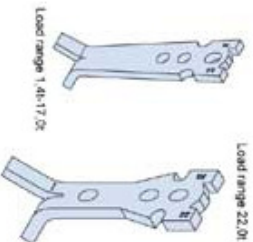
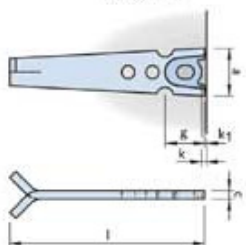


Erection Anchor/Unilateral Anchor



Load range 22.0t

This anchor is specially designed for use with precast sandwich panels. Its suspension point is close to the gravity axis thus allowing the element to be transported and erected in an upright position.

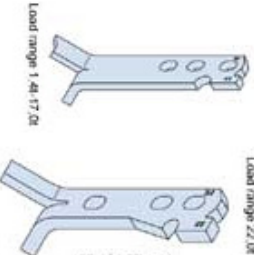


Dimensions, Erection anchor TPA-FA

Designation	Order No.	Designation	Order No.	Load group [N]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]	k [mm]	l [mm]	m [mm]	n [mm]	o [mm]	p [mm]	q [mm]	r [mm]	s [mm]	t [mm]	u [mm]	v [mm]	w [mm]	x [mm]	y [mm]	z [mm]
TPA-FA 1.4-20	00001	TPA-FA 1.4-20 PV	00001	2.5	55	6	200	45	10	6																				
TPA-FA 2.5-23	00002	TPA-FA 2.5-23 PV	00002	5.0	70	12	270	70	10	6																				
TPA-FA 4.0-27	00003	TPA-FA 4.0-27 PV	00003	10.0	95	15	320	90	15	6																				
TPA-FA 5.0-29	00004	TPA-FA 5.0-29 PV	00004	14.8	148	20	500	90	15	6																				
TPA-FA 7.5-32	00005	TPA-FA 7.5-32 PV	00005	25.0	148	25	500	90	15	6																				
TPA-FA 10.0-39	00006	TPA-FA 10.0-39 PV	00006	14.8	148	20	500	90	15	6																				
TPA-FA 12.5-50	00007	TPA-FA 12.5-50 PV	00007	25.0	148	25	500	90	15	6																				
TPA-FA 17.0-50	00008	TPA-FA 17.0-50 PV	00008	14.8	148	20	500	90	15	6																				
TPA-FA 22.0-50	00009	TPA-FA 22.0-50 PV	00009	25.0	148	25	500	90	15	6																				

Load range 22.0t

This anchor is specially designed for use with precast sandwich panels. Its suspension point is close to the gravity axis thus allowing the element to be transported and erected in an upright position.



Load range 1.4t-17.0t

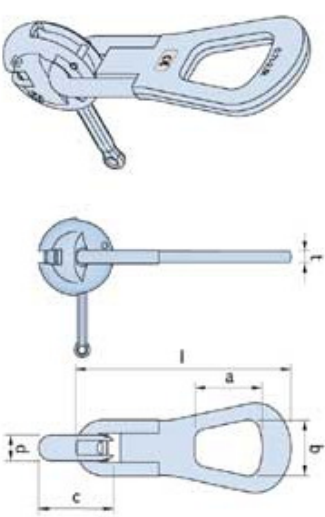
Dimensions, Unilateral erection anchor TPA-FE

