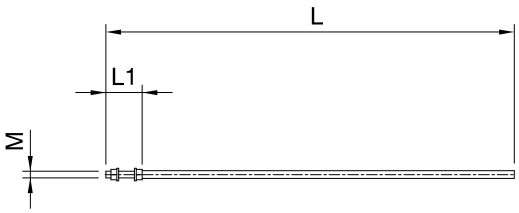
Foundation bolt 1111

Type	M (mm)	L (mm)	L1 (mm)	AF (mm)	F_{Rd} (kN)	Wt (kg)
30.1800	30	1800	160	46	135	10
30.2400	30	2400	160	46	135	13
36.2200	36	2200	180	55	195	16
36.2800	36	2800	180	55	195	22
39.2500	39	2500	180	60	248	22



Note
Spacer 1112 onw
Insulating set 6311
Other lengths on request.

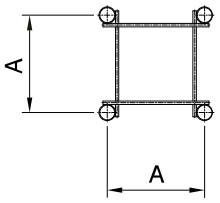
Drawing number
318.00017

Ordering information
M36, Length 2800 mm
1111.36.2800 Foundation bolt

Spacer for 4 foundation bolts 1112

Material
Fe black

Type	A (mm)	Wt (kg)
34	340	1.6
50	500	1.8



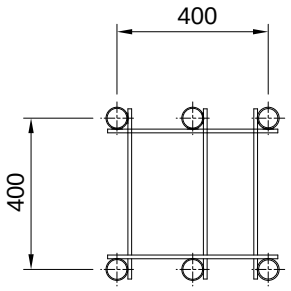
Drawing number
328.00038

Ordering information
Bolt spacing 340 mm
1112.34 Spacer for 4 foundation bolts

Spacer for 6 foundation bolts 1112.1

Material
Fe black

Weight
Wt (kg) = 2.8



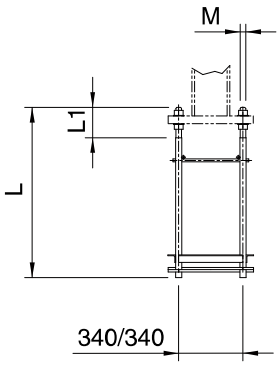
Drawing number
328.00488-1

Ordering information

1112.1 Spacer for 6 foundation bolts

Foundation bolts with frame 1114

Type	M (mm)	L (mm)	L1 (mm)	AF (mm)
30	30	900	160	46
36	36	1100	180	55



Note
Insulating set 6311

Special version:
Frames of other lengths possible.

Resistance
Transmittable forces depending on local conditions.

Drawing number
328.00071, .00072

Ordering information
for M30 foundation bolts
1114.30 Foundation bolts with frame

Spacer for cable adjustment 1115

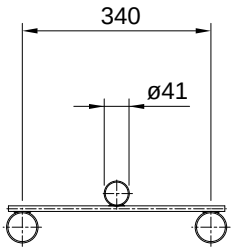
Material
Fe black

Type	Wt (kg)
34.1	0.8
34.2	1.0

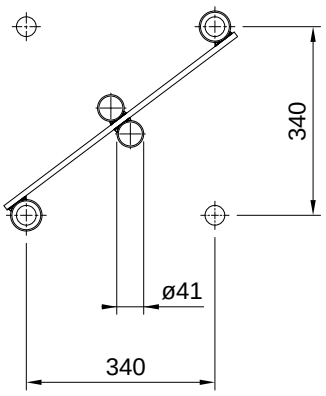
Drawing number
328.00123, .00138

Ordering information
Distance between bolts 340 mm
1115.34.1 Spacer for cable adjustment

1115.34.1



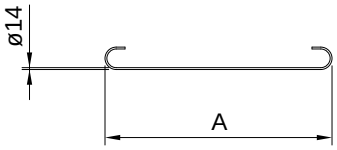
1115.34.2



Reinforcement bar 1123

Material
Reinforcing steel III

Type	A (mm)
15	1500
17	1700
19	1900
20	2000
22	2200
24	2400
26	2600
27	2700
30	3000
32	3200
35	3500



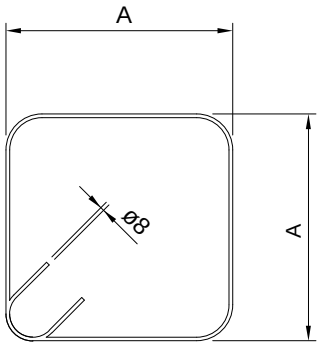
Drawing number
311.00152

Ordering information
Length 1500 mm
1123.15 Reinforcement bar

Reinforcement link 1124

Material
Reinforcing steel III

Type	A (mm)
49	490
64	640



Drawing number
311.00153, .00154

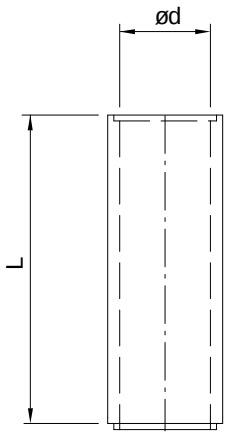
Ordering information
Link 490 mm
1124.49 Reinforcement link

Concrete well casting for mast foundation

1125

Material
Reinforced concrete

Type	d (mm)	L (mm)
15.05	150	500
15.10	150	1000
20.05	200	500
20.10	200	1000
30.05	300	500
30.10	300	1000
40.05	400	500
40.10	400	1000
50.05	500	500
50.10	500	1000
60.05	600	500
60.10	600	1000



Note
Cover 1126

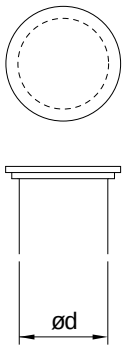
Ordering information
Core ø 300 mm
1125.30.10 Concrete well casting for mast foundation

Cover for well casing

1126

Material
Reinforced concrete

Type	d (mm)
15	150
20	200
30	300
40	400
50	500
60	600



Ordering information
Cover ø 300 mm
1126.30 Cover for well casing

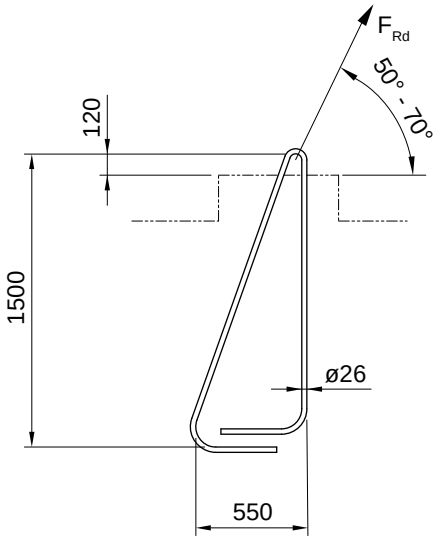
Note
Insulating set 6321

Associated parts
Anchor rope ø 20 mm 1311
Triangular clevis link for
2 anchors 1321

Resistance
F_{Rd} (kN) = 41

Drawing number
331.00002

Ordering information
1131 Foundation anchor stirrup



Mast range
HEB profiles 160-260
Lengths 4,00 - 16,00 m

Type	HEB (mm)	Wt (kg/m)	A (mm)
16	160	42.6	100
18	180	51.2	100
20	200	61.3	110
22	220	71.5	130
24	240	83.2	150
26	260	93.0	150

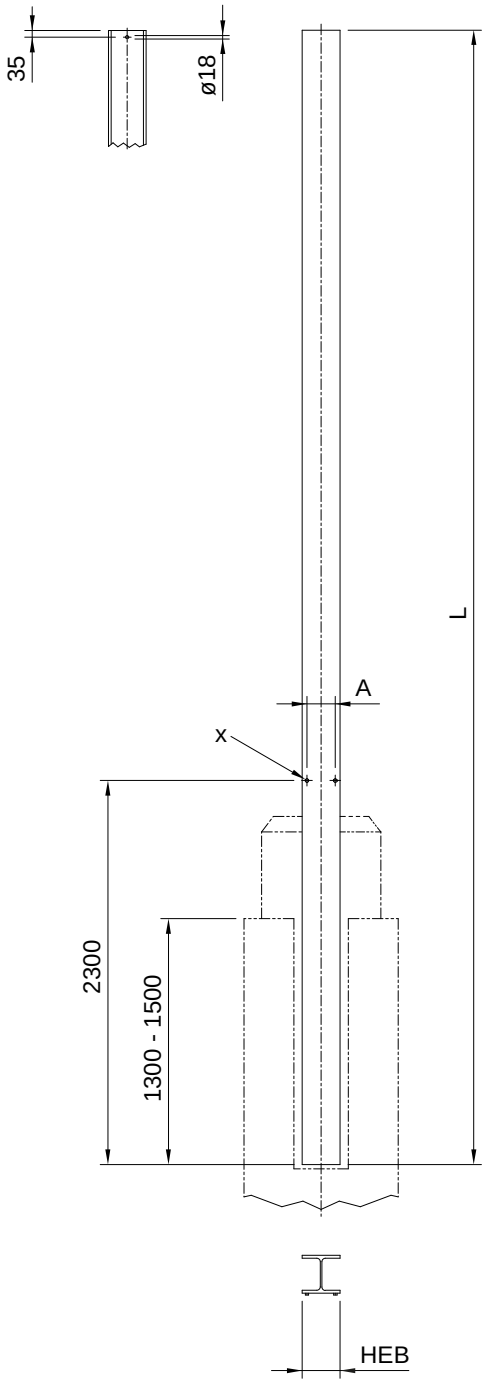
Note
Available in 0,50 m steps.
When ordering state length L.
Max. Note load for transport by helicopter.
x = bonding point for earthing 2 x M12

Associated parts
Mast extension 1231 onw

Fasteners
Fastening to bridge/wall 1411 onw

Drawing number
328.00515, .00517, .00519, .00521, .00523, .00525

Ordering information
HEB 180, Length 8,00 m
1211.18.080 Wide-flanged mast



Mast range
HEB profiles 160-260
Lengths 5,00 - 16,00 m

Type	HEB (mm)	Wt (kg/m)	M (mm)	d (mm)	t (mm)
16	160	42.6	30	39	35
18	180	51.2	30	39	35
20	200	61.3	30	39	35
22	220	71.5	30	39	35
24	240	83.2	36	45	40
26	260	93.0	36	45	40

Note
Available in 0,50 m steps.
When ordering state length L.
Max. Note load for transport by helicopter.
x = bonding point for earthing 2 x M12

