الدوران	وقت التصنيع	وقت التصلب



(D)	Ankerstangen FIS A + RG M	Innengewindeanker FIS E
(GB)	Anchor rods FIS A + RG M	FIS E internal thread anchor
(F)	Tiges filetées FIS A + RG M	Douilles taraudées FIS E
(NL)	Ankerstangen FIS A + RG M	Binnendraadanker FIS E
(I)	Barre di ancoraggio FIS A + RG M	Ancoraggio con filettatura interna FIS E
(E)	Barras de anclaje FIS A + RG M	Anclaje de rosca interior FIS E
(P)	Tirantes de ancoragem FIS A + RG M	Ancoragem de rosca interna FIS E
(DK)	Gevindstænger FIS A + RG M	Anker med indvendigt gevind FIS E
(S)	Förankringsstänger FIS A + RG M	Ankare med innergånga FIS E
(N)	Ankerstænger FIS A + RG M	Innvendig gjenge anker FIS E
(FIN)	Harustangot FIS A + RG M	Sisäkiertreankuri FIS E
(PL)	Kotwy FIS A + RG M	Kotwa z gwintem wewnętrznym
(CZ)	Kotavní tyče FIS A + RG M	Svorník s vnitřním závitem FIS E
(SK)	Kotviace tyče FIS A + RG M	Kotva s vnútorným závitom FIS E
(H)	Horgonyrudak FIS A + RG M	Belsőmenetes horgony FIS E
(RO)	Bară de ancorare FIS A + RG M	Ancoră cu filet interior FIS E
(GR)	Ντίζες αγκύρωσης FIS A + RG M	Αγκύρια με εσωτερικό σπείρωμα FIS E
(RUS)	Анкерные болты FIS A + RG M	Анкер с внутренней резьбой FIS E
(RC)	系杆 FIS A + RG M	FIS E 型内螺纹 锚栓
(J)	アンカーロッド FIS A + RG M	内ねじ付きアンカー FIS E
(ROK)	앵커 로드 FIS A + RG M	내부 스레드 앵커 FIS E
(UAE)	FIS A + RG M قضبان تثبيت	FIS E لولبة تثبيت داخلية



(D)	Ankerhülse Kunststoff FIS HK	Skalentelle
(GB)	FIS HK plastic anchor sleeve	Scale divisions
(F)	Tamis d'injection FIS HK	Graduations
(NL)	Ankerhuls kunststof FIS HK	Schaalonderdelen
(I)	Boccola di ancoraggio in plastica FIS HK	Divisioni di scala
(E)	Vaina de anclaje plástica FIS HK	Unidades de escala
(P)	Manga de ancoragem em plástico FIS HK	Intervalos de graduação
(DK)	Skylse kunststof FIS HK	Skalatrín
(S)	Ankerhylsa plast FIS HK	Skaldelar
(N)	Ankerhylse kunststoff FIS HK	Skaladeler
(FIN)	Muovinen ankkurihylsy FIS HK	Asteikkojaot
(PL)	Tuleja kotwiąca syntetyczna FIS HK	Podziałki skali
(CZ)	Kotevní pouzdro, plast FIS HK	Díly na stupnici
(SK)	Puzdro z plastu FIS HK	Diely na stupnici
(H)	Műanyag horgonyhüvely FIS HK	Skálarszértékek
(RO)	Manșon de ancoră material plastic FIS HK	Diviziuni scală
(GR)	Πλαστικά βύσματα αγκύρωσης FIS HK	Διαβαθμίσεις κλίμακας
(RUS)	Анкерная гильза пластиковая FIS HK	Деление шкалы
(RC)	FIS HK 型塑料 螺絲套管	刻度
(J)	プラスチック製アンカースリーブ FIS HK	目盛り分割
(ROK)	앵커 슬리브 폴 라스틱 FIS HK	스케일의 눈금쪽
(UAE)	FIS HK كُم تثبيت بلاستيكي	أجزاء المقياس



