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fischer fixing compass **Aircrete**.

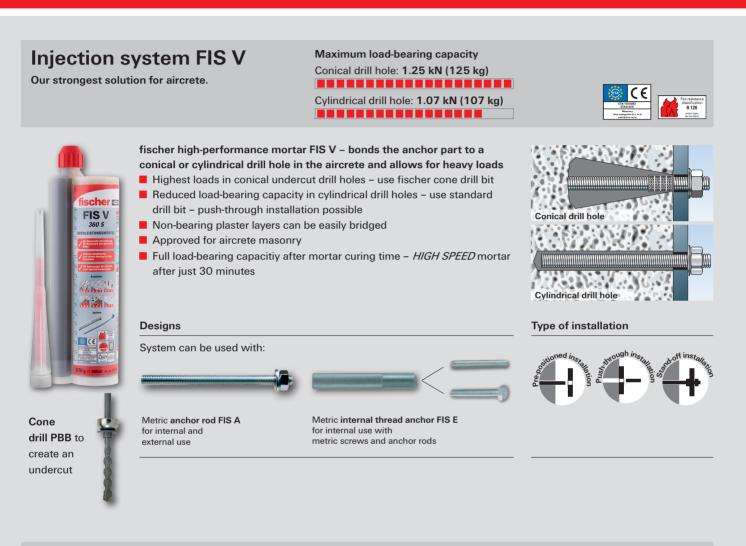


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Our aircrete professionals safely ensure the very best hold.

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Aircrete anchor FPX-I

The instantly and high load-bearing internal thread professional for aircrete.

Туре

Maximum load-bearing capacity: 1.20 kN (120 kg)

Extractor for a constant of a

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Approved for aircrete masonry and aicrete ceiling panels

hold thanks to the self-undercutting technology

Can be loaded immediately after installation

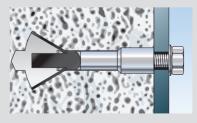
created with a standard drill bit

Aircrete anchor FPX-I with metric internal thread for indoor applications with metric screws and anchor rods

fischer aircrete anchor FPX-I with internal thread - ensures a strong

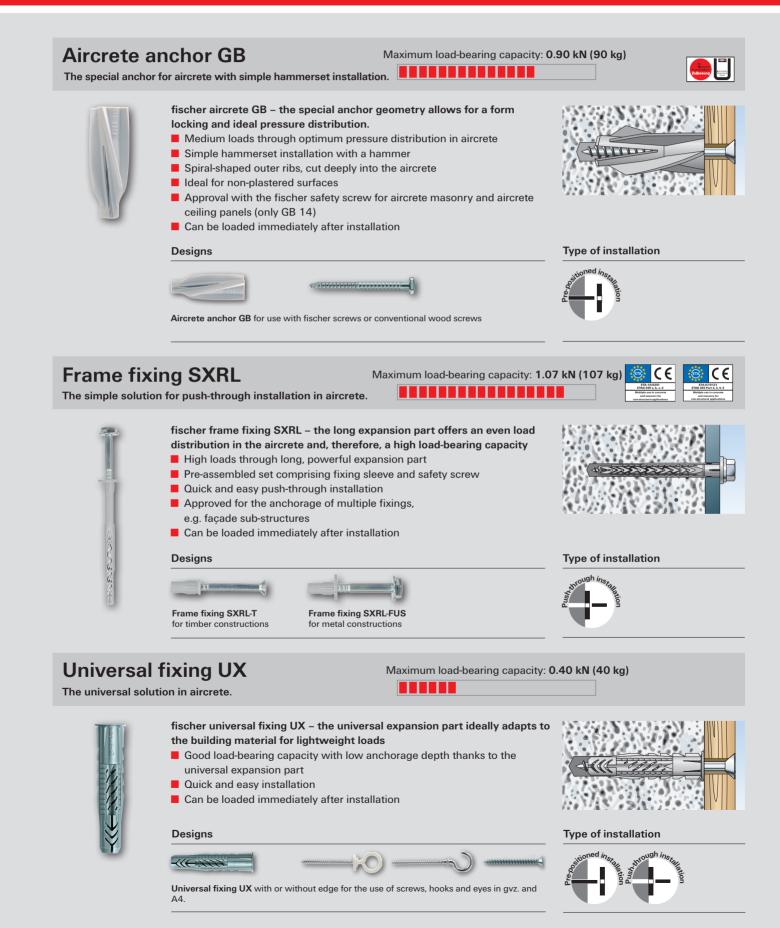
High loads thanks to the self-undercutting technology – the drill hole is

Simple and innovative screw installation with automatic setting control



Type of installation





The right fixing for every application.