Designation	Order No.	Designation	Order No.	Load group [N]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]	k [mm]	l [mm]	m [mm]	n [mm]	o [mm]	p [mm]	q [mm]	r [mm]	s [mm]	t [mm]	u [mm]	v [mm]	w [mm]	x [mm]	y [mm]	z [mm]
TPA-FE 1.4-20	00001	TPA-FE 1.4-20 PV	00010	2.5	40	6	200	42.2	10	6																				
TPA-FE 2.5-23	00002	TPA-FE 2.5-23 PV	00011	5.0	55	12	270	50.5	10	6																				
TPA-FE 4.0-27	00003	TPA-FE 4.0-27 PV	00012	10.0	70	15	320	70.0	15	6																				
TPA-FE 5.0-29	00004	TPA-FE 5.0-29 PV	00013	14.8	148	20	500	90.5	15	6																				
TPA-FE 7.5-32	00005	TPA-FE 7.5-32 PV	00014	25.0	148	25	500	90.5	15	6																				
TPA-FE 10.0-39	00006	TPA-FE 10.0-39 PV	00015	14.8	148	20	500	90.5	15	6																				
TPA-FE 12.5-50	00007	TPA-FE 12.5-50 PV	00016	25.0	148	25	500	90.5	15	6																				
TPA-FE 17.0-50	00008	TPA-FE 17.0-50 PV	00017	14.8	148	20	500	90.5	15	6																				
TPA-FE 22.0-50	00009	TPA-FE 22.0-50 PV	00018	25.0	148	25	500	90.5	15	6																				

Ring clutch TPA-R1 with shackle for manual release

The ring clutch consists of a shackle and a clutch head. The shackle is free to move in any direction. The clutch head incorporates a locking bolt which fastens to the anchor. Anchors must be cast in with the correct recess former.

Ring clutches are available in four load groups. There are three or four anchors in each load group.



TPA-R1

Designation	Order No	Load group	l	a	b	c	d	l
	0071 010-	[N]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
TPA R1 2.5	00001	2.5	265	70	68	80	27	12
TPA R1 5.0	00002	5.0	330	86	65	105	36	16
TPA R1 10.0	00003	10.0	425	112	90	150	50	25
TPA R1 20.0	00004	20.0	605	160	120	206	72	30

Recess former

Plastic recess former TPA-A1

Plastic recess former TPA-A9

Designation	Order No.	Designation	Order No.	Load group [N]	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]	i [mm]	j [mm]	k [mm]	l [mm]	m [mm]	n [mm]	o [mm]	p [mm]	q [mm]	r [mm]	s [mm]	t [mm]	u [mm]	v [mm]	w [mm]	x [mm]	y [mm]	z [mm]
TPA-A1 2.5	00001	TPA-A1 2.5	00001	2.5	43	104	45	8	orange																					
TPA-A1 5.0	00002	TPA-A1 5.0	00002	5.0	49	126	59	8	black																					
TPA-A1 10.0	00003	TPA-A1 10.0	00003	10.0	67	188	85	12	green																					
TPA-A1 20.0	00004	TPA-A1 20.0	00004	20.0	112	234	118	16	blue																					

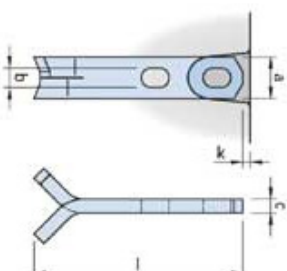
Rubber recess former TPA-A2

Designation	Order No.	Load group	a	b	c	d	e	Colour
	0073 026-	II	[mm]	[mm]	[mm]	[mm]		
TPA-A2 2.5	00001	2.5	41	102	47			
TPA-A2 5.0	00002	5.0	51	126	59			black
TPA-A2 10.0	00003	10.0	70	164	84			

for all anchors, not
FA, FE, FX, FU, FG

Spread Anchor

The spread anchor is very versatile. It provides an efficient anchorage in both thin panels and slabs. For special applications additional reinforcement can be combined with the spread anchor by utilising the extra hole.