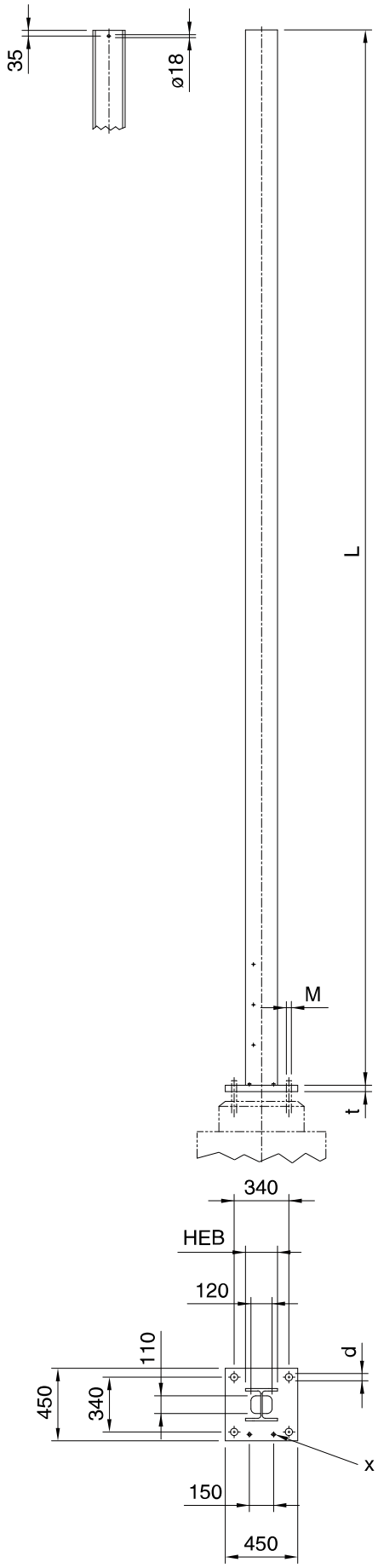
Additional weight for base plate:
HEB 160-220 50 kg
HEB 240-260 60 kg

Associated parts
Mast extension 1231 onw
Foundation material 1111 onw
Insulating set 6311

Fasteners
Connection on
bridge/wall 1414 onw

Drawing number
328.00240, .00241, .00267, .00270,
.00272, .00274

Ordering information
HEB 240, Length 12,00 m
1212.24.120 Wide-flanged mast with base plate



Mast range
HEB profiles 220-260
Lengths L = 8,00 - 16,00 m
Lenghts L1 = 5,00, 6,00, 7,00, 8,00, 9,00 m

Type	HEB (mm)	Wt (kg/m)	M (mm)	d (mm)	t (mm)
22	220	71.5	30	39	35
24	240	83.2	36	45	40
26	260	93.0	36	45	40

HEB	L1 = 5 m (kg)	L1 = 6 m (kg)	L1 = 7 m (kg)	L1 = 8 m (kg)	L1 = 9 m (kg)
220	117	141	165	188	212
240	129	155	180	206	232
260	141	169	197	225	254

Note
Available in 0,50 m steps.
When ordering state length L ans L1
Other lengths available on request
Note load for transport by helicopter.
x = bonding point for earthing 2 x M12

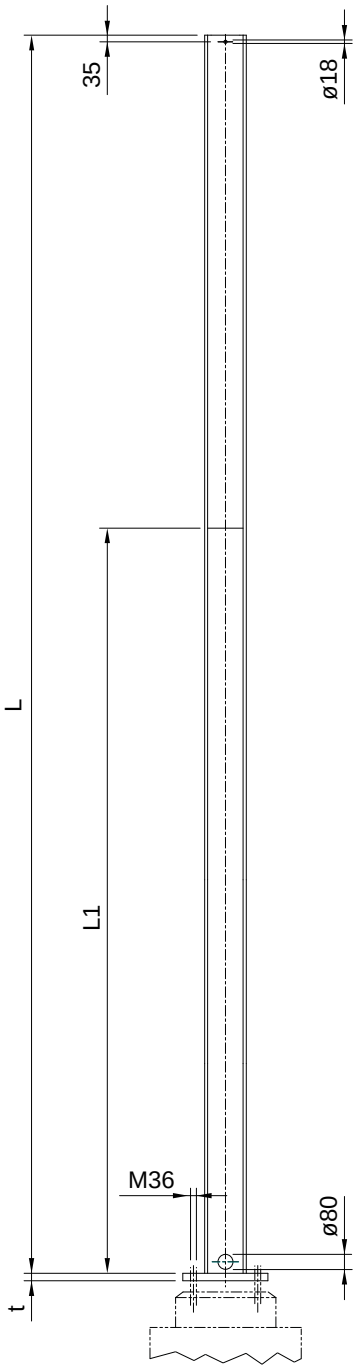
Additional weight (both reinforcement plates) L1
see table
Additional weight for base plate:
Base plate t=35 mm 50 kg
Base plate t=40 mm 60 kg

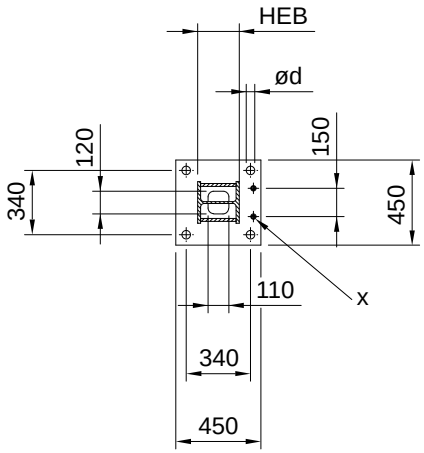
Associated parts
Mast extension 1231 onw
Foundation material 1111 onw
Insulating set 6311

Fasteners
Connection on
bridge/wall 1414 onw

Drawing number
328.00548-2 - .00548-6, .00550-2 - .00550-6,
328.00587, .00587-1 - .00587-4

Ordering information
HEB 240, Length 12,00 m, L1 7,00 m
1222.1.24.120.70 Wide-flanged mast reinforced with base plate





Mast extension / wide flange section

1231

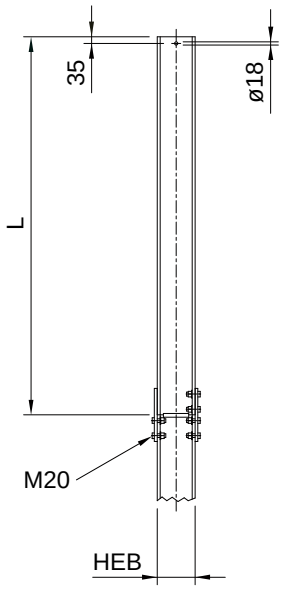
Mast range
HEB profiles 160-260
Lengths 1,00 - 2,50 m

Type	HEB (mm)	Wt (kg)
16	160	42.60
18	180	51.20
20	200	61.30
22	220	71.30
24	240	83.20
26	260	93.00

Note
Available in 0,50 m steps.
State length when ordering.

Drawing number
329.00080, .00083, .00086, .00089, .00092, .00095

Ordering information
HEB 160, Length 2,50 m
1231.16.25 Mast extension / wide flange section



Mast extension - hollow section

1232

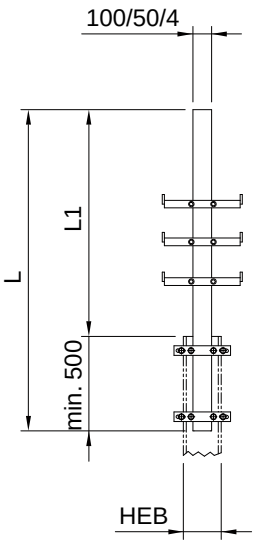
Mast range
HEB profiles 160 / 180-240 / 260

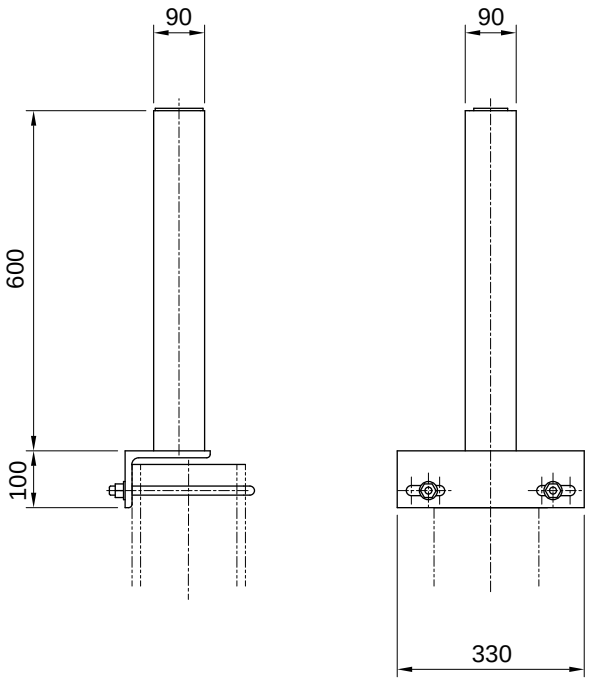
Type	L (m)	L1 (m)	Wt (kg)	Rungs
25	2.5	1.8	41	1
32	3.2	2.5	54	3

Fasteners
Supplied complete with U-Bolts.

Drawing number
329.00058 - .00063, .00096, .00097

Ordering information
Length 3,2 m, on HEB 240
1232.32.24 Mast extension - hollow section





Mast range
HEB-profiles 160-260

Fasteners
Supplied complete with U-bolts

Drawing number
329.00137

Ordering information
for HEB 220
1233.22 Bird protection support on mast head

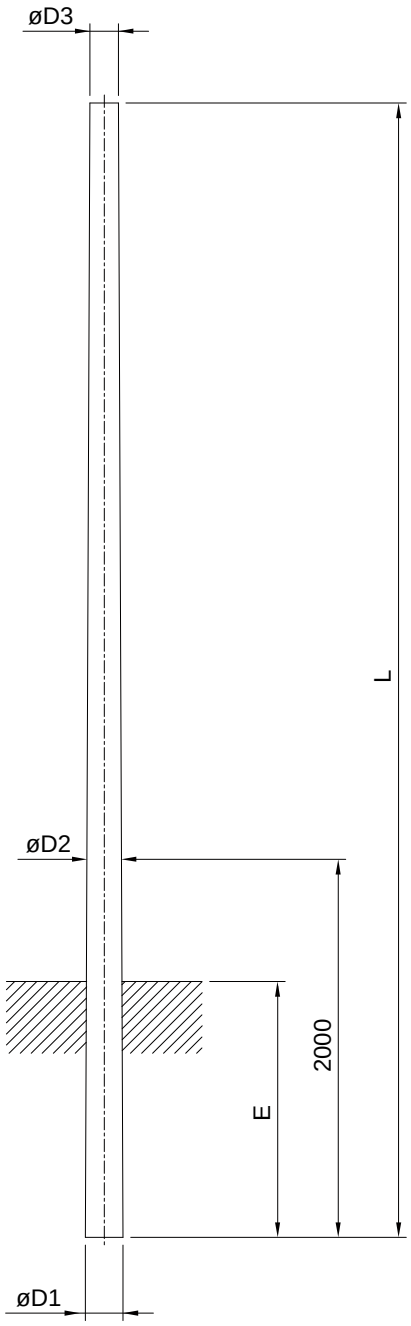
Wooden pole 1241

Material
Impregnated wood

Type	L (m)	D1 (mm)	D2 (mm)	D3 (mm)	Wt (kg)
07N	7	170 - 180	150 - 160	110 - 120	78
07S	7	190 - 200	170 - 180	130 - 140	104
08N	8	180 - 190	160 - 170	120 - 140	111
08S	8	200 - 210	180 - 190	140 - 150	130
09N	9	190 - 200	170 - 180	120 - 140	130
09S	9	210 - 220	190 - 200	150 - 160	169
10N	10	200 - 210	180 - 190	120 - 140	163
10S	10	220 - 230	200 - 210	150 - 160	195
11N	11	210 - 220	190 - 200	130 - 150	195
11S	11	230 - 240	210 - 220	160 - 170	234
12N	12	220 - 230	200 - 210	130 - 150	228
12S	12	240 - 250	220 - 230	130 - 170	273
13N	13	230 - 240	210 - 220	140 - 160	267
13S	13	250 - 260	230 - 240	170 - 180	306
14N	14	240 - 250	220 - 230	140 - 160	299
14S	14	260 - 280	240 - 250	170 - 180	338
15N	15	250 - 260	230 - 240	150 - 170	338
15S	15	270 - 290	250 - 260	180 - 190	377

Note
Version N: Normal / S: Strong
Mechanical strength properties and E
in accordance with high-voltage regulation.
Extra strong poles available on request.

