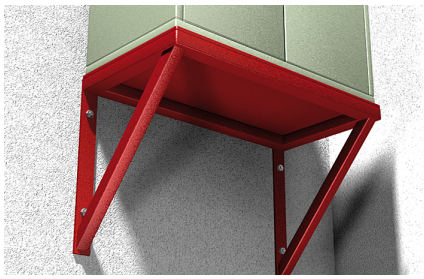
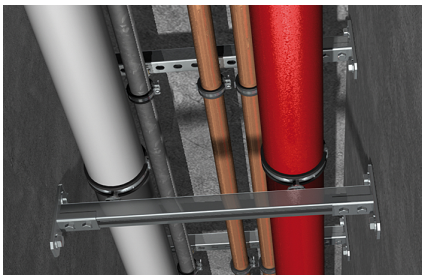
Nettsilhylsen for montering i murverk





BYGGEMATERIALER

Godkjent for:

- Vertikalt perforert tegl
- Hulblokk av lettbetong
- Hulblokk av betong
- Kalksand-hullstein
- Kalksand-helstein
- Massiv teglstein

Også egnet for:

- Hule pimpsteinplater
- Plater laget av hullsteiner
- Pimpstein og andre solide byggematerialer

GODKJENNINGER

FORDEL

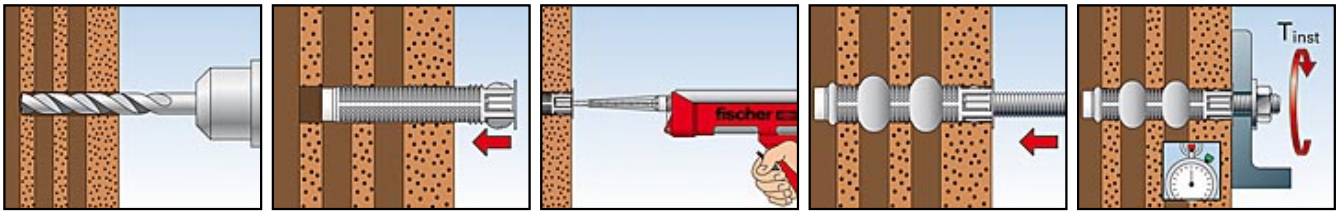
- Nettstrukturen til silhylsen sørger for jevn mørtelfordeling i borehullet og dermed for sikkert hold.

APPLIKASJONER

- Markiser
- Baldakin
- Porter
- Gelendere
- Konsoller
- Rørledninger
- Sanitærgjenstander
- Gitter
- Satellittantenner
- Solbeskyttelse

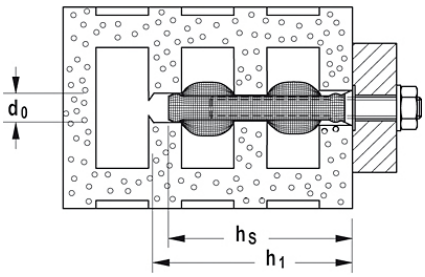
FUNKSJONSMÅTE

- Ankerhylsen settes inn i borehullet og fylles med injeksjonsmørtel fra ankerhylsegrunnen.
- Ved setting av festeelementet blir mørtelen trykket gjennom gitterstrukturen til ankerhylsen og tilpasser seg forankringsgrunnen optimalt.
- Lasten utrettes via formtilpasning.



TEKNISK DATA

Injeksjonsankerhylse med nett FIS H N



Produktnavn	Art nr.	Nominell diameter boremaskin d_0 [mm]	min. borehullsdybde h_1 [mm]	min. forankringsdybde ankerhylse h_v [mm]
FIS H 16 x 85 N	**050470**	16	95	90
FIS H 18 x 85 N	**050472**	18	95	90
FIS H 20 x 85 N	**050474**	20	95	90

LOADS

Injection system FIS V, FIS VS and FIS VW with threaded rod FIS A[5] and anchor sleeve FIS H..K

Highest permissible loads[1) 6)] for a single anchor in perforated brick masonry for pre-positioned installation.
For the design the complete approval ETA-10/0383 has to be considered.

