



fischer 

FIS V Plus.

The universal mortar for
all building materials.

The powerful universal mortar for concrete and masonry.



FS V Plus Low Speed 300 S

FS V Plus High Speed 500 S

FS V Plus 300 S

100
Years
Guarantee

Your advantages at a glance:

- The FS V Plus injection mortar fast cures even when applied with air, is resistant and non-corrosive concrete, masonry and for special applications.
- The ETA assessment for a service life of 100 years offers permanent safety in concrete for all applications.
- The approved use in water-filled drill holes in concrete enables a wide range of applications even under harsh environmental conditions.
- FS V Plus High Speed has a significantly shorter curing time than FS V Plus, which ensures swift work progress even at low temperatures.
- The FS V Plus Low Speed has an extended processing time that prevents the premature hardening of the mortar at higher temperatures. It is ideally suited to large drill hole depths.
- The extensive range of accessories is ideally suited to the FS V Plus injection mortar family, ensuring the great flexibility of the system and thus allows for a broad range of applications.

Approvals



ETA-2000973
EAD-030403-04-0001
for cracked concrete



ETA-2000258 EAD
300016-03-0004
Masonry
Ciba Patisserie AG, CH



ETA-2000774 EAD
300017-04-0001
Pre-stressed concrete
connections



Fischer Group
Identification & CO
— Fischer Group Ltd
— Austria



See EEC-25 (evaluation)
report can be
found at
www.ec.europa.eu



Bureau Veritas

System accessories for a secure hold.

Threaded rods

- The Fischer anchor rods FS A and RG M are approved for use in concrete with FS V Plus in sizes M6 – M30 made of galvanized and stainless steel.
- For use in masonry, the Fischer anchor rods FS A and RG M are approved in sizes M6 – M16 made of galvanized and stainless steel. In perforated brick only in combination with the anchor sleeve FS H K in diameters D3-20.
- The variable anchoring depths allow optimum adaptation to the application and load requirement in concrete.



Internal threaded anchors

- The internal threaded anchor RG M I is approved for use in concrete in sizes M6 – M20 made of galvanized and stainless steel. The FSE made of galvanized steel is approved for masonry in sizes M6 – M12.
- In combination with metric screws or threaded rods, the RG M I can be used for the installation of removable fixings.



Anchor sleeves

- The grid structure of the anchor sleeve FS H K ensures economical mortar consumption with optimum form fit.
- The centring wings ideally align the fixing element in the anchor sleeve and allow the use of different anchor rod diameters.



Shear connector

- Due to its geometry and ease of assembly, the shear connector FCC is the best and economical alternative compared to the conventional installation with curved reinforcement bars.
- The building authority approval enables the design of the anchorage and thus offers maximum safety.



Rebar anchors

- The rebar anchor FRA is a rebar with metric connection thread made of stainless steel in sizes M12 – M24.
- With the FRA reinforcement anchor, the load-bearing capacity of the concrete is fully utilized. This allows very high tensile loads to be introduced into the anchorage zone.





Setting and curing times

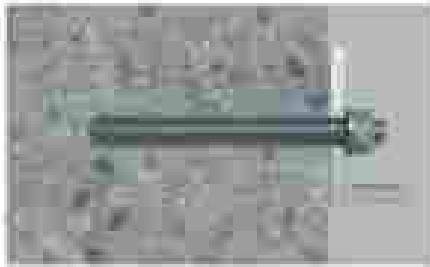
FS 8 Plus		
Temperature of anchoring base	Setting time	Curing time
-5 °C – +2 °C	–	28 hrs.
+3 °C – +5 °C	12 min.	3 hrs.
+5 °C – +10 °C	8 min.	20 min.
+10 °C – +20 °C	5 min.	10 min.
+20 °C – +30 °C	4 min.	45 min.
+30 °C – +45 °C	2 min.	15 min.

FS 8 Plus High Speed		
Temperature of anchoring base	Setting time	Curing time
-5 °C – +5 °C	–	28 hrs.
+5 °C – +10 °C	5 min.	3 hrs.
+10 °C – +15 °C	5 min.	15 min.
+15 °C – +20 °C	3 min.	20 min.
+20 °C – +25 °C	3 min.	30 min.
+25 °C – +30 °C	–	–

FS 8 Plus Low Speed		
Temperature of anchoring base	Setting time	Curing time
+3 °C – +5 °C	–	100%
+5 °C – +10 °C	20 min.	100%
+10 °C – +20 °C	10 min.	100%
+20 °C – +30 °C	8 min.	60 min.
+30 °C – +45 °C	4 min.	30 min.

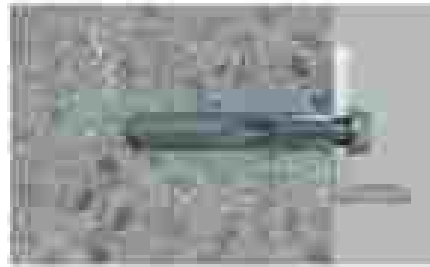
Further information see page 19

Application in non-cracked and cracked concrete.



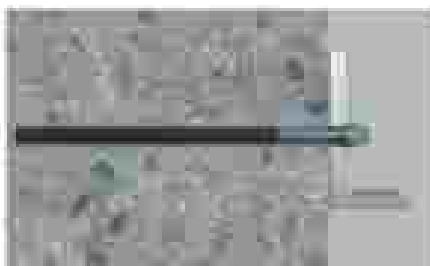
fischer anchor rod FIS A or BGM

- Diameter M6 - M30 for non-cracked concrete; diameter M8 - M30 for cracked concrete
- Made of galvanized steel in steel grades S11, 8.8 and stainless steel R
- Anchorage depth 50 - 600 mm
- Load range for cracked concrete C20/25 for 3.9 - 612 kN



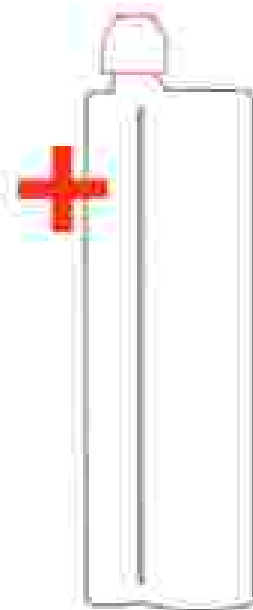
fischer internal threaded rod RIG M I

- Diameter M8 - M20 in non-cracked concrete
- Available in galvanized steel and stainless steel R
- Anchorage depth 75 - 200 mm
- Load range for non-cracked concrete: C20/25 for 9.0 - 657 kN

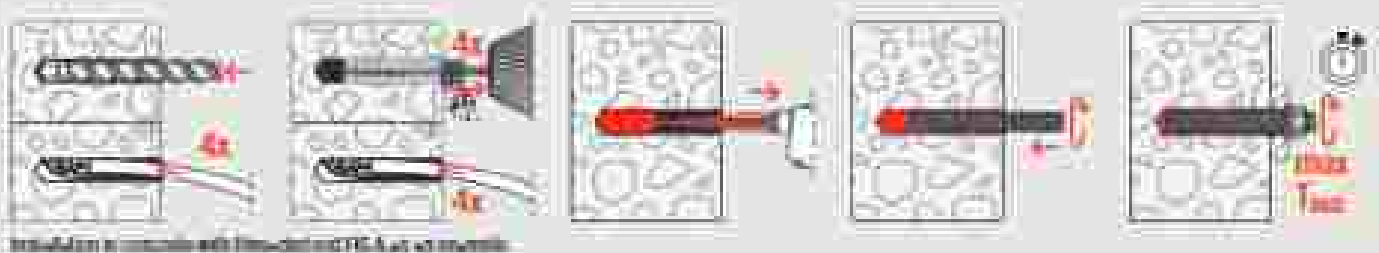


fischer rebar anchors FRA

- Reinforcing steel with stainless steel connection thread for cracked concrete
- Connection thread M12 - M20
- Anchorage depth up to 300 mm

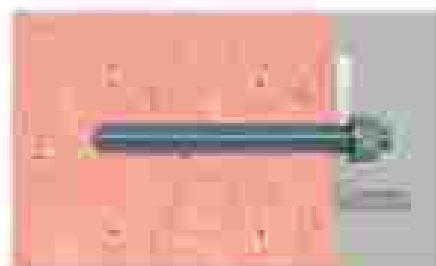


fischer rebar FIS V Plus.
Further information see page 10.



Installation in concrete with Fischer rod FIS A as an example.

Application in solid masonry and aerated concrete.



Fischer anchor rod FIS A or RGM

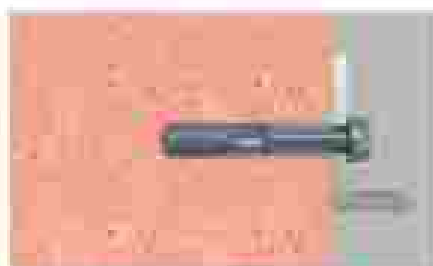
Available as galvanized steel in steel grades S10, S10 and as stainless steel R.