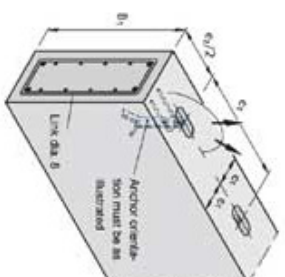
Dimensions, Spread anchor TPA-FS

Designation	Order No.	Designation	Order No.	Load group	a	b	c	l	k
TPA-FS 0.7-11	00001	TPA-FS 0.7-11	PV 00032		30	14	5	110	
TPA-FS 1.4-11	00002	TPA-FS 1.4-11	PV 00033		30	14	5	110	
TPA-FS 1.4-16	00003	TPA-FS 1.4-16	PV 00034		30	14	5	150	
TPA-FS 2.0-13	00004	TPA-FS 2.0-13	PV 00035		30	14	8	130	
TPA-FS 2.0-16	00005	TPA-FS 2.0-16	PV 00036		30	14	8	180	
TPA-FS 2.0-21	00006	TPA-FS 2.0-21	PV 00037		30	14	8	210	
TPA-FS 2.5-15	00007	TPA-FS 2.5-15	PV 00038		30	14	10	160	
TPA-FS 2.5-20	00008	TPA-FS 2.5-20	PV 00039		30	14	10	200	
TPA-FS 2.5-25	00009	TPA-FS 2.5-25	PV 00040		30	14	10	250	
TPA-FS 3.0-16	00010	TPA-FS 3.0-16	PV 00041		40	18	10	160	
TPA-FS 3.0-20	00011	TPA-FS 3.0-20	PV 00042		40	18	10	200	
TPA-FS 3.0-26	00012	TPA-FS 3.0-26	PV 00043		40	18	10	260	
TPA-FS 4.0-18	00013	TPA-FS 4.0-18	PV 00044		40	18	12	180	
TPA-FS 4.0-24	00014	TPA-FS 4.0-24	PV 00045		40	18	12	240	
TPA-FS 4.0-32	00015	TPA-FS 4.0-32	PV 00046		40	18	12	320	
TPA-FS 5.0-18	00016	TPA-FS 5.0-18	PV 00047		40	18	16	180	
TPA-FS 5.0-24	00017	TPA-FS 5.0-24	PV 00048		40	18	16	240	
TPA-FS 5.0-40	00018	TPA-FS 5.0-40	PV 00049		40	18	16	400	
TPA-FS 7.5-26	00022	TPA-FS 7.5-26	PV 00053		60	26	16	260	
TPA-FS 7.5-30	00023	TPA-FS 7.5-30	PV 00054		60	26	16	300	
TPA-FS 7.5-42	00024	TPA-FS 7.5-42	PV 00055		60	26	16	420	
TPA-FS 10.0-30	00025	TPA-FS 10.0-30	PV 00056		60	26	20	300	
TPA-FS 10.0-37	00026	TPA-FS 10.0-37	PV 00057		60	26	20	370	
TPA-FS 10.0-52	00027	TPA-FS 10.0-52	PV 00058		60	26	20	520	
TPA-FS 10.0-57	00028	TPA-FS 10.0-57	PV 00059		80	35	20	370	
TPA-FS 14.0-46	00029	TPA-FS 14.0-46	PV 00060		80	35	20	460	
TPA-FS 22.0-50	00030	TPA-FS 22.0-50	PV 00062		90	35	28	500	
TPA-FS 22.0-62	00031	TPA-FS 22.0-62	PV 00063		90	35	28	620	

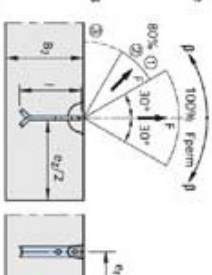
Load capacity, installation dimensions for large-area or thick-walled precast elements