					Perforated brick masonry			
Type	Compressive brick strength f_b [N/mm²]	Min. effective anchorage depth[4] $h_{ef,min}$ [mm]	Brick type, naming acc. DIN [-] [-]	Installation torque T_{inst} [Nm]	Permissible tensile load[3] N_{perm} [kN]	Permissible shear load[3] V_{perm} [kN]	Min. spacing[2] s_{min} [mm]	Min. edge distance[2] c_{min} [mm]
Vertically perforated brick Hlz								
M8 / M10	8	110	Hlz	2,0	0,57	0,57	80	100
M12 / M16	8	110	Hlz	2,0	0,43	0,57	80	120
M8 / M10	10	110	Hlz	2,0	0,71	0,43	80	100
M12 / M16	10	110	Hlz	2,0	1,00	0,43	80	120
M8 / M10	12	110[7]	Hlz	2,0	0,57	0,57	80	100
M12 / M16	12	110	Hlz	2,0	1,00	0,57	80	120
M8 / M10	28	85	Hlz	2,0	1,00	1,71	100	240
M12 / M16	28	110	Hlz	2,0	-	-	-	-
Perforated sand-lime brick KSL								
M8 / M10	12	85	KSL	2,0	0,71	1,29	80	100
M12 / M16	12	110	KSL	2,0	0,86	1,29	80	120
M8 / M10	20	85	KSL	2,0	1,00	1,71	80	100
M12 / M16	20	110	KSL	2,0	1,29	1,71	80	120
Hollow block of lightweight aggregate concrete Hbl								
M8 / M10	6	110	Hbl	2,0	0,34	0,71	80	100
M12 / M16	6	110	Hbl	2,0	0,34	0,71	80	120

1) The required partial safety factors for material resistance as well as a partial safety factor for load actions of γ_L = 1,4 are considered.
2) Minimum possible axial spacings resp. edge distance while reducing the permissible load.
3) For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
4) The max. anchorage depth is corresponding with the relevant anchor sleeves FIS H..K (see technical data).
5) gvz, A4 and C.
6) The given loads are valid for fixations in dry and wet masonry for temperatures in the substrate up to +50°C (resp. short term up to 80°C) and best possible drillhole cleaning according approval.
7) For bricks with certain hole patterns 85 mm are possible. Please see approval.

LOADS

Injection system FIS V, FIS VS and FIS VW with threaded rod FIS A[5] resp. internal threaded socket FIS E[5] and anchor sleeve FIS H..K

Highest permissible loads[1) 6)] for a single anchor in perforated brick masonry for pre-positioned installation.
For the design the complete approval Z-21.3-1824 has to be considered.

					Perforated brick masonry			
Type	Compressive brick strength f_b [N/mm²]	Effective anchorage depth[4] h_{ef} [mm]	Brick type, naming acc. DIN [-] [-]	Installation torque T_{inst} [Nm]	Permissible load[3] F_{perm} [kN]	Permissible load[3) 7)] F_{perm} [kN]	Min. spacing[2] s_{min} (a_{min}) [mm]	Min. edge distance[2] c_{min} (a_r) [mm]
Vertically perforated brick Hlz								
M6 - M16	4	85	HLz	2,0	0,30	0,60	50	50
M6 - M16	6	85	HLz	2,0	0,40	0,80	50	50
M6 - M16	12	85	HLz	2,0	0,80	1,00	50	50
Perforated sand-lime brick KSL								
M6 - M16	4	85	KSL	2,0	0,40	0,60	50	50
M6 - M16	6	85	KSL	2,0	0,60	0,80	50	50
M6 - M16	12	85	KSL	2,0	0,80	1,40	50	50
Hollow block of lightweight aggregate concrete Hbl								
M6 - M16	2	85	Hbl	2,0	0,30	0,50	50	200
M6 - M16	4	85	Hbl	2,0	0,60	0,80	50	200
Hollow block of normal concrete Hbn								
M6 - M16	4	85	Hbn	2,0	0,60	0,80	50	200
Lightweight aggregate concrete TGL								
M8 - M16	-	85	TGL	2,0	2,00[8]	-	50	50

1) Required safety factors are considered.
2) Minimum possible axial spacings resp. edge distance while reducing the permissible load.
3) Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.
4) Anchorage depths apply for FIS A and FIS E (M6 - M12).
5) gvz and A4. For FIS E screw with grade 5.8 resp. A4-70.
6) The given loads are valid for fixations in dry and humid masonry for temperatures in the substrate up to +50°C (resp. short term up to 80°C) and best possible drillhole cleaning according approval.
7) The given values apply for rotary drilling (without impact). The thickness of the outer web of the KSL has to be min. 30 mm (old bricks).
8) For M8 and M10 the highest permissible load is 1,3 kN.