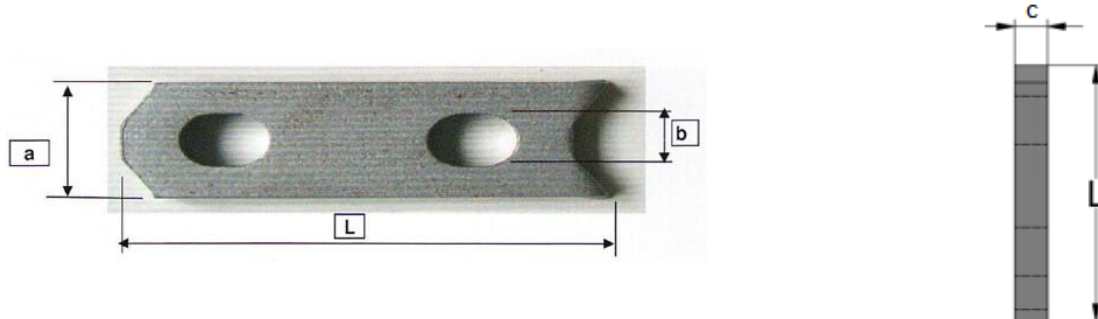


## 2 - HOLE ANCHOR – HAF

This anchor provides efficient anchorage for thin panels as well as for large slabs or other precast elements. The anchor is designed for workload range 0.7 t to 22 t with a hole for extra reinforcement steel.



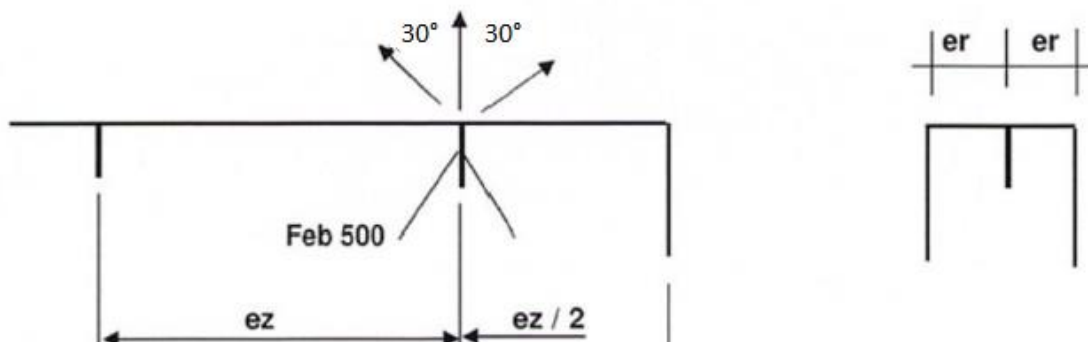
### Load Capacity, Installation dimensions of the anchor HAF

The capacity loads are axial with breakage factor of safety equal to 3 times the working load. A rebar must be passed through the cross hole to transfer the load into the concrete.

Finishing: Black (SB) or Hot Deep Galvanised (HDG)

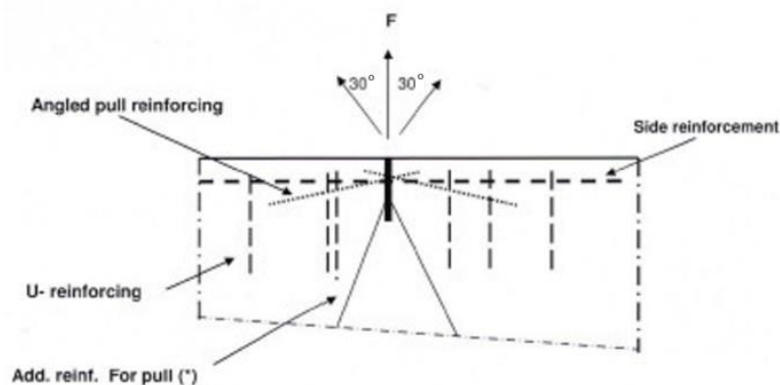
Designation HAF	Load group Tonnes	Anchor length mm	Spacing (ez) Betw. anchors	Min. thickness (2 x er) unit	Pull (Kg) F < 30°	Angled pull (Kg) F > 30°	L x a x b x c
HAF-014-090	2,5	90	500	80	1.400	1.120	90 x 30 x 14 x 6
HAF-020-090		90	600	90	2.000	1.600	90 x 30 x 14 x 8
HAF-025-090		90	600	100	2.500	2.000	90 x 30 x 14 x 10
HAF-030-120	5,0	120	650	100	3.000	2.400	120 x 40 x 18 x 10
HAF-040-120		120	700	110	4.000	3.200	120 x 40 x 18 x 12
HAF-050-120		120	750	120	5.000	4.000	120 x 40 x 18 x 15
HAF-075-160	10,0	160	1200	130	7.500	6.000	160 x 60 x 26 x 16
HAF-100-170		165	1200	140	10.000	8.000	170 x 60 x 35 x 20
HAF-140-240	26,0	240	1500	160	14.000	11.200	240 x 80 x 35 x 26
HAF-220-300		300	1500	180	22.000	17.600	300 x 90 x 35 x 30
HAF-260-300		300	1500	200	26.000	20.800	300 x 120 x 65 x 30

