

Electronic sirens

eRotor

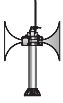
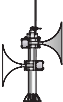
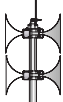
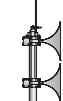
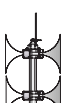
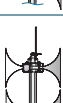
Components for large area
warning purposes

Siren types review and configuration

Acoustical characteristics

Parameters

eRotor siren types review and configuration

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
 E250S^{*)}	250	111	2	2 x 28 Ah	1 120	42
 E250AS	250	114	2	2 x 28 Ah	1 120	42
 E500D^{*)}	500	113	4	2 x 42 Ah	1 120	80
 E500S	500	116	4	2 x 42 Ah	1 620	84
 E500AS	500	118	4	2 x 42 Ah	1 620	84
 E750S^{*)}	750	118	6	2 x 42 Ah	2 120	135
 E750AS	750	120	6	2 x 42 Ah	2 120	135
 E1000D^{*)}	1 000	120	8	2 x 65 Ah	1 980	180
 E1000S	1 000	121	8	2 x 65 Ah	2 620	180
 E1000AS	1000	122	8	2 x 65 Ah	2 620	180
 E1500D^{*)}	1 500	122	12	2 x 65 Ah	2 700	260
 E1500S	1 500	123	12	2 x 65 Ah	3 920	265
 E1500AS	1 500	124	12	2 x 65 Ah	3 920	265

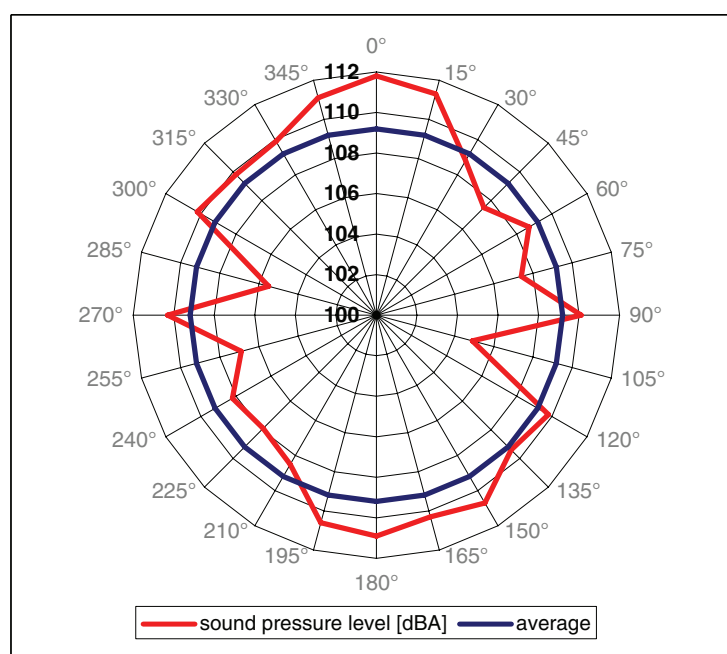
^{*)} These siren configurations are preferred due to better static load values.

eRotor E250S

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E250S	250	111	2	2 x 28 Ah	1 120	42