				FIS A	11, 13, 14
				FIS E	12/13, 15
				FIS HK + FIS A	16/17, 19
				FIS HK + FIS E	18/19
				FIS A + RG M	20/21, 22/23



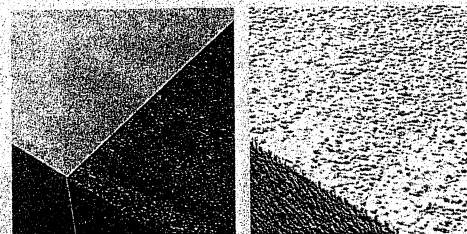
FIS MR PLUS

	t_{work}			t_{cure}		
	FIS P Plus LOW SPEED	FIS P Plus (standard)	FIS P Plus HIGH SPEED	FIS P Plus LOW SPEED	FIS P Plus (standard)	FIS P Plus HIGH SPEED
$\pm 5^{\circ}\text{C} - \pm 0^{\circ}\text{C}$	-	-	-	24 h	180	-
$+ 1^{\circ}\text{C} - + 5^{\circ}\text{C}$	-	13	5	360	180	90
$+ 6^{\circ}\text{C} - + 10^{\circ}\text{C}$	20	9	3	180	90	45
$+ 11^{\circ}\text{C} - + 20^{\circ}\text{C}$	10	5	1	120	60	30
$+ 21^{\circ}\text{C} - + 30^{\circ}\text{C}$	6	4	-	60	45	-
$+ 31^{\circ}\text{C} - + 40^{\circ}\text{C}$	4	2	-	30	35	-

	t_{work}	min.	t_{cure}	min.
	FIS P Plus (standard)		FIS P Plus (standard)	
$\pm 0^{\circ}\text{C} - + 5^{\circ}\text{C}$	13		180	
$+ 6^{\circ}\text{C} - + 10^{\circ}\text{C}$	9		90	
$+ 11^{\circ}\text{C} - + 20^{\circ}\text{C}$	5		60	
$+ 21^{\circ}\text{C} - + 30^{\circ}\text{C}$	4		45	
$+ 31^{\circ}\text{C} - + 40^{\circ}\text{C}$	2		35	

		Art. No.	
150 ml	KPM 2	053117	FIS MR PLUS
300 ml	FIS AM	058000	
360 ml	FIS AP	058027	
380 ml 410 ml	FIS AC	096497	

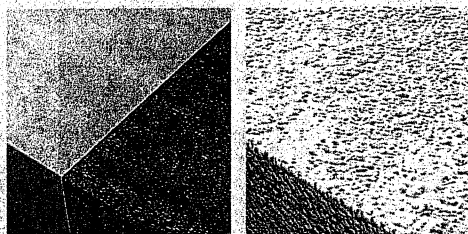
FIS A



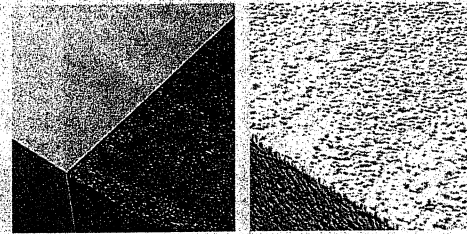
FIS A

	FIS A	M8	M10	M12
		✓	✓	✓
	d_0 (mm)	10	12	14
	h_0 (mm)	50	50	50
	$h_{0,max}$ (mm)	100	100	100
	h_0 (mm)	100	100	100
	$h_{0,max}$ (mm)	120	120	120
	fischer BS	Ø 10	Ø 12	Ø 14
	d_0 (mm)	11	14	16
	d_f (mm)	9	12	14
	d_f (mm)	11	14	16
	$S_k(h_{0,min})$ (-)	2	2	3
	$S_k(h_{0,max})$ (-)	3	4	5
	$T_{inst,min}$ [Nm]	0	0	0
	$T_{inst,max}$ [Nm]			
		www.fischer.de → ETA-11/0419		