*Required reinforcement for 2 Hole Flat Lifting Anchors, concrete strength > 15 N/mm<sup>2</sup>*



## Load Capacity, Installation dimensions of the anchor HAF

Pull < 30°



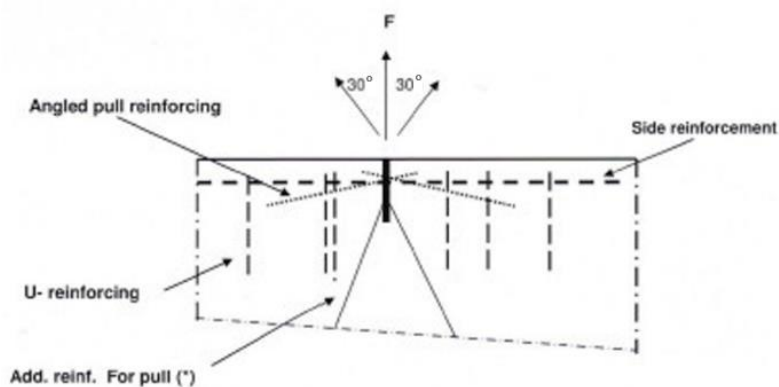
Designation HAF	Load group Tonnes	Add. reinf. (*) for pull d x l mm	Meshreinf. Q both sides	Side reinforcement	U- reinforcing N x d x length mm
HAF-014	2,5	1x diam. 10 x 650	Q 131	constructive	2 x d.6 x 400
HAF-020		1x diam. 12 x 800	Q 131	constructive	2 x d.6 x 500
HAF-025		1x diam. 12 x 1000	Q 131	constructive	2 x d.8 x 600
HAF-030	5,0	1x diam. 14 x 1000	Q 131	constructive	2 x d.8 x 700
HAF-040		1x diam. 16 x 1200	Q 131	constructive	2 x d.8 x 700
HAF-050		1x diam. 16 x 1500	Q 131	constructive	2 x d.10x 800
HAF-075	10,0	1x diam. 20 x 1750	Q 131	diam 10	2 x d.10 x 800
HAF-100		1x diam. 25 x 1850	Q 131	diam 12	4 x d.10 x 800
HAF-140	26,0	1x diam. 28 x 2350	Q 131	diam 14	4 x d.10 x 1000
HAF-220		1x diam. 28 x 3000	Q 131	diam 14	4 x d.12 x 1200
HAF-260		1x diam. 28 x 3050	Q 131	diam 14	6 x d.12 x 1200

Required reinforcement for 2 Hole Flat Lifting Anchors, concrete strength > 15 N/mm<sup>2</sup>

(\*) reinforcement: Steel rebar Feb 500 or BSt 500S

## Load Capacity, Installation dimensions of the anchor HAF

### Pull >30°



Designation HAF	Load group Tonnes	Add. reinf. (*) for pull d x l mm	Meshreinf. Q both sides	Side reinforcement	U- reinforcing N x d x length mm	Angled pull reinf. n x d x length mm
HAF-014	2,5	1x diam. 10 x 650	Q 131	8	4 x d.6 x 400	6 x 900
HAF-020		1x diam. 12 x 800	Q 131	8	4 x d.6 x 500	8 x 950
HAF-025		1x diam. 12 x 1000	Q 131	10	4 x d.8 x 600	8 x 1200
HAF-030	5,0	1x diam. 14 x 1000	Q 131	10	4 x d.8 x 700	10 x 1150
HAF-040		1x diam. 16 x 1200	Q 131	12	4 x d.8 x 700	10 x 1500
HAF-050		1x diam. 16 x 1500	Q 131	12	4 x d.10 x 800	12 x 1550
HAF-075	10,0	1x diam. 20 x 1750	Q 131	12	4 x d.10 x 800	14 x 2000
HAF-100		1x diam. 25 x 1850	Q 131	14	6 x d.10 x 800	16 x 2300
HAF-140	26,0	1x diam. 28 x 2350	Q 131	14	8 x d.10 x 1000	20 x 2600
HAF-220		1x diam. 28 x 3000	Q 131	16	8 x d.10 x 1200	25 x 3000
HAF-260		1x diam. 28 x 3050	Q 131	16	8 x d.12 x 1200	28 x 3450

Required reinforcement for 2 Hole Flat Lifting Anchors, concrete strength > 15 N/mm<sup>2</sup>

(\*) reinforcement: Steel rebar Feb 500 or BSt 500S