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

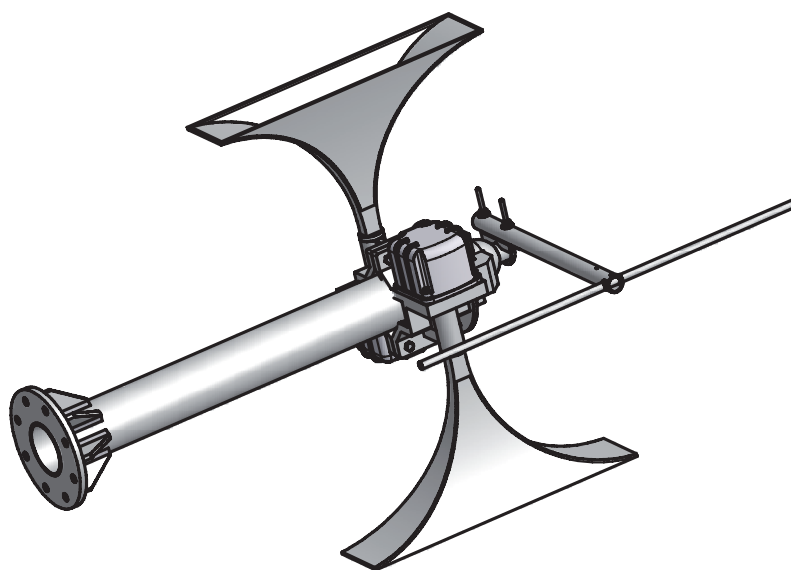
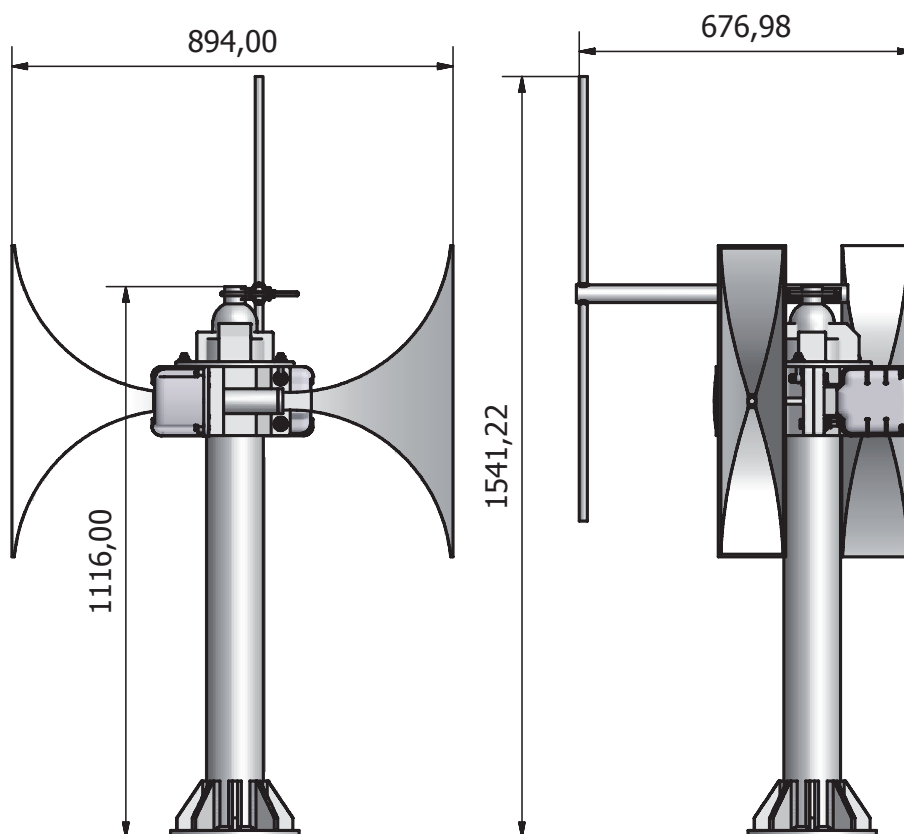
angle	L _{pAeq} [dB]
0°	111,8
15°	111,3
30°	108,8
45°	107,5
60°	108,7
75°	107,4
90°	110,1
105°	104,9
120°	109,8
135°	109,4
150°	110,7
165°	110,3
180°	110,9
195°	110,6
210°	108,5
225°	107,9
240°	108,2
255°	106,9
270°	110,3
285°	105,5
300°	110,2
315°	109,8
330°	109,9
345°	111,1
angle	109,19
median	109,80

