

Bolt anchor IFA

The efficient fastener

Long Description

The Upat IFA bolt anchor is a cost-effective solution for standard fixings. It is suitable for installing medium loads in concrete or natural stone. The IFA can be installed using either pre-positioned or through installation and is easily hammered into the prepared drill hole. When the nut is tightened, the cone is drawn into the expansion clip, which expands against the wall of the hole to ensure a secure anchoring. Typical applications include fastening cable trays, brackets, shelves, and stair railings.

Characteristics

- Material: Steel, zinc-plated (zp), for use in dry indoor applications.
- Features: Thread sizes from M6 to M20, usable lengths from 5 to 180 mm.
- Load range: Recommended tensile loads from 1.3 to 16.0 kN and recommended shear loads from 1.3 to 13.5 kN.
- Accessories: Blower UPM AB.

Applications

- Railings
- Cable trays
- Brackets
- Ladders
- Machines
- Steel structures
- Gates

Advantages

Secure anchorage is achieved through the proven expansion principle for standard fixings without approval.

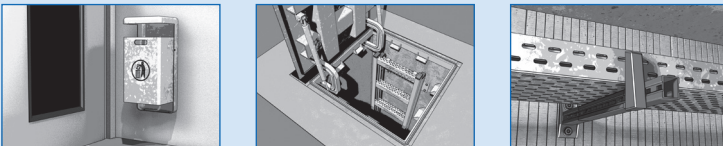
Materials

Suitable for:

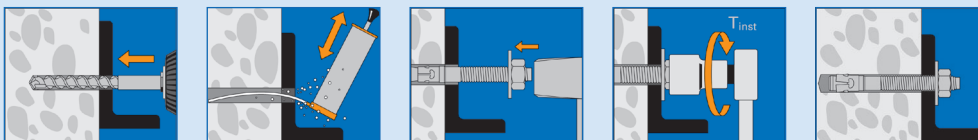
- Concrete, non-cracked
- Natural stone with dense structure.



Application examples



Assembly



Straight to the product



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Product variants

Product	Art.No.	Anchor length	Drill diameter	Thread	Installation torque	Min. drill hole depth for through fixings	Max. fixture thickness (reduced)	Max. fixture thickness (standard)	Width across nut	Anchorage depth (reduced)	Anchorage depth (standard)	Sales unit
IFA 6x55	578277	55	6	M6	4	55	15	5	10	25	30	100
IFA 6x70	578278	70	6	M6	4	70	30	20	10	25	30	100
IFA 6x90	578259	90	6	M6	4	90	45	40	10	25	30	50
IFA 6x130	578260	130	6	M6	4	130	85	80	10	25	30	50
IFA 6x140	578261	140	6	M6	4	140	95	90	10	25	30	50
IFA 8x50	578279	50	8	M8	10	50	5	—	13	25	—	50
IFA 8x60	578280	60	8	M8	10	60	15	—	13	25	—	50
IFA 8x65	578281	65	8	M8	10	65	20	5	13	25	35	50
IFA 8x75	578262	75	8	M8	10	75	30	15	13	25	35	50
IFA 8x80	578282	80	8	M8	10	80	35	20	13	25	35	50
IFA 8x90	578263	90	8	M8	10	90	45	30	13	25	35	50
IFA 8x95	578283	95	8	M8	10	95	50	35	13	25	35	50
IFA 8x120	578284	120	8	M8	10	120	75	60	13	25	35	50
IFA 10x65	578285	65	10	M10	25	65	10	—	17	25	—	50
IFA 10x70	578264	70	10	M10	25	70	15	—	17	25	—	50
IFA 10x80	578286	80	10	M10	25	80	25	5	17	25	45	50
IFA 10x90	578265	90	10	M10	25	90	35	15	17	25	45	50
IFA 10x95	578287	95	10	M10	25	95	40	20	17	25	45	50
IFA 10x115	578288	115	10	M10	25	115	60	40	17	25	45	25
IFA 10x120	578266	120	10	M10	25	120	65	45	17	25	45	25
IFA 10x130	578289	130	10	M10	25	130	75	55	17	25	45	25
IFA 10x140	578290	140	10	M10	25	140	85	65	17	25	45	25
IFA 10x160	578291	—	10	M10	25	160	105	85	17	25	45	25
IFA 10x180	578292	—	10	M10	25	180	115	105	17	25	45	25
IFA 10x200	578293	200	10	M10	25	200	135	115	17	25	45	25
IFA 12x75	578267	75	12	M12	40	75	5	—	19	35	—	25
IFA 12x80	578294	80	12	M12	40	80	10	—	19	35	—	25
IFA 12x90	578268	90	12	M12	40	90	20	—	19	35	—	25
IFA 12x100	578295	100	12	M12	40	100	30	10	19	35	55	25
IFA 12x110	578269	110	12	M12	40	110	40	20	19	35	55	25
IFA 12x120	578296	120	12	M12	40	120	50	30	19	35	55	25
IFA 12x140	578270	140	12	M12	40	140	70	50	19	35	55	25
IFA 12x150	578297	150	12	M12	40	150	80	60	19	35	55	25
IFA 12x160	578298	160	12	M12	40	160	90	70	19	35	55	25
IFA 12x180	578299	180	12	M12	40	180	110	90	19	35	55	25
IFA 12x200	578300	200	12	M12	40	200	130	110	19	35	55	25
IFA 12x220	578301	220	12	M12	40	220	150	130	19	35	55	25
IFA 12x240	578302	240	12	M12	40	240	170	150	19	35	55	25
IFA 12x250	578271	250	12	M12	40	250	180	160	19	35	55	25
IFA 16x105	578303	105	16	M16	100	105	15	—	24	50	—	20
IFA 16x125	578304	125	16	M16	100	125	35	5	24	50	80	20
IFA 16x140	578305	140	16	M16	100	140	50	20	24	50	80	10
IFA 16x145	578272	145	16	M16	100	145	55	25	24	50	80	10
IFA 16x170	578273	170	16	M16	100	170	80	50	24	50	80	10
IFA 16x180	578306	180	16	M16	100	180	90	60	24	50	80	10
IFA 16x200	578307	200	16	M16	100	200	110	80	24	50	80	10
IFA 16x220	578274	220	16	M16	100	220	130	100	24	50	80	10
IFA 20x120	578275	120	20	M20	200	120	5	—	30	75	—	10
IFA 20x160	578308	160	20	M20	200	160	40	20	30	75	95	10
IFA 20x170	578276	170	20	M20	200	170	40	30	30	75	95	10
IFA 20x200	578309	200	20	M20	200	200	80	60	30	75	95	10
IFA 20x220	578310	220	20	M20	200	220	100	80	30	75	95	10

