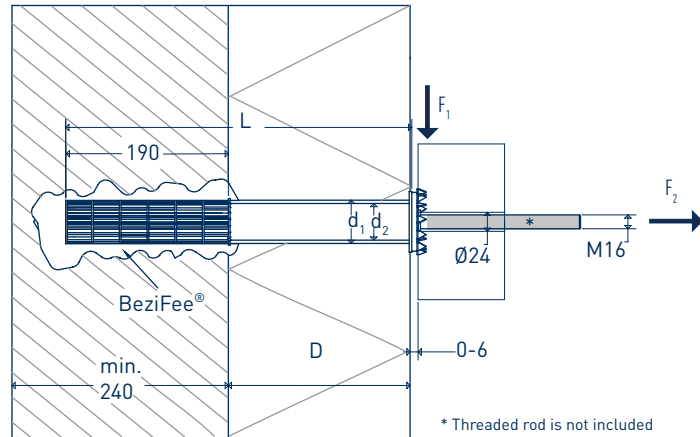


ProziFix®

TECHNICAL DATA SHEET



ProziFix® Load tables

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50	6,27	6,5	2,51	1,86
55426	5	50 x 320	42,4 / 8	130		5,88	6,5	2,35	1,86
55436	5	50 x 340	42,4 / 8	150		5,53	6,5	2,21	1,86
55446	5	50 x 360	42,4 / 8	170		5,23	6,5	2,09	1,86
55456	5	50 x 380	42,4 / 8	190		4,95	6,5	1,98	1,86
55466	5	50 x 400	42,4 / 8	210		4,70	6,5	1,88	1,86

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50	14,19	16,34	5,67	4,67
55426	5	50 x 320	42,4 / 8	130		13,30	16,34	5,32	4,67
55436	5	50 x 340	42,4 / 8	150		12,52	16,34	5,01	4,67
55446	5	50 x 360	42,4 / 8	170		11,82	16,34	4,73	4,67
55456	5	50 x 380	42,4 / 8	190		11,20	16,34	4,48	4,67
55466	5	50 x 400	42,4 / 8	210		10,64	16,34	4,26	4,67

*For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reduction by the factor $\beta_{FT} = 0.7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182

(minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C) F_{1d} and F_{2d}.

F_{2d} must then be reduced by the factor $\beta_{duration} = 0.6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients

of γ_M of 2.5 for brick and 1.5 for concrete are already taken into account for F_{1d} and F_{2d}.

An installation safety factor γ_{inst} of 1.4 is already taken into account for tractive load F_{2d}. This does not apply for shear forces F_{1d}.

For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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ProziFix® Load tables

Wienerberger Poroton flat brick T8-50,0

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix® Drill PFB 50	14,70	6,76	5,88	1,93
55416	5	50 x 300	42,4 / 8	110		9,31	6,76	3,72	1,93

Wienerberger Porotherm 25-38 Plan

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50	8,74	13,27	3,50	3,79
55426	5	50 x 320	42,4 / 8	130		8,19	13,27	3,28	3,79
55436	5	50 x 340	42,4 / 8	150		7,71	13,27	3,08	3,79
55446	5	50 x 360	42,4 / 8	170		7,28	13,27	2,91	3,79
55456	5	50 x 380	42,4 / 8	190		6,90	13,27	2,76	3,79
55466	5	50 x 400	42,4 / 8	210		6,56	13,27	2,62	3,79

Wienerberger Porotherm 50-20 H.i. Plan

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix® Drill PFB 50	8,10	2,32	3,24	0,66
55416	5	50 x 300	42,4 / 8	110		5,13	2,32	2,05	0,66

Pichler PIAplan 25/38 VZ

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50	8,55	5,86	3,42	1,67
55426	5	50 x 320	42,4 / 8	130		8,02	5,86	3,21	1,67
55436	5	50 x 340	42,4 / 8	150		7,54	5,86	3,02	1,67
55446	5	50 x 360	42,4 / 8	170		7,13	5,86	2,85	1,67
55456	5	50 x 380	42,4 / 8	190		6,75	5,86	2,70	1,67
55466	5	50 x 400	42,4 / 8	210		6,41	5,86	2,57	1,67

*For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reduction by the factor $\beta_{\text{PT}} = 0.7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C) F_{1d} and F_{2d}.

F_{1c} must then be reduced by the factor $\beta_{\text{duration}} = 0.6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients of γ_{MC} of 2.5 for brick and 1.5 for concrete are already taken into account for F_{1d} and F_{2d}.