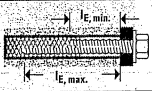
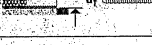
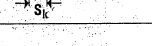
FIS E



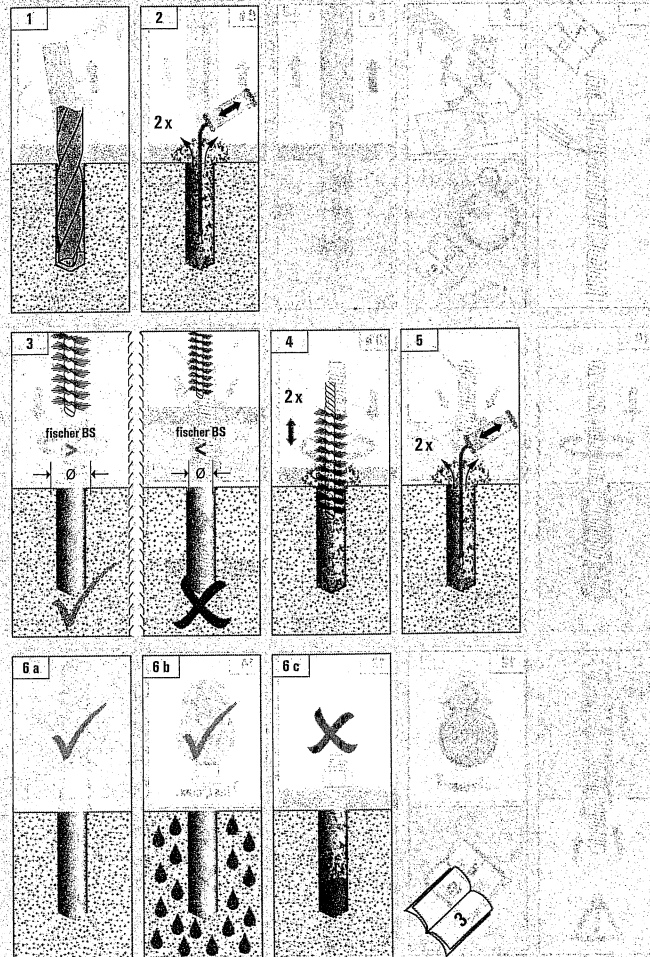
FIS A
FIS E



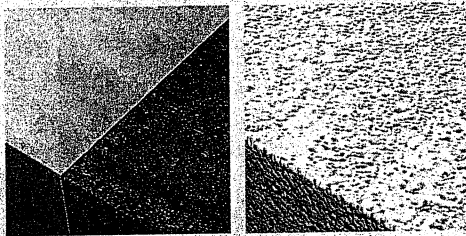
FIS E

 FIS E	M6	M8	M10	M12
	✓	✓	✓	✓
 $l_{E,min}$	6	8	10	12
 $l_{E,max}$	60	60	60	60
 d_0 (mm)	14	14	18	18
 h_0 (mm)	90	90	90	90
 fischer BS	Ø 16	Ø 16	Ø 18	Ø 18
 d_0 (mm)	20	20	20	20
 d_f (mm)	7	9	12	14
 s_k	4	4	6	6
 $T_{inst,min}$ [Nm]	0	0	0	0
 $T_{inst,max}$ [Nm]				
	www.fischer.de → ETA-11/0419			