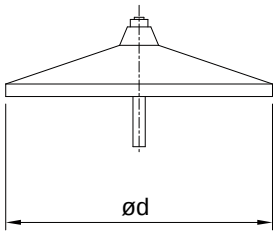
Ordering information
Length 12 m, strong version
1241.12S Wooden pole



Wooden pole cap 1242

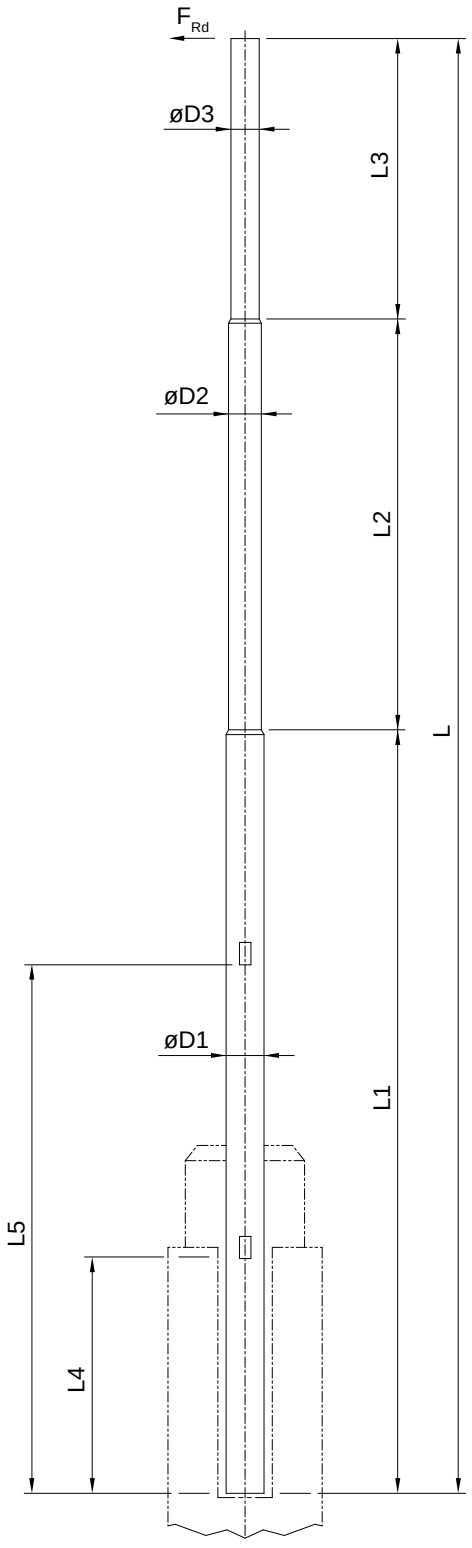
Type	d (mm)
16	160
18	180

Ordering information
for ø 180 mm
1242.18 Wooden pole cap

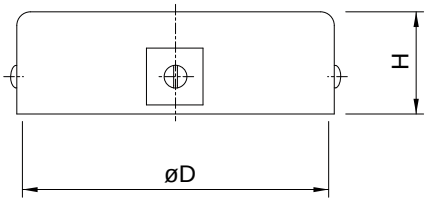


Note
State top load (F_{Rd}) and length (L, L4 and L5) in your inquiry.
The values L1 - L3 and D1 - D3 are indicated with the offer.
Top load F_{Rd} min.6,0 kN
Top load F_{Rd} max.18,0 kN
Length L min. 8,0 m
Length max. 12,0 m
Available in steps of 0,5 m
Other lenghts available on requeset.
Cable entry and doors on request.

Ordering information
Length 10,00 m, F_{Rd} 8 kN
1251.10.08 Tubular steel pole - 3 sections



Type	D (mm)	H (mm)
13	101 - 130	45
16	131 - 160	45
19	161 - 190	45
22	191 - 220	70
25	221 - 250	70
28	251 - 280	70
31	281 - 310	70

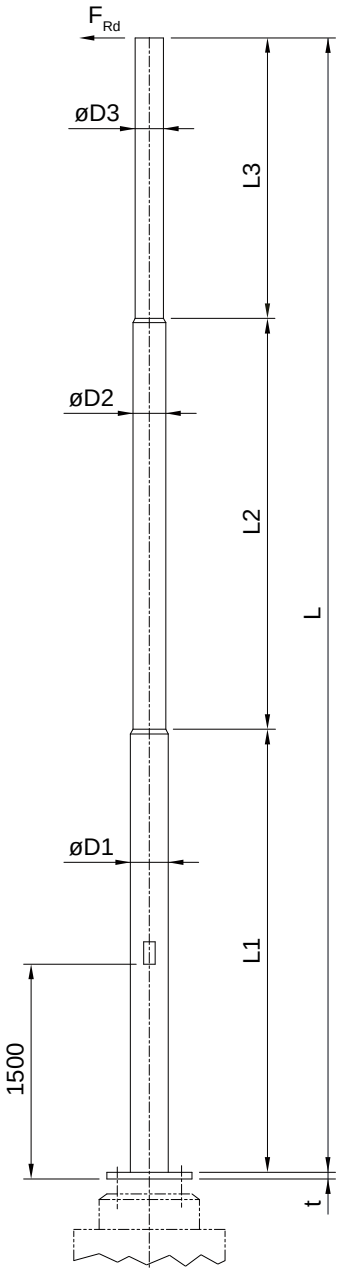


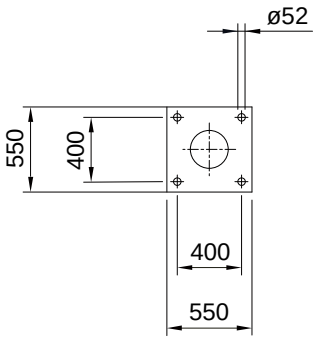
Drawing number
327.00001

Ordering information
For 150 mm ø
1252.16 Tubular pole cap

Note
State top load (F_{Rd}) and length (L)
in your inquiry.
The values t, L1 - L3 and D1 - D3 are
indicated with the offer.
Top load F_{Rd} min.6,0 kN
Top load F_{Rd} max.18,0 kN
Length L min. 8,0 m
Length L max. 12,0 m
Other lengths available on request.
Cable entr and doors on request.

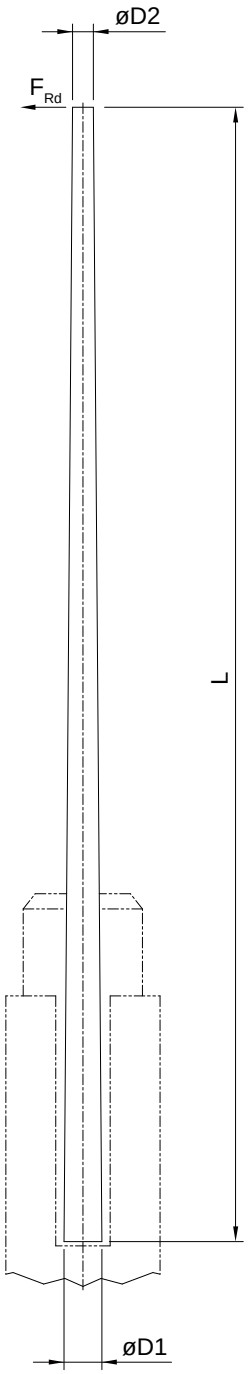
Ordering information
Length 10,00 m, F_{Rd} 6 kN
1253.10.06 Tubular steel pole - 3 sections with base plate





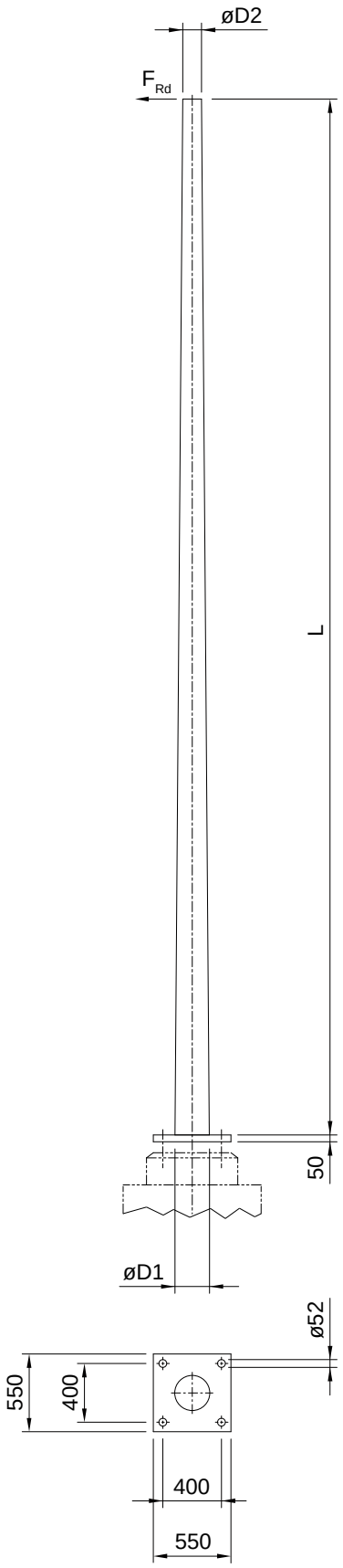
Note
State top load (F_{Rd}) and length (L) in your inquiry.
The values D1 and D3 are indicated with the offer.
Top load F_{Rd} min.6,0 kN
Top load F_{Rd} max.18,0 kN
Length L min.8,0 m
Länge L max. 12,0 m
Other lengths available on request.
Cable entry and doors on request.