Designation	Load group	Anchor height	Permitted load	Minimum height of beams	Minimum edge distances	Minimum thickness of slabs	Minimum edge distances	Minimum spacing between
		l [mm]	F _{perm} [kN]	B ₁ [mm]	e ₁ [mm]	B ₂ [mm]	e ₂ [mm]	B ₃ [mm]
TPA-FS 0.7-11	2.5	110	7	35	35	35	35	35
TPA-FS 1.4-11		110	14	35	35	35	35	35
TPA-FS 1.4-16		160	14	35	35	35	35	35
TPA-FS 2.0-13		130	20	35	35	35	35	35
TPA-FS 2.0-16		160	20	35	35	35	35	35
TPA-FS 2.0-21		210	20	35	35	35	35	35
TPA-FS 2.5-15		150	25	35	35	35	35	35
TPA-FS 2.5-20		200	25	35	35	35	35	35
TPA-FS 2.5-25		250	25	35	35	35	35	35
TPA-FS 3.0-16	5.0	160	30	35	35	35	35	35
TPA-FS 3.0-20		200	30	35	35	35	35	35
TPA-FS 3.0-26		260	30	35	35	35	35	35
TPA-FS 4.0-18		180	40	35	35	35	35	35
TPA-FS 4.0-24		240	40	35	35	35	35	35
TPA-FS 4.0-32		320	40	35	35	35	35	35
TPA-FS 5.0-18		180	50	35	35	35	35	35
TPA-FS 5.0-24	10.0	240	50	35	35	35	35	35
TPA-FS 5.0-40		400	50	35	35	35	35	35
TPA-FS 7.5-26		260	75	45	45	45	45	45
TPA-FS 7.5-30		300	75	45	45	45	45	45
TPA-FS 7.5-42		420	75	45	45	45	45	45
TPA-FS 10.0-30		300	100	55	55	55	55	55
TPA-FS 10.0-37		370	100	55	55	55	55	55
TPA-FS 10.0-52	20.0	520	100	55	55	55	55	55
TPA-FS 14.0-46		460	140	75	75	75	75	75
TPA-FS 22.0-50		500	220	85	85	85	85	85
TPA-FS 22.0-62		620	220	100	100	100	100	100

Required reinforcement: minimum standard reinforcement.
 - (6) Straightening inflection may be made between minimum beam height B₁ and minimum plate thickness B₂.
 - (7) The concrete cover at the foot is 25mm. Smaller plate thickness B₂ are only possible with suitable corrosion protection.
 - The upper reinforcement must be dimensioned for transport purposes.



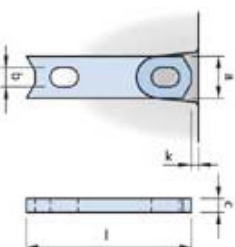
- Angled pull at 30° < β < 60° without angled pull reinforcement only permissible when:
 - BW ≥ 15 N/mm² × 3-fold min. thickness of unit
 - BW ≥ 25 N/mm² × 2.5-fold min. thickness of unit
 - BW ≥ 35 N/mm² × 2-fold min. thickness of unit
- Where concrete strength BW ≥ 23 N/mm² F_{perm} can be taken as 100%.
- Angle of β > 60° due to cable spread are impermissible!



Two hole anchor TPA-FZ

Anchor dimensions

The head of the two hole anchor is identical to the head of the spread anchor. The anchorage in concrete is achieved by means of a reinforcement tail. Longer anchors with additional holes can be produced on request.



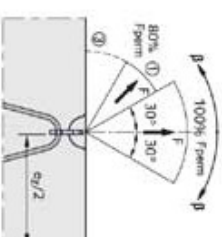
Dimensions, Two hole anchor TPA-FZ

Designation mill finish	Order No. COT0.020-	Load group II	a [mm]	b [mm]	c [mm]	l [mm]	k [mm]
TPA-FZ 1.4- 9	00002	2,5	30	14	6	90	10
TPA-FZ 2.0- 9	00003		30	14	8	90	
TPA-FZ 2.5- 9	00004		30	14	10	90	
TPA-FZ 3.0-12	00005		40	18	10	120	
TPA-FZ 4.0-12	00006	5,0	40	18	12	120	10
TPA-FZ 5.0-12	00007		40	18	15	120	
TPA-FZ 7.5-16	00009		60	26	16	160	
TPA-FZ 10.0-17	00010		60	30	20	165	
TPA-FZ 14.0-24	00011	10,0	80	35	20	240	15
TPA-FZ 22.0-30	00013		90	35	20	300	
TPA-FZ 28.0-30	00012		120	65	30	300	