Solid masonry:

- Diameter M8 - M12
- Anchorage depth 90 - 100 mm

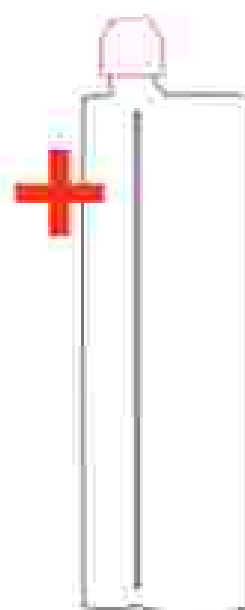
Aerated concrete (cylindrical drill hole):

- Diameter M8 - M12
- Anchorage depth 100 mm

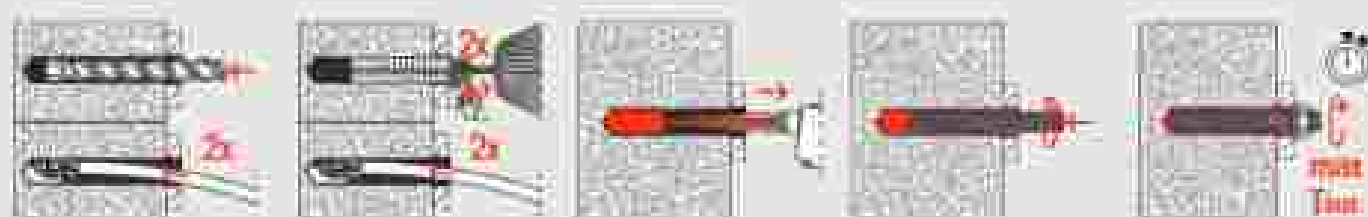
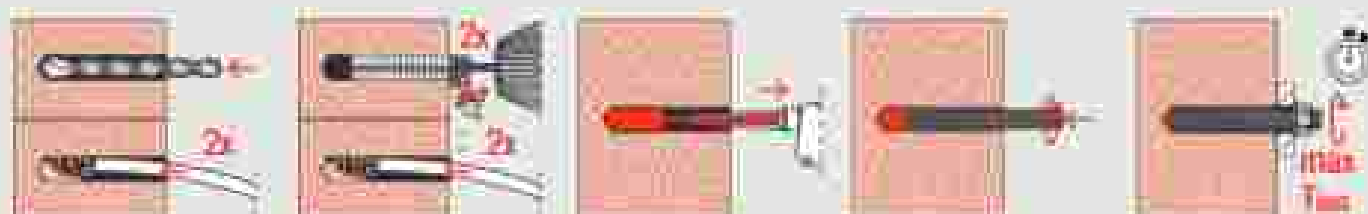


Fischer internal threaded anchor FIS E

- Diameter M8 - M12
- Available as galvanized steel
- Anchorage depth 90 mm

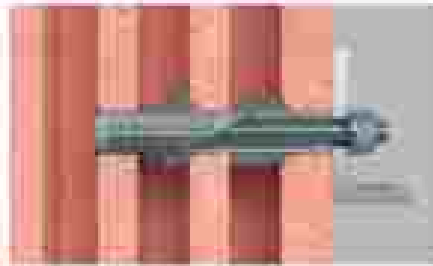


Injection mortar FIS V Plus -
Further information on page 30.



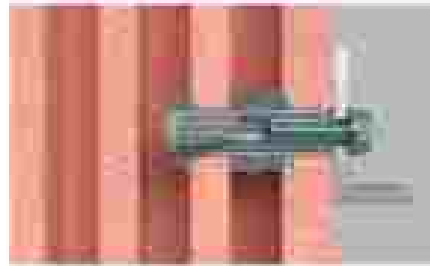
Universally applicable in perforated brick masonry.

In various perforated bricks, such as vertically perforated bricks, sand-lime bricks, hollow bricks and many more.



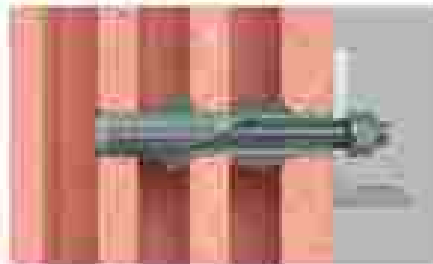
Fischer anchor rod FIS A or H2M

- Diameter M6 / M8
- As galvanized steel in steel grades S10, S10 and stainless steel if available
- Anchorage depth 50, 65, 100 and 200 mm



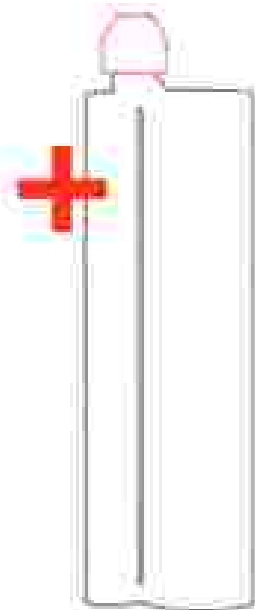
Fischer internal threaded anchor FIS E

- Diameter M6 - M12
- Available as galvanized steel
- Anchorage depth 65 mm

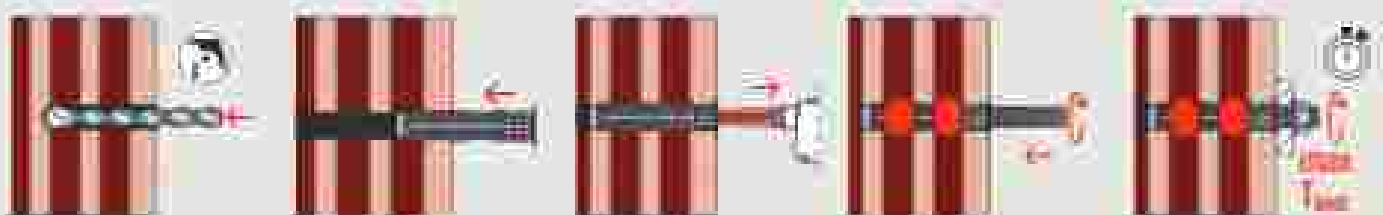


Fischer anchor sleeve FIS HK

- Anchor sleeves Ø 12, 16 and 20 for anchor rods M6 - M12 or internal threaded anchors M6 - M12
- Anchorage depth 50, 65, 100 and 200 mm
- The grid structure ensures economical mortar consumption and an optimal form fit in the perforated brick
- The lateral centering wings align the anchor rod centrally and allow the use of different anchor rod diameters



Fischer master FIS V Plus
Further information see page 10



Special applications are our strength.

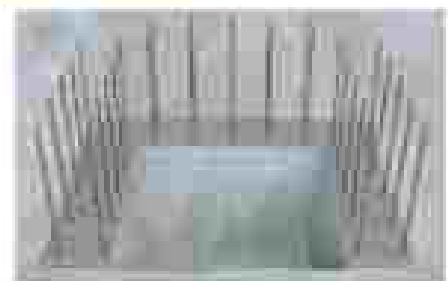


Post-installed rebar connections

This way, post-installed reinforcement connections are carried out professionally.

Approved system for post-installed reinforcement connections

- The injection mortar FIS V Plus can be used for post-installed rebar connections with a diameter of 8-28 mm. Furthermore, an embedment depth of up to 2.000 mm can be carried out with the FIS V Plus injection mortar.
- The reinforcement anchor FRA with stainless steel connection thread fully utilizes the load-bearing capacity of the concrete. This allows very high tensile loads to be introduced into the anchoring base.
- Site-compatible accessories such as injection aids and extension hoses ensure rapid work programs. The FIS-reinforcement case contains all the necessary individual components and thus ensures convenient installation.



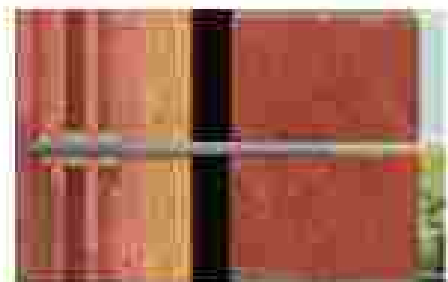
ETA-12001/01, EAD 000101-01 0001
Post-installed rebar connection

Remedial wall tie VBS 8

How to refurbish professionally.

The professional and safe renovation of facing masonry

- Approved for the subsequent rendering of double-shell masonry.
- The combination of FIS V Plus injection mortar, anchor sleeve and non-rusting wire anchor results in a very high load-bearing capacity even in problematic building materials.
- The drill diameter of only 8 mm guarantees low mortar consumption and high economic efficiency.
- No negative impact on the visual appearance due to the almost invisible fixing in the joint.



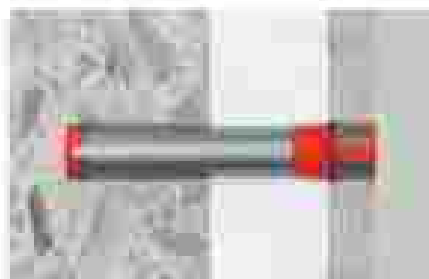
With green building with only
ecological

Weather facing reconstruction system FWS II

This is how weather shells are economically secured.

Approved for the subsequent securing of three-layer exterior wall panels

- The FWS II weather facing reconstruction anchor is injected with the FIS V Plus injection mortar into the base course and the weather shell.
- The large cross-section of the bolt ensures a high transverse load-bearing capacity i.e. cost saving due to fewer anchors per plate.
- The integrated visual inspection indicates the correct anchoring of the FWS II and thus ensures a high level of installation safety.



With positive building authority approval

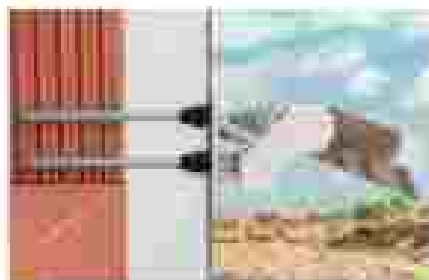


Stand-off installation system TherMax 12/16

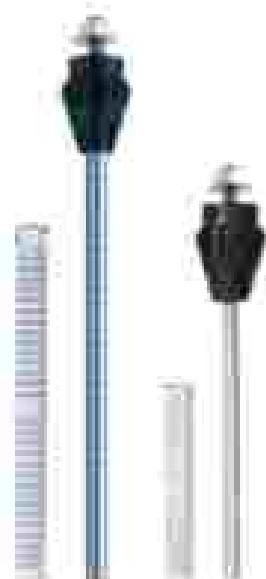
The approved stand-off installation with thermal separation in external thermal insulation composite systems.

Secure hold on insulated walls by our fixing specialists

- The stand-off installation system is suitable in combination with the FIS V Plus injection mortar for high loads in a variety of building materials. This enables secure fastening.
- The plastic cone interrupts the thermal bridge between the add-on part and the internal fastening and offers an energetically optimised fastening.
- The glass fibre-reinforced plastic cone melts into the external thermal insulation composite system and thus enables simple, fast and adjustable installation without special tools.



With positive building authority approval



The battery dispenser for professionals.