Ordering information
Length 12,00 m, F_{Rd} 7 kN
1254.12.07 Tubular steel pole conical



Note
State top load (F_{Rd}) and length (L) in your inquiry.
The values D1 and D3 are indicated with the offer.
Top load F_{Rd} min.6,0 kN
Top load F_{Rd} max.18,0 kN
Length L min.8,0 m
Length L max. 12,0 m
Available in steps of 0,5 m.
Other lengths available on request.
Cable entry and doors on request.

Ordering information
Length 8,00 m, F_{Rd} 6 kN
1255.08.06 Tubular steel pole conical with base plate

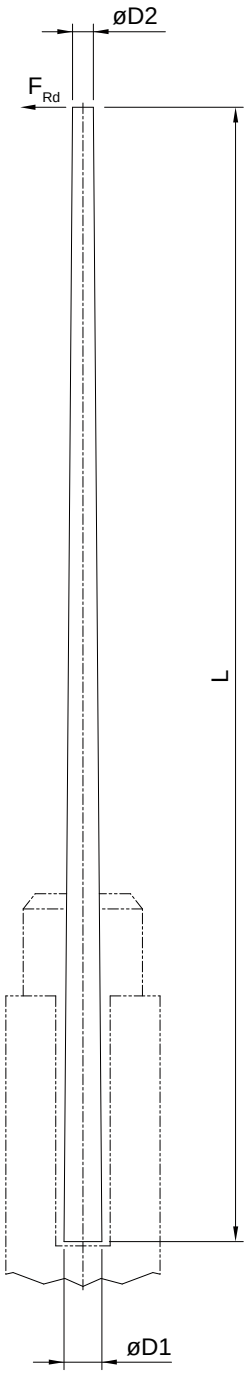


Material
Reinforced concrete

Type	L (m)	F_{Rd} (kN)	Wt (kg)
09.06	9	6.0	190
09.10	9	10.0	215
09.14	9	14.0	215
09.18	9	18.0	265
10.06	10	6.0	200
10.10	10	10.0	225
10.14	10	14.0	250
10.18	10	18.0	250
11.10	11	10.0	235
11.14	11	14.0	235

Note
For foundations with insert.
Other dimensions on request.
The values D1 and D2 are indicated with the offer.

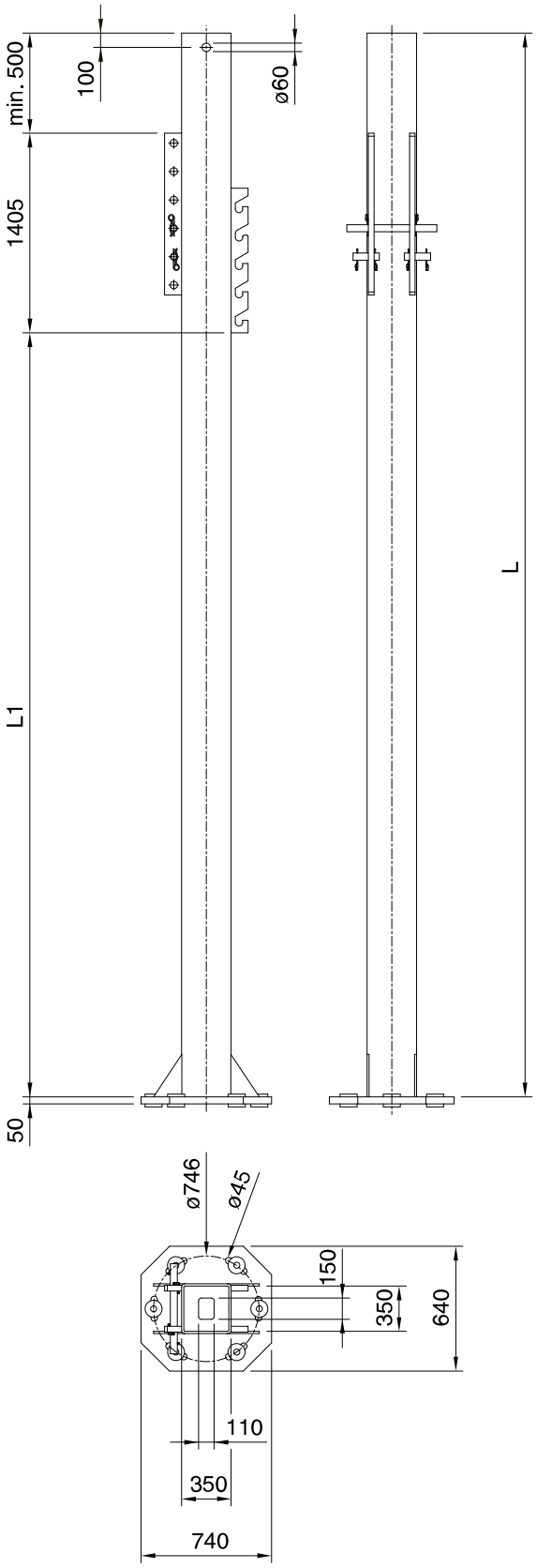
Ordering information
Length 11 m, F_{Rd} 14 kN
1261.11.14 Concrete pole



Note
Order possible on request
State length L and L1 when ordering.

Associated parts
TTC-Boom 21101

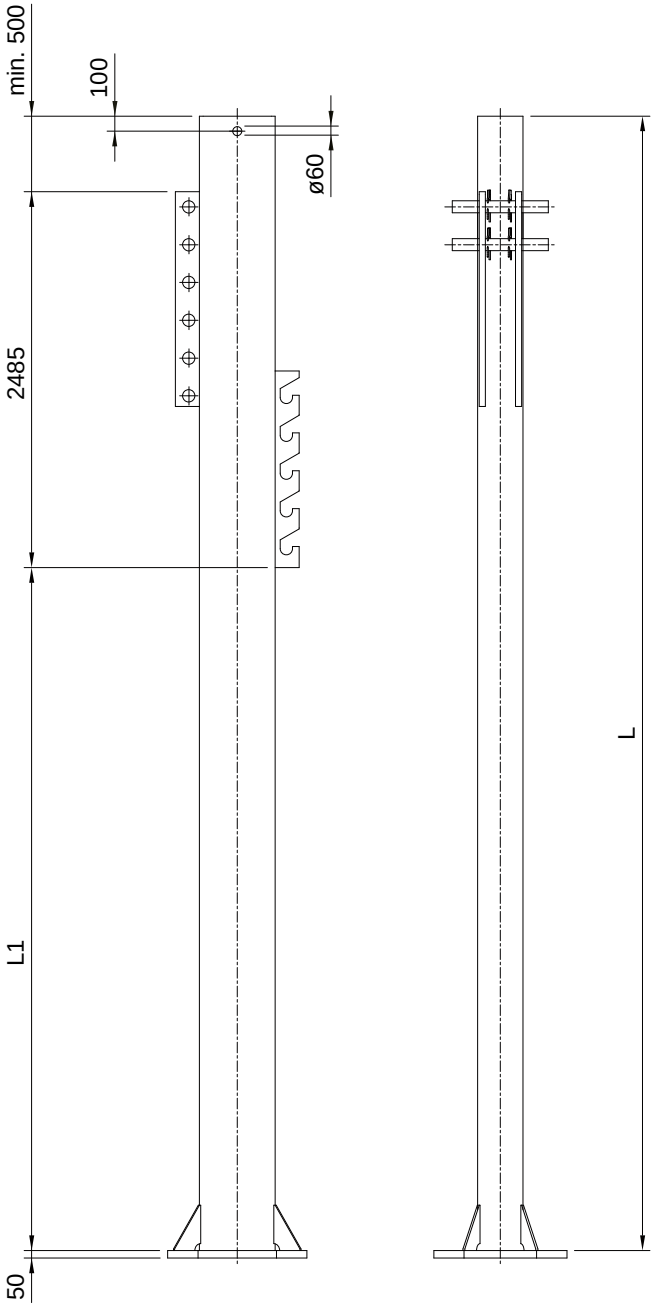
Drawing number
B.01.01.03

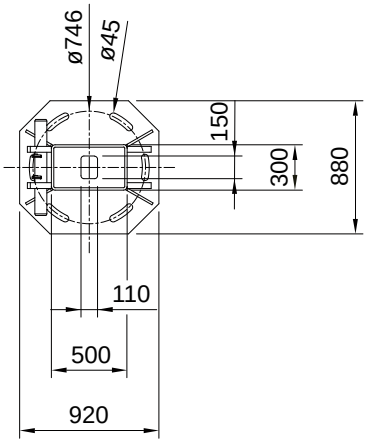


Note
Order possible on request
State length L and L1 when ordering.

Associated parts
TTC-Boom long 21102

Drawing number
328.00401

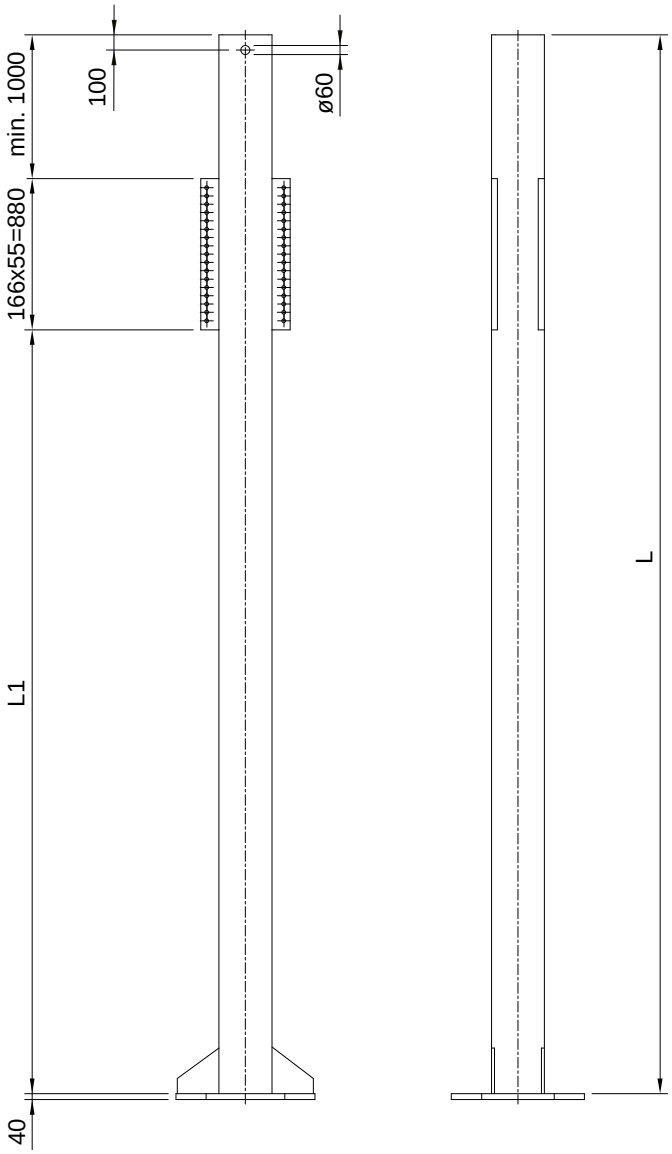


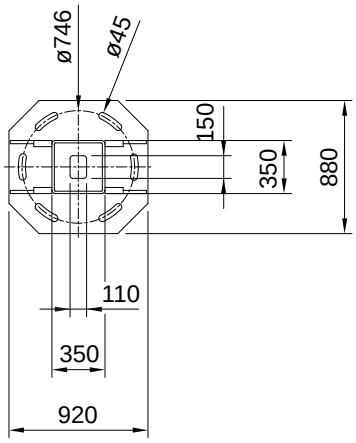


Note
With Mast Base Plate for 6 x Bolt M39
on 762 mm Diameter x 16 mm
thick Tubular Pile Foundation
Order possible on request
State length L and L1 when ordering.