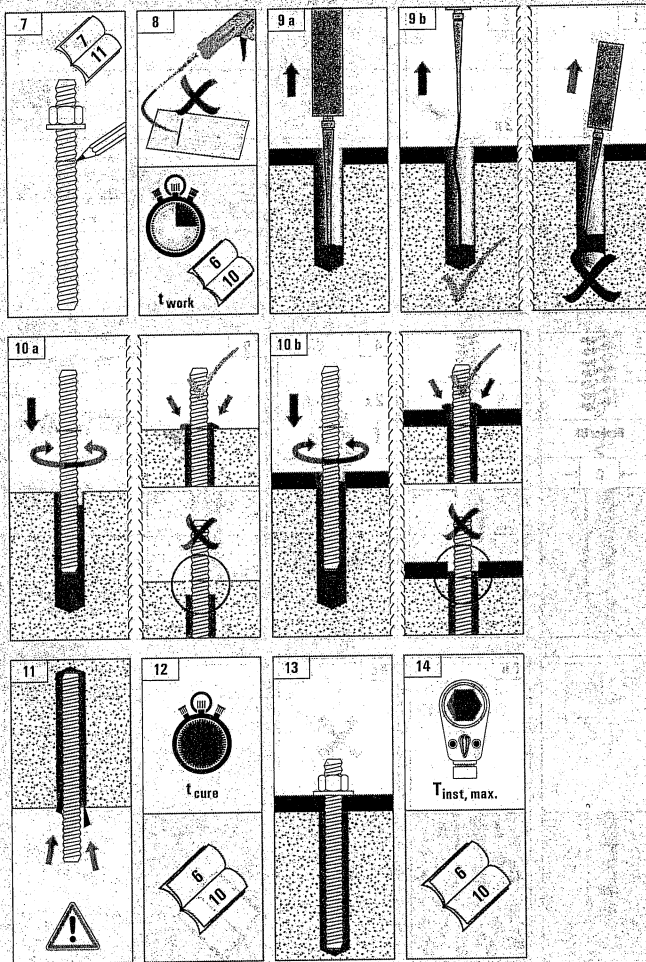
FIS A, FIS E



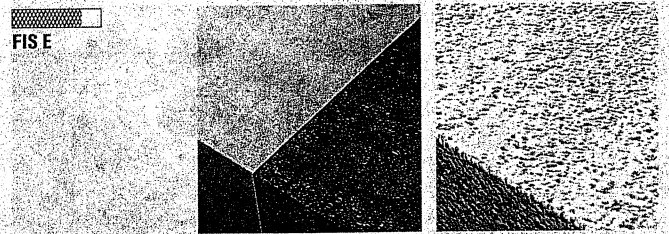
FIS A



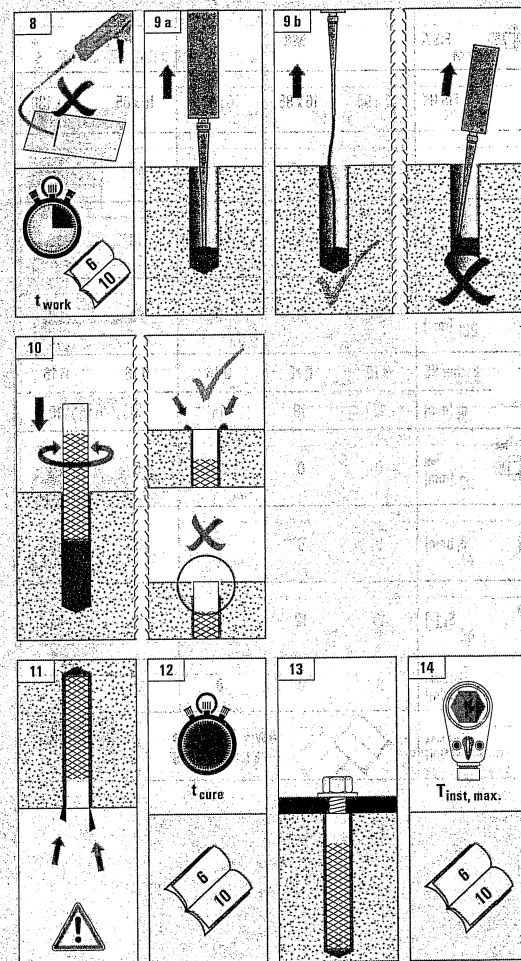
FIS A

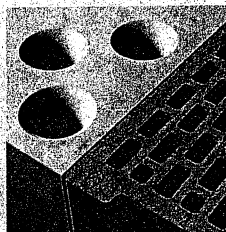
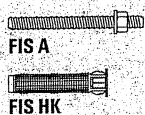