The advantages at a glance

- The driving function enables the efficient adjustment of the rotation speed to match the drill hole.
- The dispensing speed can be adjusted to the application via a controller.
- The detachable handle and best tool were particularly ergonomic ones.
- The sturdy design of the device guarantees reliable and long-lasting processing under demanding drilling conditions.
- The SW technology provides for the necessary dispensing power. Furthermore, the tool is compatible with all CasFlow / Minion System (CAS) power tools and charges work tools.

More information:

www.fischer-international.com/depsmool

Product range.

FIS V Plus 200



FIS V Plus 200 T

Item	Item No.	Approved			Languages on the cartridge	Contents	Scales with
		ISO	EN	US			
FIS V Plus 200 T (DE)	582201	•	•	•	DE	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (EN,EN,DE)	582202	•	•	•	EN,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (EN,US,PT)	582203	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (DE,DE,DE,IT)	582204	•	•	•	DE,DE,DE,IT	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (EN,EN,EN)	582205	•	•	•	EN,EN,EN	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (DE,EN,DE)	582206	•	•	•	DE,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (US,US)	582207	•	•	•	US,US	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (EN,US,PT)	582208	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (EN,US,PT)	582209	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (PT,EN,US,DE)	582210	•	•	•	PT,EN,US,DE	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (DE)	582220	•	•	•	DE	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (DE,DE,DE,IT)	582221	•	•	•	DE,DE,DE,IT	1 cartridge 200 cc, 2 x 100 MB Plus with management Chip	20
FIS V Plus 200 T (PT,EN,US,DE)	582222	•	•	•	PT,EN,US,DE	1 cartridge 200 cc, 2 x 100 MB Plus	12
FIS V Plus 200 T (DE,EN,PT,EN)	582223	•	•	•	DE,EN,PT,EN	1 cartridge 200 cc, 2 x 100 MB Plus	12

FIS V Plus 200 S



FIS V Plus 200 S

Item	Item No.	Approved			Languages on the cartridge	Contents	Scales with
		ISO	EN	US			
FIS V Plus 200 S (DE)	582244	•	•	•	DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (DE)	582245	•	•	•	DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,US,PT)	582246	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (DE,EN,DE)	582247	•	•	•	DE,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (DE,EN,DE)	582248	•	•	•	DE,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (PT,US,DE)	582249	•	•	•	PT,US,DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,EN,EN)	582250	•	•	•	EN,EN,EN	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,EN,EN,PT)	582251	•	•	•	EN,EN,EN,PT	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,US,PT)	582252	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,EN,DE)	582253	•	•	•	EN,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus 200 S (EN,EN,DE)	582254	•	•	•	EN,EN,DE	1 cartridge 200 cc, 2 x 100 MB Plus	6

FIS V Plus Low Speed 200 S



FIS V Plus Low Speed 200 S

Item	Item No.	Approved			Languages on the cartridge	Contents	Scales with
		ISO	EN	US			
FIS V Plus Low Speed 200 S (EN,EN,EN)	582255	•	•	•	EN,EN,EN	1 cartridge 200 cc, 2 x 100 MB Plus	6
FIS V Plus Low Speed 200 S (EN,US,PT)	582256	•	•	•	EN,US,PT	1 cartridge 200 cc, 2 x 100 MB Plus	6

Product range.

FIS V Plus High Speed 300 S



FIS V Plus High Speed 300 S

Item	Item No.	Approved			Languages on the cartridge	Contents	Sales unit (pack)
		000	07A	022			
FIS V Plus High Speed 300 S (00)	550700	•	•	•	00	1 cartridge 300 ml, 2 x FIS 600 Plus	6
FIS V Plus High Speed 300 S (0A,020)	550704	•	•	•	0A, 020	1 cartridge 300 ml, 2 x FIS 600 Plus	6
FIS V Plus High Speed 300 S (0A,0A,00)	550705	•	•	•	0A, 0A, 00	1 cartridge 300 ml, 2 x FIS 600 Plus	6
FIS V Plus High Speed 300 S (0A,0A,00)	550707	•	•	•	0A, 0A, 00	1 cartridge 300 ml, 2 x FIS 600 Plus	6
FIS V Plus High Speed 300 S (0A,0A,00)	550708	•	•	•	0A, 0A, 00	1 cartridge 300 ml, 2 x FIS 600 Plus	6
FIS V Plus High Speed 300 S (0A,0A,00)	550712	•	•	•	0A, 0A, 0A, 00	1 cartridge 300 ml, 2 x FIS 600 Plus	6

FIS V Plus 300 S (00) S



FIS V Plus 300 S (00) S

Item	Item No.	Approved			Languages on the cartridge	Contents	Sales unit (pack)
		000	07A	022			
FIS V Plus 300 S (0A,0A,0A) (00) S	550700	•	•	•	0A,0A,0A	40 cartridges 300 ml, 20 units cover FIS 600 Plus	1
FIS V Plus 300 S (00) (00) S	550705	•	•	•	00	40 cartridges 300 ml, 20 units cover FIS 600 Plus	1
FIS V Plus 300 S (0A,0A,0A) (00) S	550711	•	•	•	0A, 0A, 00	40 cartridges 300 ml, 20 units cover FIS 600 Plus	1
FIS V Plus 300 S (0A,0A,0A) (00) S	550708	•	•	•	0A, 0A, 00	40 cartridges 300 ml, 20 units cover FIS 600 Plus	1

FIS V Plus 300 S (00) S



FIS V Plus 300 S (00) S

Item	Item No.	Approved			Languages on the cartridge	Contents	Sales unit (pack)
		000	07A	022			
FIS V Plus 300 S (0A,0A,0A) (00) S	550704	•	•	•	0A,0A,0A	20 cartridges 300 ml, 40 units cover FIS 600 Plus	1
FIS V Plus 300 S (00) (00) S	550705	•	•	•	00	20 cartridges 300 ml, 40 units cover FIS 600 Plus	1
FIS V Plus 300 S (0A,0A,0A) (00) S	550708	•	•	•	0A, 0A, 00	20 cartridges 300 ml, 40 units cover FIS 600 Plus	1
FIS V Plus 300 S (0A,0A,0A) (00) S	550707	•	•	•	0A, 0A, 00	20 cartridges 300 ml, 40 units cover FIS 600 Plus	1

FIS V Plus High Speed 300 S (00) S



FIS V Plus High Speed 300 S (00) S

Item	Item No.	Approved			Languages on the cartridge	Contents	Sales unit (pack)
		000	07A	022			
FIS V Plus High Speed 300 S (00) S	550708	•	•	•	00	20 cartridges 300 ml, 40 units cover FIS 600 Plus	1

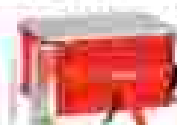
FIS V Plus 300 S 01



FIS V Plus 300 S 01

Name	Stock No.	Approved			Languages on the cartridge	Contents	Sales unit (pcs)
		ENR	FIN	ICC			
FIS V Plus 300 T AISI (TA, FN, MB, BT)	541200	•	•	•	TA, FN, MB	20 cartridges 300 ml, 40 x FIS MB Plus	1
FIS V Plus 300 T (FN, MB, BT)	541200	•	•	•	FN, MB, BT	20 cartridges 300 ml, 40 x FIS MB Plus	1
FIS V Plus 300 S 01 (TA, MB, BT)	540701	•	•	•	TA, FN, MB	20 cartridges 300 ml, 20 coats cover FIS MB Plus	1
FIS V Plus 300 S 01 BT	540701	•	•	•	BT	20 cartridges 300 ml, 40 coats cover FIS MB Plus	1
FIS V Plus 300 S 01 (TA, FN, BT)	455201	•	•	•	AT, FN, FN	20 cartridges 300 ml, 20 coats cover FIS MB Plus	1
FIS V Plus 300 S 01 (TA, FN, BT)	540701	•	•	•	AT, FN, BT	20 cartridges 300 ml, 40 coats cover FIS MB Plus	1

FIS V Plus 300 S 01 (ENR, S) + FIS 010 S



FIS V Plus 300 S 01 (ENR, S) + FIS 010 S

Name	Stock No.	Approved			Languages on the cartridge	Contents	Sales unit (pcs)
		ENR	FIN	ICC			
FIS V Plus 300 S 01 (ENR, S) + FIS 010 S	540701	•	•	•	EN, MB, BT, FI	10 cartridges 300 ml, 24 x FIS MB Plus, 1 x dispenser FIS 010 S Plus	1
FIS V Plus 300 S 01 (FN, MB) + FIS 010 S	540801	•	•	•	DE, FN, MB	10 cartridges 300 ml, 24 x FIS MB Plus, 1 x dispenser FIS 010 S Plus	1
FIS V Plus 300 S 01 (FI, FN, MB) + FIS 010 S	550101	•	•	•	FI, FN, MB	10 cartridges 300 ml, 24 x FIS MB Plus, 1 x dispenser FIS 010 S Plus	1
FIS V Plus 300 S 01 (ENR, S) + FIS 010 S	540801	•	•	•	DE, FN, MB	10 cartridges 300 ml, 24 x FIS MB Plus, 1 x dispenser FIS 010 S Plus	1

FIS V Plus 400 C



FIS V Plus 400 C

Name	Stock No.	Approved			Languages on the cartridge	Contents	Sales unit (pcs)
		ENR	FIN	ICC			
FIS V Plus 400 C (EN, FI, FI)	540104	•	•	•	EN, FI, FI	1 cartridge 400 ml, 2 x FIS MB Plus	10
FIS V Plus 400 C (FI, EN, FI)	540104	•	•	•	FI, DE, EN	1 cartridge 400 ml, 2 x FIS MB Plus	10
FIS V Plus 400 C (DE, FI, FI)	540104	•	•	•	FI, FI, FI	1 cartridge 400 ml, 2 x FIS MB Plus	10
FIS V Plus 400 C High Speed 200 C (FI, EN, EN)	550104	•	•	•	FI, EN, EN	1 cartridge 200 ml, 2 x FIS MB Plus	10
FIS V Plus 400 C (FI, EN, EN) + FIS 010 S	540104	•	•	•	FI, EN, EN	4 cartridges 400 ml, 12 x FIS MB Plus	1
FIS V Plus 400 C (EN, EN, FI) BT	550104	•	•	•	EN, FI, BT	10 cartridges 400 ml, 20 x FIS MB Plus	1
FIS V Plus 400 C (FI, EN, EN) BT	550104	•	•	•	FI, EN, EN	10 cartridges 400 ml, 20 x FIS MB Plus	1

FIS V Plus 600 S



FIS V Plus 600 S

Name	Stock No.	Approved			Languages on the cartridge	Contents	Sales unit (pcs)
		ENR	FIN	ICC			
FIS V Plus 600 S (DE, FN, FN, MB)	540501	•	•	•	DE, FN, FN, MB	1 cartridge 600 ml, 2 x FIS 010	6
FIS V Plus 600 S (DE, FN, FN, MB)	540501	•	•	•	DE, FN, FN, MB	1 cartridge 600 ml, 2 x FIS 010	6
FIS V Plus 600 S (DE, FN, MB, BT)	540501	•	•	•	DE, FN, MB, BT	1 cartridge 600 ml, 2 x FIS 010	6

Accessories.