Designation		:her /stem FIS V	fischer aircrete anchor FPX-I		cher ing SXRL	fischer aircrete anchor GB	fischer universal fixing UX
	in undercut drill hole	in cylindrical drill hole		14	10		
Illustration					<u> </u>		
Possible max. load	1.25 kN (125 kg)	1.07 kN (107 kg)	1.20 kN (120 kg)	1.07 kN (107 kg)	0.89 kN (89 kg)	0.90 kN (90 kg)	0.40 kN (40 kg)
Approval	Single point fixing	Single point fixing	Single point fixing	Multiple fixing	Multiple fixing	Single point fixing	No approval
Functionality	Undercut (bonded)	Bonded	Undercut	Expansion	Expansion	Interlocking	Expansion
Application Ceiling with approval	No	No	Yes	No	No	Yes, with GB 14 and fischer safety screw	No
Application out- doors	Yes, with anchor rod A4	Yes, with anchor rod A4	No	Yes, with screw A4	Yes, with screw A4	Yes, with screw A4	Yes, with screw A4
Pre-positioned installation	Yes	Yes	Yes	No	No	Yes	Yes
Push-through installation	No	Yes, with annular gap filling	No	Yes	Yes	No	Yes
Offset installation	Yes	Yes	Yes	No	No	No	No
Type of connec- tion	External and internal thread	External and internal thread	internal thread	Safety screw	Safety screw	Safety screw	Chipboard screw
Usage length (conditional)	Anchor rod length	Anchor rod length	Anchor rod length	up to 290 mm	up to 220 mm	up to 100 mm	screw length
Anchorage depth	75 mm and 95 mm	100 mm	70 mm	70 mm and 90 mm	70 mm and 90 mm	Depends on the anchor size	Depends on the anchor size

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Please note

Loading capacity	Note curing time	Note curing time	Instantly load-bearing	Instantly load-bearing	Instantly load-bearing	Instantly load-bearing	Instantly load-bearing
Installation	Sophisticated installation, accessories like cone bolt required	Sophisticated installation, accessories required	Simple installation with setting control	Simple and quick installation.	Simple and quick installation.	Simple hammerset installation	Simple and quick installation
Installation through tiles	Yes	Yes	Yes, if the tiles are drilled out larger	Yes	Yes	No	Yes
Removal	Surface-flush removal with internal thread anchor	Surface-flush removal with internal thread anchor	Surface-flush removal	Surface-flush removal	Surface-flush removal	Surface-flush removal	Surface-flush removal

Application examples

	- Canopies - Awnings - Cable trays on the wall - Cantilever arms	- Suspended ceilings - Pipelines on the ceiling - Hand rails - Wall cabinets	- Aluminium façade sub-structures - Wall cabinets - Fixing of wooden beams	- Pipe fixings - Shelf fixings - Trellis - Screen mountings - Suspended ceilings (GB 14)	- Lighting, lamps - Small shelves - Towel rails - Mirror cabinets
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Loads