Basic statistic data of sound pressure level

	[dB]
arithmetic average	109,19
maximum value	111,80
minimum value	104,90

eRotor E250S

Siren horns technical drawing

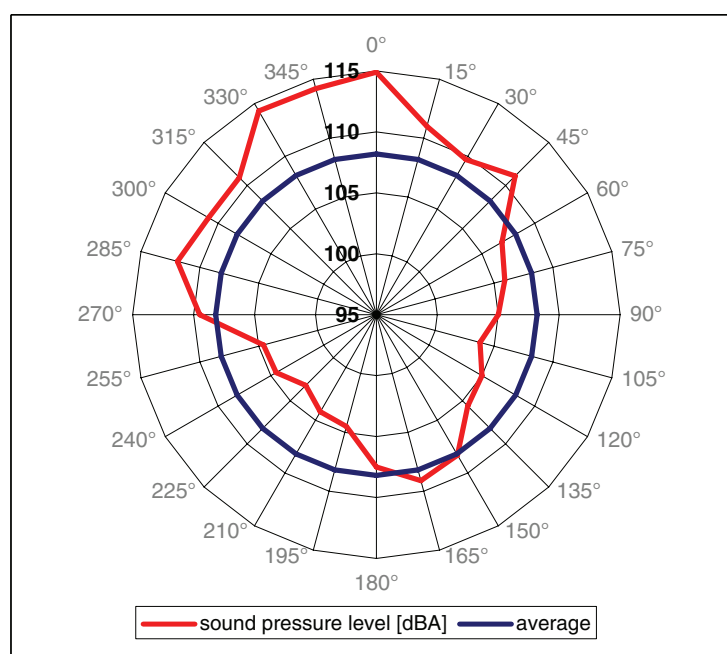


eRotor E250AS

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E250AS	250	114	2	2 x 28 Ah	1 120	42

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

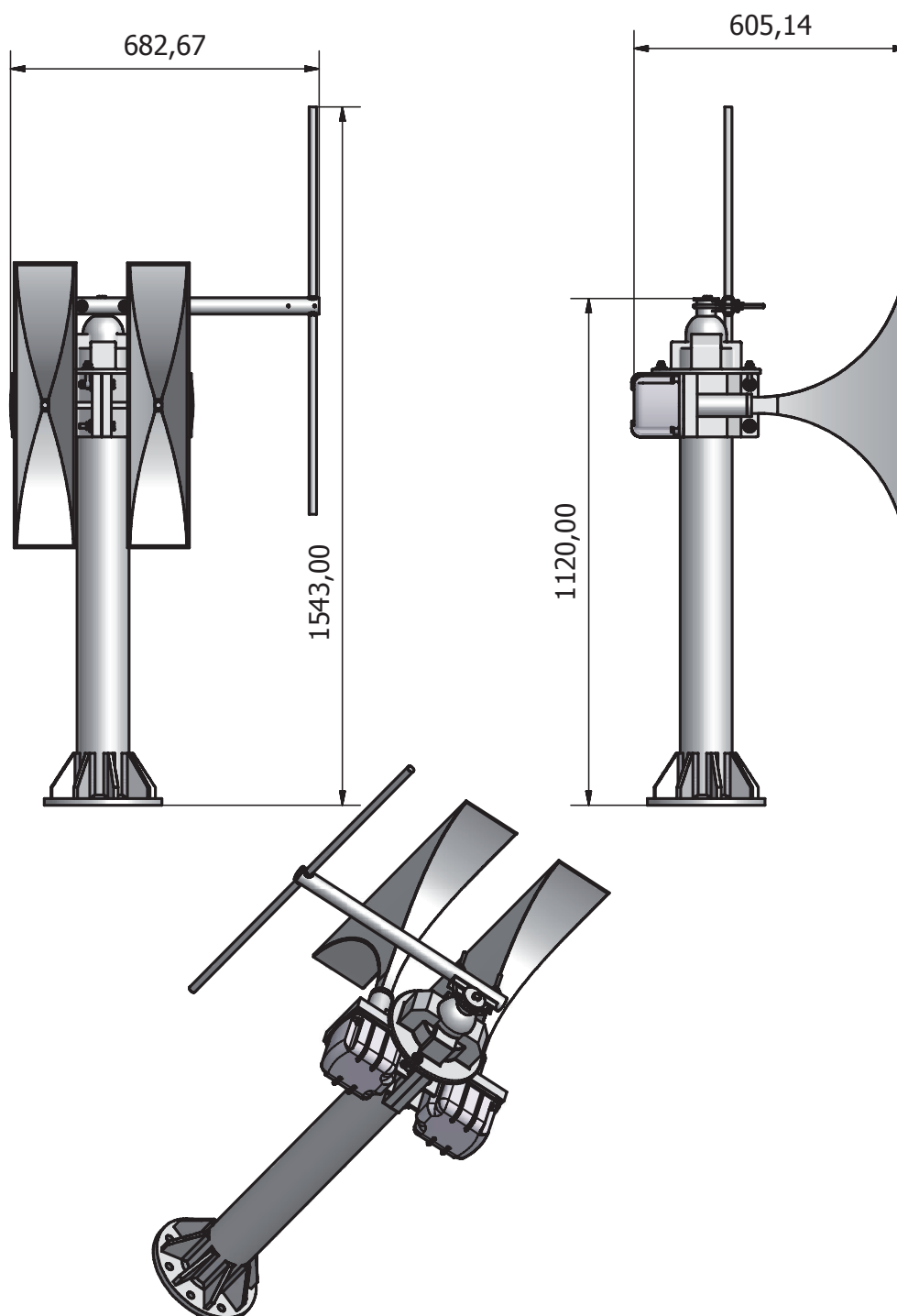
angle	L _{pAeq} [dB]
0°	114,9
15°	111,0
30°	109,7
45°	111,1
60°	106,9
75°	105,9
90°	105,0
105°	103,8
120°	105,0
135°	105,6
150°	108,3
165°	109,1
180°	107,5
195°	104,5
210°	104,2
225°	103,2
240°	104,5
255°	104,6
270°	109,5
285°	111,9
300°	110,9
315°	110,9
330°	114,3
345°	114,2
angle	108,19
median	107,90