Associated parts
Support Bracket for
Mono Anchor Boom WPE 450 22701
Mono Anchor Boom WPE 450 22704

Drawing number
328.00337

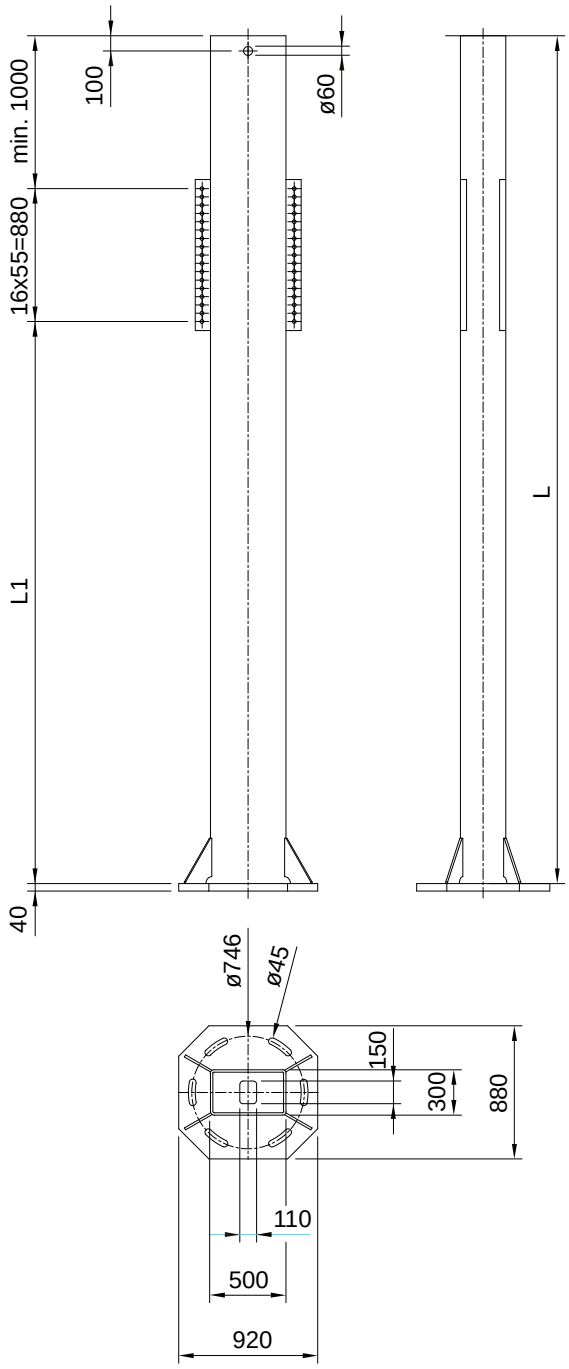




Note
With Mast Base Plate for 6 x Bolt M39
Order possible on request
State length L and L1 when ordering.

Associated parts
Support Bracket for
Mono Anchor Boom WPE 450 22701
Mono Anchor Boom WPE 450 22704

Drawing number
328.00336

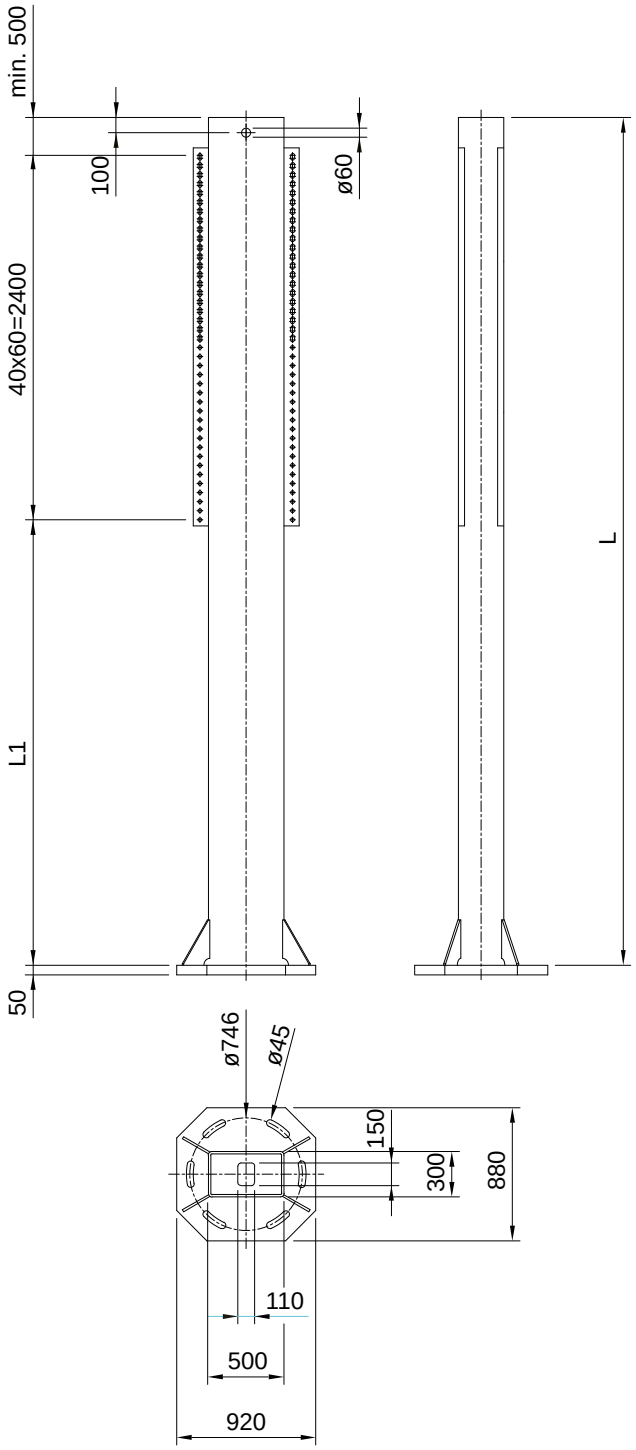


Note
With mast base plate for 6 x M39
for foundation ø 762x16 mm
Specify L and L1 when ordering.

Associated parts
Support Bracket for
Mono Anchor Boom WEB 450 22702
Mono Anchor Boom WEB 450 22705

Drawing number
328.00404

Ordering information
for length 9,50 m and L1 7,50 m
1283.95.75 Tubular mast 300 x 500
for Mono Anchor Boom WEB 450



Anchor rope ø 20 mm 1311

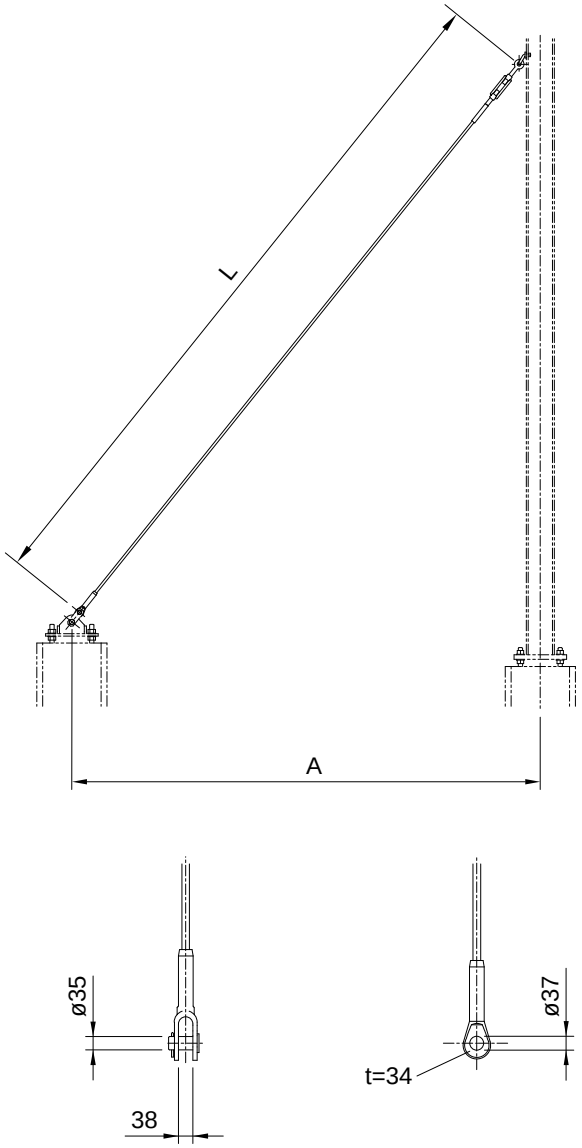
Type	Bottom connection
1	with deadend clevis type
2	with deadend eye type

Note
With turnbuckle M30
U-bolt for anchor rope
connection 1313 onw
Anchor foundation stirrup 1131
Insulation set (only for
Anchor rope Type 2) 6321
Triangular clevis link for
2 anchor rope (only for
Anchor rope Type2) 1321

Resistance
F_{Rd} (kN) = 104

Drawing number
331.00057, .00058

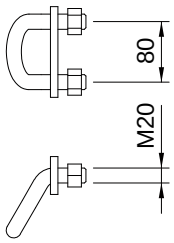
Ordering information
with deadend clevis type,
anchor rope L = 9,50 m
1311.1.09500 anchor rope ø 20 mm



Horizontal U-bolt for anchor rope connection 1313

Drawing number
331.00001

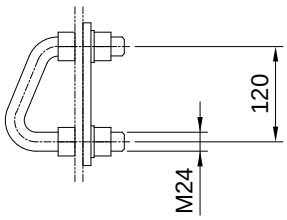
Ordering information
1313 Horizontal U-bolt for anchor rope connection