Abstract

1111

Item	Item No.	Comments	Category
THANK YOU	640002	THANK YOU	TH
THANK YOU	640003	THANK YOU	TH

100



Abstract



WWW.WILEY-SON



POLYMER LETTERS



Abstract



1000

[illegible]

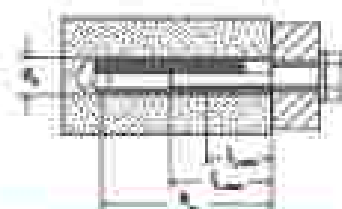


Anchor and FISH Y Application in solid masonry, perforated brick masonry and cracked concrete

FISH Y

Anchor	Dim. platt. mm graph 2.8	Standard steel B	Appen- dix	Application in solid masonry				Application in perforated brick masonry	Application in cracked concrete			Safety factor
				Min. embed- ment depth mm	Min. embed- ment depth mm	Min. embed- ment depth mm	Min. embed- ment depth mm	Appropriate section diameter	Min. embed- ment depth mm	Min. embed- ment depth mm	Min. embed- ment depth mm	
Anchor	Anchor mm	Anchor mm	ISO	mm	mm	mm	mm		mm	mm	mm	mm
FISH M 6 x 70	040208	040208	•	8	30	11	2	FISH 12 x 50 R	11	11	11	10
FISH M 6 x 75	040243	040437	•	8	34	12	2	FISH 12 x 50 R	11	11	11	10
FISH M 6 x 80	040272	040436	•	8	38	13	2	FISH 12 x 50 R	11	11	11	10
FISH M 6 x 100	040313	040438	•	8	39	14	2	FISH 12 x 50 R, FISH 12 x 55 R	11	11	11	10
FISH M 6 x 120	040398	040296	•	11	50	15	2	FISH 12 x 50 R	11	11	11	10
FISH M 6 x 130	040374	040440	•	10	50	16	2	FISH 12 x 50 R	10	100	11	10
FISH M 6 x 140	040325	040441	•	11	50	16	2	FISH 12 x 50 R, FISH 12 x 55 R, FISH 16 x 80 R	11	100	11	10
FISH M 6 x 150	040376	040442	•	11	54	16	2	FISH 12 x 50 R, FISH 12 x 55 R, FISH 16 x 80 R	11	100	11	10
FISH M 6 x 170	040377	040443	•	11	59	16	2	FISH 12 x 50 R, FISH 12 x 55 R, FISH 16 x 80 R, FISH 16 x 100 R	11	100	11	10
FISH M 8 x 70	040219	040444	•	11	50	17	2	FISH 16 x 80 R	10	100	11	10
FISH M 8 x 110	040219	040447	•	11	50	19	2	FISH 16 x 80 R	10	100	11	10
FISH M 8 x 130	040220	040448	•	11	54	19	2	FISH 16 x 80 R, FISH 16 x 100 R	10	100	11	10
FISH M 8 x 150	044009	044021	•	12	58	19	2	FISH 16 x 80 R, FISH 16 x 100 R	12	100	11	10
FISH M 8 x 160	040222	040449	•	12	58	19	2	FISH 16 x 80 R, FISH 16 x 100 R	12	100	11	10
FISH M 10 x 120	044011	044034	•	14	59	20	4	FISH 20 x 100 R	14	100	11	10
FISH M 10 x 140	040223	040450	•	14	54	20	4	FISH 20 x 100 R	14	100	11	10
FISH M 10 x 160	040224	040451	•	14	58	20	4	FISH 20 x 100 R, FISH 20 x 120 R	14	100	11	10
FISH M 10 x 180	040225	040452	•	14	59	20	4	FISH 20 x 100 R, FISH 20 x 120 R	14	100	11	10
FISH M 10 x 200	040226	040453	•	14	59	20	4	FISH 20 x 100 R, FISH 20 x 120 R	14	100	11	10
FISH M 10 x 240	040227	040454	•	14	59	20	4	FISH 20 x 100 R, FISH 20 x 120 R, FISH 20 x 250 R	14	100	11	10
FISH M 12 x 130	044023	044025	•	16	54	23	6	FISH 20 x 100 R	16	100	11	10
FISH M 12 x 170	040228	040455	•	16	54	25	6	FISH 20 x 100 R, FISH 20 x 120 R	16	100	11	10
FISH M 12 x 200	040229	040456	•	16	58	24	6	FISH 20 x 100 R, FISH 20 x 120 R	16	100	11	10
FISH M 12 x 250	040230	040457	•	16	59	24	6	FISH 20 x 100 R, FISH 20 x 120 R, FISH 20 x 250 R	16	100	11	10
FISH M 16 x 160	040231	040458	•	18	59	26	6	FISH 20 x 100 R, FISH 20 x 120 R, FISH 20 x 250 R	18	100	11	10

Accessories.



Technical data for FIS V Plus. Application is valid assuming precasted hole accuracy and material conformity.

Table 1

Size	Designated steel	Technical data				Application in solid masonry		Application in precasted hole masonry		Application in cracked concrete			Tensile strength
		Approved	Min. hole diameter	Min. hole depth	Min. hole width	Min. hole diameter	Min. hole depth	Min. hole diameter	Min. hole depth	Min. hole diameter	Min. hole depth	Min. hole width	
Size	AC, A5, galv.	CTA	d_{min} (mm)	h_{min} (mm)	b_{min} (mm)	d_{min} (mm)	h_{min} (mm)	d_{min} (mm)	h_{min} (mm)	d_{min} (mm)	h_{min} (mm)	b_{min} (mm)	MPa
FIS V 10 x 80 mm	043001	•	10	80	10	10	80	10	80	10	80	10	10
FIS V 10 x 60 mm	043002	•	10	60	10	10	60	10	60	10	60	10	10
FIS V 10 x 50 mm	043003	•	10	50	10	10	50	10	50	10	50	10	10
FIS V 10 x 30 mm	043004	•	10	30	10	10	30	10	30	10	30	10	10

Technical data for FIS V Plus. Application is valid assuming precasted hole accuracy.

Technical data for FIS V Plus. Application is valid assuming precasted hole accuracy.