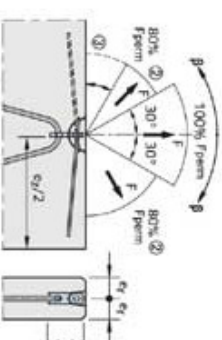
Designation hot-dip galvanized	Order No. COT0.110-	Load group II	a [mm]	b [mm]	c [mm]	l [mm]	k [mm]
TPA-FZ 1.4- 9 PV	00064	2,5	30	14	6	90	10
TPA-FZ 2.0- 9 PV	00065		30	14	8	90	
TPA-FZ 2.5- 9 PV	00066		30	14	10	90	
TPA-FZ 3.0-12 PV	00067		40	18	10	120	
TPA-FZ 4.0-12 PV	00068	5,0	40	18	12	120	10
TPA-FZ 5.0-12 PV	00069		40	18	15	120	
TPA-FZ 7.5-16 PV	00071		60	26	16	160	
TPA-FZ 10.0-17 PV	00072		60	30	20	165	
TPA-FZ 14.0-24 PV	00073	10,0	80	35	20	240	15
TPA-FZ 22.0-30 PV	00075		90	35	20	300	
TPA-FZ 28.0-30 PV	00074		120	65	30	300	

Load capacity, installation dimensions

Without angled pull reinforcement



With angled pull reinforcement



Position the angled pull reinforcement as closely to the recess former as possible

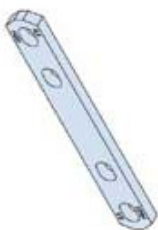
- ① Angled pull at $30^\circ < \beta \leq 60^\circ$ without angled pull reinforcement only permissible when:
 $FW \geq 15 \text{ N/mm}^2 + 3\text{-fold min. thickness of unit}$
 $FW \geq 25 \text{ N/mm}^2 + 2.5\text{-fold min. thickness of unit}$
 $FW \geq 35 \text{ N/mm}^2 + 2\text{-fold min. thickness of unit}$
 (minimum thickness of unit $e = 2 \times e_1$)
- ② Where concrete strength $FW \geq 23 \text{ N/mm}^2$ F_{perm} can be taken as 100%.
- ③ Angle of $\beta > 60^\circ$ due to cable spread are impermissible!

Load capacity, installation dimensions TPA-FZ

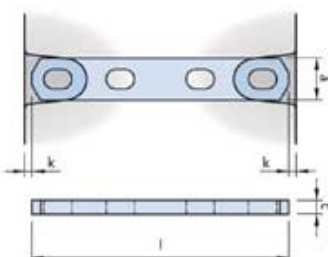
Concrete strength $FW \geq 15 \text{ N/mm}^2$

Designation	Load group II	Anchor length l [mm]	Spacing between anchor centre e2 [mm]	Minimum thickness of precast unit 2 x e1 [mm]	100% F_{perm} Pull [kN] ($\beta \leq 30^\circ$)	80% F_{perm} Angled pull [kN] ($\beta > 30^\circ$)
TPA-FZ 1.4- 9	2,5	90	500	80	14	11.2
TPA-FZ 2.0- 9		90	600	90	20	16
TPA-FZ 2.5- 9		90	600	100	25	20
TPA-FZ 3.0-12	5,0	120	650	100	30	24
TPA-FZ 4.0-12		120	700	110	40	32
TPA-FZ 5.0-12		120	750	120	50	40
TPA-FZ 7.5-16	10,0	160	1200	130	75	60
TPA-FZ 10.0-17		165	1200	140	100	80
TPA-FZ 14.0-24		240	1500	160	140	112
TPA-FZ 22.0-30	20,0	300	1500	180	220	176
TPA-FZ 28.0-30		300	1500	200	260	208

Dimensions TPA-FD



This anchor is identical to the head of the two hole anchor. It was specially developed for the tilting of columns or similar construction elements