An installation safety factor γ_{inst} of 1.4 is already taken into account for tractive load F_{2d}. This does not apply for shear forces F_{1d}.

For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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ProziFix® Load tables

Pichler PIAplan 50/20 VZ

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix® Drill PFB 50	2,40	3,15	0,96	0,90
55416	5	50 x 300	42,4 / 8	110		1,52	3,15	0,61	0,90

Leitl Vital Plan 25/30/24,9 cm N+F

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50	8,74	5,75	3,50	1,64
55426	5	50 x 320	42,4 / 8	130		8,19	5,75	3,28	1,64
55436	5	50 x 340	42,4 / 8	150		7,71	5,75	3,08	1,64
55446	5	50 x 360	42,4 / 8	170		7,28	5,75	2,91	1,64
55456	5	50 x 380	42,4 / 8	190		6,90	5,75	2,76	1,64
55466	5	50 x 400	42,4 / 8	210		6,56	5,75	2,62	1,64

Leitl Vital Solex Plan 50/20/24,9 cm N+F

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix® Drill PFB 50	2,40	4,45	0,96	1,27
55416	5	50 x 300	42,4 / 8	110		1,52	4,45	0,61	1,27

EDER Plan XP 50 plus

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55406	5	50 x 190	42,4 / 8	0	ProziFix® Drill PFB 50	5,30	5,7	2,12	1,63
55416	5	50 x 300	42,4 / 8	110		3,36	5,7	1,34	1,63

*For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reduction by the factor $\beta_{FT} = 0,7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182

(minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C) F_{1d} and F_{2d}.

F_{2d} must then be reduced by the factor $\beta_{duration} = 0,6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients

of γ_{Mc} of 2.5 for brick and 1.5 for concrete are already taken into account for F_{1d} and F_{2d}.

An installation safety factor γ_{inst} of 1.4 is already taken into account for tractive load F_{2d}. This does not apply for shear forces F_{1d}.

For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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ProziFix® Load tables

H+H solid lime sand brick 2 DF

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	ProziFix® Drill PFB 50 or 50 mm Hammer-Drill	22,61	20,56	9,04	5,87
55426	5	50 x 320	42,4 / 8	130		21,20	20,56	8,48	5,87
55436	5	50 x 340	42,4 / 8	150		19,95	20,56	7,98	5,87
55446	5	50 x 360	42,4 / 8	170		18,84	20,56	7,54	5,87
55456	5	50 x 380	42,4 / 8	190		17,85	20,56	7,14	5,87
55466	5	50 x 400	42,4 / 8	210		16,96	20,56	6,78	5,87

C20/25 cracked and non-cracked slab > 20 cm front side

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	50 mm Hammer-Drill	10,89	10,45	7,26	4,98
55426	5	50 x 320	42,4 / 8	130		10,21	10,45	6,81	4,98
55436	5	50 x 340	42,4 / 8	150		9,61	10,45	6,41	4,98
55446	5	50 x 360	42,4 / 8	170		9,08	10,45	6,05	4,98
55456	5	50 x 380	42,4 / 8	190		8,60	10,45	5,73	4,98
55466	5	50 x 400	42,4 / 8	210		8,17	10,45	5,45	4,98

C20/25 cracked and non-cracked slab > 25 cm front side or wall surface

SIHGA®		Dimension		Insulation Thickness	Drilling tool	Characteristic Values		Recommended Values*	
montagepack		d1 x L	d2 / Wall Thickness	D		F _{1c}	F _{2c}	F _{1d}	F _{2d}
Art. No.	PU	[mm]	[mm]	[mm]		Shear Force [kN]	Tensile Force [kN]	Shear Force [kN]	Tensile Force [kN]
55416	5	50 x 300	42,4 / 8	110	50 mm Hammer-Drill	12,92	10,45	8,61	4,98
55426	5	50 x 320	42,4 / 8	130		12,11	10,45	8,08	4,98
55436	5	50 x 340	42,4 / 8	150		11,40	10,45	7,60	4,98
55446	5	50 x 360	42,4 / 8	170		10,77	10,45	7,18	4,98
55456	5	50 x 380	42,4 / 8	190		10,20	10,45	6,80	4,98
55466	5	50 x 400	42,4 / 8	210		9,69	10,45	6,46	4,98

*For installation in dry concrete or masonry and a temperature range I according to ETA 17/0181 and ETA 17/0182 (minimum temperature -40° C, maximum short-term temperature +40° C; maximum long-term temperature +24° C). Valid for the minimum edge & axis distances given in the table.