FIS 10 K		FIS 10 K x FACTOR METHOD							
		Approved	2-1/2" hole diameter	Min. 2-1/2" hole depth	Min. anchorage depth	Min. embedment depth	Installation	Minimum resistance	Factor
Size	AC, A5, galv.	CTA	d_{min} (mm)	h_{min} (mm)	l_{min} (mm)	l_{min} (mm)		F_u (kN)	ϕ
FIS 10 K x 50 K	043001	•	12	50	50	-	FIS 10 K - 50	5	50
FIS 10 K x 60 K	043001	•	12	60	60	-	FIS 10 K - 60	6	60
FIS 10 K x 80 K	043002	•	12	80	80	-	FIS 10 K - 80, FIS 10 K - 80	8	80
FIS 10 K x 100 K	043003	•	12	100	100	-	FIS 10 K - 100	10	100
FIS 10 K x 120 K	043004	•	12	120	120	-	FIS 10 K - 120, FIS 10 K - 120	12	120
FIS 10 K x 150 K	043005	•	12	150	150	-	FIS 10 K - 150	15	150
FIS 10 K x 200 K	043006	•	12	200	200	-	FIS 10 K - 200	20	200
FIS 10 K x 250 K	043007	•	12	250	250	-	FIS 10 K - 250	25	250
FIS 10 K x 300 K	043008	•	12	300	300	-	FIS 10 K - 300	30	300
FIS 10 K x 350 K	043009	•	12	350	350	200	MIN - 350	35	350
FIS 10 K x 400 K	043010	•	12	400	400	200	MIN - 400	40	400
FIS 10 K x 500 K	043011	•	12	500	500	200	MIN - 500	50	500
FIS 10 K x 600 K	043012	•	12	600	600	200	MIN - 600	60	600
FIS 10 K x 700 K	043013	•	12	700	700	200	MIN - 700	70	700
FIS 10 K x 800 K	043014	•	12	800	800	200	MIN - 800	80	800
FIS 10 K x 900 K	043015	•	12	900	900	200	MIN - 900	90	900
FIS 10 K x 1000 K	043016	•	12	1000	1000	200	MIN - 1000	100	1000
FIS 10 K x 1200 K	043017	•	12	1200	1200	200	MIN - 1200	120	1200
FIS 10 K x 1500 K	043018	•	12	1500	1500	200	MIN - 1500	150	1500
FIS 10 K x 2000 K	043019	•	12	2000	2000	200	MIN - 2000	200	2000
FIS 10 K x 2500 K	043020	•	12	2500	2500	200	MIN - 2500	250	2500
FIS 10 K x 3000 K	043021	•	12	3000	3000	200	MIN - 3000	300	3000
FIS 10 K x 3500 K	043022	•	12	3500	3500	200	MIN - 3500	350	3500
FIS 10 K x 4000 K	043023	•	12	4000	4000	200	MIN - 4000	400	4000
FIS 10 K x 4500 K	043024	•	12	4500	4500	200	MIN - 4500	450	4500
FIS 10 K x 5000 K	043025	•	12	5000	5000	200	MIN - 5000	500	5000
FIS 10 K x 6000 K	043026	•	12	6000	6000	200	MIN - 6000	600	6000
FIS 10 K x 7000 K	043027	•	12	7000	7000	200	MIN - 7000	700	7000
FIS 10 K x 8000 K	043028	•	12	8000	8000	200	MIN - 8000	800	8000
FIS 10 K x 9000 K	043029	•	12	9000	9000	200	MIN - 9000	900	9000
FIS 10 K x 10000 K	043030	•	12	10000	10000	200	MIN - 10000	1000	10000
FIS 10 K x 12000 K	043031	•	12	12000	12000	200	MIN - 12000	1200	12000
FIS 10 K x 15000 K	043032	•	12	15000	15000	200	MIN - 15000	1500	15000
FIS 10 K x 20000 K	043033	•	12	20000	20000	200	MIN - 20000	2000	20000
FIS 10 K x 25000 K	043034	•	12	25000	25000	200	MIN - 25000	2500	25000
FIS 10 K x 30000 K	043035	•	12	30000	30000	200	MIN - 30000	3000	30000
FIS 10 K x 35000 K	043036	•	12	35000	35000	200	MIN - 35000	3500	35000
FIS 10 K x 40000 K	043037	•	12	40000	40000	200	MIN - 40000	4000	40000
FIS 10 K x 45000 K	043038	•	12	45000	45000	200	MIN - 45000	4500	45000
FIS 10 K x 50000 K	043039	•	12	50000	50000	200	MIN - 50000	5000	50000
FIS 10 K x 60000 K	043040	•	12	60000	60000	200	MIN - 60000	6000	60000
FIS 10 K x 70000 K	043041	•	12	70000	70000	200	MIN - 70000	7000	70000
FIS 10 K x 80000 K	043042	•	12	80000	80000	200	MIN - 80000	8000	80000
FIS 10 K x 90000 K	043043	•	12	90000	90000	200	MIN - 90000	9000	90000
FIS 10 K x 100000 K	043044	•	12	100000	100000	200	MIN - 100000	10000	100000
FIS 10 K x 120000 K	043045	•	12	120000	120000	200	MIN - 120000	12000	120000
FIS 10 K x 150000 K	043046	•	12	150000	150000	200	MIN - 150000	15000	150000
FIS 10 K x 200000 K	043047	•	12	200000	200000	200	MIN - 200000	20000	200000
FIS 10 K x 250000 K	043048	•	12	250000	250000	200	MIN - 250000	25000	250000
FIS 10 K x 300000 K	043049	•	12	300000	300000	200	MIN - 300000	30000	300000
FIS 10 K x 350000 K	043050	•	12	350000	350000	200	MIN - 350000	35000	350000
FIS 10 K x 400000 K	043051	•	12	400000	400000	200	MIN - 400000	40000	400000
FIS 10 K x 450000 K	043052	•	12	450000	450000	200	MIN - 450000	45000	450000
FIS 10 K x 500000 K	043053	•	12	500000	500000	200	MIN - 500000	50000	500000
FIS 10 K x 600000 K	043054	•	12	600000	600000	200	MIN - 600000	60000	600000
FIS 10 K x 700000 K	043055	•	12	700000	700000	200	MIN - 700000	70000	700000
FIS 10 K x 800000 K	043056	•	12	800000	800000	200	MIN - 800000	80000	800000
FIS 10 K x 900000 K	043057	•	12	900000	900000	200	MIN - 900000	90000	900000
FIS 10 K x 1000000 K	043058	•	12	1000000	1000000	200	MIN - 1000000	100000	1000000
FIS 10 K x 1200000 K	043059	•	12	1200000	1200000	200	MIN - 1200000	120000	1200000
FIS 10 K x 1500000 K	043060	•	12	1500000	1500000	200	MIN - 1500000	150000	1500000
FIS 10 K x 2000000 K	043061	•	12	2000000	2000000	200	MIN - 2000000	200000	2000000
FIS 10 K x 2500000 K	043062	•	12	2500000	2500000	200	MIN - 2500000	250000	2500000
FIS 10 K x 3000000 K	043063	•	12	3000000	3000000	200	MIN - 3000000	300000	3000000
FIS 10 K x 3500000 K	043064	•	12	3500000	3500000	200	MIN - 3500000	350000	3500000
FIS 10 K x 4000000 K	043065	•	12	4000000	4000000	200	MIN - 4000000	400000	4000000
FIS 10 K x 4500000 K	043066	•	12	4500000	4500000	200	MIN - 4500000	450000	4500000
FIS 10 K x 5000000 K	043067	•	12	5000000	5000000	200	MIN - 5000000	500000	5000000
FIS 10 K x 6000000 K	043068	•	12	6000000	6000000	200	MIN - 6000000	600000	6000000
FIS 10 K x 7000000 K	043069	•	12	7000000	7000000	200	MIN - 7000000	700000	7000000
FIS 10 K x 8000000 K	043070	•	12	8000000	8000000	200	MIN - 8000000	800000	8000000
FIS 10 K x 9000000 K	043071	•	12	9000000	9000000	200	MIN - 9000000	900000	9000000
FIS 10 K x 10000000 K	043072	•	12	10000000	10000000	200	MIN - 10000000	1000000	10000000
FIS 10 K x 12000000 K	043073	•	12	12000000	12000000	200	MIN - 12000000	1200000	12000000
FIS 10 K x 15000000 K	043074	•	12	15000000	15000000	200	MIN - 15000000	1500000	15000000
FIS 10 K x 20000000 K	043075	•	12	20000000	20000000	200	MIN - 20000000	2000000	20000000
FIS 10 K x 25000000 K	043076	•	12	25000000	25000000	200	MIN - 25000000	2500000	25000000
FIS 10 K x 30000000 K	043077	•	12	30000000	30000000	200	MIN - 30000000	3000000	30000000
FIS 10 K x 35000000 K	043078	•	12	35000000	35000000	200	MIN - 35000000	3500000	35000000
FIS 10 K x 40000000 K	043079	•	12	40000000	40000000	200	MIN - 40000000	4000000	40000000
FIS 10 K x 45000000 K	043080	•	12	45000000	45000000	200	MIN - 45000000	4500000	45000000
FIS 10 K x 50000000 K	043081	•	12	50000000	50000000	200	MIN - 50000000	5000000	50000000
FIS 10 K x 60000000 K	043082	•	12	60000000	60000000	200	MIN - 60000000	6000000	60000000
FIS 10 K x 70000000 K	043083	•	12	70000000	70000000	200	MIN - 70000000	7000000	70000000
FIS 10 K x 80000000 K	043084	•	12	80000000	80000000	200	MIN - 80000000	8000000	80000000
FIS 10 K x 90000000 K	043085	•	12	90000000	90000000	200	MIN - 90000000	9000000	90000000
FIS 10 K x 100000000 K	043086	•	12	100000000	100000000	200	MIN - 100000000	10000000	100000000
FIS 10 K x 120000000 K	043087	•	12	120000000	120000000	200	MIN - 120000000	12000000	120000000
FIS 10 K x 150000000 K	043088	•	12	150000000	150000000	200	MIN - 150000000	15000000	150000000
FIS 10 K x 200000000 K	043089	•	12	200000000	200000000	200	MIN - 200000000	20000000	200000000
FIS 10 K x 250000000 K	043090	•	12	250000000	250000000	200	MIN - 250000000	25000000	250000000
FIS 10 K x 300000000 K	043091	•	12	300000000	300000000	200	MIN - 300000000	30000000	300000000
FIS 10 K x 350000000 K	043092	•	12	350000000	350000000	200	MIN - 350000000	35000000	350000000
FIS 10 K x 400000000 K	043093	•	12	400000000	400000000	200	MIN - 400000000	40000000	400000000
FIS 10 K x 450000000 K	043094	•	12	450000000	450000000	200	MIN - 450000000	45000000	450000000
FIS 10 K x 500000000 K	043095	•	12	500000000	500000000	200	MIN - 500000000	50000000	500000000
FIS 10 K x 600000000 K	043096	•	12	600000000	600000000	200	MIN - 600000000	60000000	600000000
FIS 10 K x 700000000 K	043097	•	12	700000000	700000000	200	MIN - 700000000	70000000	700000000
FIS 10 K x 800000000 K	043098	•	12	800000000	800000000	200	MIN - 800000000	80000000	800000000
FIS 10 K x 900000000 K	043099	•	12	900000000	900000000	200	MIN - 900000000	90000000	900000000
FIS 10 K x 1000000000 K	043100	•	12	1000000000	1000000000	200	MIN - 1000000000	100000000	1000000000
FIS 10 K x 1200000000 K	043101	•	12	1200000000	1200000000	200	MIN - 1200000000	120000000	1200000000
FIS 10 K x 1500000000 K	043102	•	12	1500000000	1500000000	200	MIN - 1500000000	150000000	1500000000
FIS 10 K x 2000000000 K	043103	•	12	2000000000	2000000000	200	MIN - 2000000000	200000000	2000000000
FIS 10 K x 2500000000 K	043104	•	12	2500000000	2500000000	200	MIN - 2500000000	250000000	2500000000
FIS 10 K x 3000000000 K	043105	•	12	3000000000	3000000000	200	MIN - 3000000000	300000000	3000000000
FIS 10 K x 3500000000 K	043106	•	12	3500000000	3500000000	200	MIN - 3500000000	350000000	3500000000
FIS 10 K x 40000									

Minimum number of rows, 1 at length 200 mm for perforated holes missing

Technical data (continued)

FISH

Row	Art. No.	Net hole dimension ϕ_{net} [mm]	Net length l [mm]	Substrate for	FF quantity per 10 cm [pieces width]	Substrate [mm]
FISH 12 x 1000 L	000006	12	1000	STRAW - STRAW	12	12
FISH 16 x 1000 L	000008	16	1000	STRAW - STRAW	16	16
FISH 22 x 1000 L	000010	22	1000	STRAW - STRAW	22	22
FISH 32 x 1000 L	000045	32	1000	STRAW - STRAW	32	32