FIS E



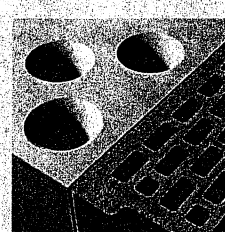
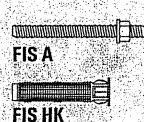
FIS E





FIS A, FIS HK

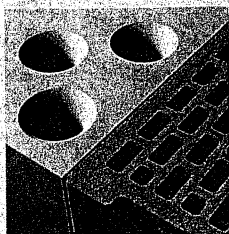
	FIS A	M8			M10	
	FIS HK	12 x 85	16 x 85	16 x 130	16 x 85	16 x 130
		✓	✓	✓	✓	✓
d_o [mm]		12	16	16	16	16
h_o [mm]		90	90	135	90	135
fischer BS		Ø 12	Ø 16	Ø 16	Ø 16	Ø 16
d_b [mm]		13	18	18	18	18
t_{int} [mm]		0	0	20	0	20
d_f [mm]		9	9	9	12	12
s_k [-]		10	12	15	12	15
$T_{inst, min}$ [Nm]		0	0	0	0	0
$T_{inst, max}$ [Nm]		www.fischer.de → ETA-11/0419				



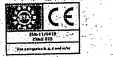
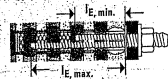
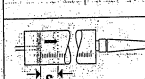
FIS A, FIS HK

	FIS A	M12		
	FIS HK	20 x 85	20 x 130	20 x 200
		✓	✓	✓
d_o [mm]		20	20	20
h_o [mm]		90	135	205
fischer BS		Ø 20	Ø 20	Ø 20
d_b [mm]		24	24	24
t_{int} [mm]		0	20	20
d_f [mm]		14	14	14
s_k [-]		15	25	40
$T_{inst, min}$ [Nm]		0	0	0
$T_{inst, max}$ [Nm]		www.fischer.de → ETA-11/0419		