Reductions of the recommended values are applied as follows:

Reduction by the factor $\phi_{\text{pr}} = 0.7$ is required for damp substrates or a temperature range II according to ETA 17/0181 and ETA 17/0182

(minimum temperature -40° C, maximum short-term temperature +80° C; maximum long-term temperature +50° C) F_{1d} and F_{2d}

F_{2d} must then be reduced by the factor $\phi_{\text{duration}} = 0.6$ if the proportion of the permanently acting tractive load is higher than 50% Material coefficients

of γ_{M2} of 2.5 for brick and 1.5 for concrete are already taken into account for F_{1d} and F_{2d}

An installation safety factor γ_{inst} of 1.4 is already taken into account for tractive load F_{2d}. This does not apply for shear forces F_{1d}.

For load cases not covered in this table, the underlying expert opinion of MPA Stuttgart is available at www.sihga.com.

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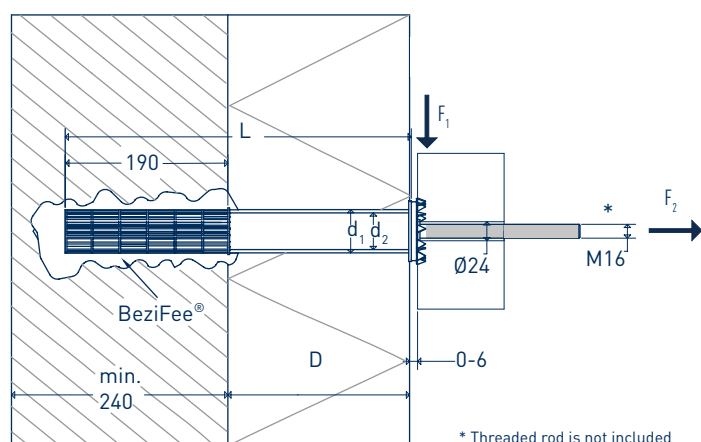
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ProziFix® brick dimensions, axis and edge distances

	Length l [cm]	Height h [cm]	Thickness d [cm]	$f_{b,min}/f_{c,min}$ [N/mm ²]	Edge distances C ₁ /C ₂ [cm]	Axis distances S ₁ /S ₂
Senftenbacher 25 VZ Plan	38,0	24,9	25,0	15,0	19,0/12,5	l/h
Wienerberger Poroton Vertical perforated brick Plan-T 24,0-0,9	37,3	24,9	24,0	12,0	18,7/12,5	l/h
Wienerberger Poroton Poroton flat brick T8-50,0	24,8	24,9	50,0	6,0	12,4/12,5	l/h
Wienerberger Porotherm 25-38 Plan	37,5	24,9	25,0	10,0	18,8/12,5	l/h
Wienerberger Porotherm 50-20 H.i. Plan	20,0	24,9	50,0	7,5	10,0/12,5	l/h
Pichler PlAplan 25/38 VZ	38,0	24,9	25,0	15,0	19,0/12,5	l/h
Pichler PlAplan 50/20 VZ	20,0	24,9	50,0	10,0	10,0/12,5	l/h
Leitl Vital Plan 25/30/24,9 cm N+F	30,0	24,9	25,0	15,0	15,0/12,5	l/h
Leitl Vital Solex Plan 50/20/24,9 cm N+F	20,0	24,9	50,0	7,5	10,0/12,5	l/h
EDER Plan XP 50 plus	20,0	24,9	50,0	5,0	10,0/12,5	l/h
H+H solid lime sand brick 2 DF	11,5	11,3	24,0	20,0	5,8/5,7	l/h
Concrete slab front side > 20 cm	40,0	20,0	25,0	C20/25	20,0/10,0	l/h
Concrete slab front side > 25 cm	50,0	25,0	25,0	C20/25	25,0/12,5	l/h



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Compared with Threaded Rod

System	Wall Thickness	Distance (WDVS)	Threaded rod	Anchoring Depth (with adhesive mortar)	Wood Spacing Holder (L x B x H)	Failure Load	Failure Type	max. Load*
	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]		[kN]
Threaded Rod	250	200	M 16	150	200 x 140 x 140	~ 1,20	Ziegelbruch	~ 0,4
ProziFix® 210	250	200	-	190	-	~ 7,50	Ziegelbruch	1,80

* failure value with partial safety factors reduced (Senftenbacher 25 VZ Plan)



DETAILS

- wall anchors for vertically perforated brick
- bridges up to 20 cm insulation
- high load-bearing capacity
- internal pipe insulation
- 0 - 6 mm rear ventilation resistance
- anchor pipe with high corrosion resistance



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