Vertical U-bolt for anchor rope connection 1314

Drawing number
331.00053

Ordering information
1314 Vertical U-bolt for anchor rope connection

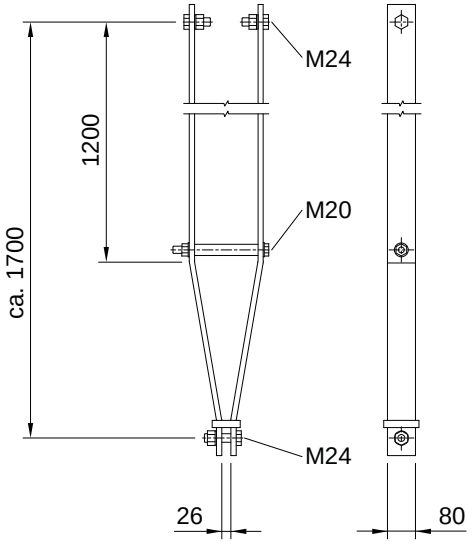


Anchor connecting clevis 1316

Type	HEB
16	160 - 180
20	200 - 220
24	240 - 260

Drawing number
331.00051

Ordering information
on HEB 200
1316.20 Anchor connecting clevis



Triangular clevis link for 2 anchors 1321

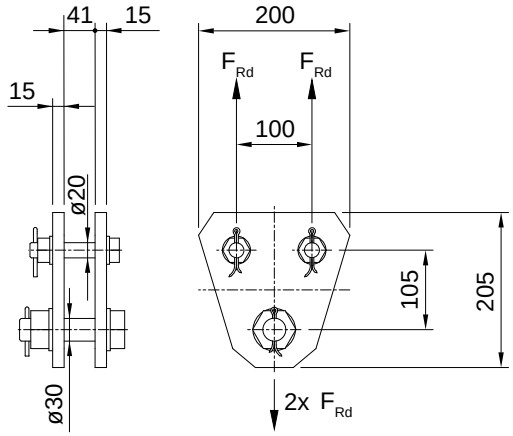
Type	Description
1	without insulating set
2	with insulating set

Resistance
F_{Rd} (kN) = 104

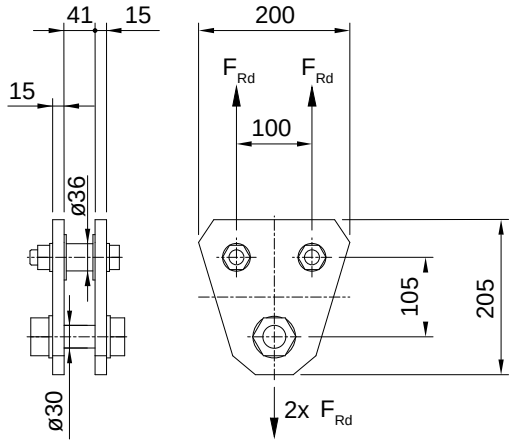
Drawing number
336.00033, .00036

Ordering information
without Insulating set
1321.1 Triangular clevis link for 2 anchors

1321.1



1321.2

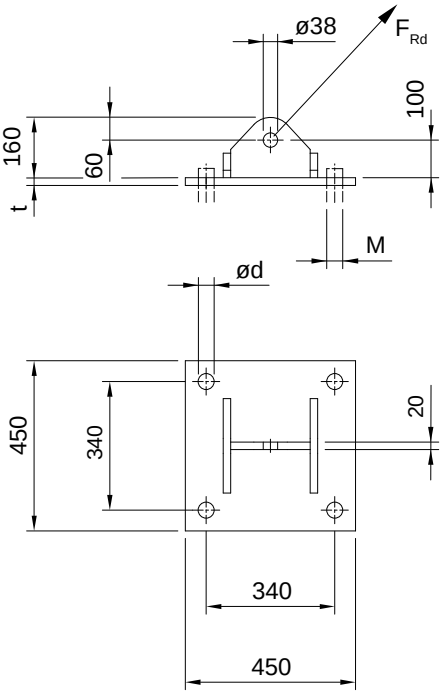


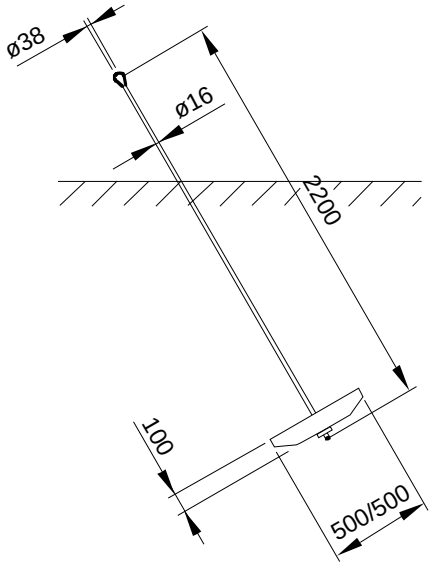
Anchor bracket for anchor rope on fondation 1323.1

Type	M (mm)	d (mm)	t (mm)	F_{Rd} (kN)
30	30	36	15	131
36	36	42	20	204

Drawing number
334.00200, .00201

Ordering information
for thread M 36
1323.1.36 Anchor bracket for anchor rope on fondation 4x M36





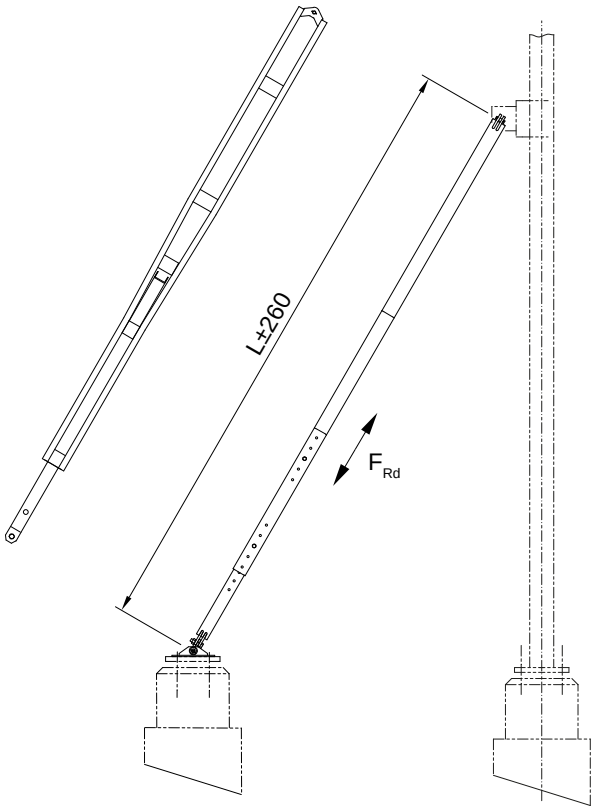
Note
The static proof is required in any case.

Weight
Wt (kg) = 54

Drawing number
331.00008, .00017

Ordering information
1332 Plate anchor

Type	L (m)	F_{Rd} (kN)	Wt (kg)
050	5.00	195	206
055	5.50	195	228
060	6.00	195	244
065	6.50	195	260
070	7.00	195	276
075	7.50	195	298
080	8.00	182	314
085	8.50	161	330
090	9.00	142	346
095	9.50	125	362
100	10.00	111	378
105	10.50	95	394
110	11.00	82	410

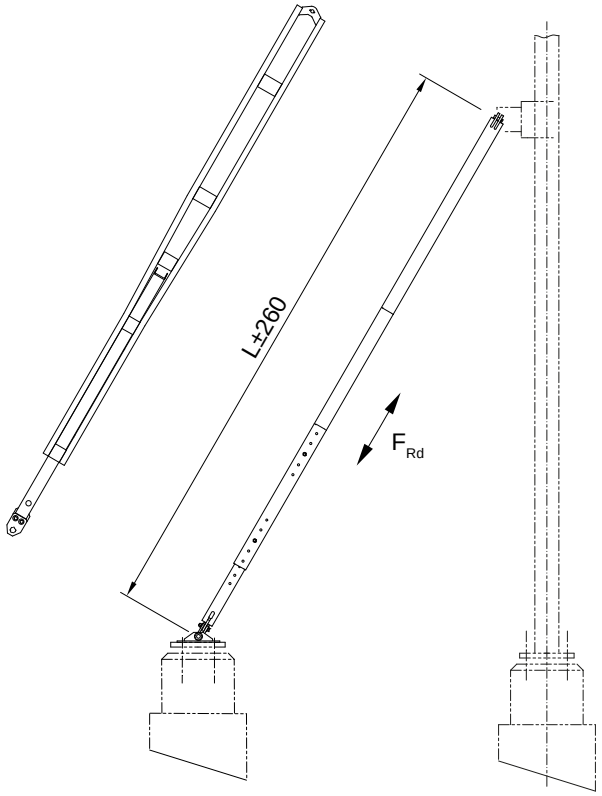


Note
Length L = adjustable in 20mm increments (max. ±260)

Mast bracket 1343.1
Strut connection to foundation 1348.1

Drawing number
334.00227, .00227-1, .00227-2

Ordering information
Length 9.5 m
1341.1.095 Telescopic strut non insulated



Type	L (m)	F_{Rd} (kN)	Wt (kg)
050	5.00	195	211
055	5.50	195	233
060	6.00	195	250
065	6.50	195	265
070	7.00	195	281
075	7.50	195	303
080	8.00	182	319
085	8.50	161	335
090	9.00	142	351
095	9.50	125	367
100	10.00	111	383
105	10.50	95	400
110	11.00	82	415

Note
Length L = adjustable in 20mm increments (max. ±260)

Mast bracket 1343.1
Strut connection to foundation 1348.1

Drawing number
334.00223, .00223-1, .00223-2

Ordering information
Length 9.5 m
1341.2.095 Telescopic strut insulated

Mast Bracket for telescopic strut 1343.1

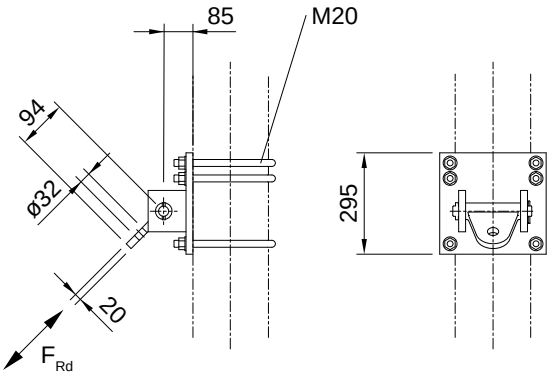
Mast range
HEB profiles 200 / 220 / 240 / 260

Fasteners
Supplied complete with U-bolts.