Dimensions. Double ended column anchor TPA-FD

Designation	Order No	Designation	Order No	Load group	Column width	a	c	l	k
TPA-FD 2.5-23	00001	Not applicable	00010	II	250	30	10	228	10
TPA-FD 2.5-26	00002	TPA-FD 2.5-23 FV	00001		300	30	10	278	
TPA-FD 2.5-33	00003	TPA-FD 2.5-33 FV	00002	5.0	300	30	10	328	10
TPA-FD 5.0-23	00004	TPA-FD 5.0-23 FV	00003		250	40	15	228	
TPA-FD 5.0-26	00005	TPA-FD 5.0-26 FV	00004	5.0	300	40	15	278	10
TPA-FD 5.0-33	00006	TPA-FD 5.0-33 FV	00005		350	40	15	328	
TPA-FD 5.0-36	00007	TPA-FD 5.0-36 FV	00006	10.0	400	40	15	378	15
TPA-FD 5.0-43	00008	TPA-FD 5.0-43 FV	00007		450	40	15	428	
TPA-FD 7.5-46	00009	TPA-FD 7.5-46 FV	00008	10.0	500	40	15	478	15
TPA-FD 7.5-56	00010	TPA-FD 7.5-56 FV	00009		550	60	16	528	
TPA-FD 7.5-31	00011	TPA-FD 7.5-31 FV	00010	10.0	350	60	16	312	15
TPA-FD 7.5-36	00012	TPA-FD 7.5-36 FV	00011		400	60	16	362	
TPA-FD 7.5-41	00013	TPA-FD 7.5-41 FV	00012	10.0	450	60	16	412	15
TPA-FD 7.5-46	00014	TPA-FD 7.5-46 FV	00013		500	60	16	462	
TPA-FD 10.0-26	00015	TPA-FD 10.0-26 FV	00014	10.0	300	60	20	262	15
TPA-FD 10.0-31	00016	TPA-FD 10.0-31 FV	00015		350	60	20	312	
TPA-FD 10.0-36	00017	TPA-FD 10.0-36 FV	00016	10.0	400	60	20	362	15
TPA-FD 10.0-41	00018	TPA-FD 10.0-41 FV	00017		450	60	20	412	
TPA-FD 10.0-46	00019	TPA-FD 10.0-46 FV	00018	10.0	500	60	20	462	15
TPA-FD 12.5-26	00020	TPA-FD 12.5-26 FV	00019		400	80	16	362	
TPA-FD 12.5-31	00021	TPA-FD 12.5-31 FV	00020	10.0	450	80	16	412	15
TPA-FD 12.5-36	00022	TPA-FD 12.5-36 FV	00021		500	80	16	462	
TPA-FD 17.0-36	00023	TPA-FD 17.0-36 FV	00022	10.0	400	80	20	362	15
TPA-FD 17.0-41	00024	TPA-FD 17.0-41 FV	00023		450	80	20	412	
TPA-FD 17.0-46	00025	TPA-FD 17.0-46 FV	00024	10.0	500	80	20	462	15
TPA-FD 22.0-41	00026	TPA-FD 22.0-41 FV	00025		450	90	26	412	
TPA-FD 22.0-46	00027	TPA-FD 22.0-46 FV	00026	10.0	500	90	26	462	15
TPA-FD 22.0-56	00028	TPA-FD 22.0-56 FV	00027		600	90	26	562	

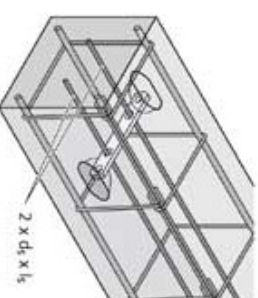
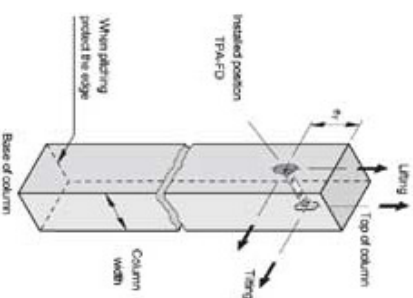
Order anchor lengths on request

Double ended column anchor TPA-FD

Load capacity, reinforcement

The anchor is capped with the appropriate recess former at both ends. The assembly of anchor and recess formers is then pushed between the reinforcement bars and fastened to the formwork at both ends. The additional reinforcement bars are then pushed through the holes of the anchor and wired into place.