Basic statistic data of sound pressure level

	[dB]
arithmetic average	108,19
maximum value	114,90
minimum value	103,20

eRotor E250AS

Siren horns technical drawing

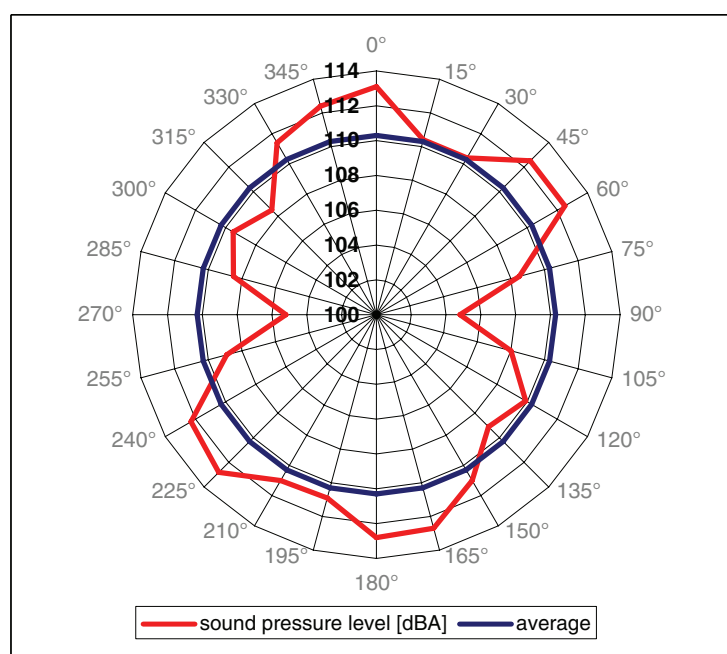


eRotor E500D

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E500D	500	113	4	2 x 42 Ah	1 120	80