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Load table

Recommended loads of a single anchor¹⁾ in normal concrete of strengt class C20/25.

Type	Material / surface ³⁾	Effective anchor- aged depth	Minimum member thickness	Drill hole diameter	Drill hole diame- ter in fixture ²⁾	Installation torque	Recommended tension (N_{rec}), Shear loads (V_{rec}), minimum spacing (s_{min}) and edge distances (c_{min})			
		h_{ef} [mm]	h_{min} [mm]	d_0 [mm]	d_f [mm]	T_{inst} [Nm]	N_{rec} ³⁾ [kN]	V_{rec} ³⁾ [kN]	s_{min} ³⁾ [mm]	c_{min} ³⁾ [mm]
IFA 6	zp	25	100	6	8	4	1.3	1.3	80	40
	zp	30	100	6	8	4	2.1	1.7	100	50
IFA 8	zp/shrd	25	100	8	10	10	1.4	1.4	80	40
	zp/shrd	35	100	8	10	10	2.8	2.8	90	45
IFA 10	zp/shrd	25	100	10	13	25	1.8	1.8	90	45
	zp/shrd	35	100	10	13	25	2.8	2.8	120	60
	zp/shrd	45	100	10	13	25	3.8	3.8	150	75
IFA 12	zp/shrd	35	100	12	15	40	3.2	3.2	120	60
	zp/shrd	45	100	12	15	40	4.4	4.4	150	75
	zp/shrd	55	110	12	15	40	5.8	5.8	180	90
IFA 16	shrd	45	100	16	19	100	4.4	4.4	150	75
	zp	50	100	16	19	100	4.4	4.4	150	75
	shrd	60	120	16	19	100	6.2	6.2	200	100
	zp	65	130	16	19	100	6.2	6.2	200	100
	shrd	75	150	16	19	100	8.5	8.5	240	120
	zp	80	160	16	19	100	8.5	8.5	240	120
IFA 20	shrd	70	150	20	23	200	8.0	-	210	105
	zp/shrd	75	150	20	23	200	9.7	9.7	240	120
	zp/shrd	95	190	20	23	200	13.5	13.5	300	150
IFA 24	zp	95	190	24	28	260	15.0	-	300	150
	zp	120	240	24	28	260	16.0	-	360	180

¹⁾ The partial safety factors for material resistance as well as a partial safety factor for load actions of $\gamma_L = 1.4$ are considered. As a single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h$ and an edge distance $c \geq 1.5 \times h_{ef}$

²⁾ For push-through installation.

³⁾ As recommended loads are given in the table, combinations of tensile and shear loads, bending moments and reduced edge and axial spacings (anchor groups) can not be carried out.