The diameter of the reinforcement tails is the same as for the two hole anchor.



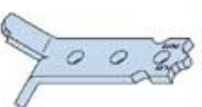
Load capacity double ended column anchor TPA-FD

Designation	Load group	Reinforcement		Load capacity	
		d _s [mm]	b [mm]	f _{yk} R _N ≥ 15 N/mm ²	f _{yk} R _N ≥ 25 N/mm ²
TPA-FD 2.5-23	II	12	750	40	50
TPA-FD 2.5-26		12	750	40	50
TPA-FD 2.5-33	5.0	12	750	40	50
TPA-FD 5.0-23		16	1000	80	100
TPA-FD 5.0-26	5.0	16	1000	80	100
TPA-FD 5.0-33		16	1000	80	100
TPA-FD 5.0-36	5.0	16	1000	80	100
TPA-FD 5.0-43		16	1000	80	100
TPA-FD 7.5-31	10.0	20	1200	120	150
TPA-FD 7.5-36		20	1200	120	150
TPA-FD 7.5-41	10.0	20	1200	120	150
TPA-FD 7.5-46		20	1200	120	150
TPA-FD 10.0-26	10.0	25	1500	160	200
TPA-FD 10.0-31		25	1500	160	200
TPA-FD 10.0-36	10.0	25	1500	160	200
TPA-FD 10.0-41		25	1500	160	200
TPA-FD 12.5-26	10.0	28	1600	200	250
TPA-FD 12.5-31		28	1600	200	250
TPA-FD 12.5-36	10.0	28	1600	200	250
TPA-FD 12.5-41		28	1600	200	250
TPA-FD 17.0-36	10.0	28	1600	200	250
TPA-FD 17.0-41		28	1600	200	250
TPA-FD 22.0-41	10.0	28	2000	352	440
TPA-FD 22.0-46		28	2000	352	440
TPA-FD 22.0-56	10.0	28	2000	352	440

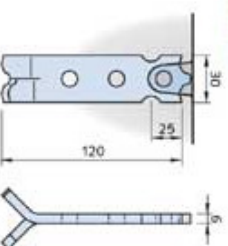
Note:

The larger the dimension e, the greater the load on the anchor when tilting, but the lower the load on the edge at the base of the column.

Load capacity, anchor and installation dimensions, reinforcement



This anchor combines the opportunities of spread-two hole- and erection anchor with a very small recess in the precast element.
This is a special load group and not part of the normal load group system.



Dimension, Universal anchor TPA-FU

Designation	Order No.	Designation	Order No.	Load group
TPA-FU 125-12	00001	TPA-FU 125-12 FV	00003	125



For the handling of very thin precast concrete units (e.g. balcony parapet panels), erection and transport anchors are required, which are especially adapted to those requirements. The FRIMEDA universal anchor TPA-FU 125-12 has been designed for this specific application, and is ideal for tilting, turning and lifting units in the above situation.
Recommended reinforcement
An additional reinforcement tail as in pict. 01 is essential for distributing the loads in very thin panels or on ones with only a single-layer reinforcement.
For turning and tilting, a turning reinforcement as shown pict. 02 must be incorporated.