Further info FISH Application manual



FISH

Row	Free profile, start profile F.A.	Free profile, start profile F.A.	Standard start F.A.	No. profile	Net hole dimension ϕ_{net} [mm]	Min. effective anchorage depth l_{eff} [mm]	Min. effective length of l_{eff} [mm]	FF quantity for FISH Plus of l_{eff} [pieces width]	Min. anchoring depth l_{eff} [mm]	Min. side fix length at l_{eff} [mm]	FF quantity for FISH Plus at l_{eff} [pieces width]	Substrate [mm]
FISH M 6 x 25 ¹⁾	000002	-	000408	6	6	20	26	2	12	4	2	12
FISH M 6 x 100 ¹⁾	000003	-	000409	6	6	20	31	2	12	20	2	12
FISH M 6 x 50	000004	000008	000440	6	6	20	16	2	16	1	2	16
FISH M 6 x 70	000005	000009	000441	6	6	20	18	2	18	1	2	18
FISH M 6 x 120	000006	000010	000442	6	6	20	26	2	18	1	4	18
FISH M 6 x 170	000007	000011	000443	6	6	20	34	2	18	4	5	18
FISH M 6 x 180	000008	000012	000444	6	6	20	-	2	18	-	6	18
FISH M 10 x 100	000009	-	000445	10	10	20	27	2	24	1	8	18
FISH M 10 x 120	000010	-	000446	10	10	20	27	2	18	1	2	18
FISH M 10 x 150	000011	000013	000447	10	10	20	31	2	18	1	5	18
FISH M 10 x 170	000012	000014	000448	10	10	20	37	2	18	1	8	18
FISH M 10 x 190	000013	000015	000449	10	10	20	42	2	18	1	9	18
FISH M 10 x 200	000014	000016	000450	10	10	20	47	2	18	1	10	18
FISH M 10 x 250	000015	000017	000451	10	10	20	57	2	18	1	12	18
FISH M 10 x 300	000016	000018	000452	10	10	20	67	2	18	1	14	18
FISH M 10 x 350	000017	000019	000453	10	10	20	77	2	18	1	16	18
FISH M 12 x 120	000018	000020	000454	12	12	20	31	2	200	-	2	18
FISH M 12 x 140	000019	000021	000455	12	12	20	34	2	102	1	5	18
FISH M 12 x 160	000020	000022	000456	12	12	20	37	2	122	1	6	18
FISH M 12 x 180	000021	000023	000457	12	12	20	41	2	142	1	7	18
FISH M 12 x 190	000022	000024	000458	12	12	20	44	2	162	1	7	18
FISH M 12 x 200	000023	000025	000459	12	12	20	47	2	182	1	8	18
FISH M 12 x 250	000024	000026	000460	12	12	20	57	2	182	1	9	18
FISH M 12 x 280	000025	000027	000461	12	12	20	64	2	202	4	10	18
FISH M 12 x 300 ¹⁾	000026	000028	000462	12	12	20	70	2	202	-	12	18
FISH M 16 x 120	000027	000029	000463	16	16	20	35	2	112	1	7	18
FISH M 16 x 170	000028	000030	000464	16	16	20	41	2	134	1	11	18
FISH M 16 x 200	000029	000031	000465	16	16	20	47	2	154	1	11	18
FISH M 16 x 250	000030	000032	000466	16	16	20	57	2	174	1	14	18
FISH M 16 x 300	000031	000033	000467	16	16	20	67	2	194	1	16	18
FISH M 16 x 350	000032	000034	000468	16	16	20	77	2	214	1	17	18
FISH M 16 x 1000 ¹⁾	000033	000035	000469	16	16	20	-	2	194	-	18	18

1) Width (not cut width) - FISH 16/20/25/30/35/40/50/60/70/80/90/100/120/150/180/200/250/300/350/400/450/500/550/600/650/700/750/800/850/900/950/1000/1050/1100/1150/1200/1250/1300/1350/1400/1450/1500/1550/1600/1650/1700/1750/1800/1850/1900/1950/2000/2050/2100/2150/2200/2250/2300/2350/2400/2450/2500/2550/2600/2650/2700/2750/2800/2850/2900/2950/3000/3050/3100/3150/3200/3250/3300/3350/3400/3450/3500/3550/3600/3650/3700/3750/3800/3850/3900/3950/4000/4050/4100/4150/4200/4250/4300/4350/4400/4450/4500/4550/4600/4650/4700/4750/4800/4850/4900/4950/5000/5050/5100/5150/5200/5250/5300/5350/5400/5450/5500/5550/5600/5650/5700/5750/5800/5850/5900/5950/6000/6050/6100/6150/6200/6250/6300/6350/6400/6450/6500/6550/6600/6650/6700/6750/6800/6850/6900/6950/7000/7050/7100/7150/7200/7250/7300/7350/7400/7450/7500/7550/7600/7650/7700/7750/7800/7850/7900/7950/8000/8050/8100/8150/8200/8250/8300/8350/8400/8450/8500/8550/8600/8650/8700/8750/8800/8850/8900/8950/9000/9050/9100/9150/9200/9250/9300/9350/9400/9450/9500/9550/9600/9650/9700/9750/9800/9850/9900/9950/10000/10050/10100/10150/10200/10250/10300/10350/10400/10450/10500/10550/10600/10650/10700/10750/10800/10850/10900/10950/11000/11050/11100/11150/11200/11250/11300/11350/11400/11450/11500/11550/11600/11650/11700/11750/11800/11850/11900/11950/12000/12050/12100/12150/12200/12250/12300/12350/12400/12450/12500/12550/12600/12650/12700/12750/12800/12850/12900/12950/13000/13050/13100/13150/13200/13250/13300/13350/13400/13450/13500/13550/13600/13650/13700/13750/13800/13850/13900/13950/14000/14050/14100/14150/14200/14250/14300/14350/14400/14450/14500/14550/14600/14650/14700/14750/14800/14850/14900/14950/15000/15050/15100/15150/15200/15250/15300/15350/15400/15450/15500/15550/15600/15650/15700/15750/15800/15850/15900/15950/16000/16050/16100/16150/16200/16250/16300/16350/16400/16450/16500/16550/16600/16650/16700/16750/16800/16850/16900/16950/17000/17050/17100/17150/17200/17250/17300/17350/17400/17450/17500/17550/17600/17650/17700/17750/17800/17850/17900/17950/18000/18050/18100/18150/18200/18250/18300/18350/18400/18450/18500/18550/18600/18650/18700/18750/18800/18850/18900/18950/19000/19050/19100/19150/19200/19250/19300/19350/19400/19450/19500/19550/19600/19650/19700/19750/19800/19850/19900/19950/20000/20050/20100/20150/20200/20250/20300/20350/20400/20450/20500/20550/20600/20650/20700/20750/20800/20850/20900/20950/21000/21050/21100/21150/21200/21250/21300/21350/21400/21450/21500/21550/21600/21650/21700/21750/21800/21850/21900/21950/22000/22050/22100/22150/22200/22250/22300/22350/22400/22450/22500/22550/22600/22650/22700/22750/22800/22850/22900/22950/23000/23050/23100/23150/23200/23250/23300/23350/23400/23450/23500/23550/23600/23650/23700/23750/23800/23850/23900/23950/24000/24050/24100/24150/24200/24250/24300/24350/24400/24450/24500/24550/24600/24650/24700/24750/24800/24850/24900/24950/25000/25050/25100/25150/25200/25250/25300/25350/25400/25450/25500/25550/25600/25650/25700/25750/25800/25850/25900/25950/26000/26050/26100/26150/26200/26250/26300/26350/26400/26450/26500/26550/26600/26650/26700/26750/26800/26850/26900/26950/27000/27050/27100/27150/27200/27250/27300/27350/27400/27450/27500/27550/27600/27650/27700/27750/27800/27850/27900/27950/28000/28050/28100/28150/28200/28250/28300/28350/28400/28450/28500/28550/28600/28650/28700/28750/28800/28850/28900/28950/29000/29050/29100/29150/29200/29250/29300/29350/29400/29450/29500/29550/29600/29650/29700/29750/29800/29850/29900/29950/30000/30050/30100/30150/30200/30250/30300/30350/30400/30450/30500/30550/30600/30650/30700/30750/30800/30850/30900/30950/31000/31050/31100/31150/31200/31250/31300/31350/31400/31450/31500/31550/31600/31650/31700/31750/31800/31850/31900/31950/32000/32050/32100/32150/32200/32250/32300/32350/32400/32450/32500/32550/32600/32650/32700/32750/32800/32850/32900/32950/33000/33050/33100/33150/33200/33250/33300/33350/33400/33450/33500/33550/33600/33650/33700/33750/33800/33850/33900/33950/34000/34050/34100/34150/34200/34250/34300/34350/34400/34450/34500/34550/34600/34650/34700/34750/34800/34850/34900/34950/35000/35050/35100/35150/35200/35250/35300/35350/35400/35450/35500/35550/35600/35650/35700/35750/35800/35850/35900/35950/36000/36050/36100/36150/36200/36250/36300/36350/36400/36450/36500/36550/36600/36650/36700/36750/36800/36850/36900/36950/37000/37050/37100/37150/37200/37250/37300/37350/37400/37450/37500/37550/37600/37650/37700/37750/37800/37850/37900/37950/38000/38050/38100/38150/38200/38250/38300/38350/38400/38450/38500/38550/38600/38650/38700/38750/38800/38850/38900/38950/39000/39050/39100/39150/39200/39250/39300/39350/39400/39450/39500/39550/39600/39650/39700/39750/39800/39850/39900/39950/40000/40050/40100/40150/40200/40250/40300/40350/40400/40450/40500/40550/40600/40650/40700/40750/40800/40850/40900/40950/41000/41050/41100/41150/41200/41250/41300/41350/41400/41450/41500/41550/41600/41650/41700/41750/41800/41850/41900/41950/42000/42050/42100/42150/42200/42250/42300/42350/42400/42450/42500/42550/42600/42650/42700/42750/42800/42850/42900/42950/43000/43050/43100/43150/432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Accessories.