Anchor type	Anchorage depth h _{ef [mm]}	Anchorage depth Aircrete blocks h _{ef [nm]}		Non-cracked aircrete panels (wall, ceiling and roof panels)		Cracked aircrete panels (w ceiling and roof panels)	
Minimum compressive strength [N/mm ²]		2	4	3.3	4.4	3.3	4.4
njection system FIS V IS V in conical drill hole (ETA-10/0	0383), with cone drill PB	B, valid for temp	perature ran	ge -40°C to +8	30°C and dry	masonry (d/d)
18, M10 and M12	75	0.71, (0.89) ²⁾	1.07, (1.61) ²⁾	For onchorogo in non	araakad	-	-
I8, M10 and M12	95	0.89, (0.89) ²⁾	1.25, (1.61) ²⁾	 For anchorage in non aircrete panels, the v 			-
S E 11x85 M6, S E 11x85 M8	85	0.71, (0.89) ²⁾	1.07, (1.61) ²⁾	the aircrete blocks column can be used as "recommended loads".		-	-
jection system FIS V S V in cylindrical drill hole (ETA-1)	0/0383) valid for tomp	oraturo rango -/	10 °C to +80)°C and dry m	acopry (d /d)		
	100	0.54, (0.43) ²⁾	0.54, (0.71) ²⁾				_
8	100	0.54, (0.43) ²⁾	0.54, (0.71) ²				_
10	100	0.54, (0.43) ²	1.07, (0.71) ²⁾	For anchorage in non	-cracked	_	-
12	100	0.71, (0.54) ²⁾	$0.89, (0.89)^{2}$	aircrete panels, the v	alues from	_	_
16	100	$(0.71, (0.43)^2)$	0.71, (0.71) ²⁾	 the aircrete blocks co used as "recommend 		-	-
S E 11x85	85	0.54, (0.43) ²⁾	0.71, (0.71) ²⁾			-	-
S E 15x85	85	0.54, (0.43) ²⁾	0.54, (0.71) ²⁾			_	-
ircrete anchor FPX-I (ETA-12/045 /16-M12	6) 70	0.40	0.89	0.80	1.20	0.60	0.80
ircrete anchor FPX-I (ETA-12/045 /16-M12	6) 70	0.40	0.89	0.80	1.20	0.60	0.80
ircrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its	1 6) 70 s entirety, Permissible edge distances and spacing	0.40 g and the minimum member th	0.89	0.80	1.20	0.60	0.80
ircrete anchor FPX-I (ETA-12/045 16-M12 en dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012	1 6) 70 s entirety, Permissible edge distances and spacing	0.40 g and the minimum member th	0.89	0.80 ken from the approval.		0.60	0.80
ircrete anchor FPX-I (ETA-12/045 /16-M12 en dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10	6) 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/0	0.40 g and the minimum member the 297)	0.89 ickness h _{nie} should be ta	0.80 ken from the approval. For anchorage in non aircrete panels, the v	-cracked alues from	0.60 - -	0.80
ircrete anchor FPX-I (ETA-12/045 N6-M12 en dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10	70 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70	0.40 g and the minimum member th 297) 0.27	0.89 ickness h _{me} should be ta 0.71 0.89 0.89	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks co	+cracked alues from olumn can be	0.60 - - - -	0.80
ircrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 14 XRL 14	66) 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.32 0.43	0.89 ickness h _{me} should be ta 0.71 0.89 0.89 1.07	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	rcracked alues from alumn can be ed loads".	0.60 - - - - -	0.80 - - - - - -
ircrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 14 XRL 14	66) 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.32 0.43	0.89 ickness h _{me} should be ta 0.71 0.89 0.89 1.07	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	rcracked alues from alumn can be ed loads".	0.60 - - - -	0.80 - - - -
ircrete anchor FPX-I (ETA-12/045 M6-M12 nen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 XRL 14 nen dimensioning, observe the approval certificates ETA-07/0121 and	 70 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90 1ETA-14/0297 in their entirety. Permissible edge 	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.32 0.43	0.89 ickness h _{me} should be ta 0.71 0.89 0.89 1.07	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	rcracked alues from alumn can be ed loads".	0.60 - - - -	0.80 - - - - -
ircrete anchor FPX-I (ETA-12/045 M6-M12 en dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 XRL 14 en dimensioning, observe the approval certificates ETA-07/0121 and ircrete anchor GB with fischer sat	 70 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90 1ETA-14/0297 in their entirety. Permissible edge 	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.32 0.43	0.89 ickness h _{me} should be ta 0.71 0.89 0.89 1.07	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks co used as "recommend kness h _m should be taken fro	-cracked alues from Jurm can be ed loads". om the approval.	0.60 - - - - -	0.80
ircrete anchor FPX-I (ETA-12/045 M6-M12 en dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 en dimensioning, observe the approval certificates ETA-07/0121 and ircrete anchor GB with fischer saf B 8	70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90 70 90 70 90 70 90 70 90 70 90 fety screw (Z-21.2-123)	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.43 distances and spacing and the	0.89 ickness h _{ate} should be ta 0.71 0.89 0.89 1.07 e minimum member thick	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks co used as "recommend kness h _m , should be taken fro - For anchorage in non aircrete panels, the v	+cracked alues from Jumn can be ed loads". om the approval. +cracked alues from	D.60	0.80
ircrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 hen dimensioning, observe the approval certificates ETA-07/0121 and ircrete anchor GB with fischer saft B 8 B 10	70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90 14 (ETA-14/O 90 50	0.40 g and the minimum member the 297) 0.27 0.32 0.32 0.43 distances and spacing and the 0.20	0.89 ickness h _{ate} should be ta 0.71 0.89 0.89 1.07 e minimum member thick	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend kness h_should be taken from For anchorage in non	-cracked alues from Jurm can be ed loads". om the approval. -cracked alues from Jurm can be	0.60 	0.80
Aircrete anchor FPX-I (ETA-12/045 W6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 XRL 14 hen dimensioning, observe the approval certificates ETA-07/0121 and sircrete anchor GB with fischer saf iB 8 iB 10 iB 14	70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 70 90 70 90 70 90 70 90 50 55 75	0.40 g and the minimum member th 297) 0.27 0.32 0.32 0.43 distances and spacing and the 0.20 0.20 0.25 0.40	0.89 ickness h _{ate} should be ta 0.71 0.89 0.89 1.07 e minimum member thick 0.40 0.60 0.90	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend kness h should be taken from For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	-cracked alues from Jurm can be ed loads". om the approval. -cracked alues from Jurm can be	-	
Aricrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 10 XRL 14 XRL 14 hen dimensioning, observe the approval certificates ETA-07/0121 and hircrete anchor GB with fischer saf B 8 B 10 B 14 hen dimensioning, observe the approval certificate Z21.2-123 in its en Recommended loads ^{3), 4), 5} for a sin	16) 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 170 90 1ETA-14/0297 in their entirety. Permissible edge fety screw (Z-21.2-123) 50 55 75 ntirety. Permissible edge distances and spacing an angle anchor	0.40 g and the minimum member th 297) 0.27 0.32 0.32 0.43 distances and spacing and the 0.20 0.20 0.25 0.40	0.89 ickness h _{ate} should be ta 0.71 0.89 0.89 1.07 e minimum member thick 0.40 0.60 0.90	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend kness h should be taken from For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	-cracked alues from Jurm can be ed loads". om the approval. -cracked alues from Jurm can be	-	
Aircrete anchor FPX-I (ETA-12/045 M6-M12 hen dimensioning, observe the approval certificate ETA-12/0456 in its rame fixing SXRL 10 (ETA-07/012 XRL 10 XRL 10 XRL 14 XRL 14 hen dimensioning, observe the approval certificates ETA-07/0121 and Aircrete anchor GB with fischer saft B 8 B 10 B 14 hen dimensioning, observe the approval certificate Z.21.2-123 in its en Recommended loads ^{31, 4), 5)} for a sim niversal anchor UX (without approv	16) 70 s entirety. Permissible edge distances and spacing 21), SXRL 14 (ETA-14/O 70 90 170 90 1ETA-14/0297 in their entirety. Permissible edge fety screw (Z-21.2-123) 50 55 75 ntirety. Permissible edge distances and spacing an angle anchor	0.40 g and the minimum member th 297) 0.27 0.32 0.32 0.43 distances and spacing and the 0.20 0.20 0.25 0.40	0.89 ickness h _{ate} should be ta 0.71 0.89 0.89 1.07 e minimum member thick 0.40 0.60 0.90	0.80 ken from the approval. For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend kness h should be taken from For anchorage in non aircrete panels, the v the aircrete blocks cc used as "recommend	-cracked alues from Jurm can be ed loads". om the approval. -cracked alues from Jurm can be	-	
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The partial safety factors of the resistances and a partial safety factor of ²¹ Values in brackers apply for the approved shear load, see ETA-10/0383
 ³³ Applies to tension load, shear load and diagonal pull under each angle
 ⁴⁴ Contains safety factor 7
 ⁵⁹ Load values apply when using with wood screws: UX 6 with screw diameter 5 mm UX 8 with screw diameter 6 mm UX 10 with screw diameter 8 mm

What is aircrete?



The building material "aircrete" is commonly known as aerated concrete. Aircrete is a solid building material with porous microstructures; the building material has a lot of pores (air pockets) and a low compressive strength. Aircrete has the disadvantage that it takes on moisture a lot quicker than it releases it; as such, external walls made from aircrete must always be covered with a layer of plaster or a different "skin".

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As a result of the low compressive strength and the porous microstructures, special care should be taken when drilling holes and cleaning drill holes.

Special anchors should be used for the best anchorage in aircrete, e.g. anchors with a long expansion part (SXRL 10 or 14) or anchors with interlocking or adhesive bonds (FPX-I or FIS V injection systems).

Our all-round service for you.

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We are a reliable partner, one that will stand by your side and address your individual requirements with advice and action:

- Our products range from chemical systems and steel anchors to plastic anchors.
- Competence and innovation through own research and development.
- Global presence and active sales service in more than 100 countries.
- Qualified application-specific advice for economic installation solutions that are compliant with directives. If need be we are there for you – even at the construction site.
- Training measures (some with certification) at your premises or at the fischer ACADEMY.
- Construction and design software for challenging fixings.

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