Permitted loads of universal anchor TPA-FU

Designation	Minimum spacing between centres of element	Thickness of element	Central pull up to 30°	Angled pull up to 45°	Tilting and turning								
													
			Permitted load at concrete strength			Permitted load at concrete strength			Permitted load at concrete strength				
TPA-FU 125-12	60 [mm]	2 x ø	ØW = 15N/mm²	ØW = 25 N/mm²	ØW = 35 N/mm²	ØW = 15N/mm²	ØW = 25 N/mm²	ØW = 35 N/mm²	ØW = 15N/mm²	ØW = 25 N/mm²	ØW = 35 N/mm²		
			[µN]	[µN]	[µN]	[µN]	[µN]	[µN]	[µN]	[µN]	[µN]	[µN]	
			60	10.0	12.5	12.5	10.0	12.5	12.5	-	-	-	-
			80	12.5	12.5	12.5	10.0	12.5	12.5	4.1	4.6	5.0	5.8
			100	12.5	12.5	12.5	10.0	12.5	12.5	4.5	5.2	5.8	6.0
			120	12.5	12.5	12.5	12.5	12.5	12.5	4.8	5.8	6.0	6.25
			140	12.5	12.5	12.5	12.5	12.5	12.5	6.25	6.25	6.25	6.25
160	12.5	12.5	12.5	12.5	12.5	12.5	6.25	6.25	6.25	6.25			

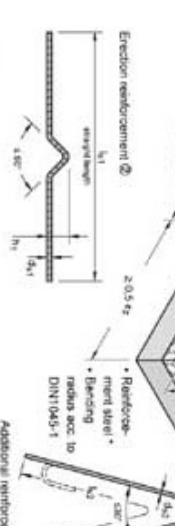
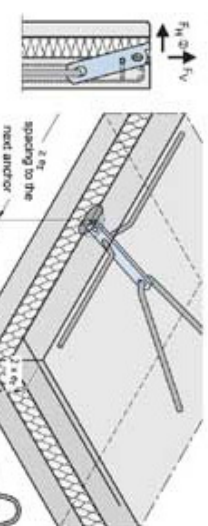
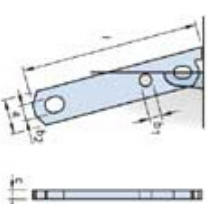
Dimensions TPA-FX



This anchor is specially designed for use with precast sandwich panels. Its suspension point is close to the gravity axis thus allowing the element to be transported and erected in an upright position.

Dimensions, Sandwich panel anchor TPA-FX

Designation	Order No.	Designation	Order No.	Load group	a	b1	b2	c	l
TPA-FX 2.5-25	00001	TPA-FX 2.5-25 FV	00006	2.5	40	14	16	10	250
TPA-FX 5.0-30	00002	TPA-FX 5.0-30 FV	00007	5.0	60	17.5	20	15	300
TPA-FX 7.5-35	00003	TPA-FX 7.5-35 FV	00008	10.0	80	25	35	15	350
TPA-FX 10.0-35	00004	TPA-FX 10.0-35 FV	00009	25.0	80	25	35	20	350
TPA-FX 17.0-40	00005	TPA-FX 17.0-40 FV	00010	25.0	100	30	35	20	400



Reinforcement

Concrete strength BW ≥ 15 N/mm²

Designation	Load group	Minimum spacing between centres	Thickness of element	Section links for pull *	Erection reinforcement (not included in delivery)	Additional reinforcement (not included in delivery)	Load capacity	recommended recess corner
TPA-FX 2.5-25	II	600	100	2 dia 8 x 600	10	600	2.5	TPA-A1 2.5
TPA-FX 5.0-30	III	750	120	2 dia 8 x 800	14	700	2.5	TPA-A1 5.0
TPA-FX 7.5-35	IV	1200	130	2 dia 10 x 800	16	900	2.5	TPA-A1 10.0
TPA-FX 10.0-35	IV	1200	140	4 dia 10 x 800	20	900	2.5	TPA-A1 10.0
TPA-FX 17.0-40	IV	1500	180	4 dia 12 x 1200	20	1100	2.5	TPA-A1 25.0

* In order to ensure adequate corrosion protection, we recommend hot-dip galvanized additional reinforcement.
② The loads at diagonal pull for concrete strengths < 25 N/mm² must be reduced to 80%.