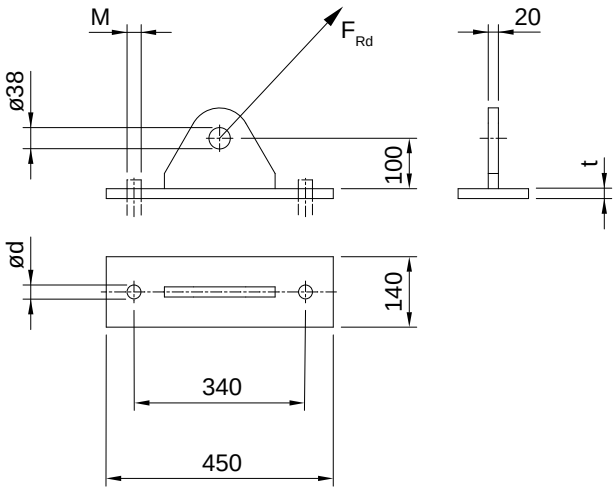
Resistance
F_{Rd}(kN) = 195

Drawing number
334.00215

Ordering information
on HEB 220
1343.1.22 Mast bracket for telscopic strut



Anchor bracket for anchor rope 1345.1



Type	M (mm)	d (mm)	t (mm)	F_{Rd} (kN)
24	24	28	20	36
30	30	38	25	65
36	36	42	30	102

Drawing number
334.00219, .00220, .00221

Ordering information
for thread M 36
1345.1.36 Anchor bracket for anchor rope for 2x screw M36

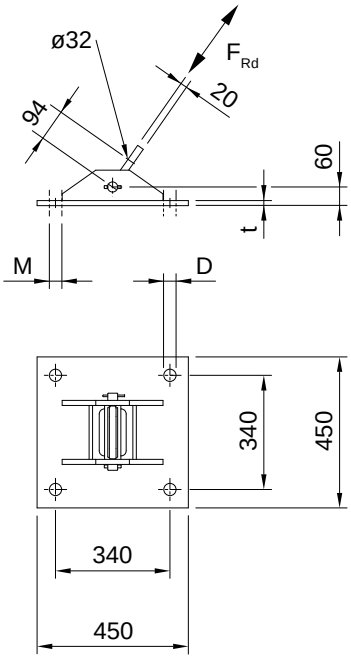
Foundation Bracket for Telescopic strut 1348.1

Type	M (mm)	D (mm)	t (mm)	F_{Rd} (kN)	Wt (kg)
30	30	37	15	136	32
36	36	43	20	213	39

Note
for 4 x Fondation bolts

Drawing number
334.00217-1, .00217-2

Ordering information
for thread M36
1348.1.36 Foundation Bracket for Telescopic strut



Mast connection to sloping wall 1411

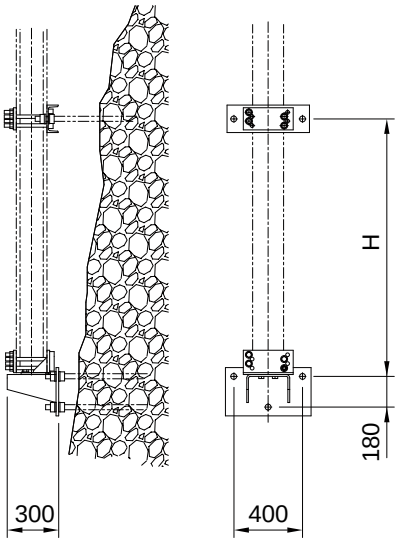
Mast range
HEB profiles 160-200 / 200-240

Note
Wall bolt 1441
Wall bolt pair 1442
H = according to local conditions
Assembly of Insulating set not possible

The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.

Drawing number
317.00047, .00047-6

Ordering information
for HEB 180
1411.18 Mast connection to sloping wall



Mast connection to wall 1412

Mast range
HEB profiles 160-200

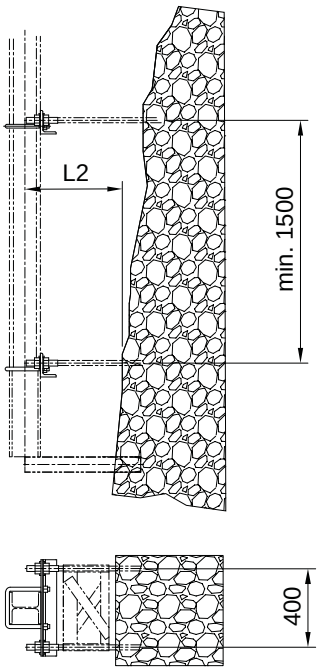
Note
L2 according to local conditions.
Wide-flange mast
Wall bolt pair 1442
Supplied compete with U-bolt.

The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.

Fasteners
Supplied complete with U-bolt.

Drawing number
317.00031

Ordering information
for HEB 200
1412.20 Mast connection to wall



Mast connection to concrete structure 1414

Type	M (mm)	Mast range
30	30	160 - 220
36	36	240 - 260

Note
Wall bolt 1441
Sleeve frame for mast
connection (6 x M 30) 1421
When ordering, please state
gradient and length.

Gradient positive (P) max. 15°
Gradient negative (N) max. 15°
For greater gradients 1415

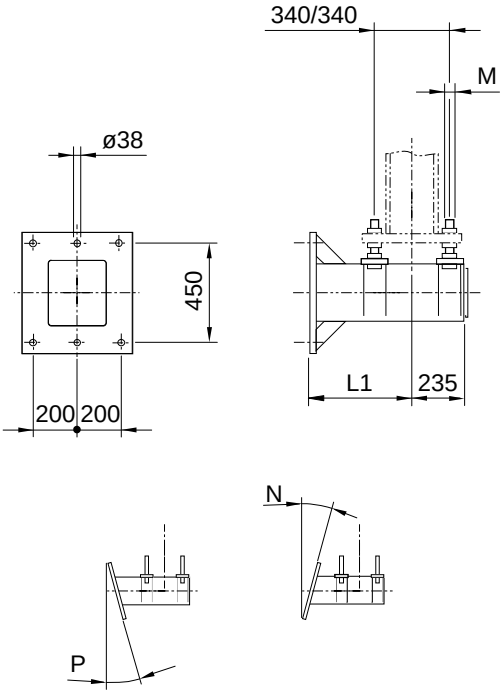
Length L1 according to local conditions.
Length min. 430 mm
Length max. 1000 mm

Wall-bolt M30 or hexagonal bolts
M 30x100 with washer M 30
must be ordered separately

The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.

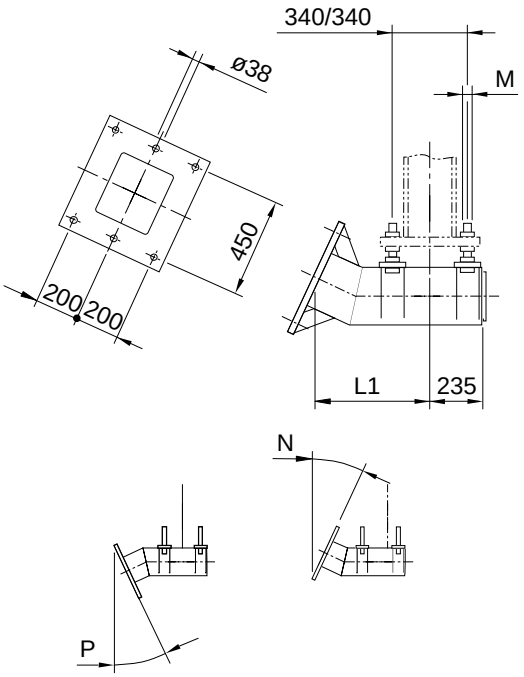
Drawing number
317.00156 - .00159, .00162, .00163

Ordering information
with thread M30, gradient positive 12°,
Length 550 mm
1414.30.P12.550 Mast connection to
concrete structure



Mast connection to concrete structure 1415

Type	M (mm)	Mast range
30	30	160 - 220
36	36	240 - 260



Note
Wall bolt 1441
Sleeve frame for mast
connection (6 x M 30) 1421
When ordering, please state
gradient and length.

Gradient positive (P) 16° - 50°
Gradient negative (N) 16° - 50°

Length L1 according to local conditions.
Length min. dependig on the angle of inclination
Length max. 1000 mm

Wall-bolt M30 or hexagonal bolts
M30 x 100 with washer M30
must be ordered separately.

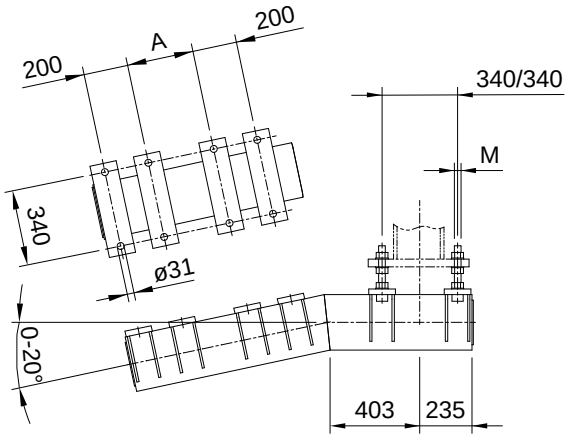
The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.

Drawing number
A drawing is made individuall for each order

Ordering information
with thread M36, gradient negative 30°,
Length 620 mm
1415.36.N30.620 Mast connection to concrete structure

Mast connection to concrete structure 1416

Mast range
M 30 = HEB 160 - 220
M 36 = HEB 240 - 260



Note
Anchor bolt 1444.24
Sleeve frame for mast
connetion (8 x M 24) 1422
When ordering, please state gradient.
Gradient negative (N) 0° - 20°
Anchor bolt M24 and hexagonal bolts
M24x100 with washer M24
must be ordered separately.

The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.
When ordering state length A.

Drawing number
A drawing is made individuall for each order

Ordering information
with thread M30, gradient negative 15°, A=300
1416.30.N15.300 Mast connection to concrete structure

Type	M (mm)	Mast range
30	30	160 - 220
36	36	240 - 260

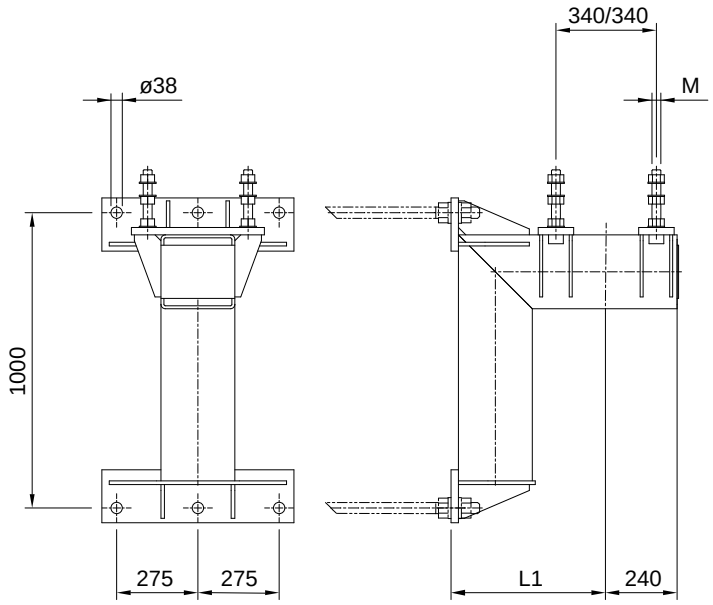
Note
Wall bolt 1441
Available for slanting walls on request

Wall-bolt M30x600/110, hexagonal bolts
M36x220 with hexagonal nut M36 and washer
ø 39 / 66x5 must be ordered separately.Length L1
according to local conditions
L1 min 525 mm
L1 max 665 mm

The static proof for the mast bracket and
the indication of the effect on the structure
are required in any case.
The proof of the wall bolts is provided by the customer.