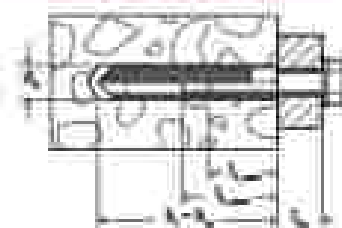
Anchor and FIS V Application in concrete



FIS V

	Steel plate, tensile grade S 5.2	Steel plate, tensile grade S 5.2	Stainless steel A 2-70	Ap- pli- ca- tion	Ed hole diameter $\varnothing$	Min. effective anchorage depth L_{min}	Min. effective length of L_{min}	FB quantity for FIS V Plus L_{min}	Min. embed- ding depth L_{min}	Min. ap- ply length at L_{min}	FB quantity for FIS V Plus L_{min}	Notes and
Size	Art. No. per S 5.2	Art. No. per S 5.2	Art. No. A 2-70	ETA	[mm]	[mm]	[mm]	[code value]	[mm]	[mm]	[code value]	[m³]
FIS V M 20 x 200	000102	000404	000405	•	24	50	100	10	120	1	20	0
FIS V M 20 x 200	000103	000405	000406	•	24	50	100	10	120	1	20	0
FIS V M 20 x 300*	-	000410	000407	•	24	50	-	10	400	-	40	0
FIS V M 20 x 200	000104	-	000408	•	24	50	90	10	100	1	20	0
FIS V M 20 x 200	000105	-	000402	•	24	50	100	10	100	1	20	0
FIS V M 20 x 240	000106	-	000401	•	24	50	90	10	100	1	20	0
FIS V M 20 x 400	000107	-	000404	•	24	100	170	10	100	1	20	0

* Without steel plate. FIS V high-tensile stainless steel (A 2-70) is required. Other sizes on request.



Technical data and notes FIS V in concrete



FIS V

	Steel plate, tensile grade S 5.2	Stainless steel A 2-70	Applied	Ed hole diameter $\varnothing$	Min. test penetration L_{min}	Min. test penetration L_{min}	FB quantity	Notes
Size	Art. No. per S 5.2	Art. No. A 2-70	ETA	[mm]	[mm]	[mm]	[code value]	[m³]
00.0 x 75 M 5	000110	-	-	10	5	10	1	0
00.10 x 75 M 5	000111	-	-	10	10	10	1	0
00.12 x 90 M 5	000112	000113	•	14	11	10	1	0
00.10 x 90 M 5	000114	000115	•	10	10	11	1	0
00.10 x 125 M 5	000116	000117	•	10	10	10	1	0
00.12 x 140 M 5	000118	000119	•	14	14	10	1	0
00.10 x 100 M 5	000120	000121	•	10	10	10	1	0

* Test depth is included in each package.

Holepunch set and washers



Set	Washer	Two-phased steel	Stainless steel A	Width across set	Washer (outer diameter > thickness)	Substrate for	Safety wall
		Art.-No.	Art.-No.	mm	mm		mm
Set 3 washers M9	500529	500530	500531	18	9 x 5,0	PLA M9 x 1,000	10
Set 3 washers M9	500530	500531	500532	22	10 x 7	PLA M9 x 1,000	10
Set 3 washers M12	500533	500534	500535	25	14 x 7,5	PLA M12 x 1,000	25
Set 3 washers M16	500537	500538	500539	28	18 x 9	PLA M16 x 1,000	30
Set 3 washers M20	500542	500543	500544	32	22 x 9	PLA M20 x 1,000	40

Accessories for hole punching



Chiseling tool RC		SDS-Plus M10		Metric versions		
		Length L ₁	Length L ₂	Shank diameter	For drill diameter	Safety wall
Item	Art.-No.	mm	mm	mm	mm	mm
SD 4-6	500101	101	58	6	6	5
SD 6-10	500102	101	58	8	8	5
SD 8-12	500103	101	60	10	10	5
SD 8-16	500104	123	60	10	10	5
SD 8-16/18	500105	123	60	11	16/18	5
SD 8-20	500107	101	60	12	16/20	5
SD 8-28	500108	100	60	14	24	5
SD 8-25	500109	120	60	15	25	5
SD 8-25	500110	123	60	16	25	5
SD 8-35	500114	153	60	18	28/35/25	5
FD 4-inch extension	500111	411	—	—	—	5
Compressed air nozzle Ø 9 (3.0 m)	500112	—	—	—	—	10
Compressed air nozzle Ø 15 (25.0 m)	500113	—	—	—	—	5
SDS Adapter M8	500115	—	—	—	—	5

Accessories for hole punching air



Compressed air cleaning set M10		Blow act. pump M10		Cleaning wedge	
Item	Art.-No.	Capacity		Total length	Safety wall
				mm	mm
Compressed air cleaning tool M10	500466	—	—	400	5
Blow act. pump M10	500781	—	—	370	5
Cleaning wedge	500116	10 wedges for horizontal installation, front M10	—	—	10

Loads

Injection system FTS Y Plus with anchor rod FTS A (esp. 80.0)

Permissible loads of a single anchor^{*)} in normal concrete of strength class C20/25.
For the design the complete current assessment FTA 2010(1) has to be considered.

Type	Material/ anchor ^{*)}	Effective anchorage depth l_{ef} (mm)	Minimum concrete thickness t_c (mm)	Minimum concrete cover depth c_{min} (mm)	Cast-in-situ concrete				Pre-stressed concrete			
					Permissible tensile $R_{t,d}$ and shear loads $R_{s,d}$ minimum spacing s_{min} and edge distances e_{min} with reduced loads				Permissible tensile $R_{t,d}$ and shear loads $R_{s,d}$ minimum spacing s_{min} and edge distances e_{min} with reduced loads			
					$R_{t,d}$ (kN)	$R_{s,d}$ (kN)	$R_{t,d}$ (kN)	$R_{s,d}$ (kN)	$R_{t,d}$ (kN)	$R_{s,d}$ (kN)	$R_{t,d}$ (kN)	$R_{s,d}$ (kN)
FTS A 80	S.8	80	100	40	1.9	6.3	40	40	5.8	6.3	40	40
	S.8	80	100	50	2.3	6.3	40	40	5.8	6.3	40	40
	S.8	100	100	50	2.6	6.3	40	40	5.8	6.3	40	40
	S.70	80	100	40	1.8	6.8	40	40	5.8	6.8	40	40
	S.70	80	100	50	2.2	6.8	40	40	5.8	6.8	40	40
	S.70	100	100	50	2.5	6.8	40	40	5.8	6.8	40	40
FTS A 100	S.8	80	100	30	1.4	5.7	45	45	10.0	5.7	45	45
	S.8	80	120	20	0.1	5.7	45	45	10.0	5.7	45	45
	S.8	100	120	20	15.8	5.7	45	45	10.0	5.7	45	45
	S.70	80	100	30	1.4	6.2	45	45	10.0	6.2	45	45
	S.70	80	120	20	0.1	6.2	45	45	10.0	6.2	45	45
	S.70	100	120	20	16.2	6.2	45	45	10.0	6.2	45	45
FTS A 120	S.8	70	100	40	6.2	14.3	55	45	11.7	14.3	55	45
	S.8	110	100	40	12.8	14.3	55	45	16.5	14.3	55	45
	S.8	140	110	40	20.1	14.3	55	45	20.5	14.3	55	45
	S.70	70	100	40	6.2	15.7	55	45	12.2	15.7	55	45
	S.70	110	100	40	13.8	15.7	55	45	20.5	15.7	55	45
	S.70	140	110	40	22.3	15.7	55	45	22.5	15.7	55	45
FTS A 150	S.8	80	100	30	11.3	23.8	60	50	16.8	23.8	60	50
	S.8	120	100	30	18.0	24.8	60	50	21.7	24.8	60	50
	S.8	150	100	30	27.8	26.8	60	50	30.8	26.8	60	50
	S.70	80	120	30	11.5	25.8	60	50	16.8	25.7	60	50
	S.70	120	120	30	18.8	25.2	60	50	22.7	25.2	60	50
	S.70	150	120	30	28.0	25.7	60	50	32.6	25.7	60	50
FTS A 200	S.8	80	100	30	14.0	33.0	65	65	20.8	33.0	65	65
	S.8	120	120	30	28.8	40.3	65	55	34.8	40.3	65	55
	S.8	160	150	30	38.8	42.3	65	65	38.8	42.3	65	65
	S.70	80	140	30	14.0	33.0	65	65	20.8	33.4	65	65
	S.70	120	120	30	28.8	35.8	65	55	34.3	35.8	65	55
	S.70	160	150	30	40.2	36.4	65	65	40.2	36.4	65	65
FTS A 250	S.8	80	100	30	15.4	38.8	105	80	25.8	44.3	105	80
	S.8	120	120	30	32.7	40.4	105	60	27.3	40.4	105	60
	S.8	160	140	30	44.3	40.6	105	60	36.2	40.6	105	60
	S.70	80	140	30	15.8	38.8	105	80	25.9	44.2	105	80
	S.70	120	120	30	32.7	40.8	105	60	27.3	40.8	105	60
	S.70	160	140	30	48.2	38.8	105	80	34.2	38.8	105	80
FTS A 300	S.8	120	100	30	21.8	43.2	140	80	35.8	43.8	140	80
	S.8	160	100	30	32.5	46.0	140	80	41.8	46.0	140	80
	S.8	200	110	30	42.3	46.0	140	80	42.8	46.0	140	80
	S.70	120	100	30	21.8	43.2	140	80	35.8	43.8	140	80
	S.70	160	100	30	32.5	46.2	140	80	41.8	46.2	140	80
	S.70	200	110	30	42.3	46.2	140	80	42.2	46.2	140	80

^{*)} Design according to EN 12101-4:2005 for static loading under tensile loads. The partial safety factors for material resistance as required in the FTA as well as a partial safety factor for load reduction of $\gamma_{red} = 1.4$ are considered. For a single anchor counts e.g. an anchor with a spacing $s \leq 2c_{min}$ and an edge distance $e \leq 1.5c_{min}$. Accurate data see FTA.