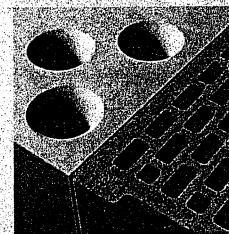
FIS E
FIS HK



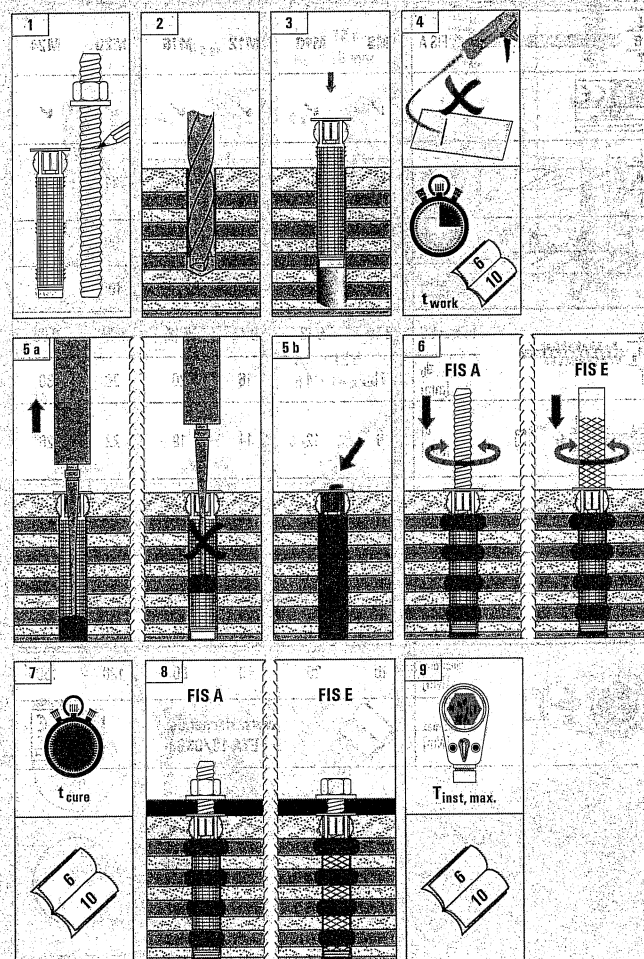
FIS E, FIS HK

$\varnothing$	FIS E	M6	M8	M10	M12
	FIS HK	16 x 85	16 x 85	20 x 85	20 x 85
		✓	✓	✓	✓
	$l_{E, min}$	6	8	10	12
	$l_{E, max}$	60	60	60	60
	d_0 [mm]	16	16	20	20
	h_0 [mm]	90	90	90	90
	fischer BS	Ø 16	Ø 16	Ø 20	Ø 20
	d_b [mm]	18	18	24	24
	t_{int} [mm]	0	0	0	0
	d_f [mm]	7	9	12	14
	S_k [-]	12	12	15	15
	$T_{inst, min}$ [Nm]	0	0	0	0
	$T_{inst, max}$ [Nm]				
			www.fischer.de → ETA-11/0419		

FIS A
FIS E
FIS HK

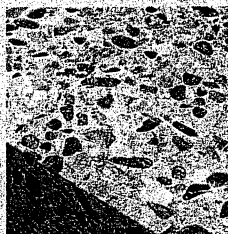


FIS A, FIS E, FIS HK

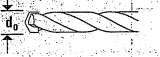
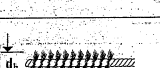
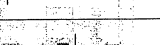