Drawing number
317.00343, .00345

Ordering information
for thread M30
1417.30 Mast connection to natural stone wall



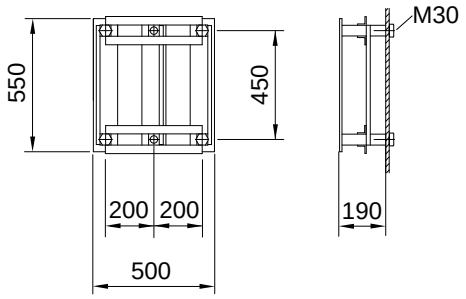
Sleeve frame for mast connection (6 x M30) 1421

Material
Fe stainless

Note
Mast connection 1414 onw

Drawing number
317.00097

Ordering information
1421 Sleeve frame for mast connection (6 x M30)



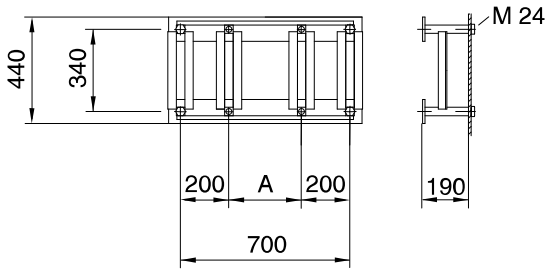
Sleeve frame for mast connection (8 x M24) 1422

Material
Fe stainless

Note
Mast connection 1416
When ordering state lenght A.
Available 300 - 500 mm.

Drawing number
317.00095

Ordering information
1422 Sleeve frame for mast connection (8 x M24)



Wall anchor stirrup 1431

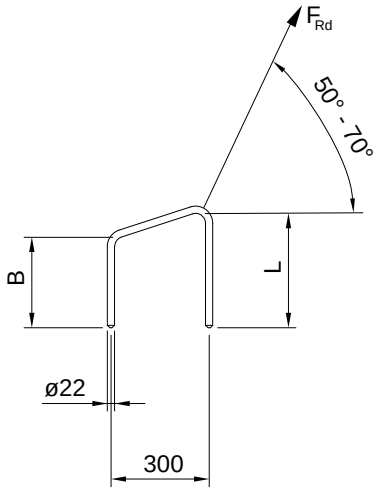
Type	L (mm)	B (mm)
35	350	250
40	400	300
45	450	350

Note
Anchor rope 1311
Insulating set 6321

Resistance
F_{Rd} (kN) = 58

Drawing number
318.00001

Ordering information
Length 350 mm
1431.35 Wall anchor stirrup



Anchor plate 1432

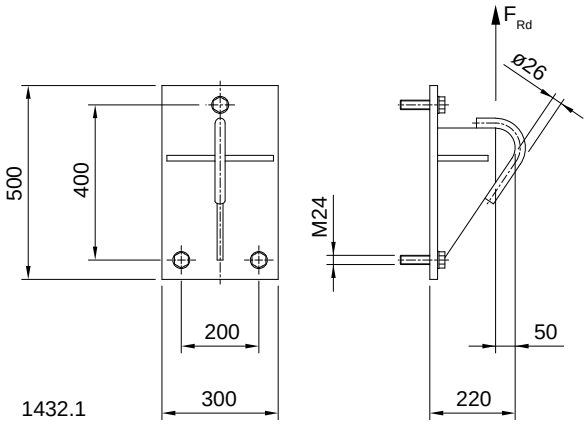
Type	Mounting	F_{Rd} (kN)
1	on sleeve frame (with bolts)	44
2	on concrete structure (without bolts)	39

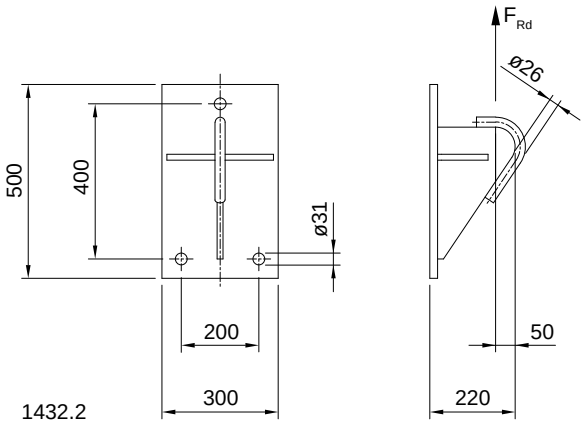
Note
Sleeve frame 1433
Insulating set 6321

Anchor bolt M24 and washer M24 must be ordered separately.

Drawing number
331.00032, .00086

Ordering information
on sleeve frame (with bolts)
1432.1 Anchor plate



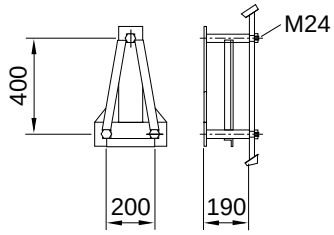


Sleeve frame for anchor plate 1433

Material
Fe stainless

Drawing number
317.00096

Ordering information
1433 Sleeve frame for anchor plate

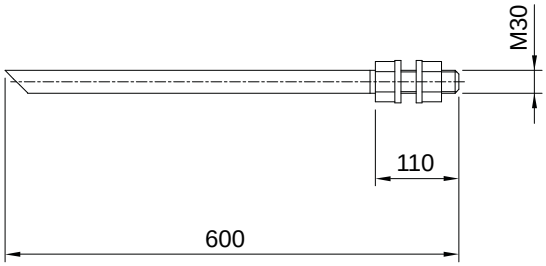


Wall bolt M30 — 1441

Note
Other bolt lengths on request.

Drawing number
317.00034

Ordering information
1441 Wall bolt M30

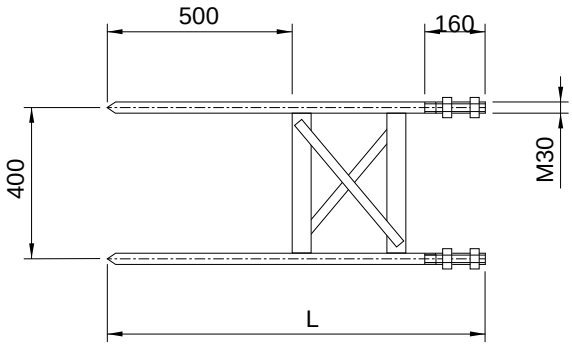


Wall bolt pair M30 — 1442

Note
When ordering, please state length.
Length min. 750 mm
Length max. 1350 mm

Drawing number
317.00170, .00313, .00315

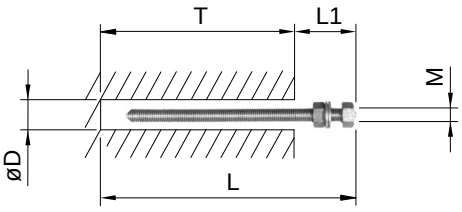
Ordering information
Length 800 mm
1442.080 Wall bolt pair M30



Anchor bolt — 1444

Material
Fe stainless, hot-dip galvanised

Type	M (mm)	L (mm)	T (mm)	D (mm)
12.16	12	160	110	14
16.19	16	190	125	18
16.24	16	240	125	18
16.32	16	320	125	18
20.24	20	240	170	25
20.32	20	320	170	25
24.29	24	290	210	28
30.38	30	380	270	35
36.50	36	500	330	40



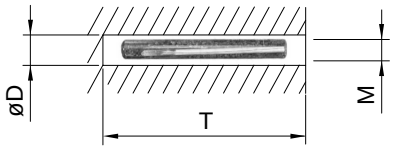
Note
Bolt stainless steel and nut hot-dip galvanized.
Other lengths and diameter on request.
The use of anchor bolt must
be checked in each case
due to the local conditions.
The values in the table should be
regarded as guidelines.

Associated parts
Adhesive cartridge 1445

Drawing number
394.00001

Ordering information
M16, L = 240 mm
1444.16.24 Anchor bolt

Type	for M (mm)	T (mm)	D (mm)
12	12	110	14
16	16	125	18
20	20	170	25
24	24	210	28
30	30	280	35



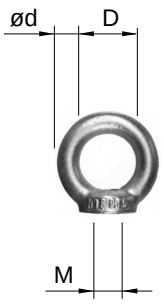
Note
The application of the adhesive cartridge must be checked in each case due to the local conditions.
The values in the table should be regarded as guidelines.
Please follow the instructions for use on the packing.

Drawing number
394.00002

Ordering information
for M20
1445.20 Adhesive cartridge

Eye nut 1446

Type	M (mm)	d (mm)	D (mm)	F_{Rd} (kN)	Material
12	12	12	30	3.4	hot-dip galvanised
12.4	12	12	30	3.4	stainless A4
16	16	14	35	7.0	hot-dip galvanised
16.4	16	14	35	7.0	stainless A4
20	20	16	40	12.0	hot-dip galvanised
20.4	20	16	40	12.0	stainless A4
24	24	20	50	18.0	hot-dip galvanised
24.4	24	20	50	18.0	stainless A4

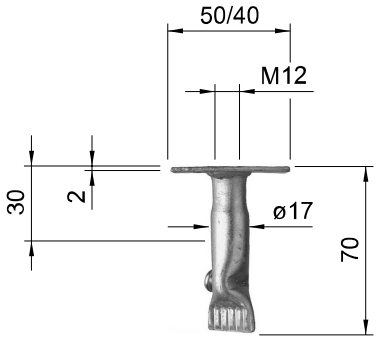


Ordering information
M12
1446.12 Eye nut

Threaded socket with flange for concrete 1447

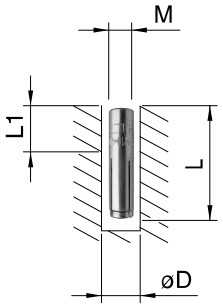
Note
Supplied complete with closing lid.
L1=Length of thread

Ordering information
M12
1447.12 Threaded socket with flange for concrete



Compact threaded sleeve 1448

Type	M (mm)	L (mm)	L1 (mm)	D (mm)
06	6	25	11	8
08	8	30	13	10
10	10	40	15	12
12	12	50	18	15
16	16	65	23	20
20	20	80	34	25



Note
L1=Length of thread

Ordering information
M10
1448.10 Compact threaded sleeve