^{*)} The specified loads are valid for anchorage in dry and damp concrete. For temperatures on the anchoring substrate up to 50 °C (esp. about 30 °C) and below 10 °C, 30 °C below the set temperature of the FTA. The factor γ_{red} for reduced load was taken into account with 1.4.

^{*)} Further static loads, seismic and technical data see FTA, e.g. for dry internal conditions, galvanized steel (Zn), for design details and for weather exp. conditions steel (St).

^{*)} In the case of systematic use of tensile and shear loads, loading systems with reduced or minimum spacing and edge distances (see Fig. 19/20), the design must be carried out in accordance with the provisions of the complete FTA and the provisions of the EN 12101-4:2005. We recommend using our anchor design software C-FK.

Minivite system (B13 Plus, 400) (reduced threaded section B13 H)

Permissible loads of a single anchor** in normal concrete of strength class C30/37.

For the design the resulting correct assumptions (EN 1992-1-1) have to be considered.

Type	Nominal diameter ¹⁾	Effective anchorage length ²⁾	Minimum embedment thickness ³⁾	Minimum installation length ⁴⁾	Permissible tensile loads ⁵⁾ and shear loads ⁶⁾ (minimum spacing to wall-edge distance $c_{\min}$)			
					with reduced loads	$R_{t,k}$ [kN]	$R_{s,k}$ [kN]	$R_{t,k}/R_{s,k}$
B13 H 1	5.0	80	100	80	10.0	5.3	11	6
	6.0	90	120	90	13.8	6.2	11	12
	8/10	110	150	110	18.0	5.9	18	17
B13 H 2	5.0	90	110	110	13.8	6.3	11	11
	6.0	90	120	110	21.0	11.1	18	18
	8/10	90	150	110	16.7	9.3	18	18
B13 H 3	5.0	110	130	110	18.0	11.1	18	18
	6.0	120	150	110	21.0	14.7	18	18
	8/10	125	170	110	27.5	13.5	18	18
B13 H 4	5.0	130	150	110	20.0	17.8	18	18
	6.0	140	170	110	40.4	26.8	18	18
	8/10	140	190	110	40.9	29.1	18	18
B13 H 5	5.0	150	160	110	18.0	25.4	18	18
	6.0	160	180	110	44.3	31.4	18	18
	8/10	160	200	110	45.7	38.4	18	18

¹⁾ Design according to EN 10219-2:2015 for stainless steel, austenitic steels. The partial safety factors for material resistance as regulated in EN 1992-1-1 as well as a partial safety factor for load actions of $\gamma_F = 1.4$ are considered. As a single anchor (e.g. an anchor with a spacing $s > 3 \times d$ and an edge distance $c > 1.5 \times d$). Accurate data see EN 1992-1-1.

²⁾ The specified loads are valid for anchorages in dry and damp concrete. For temperatures in the anchoring substrate up to 50 °C (max. steel temp. up to 80 °C). Different design as per specifications in the EN. The factor $\eta_{1,2}$ for combinations and regions has to be taken into account with EN 1992-1-1.

³⁾ For steel and galvanized steel and technical data see EN 1992-1-1, e.g. for dry normal conditions, galvanized steel (galv); for damp conditions and for outdoor use, stainless steel (st).

⁴⁾ In the case of combinations of loads and steel loads, loading moments with reduced or minimum spacing and edge distances (anchor groups), the design must be carried out in accordance with the provisions of the complete EN and the provisions of the EN 10219-2:2015. We recommend using our anchor design software C.H.E.

Loads solid and perforated masonry

Application system FIS X Plus with anchor rod FIS-A in solid and perforated masonry

Formulas given** for a single anchor in masonry for pre-qualified installation.
For the design the complete safety assessment FIS-5000 Plus has to be considered.

	Compressive block strength	Block size breadth	Minimum block dimension ¹	Effective anchorage length	Min- imum masonry thickness	Maximum inclination load angle ³	Permissible tensile load ⁴	Permissible shear load ⁴	Minimum spacing ⁵	Characteristic tensile strength edge dist. ⁶
Type	f_{cm} (N/mm ²)	t (mm)	(L x B x H) (mm)	l_{ef} (mm)	t_{min} (mm)	α_{max} (°)	$R_{t,per}$ (kN)	$R_{s,per}$ (kN)	s_{min} (mm)	$R_{t,k} - R_{s,k}$ (kN)
Solid block (M1, M2, acc. to EN 771-4)										
M1	≥ 11	≥ 14	240 x 115 x 71	≥ 50	11	4	144	97	200 / 75	69
M2	≥ 12	≥ 15	240 x 115 x 71	≥ 50	15	8	144	97	200 / 75	69
M10	≥ 12	≥ 15	240 x 115 x 71	80	15	10	144	114	200 / 75	69
M15	≥ 13	≥ 15	240 x 115 x 71	100	140	10	143	143	200 / 75	69
M22	≥ 13	≥ 15	240 x 115 x 71	80	11	10	131	114	200 / 75	69
M22	≥ 13	≥ 15	240 x 115 x 71	100	140	10	131	131	200 / 75	69
Solid and Saw block (S), acc. to EN 771-2										
S1	≥ 11	≥ 14	240 x 115 x 71	50	11	3	134	94	181 / 110	68
S4	≥ 12	≥ 15	240 x 115 x 71	100	15	3	137	109	181 / 110	68
S6	≥ 13	≥ 15	240 x 115 x 71	14	14	5	134	140	181 / 110	68
S10	≥ 13	≥ 14	240 x 115 x 71	100	11	5	129	140	181 / 110	68
S15	≥ 12	≥ 15	240 x 115 x 71	100	15	5	157	157	181 / 110	68
S15	≥ 12	≥ 14	240 x 115 x 71	100	140	5	140	157	181 / 110	68
M22	≥ 13	≥ 15	240 x 115 x 71	100	11	6	128	152	181 / 110	68
M22	≥ 13	≥ 15	240 x 115 x 71	100	140	6	140	157	181 / 110	68
S16	≥ 12	≥ 15	240 x 115 x 71	100	15	25	137	157	181 / 110	68
S16	≥ 12	≥ 12	240 x 115 x 71	100	140	25	140	152	181 / 110	68
Half-hole perforated block (H), acc. to EN 771-1*										
M1 / M2 with FIS-H 12 x 10-E	≥ 11	≥ 10	375 x 340 x 210	80	140	3	934	643	100 / 100	100
M1 / M2 with FIS-H 16 x 10-E	≥ 12	≥ 10	375 x 340 x 210	120	140	3	106	672	100 / 100	100
M22 / M16 with FIS-H 16 x 20-E	≥ 13	≥ 10	375 x 340 x 210	120	140	3	134	672	100 / 100	100
Perforated load-bearing block (BL), acc. to EN 771-1*										
M1 / M2 with FIS-B 12 x 10-E	≥ 12	≥ 14	240 x 175 x 111	80	15	3	670	471	100 / 115	68
M1 / M2 with FIS-B 16 x 10-E	≥ 12	≥ 14	240 x 175 x 111	120	15	3	136	129	100 / 115	68
M22 / M16 with FIS-B 16 x 20-E	≥ 13	≥ 14	240 x 175 x 111	80	15	3	136	114	100 / 115	68
Lightweight concrete hollow block (H), acc. to EN 771-1*										
M1 / M2 with FIS-H 12 x 10-E	≥ 3	≥ 10	367 x 340 x 240	80	240	3	643	408	100 / 140	68
M1 / M2 with FIS-H 16 x 10-E	≥ 4	≥ 10	367 x 340 x 240	80	240	3	686	422	100 / 140	68
M22 / M16 with FIS-H 16 x 20-E	≥ 3	≥ 10	367 x 340 x 240	80	240	3	643	476	100 / 140	68
M1 / M2 with FIS-H 16 x 10-E	≥ 4	≥ 12	367 x 340 x 240	80	240	3	686	457	100 / 140	68
M22 / M16 with FIS-H 20 x 20-E	≥ 3	≥ 10	367 x 340 x 240	100	240	3	671	439	100 / 140	68
M22 / M16 with FIS-H 20 x 20-E	≥ 4	≥ 10	367 x 340 x 240	100	240	3	111	452	100 / 140	68
Insulated concrete acc. to EN 771-1*										
M1	≥ 2	≥ 12,5	-	100	120	3	654	441	150 / 150	100
M1	≥ 4	≥ 12,5	-	100	130	4	107	471	150 / 150	100
M10	≥ 2	≥ 12,5	-	100	130	3	114	440	150 / 150	100
M10	≥ 4	≥ 12,5	-	100	134	12	136	471	150 / 150	100
M22	≥ 3	≥ 12,5	-	100	130	3	671	454	150 / 150	100
M22	≥ 4	≥ 12,5	-	100	130	16	126	471	150 / 150	100
M16	≥ 2	≥ 12,5	-	100	130	3	671	443	150 / 150	100
M16	≥ 4	≥ 12,5	-	100	130	16	126	471	150 / 150	100

* The required partial safety factors for structural masonry as well as a partial safety factor for load actions of $\gamma_{M1} = 1,4$ are recommended. Load values are valid for one plane joint, vertical load and if and, if applicable, constant wind load. In perforated blocks and hollow blocks the value of FIS-A is in combination with anchor class FIS-B16.

** The given loads are valid for installation and type of treatment in the masonry - see category 400 - for temperatures in the substrate up to 50 °C above and up to 50 °C and 400 kN load duration according to assessment. The given loads have to be calculated with the permissible loads are not correct if the assessment.

* More information about, e.g. block patterns, assessment of anchor class FIS-B16 see assessment.

* In the case of combination of loads and shear loads, bending moments and tensile edges and axial openings (pilot ground), the design must be carried out in accordance with the provisions of the complete assessment.

* Minimum feasible spacing/min. edge distances. Results as well as to the distance to joints see assessment.

* Optimum drill tool.



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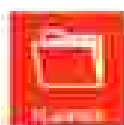
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Things to Remember

- **Assessment**
- **Intervention**
- **Monitoring**
- **Documentation**

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