FIS A

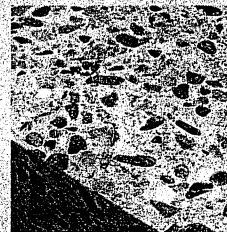
RG M



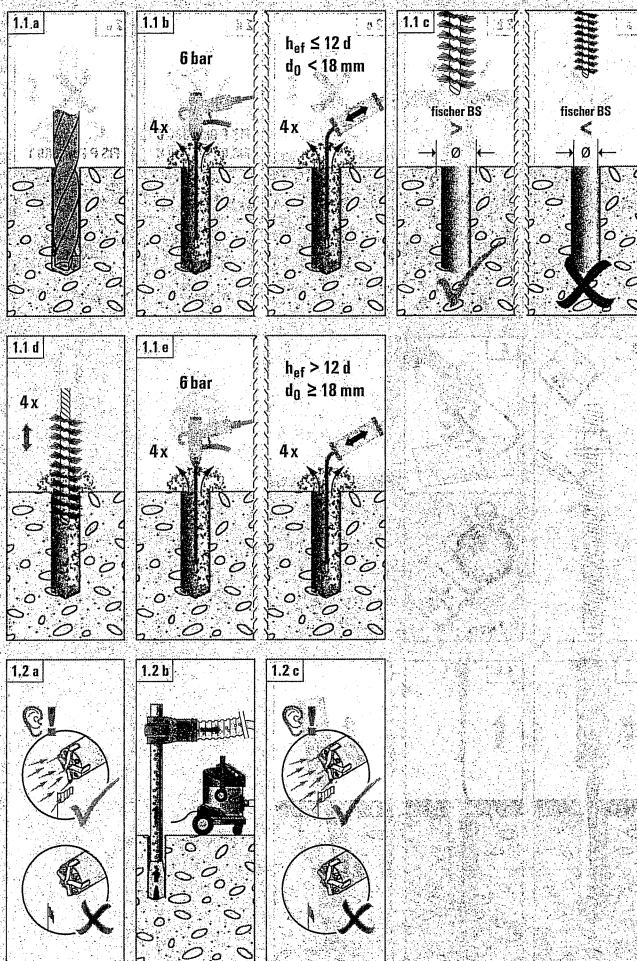
FIS A, RG M

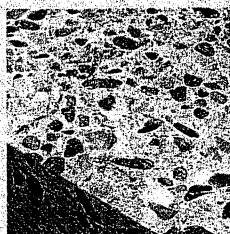
 FIS A	M8	M10	M12	M16	M20	M24
	✓	✓	✓	✓	✓	✓
 d_0 (mm)	10	12	14	18	24	28
 $h_{o,min}$ (mm)	60	60	70	80	90	96
 $h_{o,max}$ (mm)	160	200	240	320	400	480
 fischer BS	Ø 10	Ø 12	Ø 14	Ø 18	Ø 24	Ø 28
 d_0 (mm)	11	14	16	20	26	30
 d_f (mm)	9	12	14	18	22	26
 d_f (mm)	11	14	16	20	26	30
 $S_k(h_{o,min})$ [-]	2	3	3	5	11	16
 $S_k(h_{o,max})$ [-]	5	7	10	19	48	75
 $T_{inst,min}$ [Nm]	10	20	40	60	120	150
 $T_{inst,max}$ [Nm]	 www.fischer.de → ETA-18/0383					

FIS A

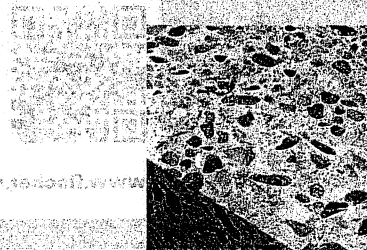
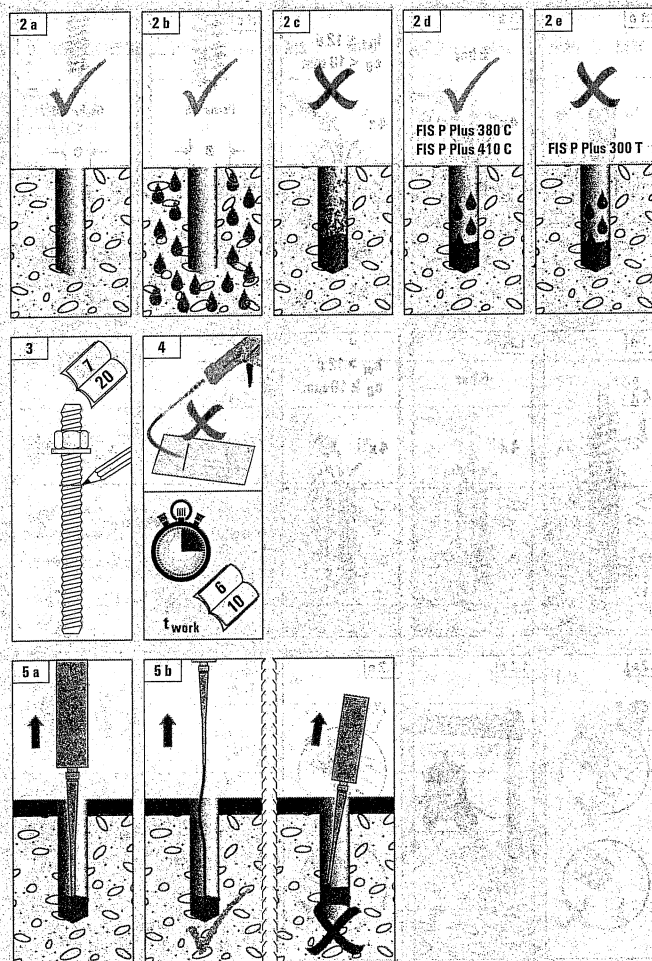


FIS A





FIS A



FIS A