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

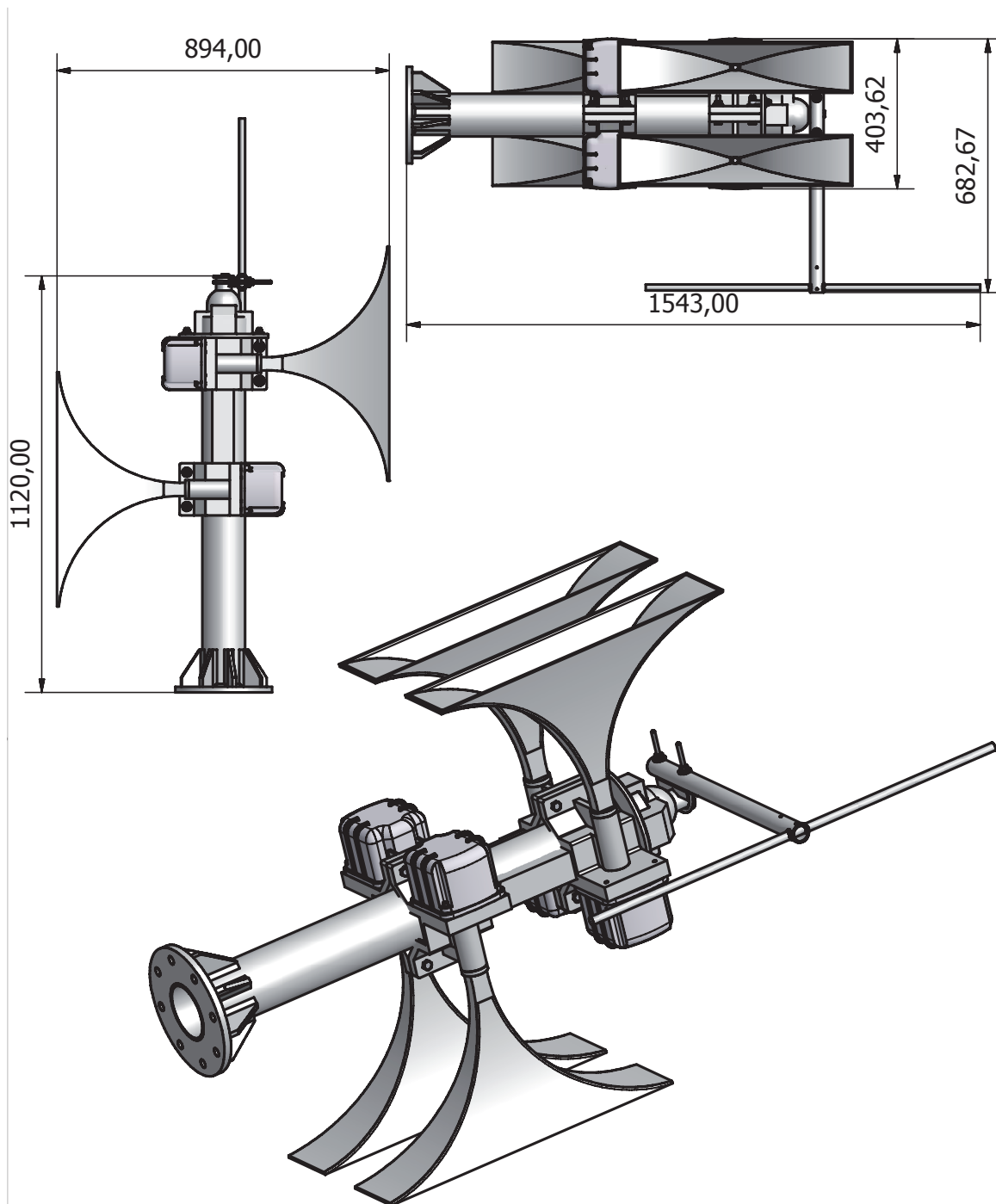
angle	L _{pAeq} [dB]
0°	113,1
15°	110,4
30°	110,4
45°	112,5
60°	112,5
75°	108,5
90°	104,8
105°	108,0
120°	109,9
135°	109,1
150°	111,0
165°	112,7
180°	112,8
195°	110,9
210°	111,0
225°	112,8
240°	112,3
255°	108,9
270°	105,2
285°	108,5
300°	109,5
315°	108,5
330°	111,4
345°	112,4
angle	110,30
median	110,65

Basic statistic data of sound pressure level

	[dB]
arithmetic average	110,30
maximum value	113,10
minimum value	104,80

eRotor E500D

Siren horns technical drawing

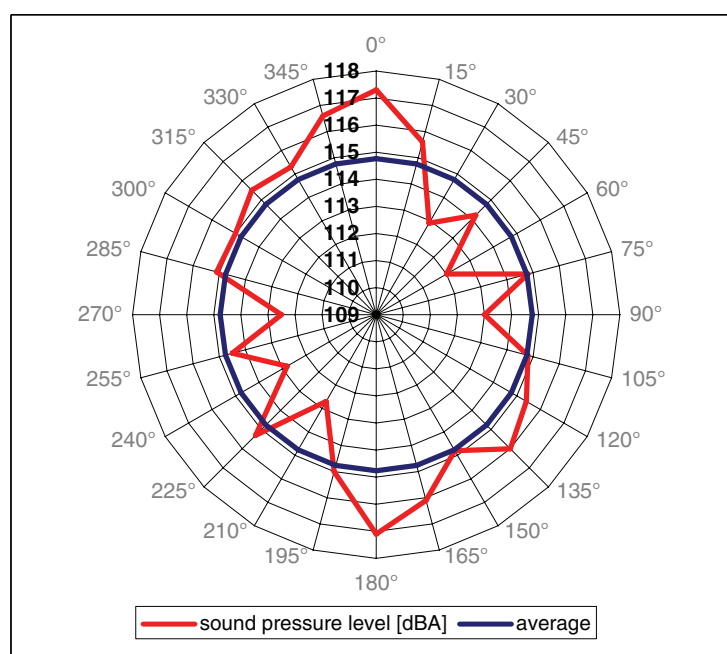


eRotor E500S

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E500S	500	116	4	2 x 42 Ah	1 620	84

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

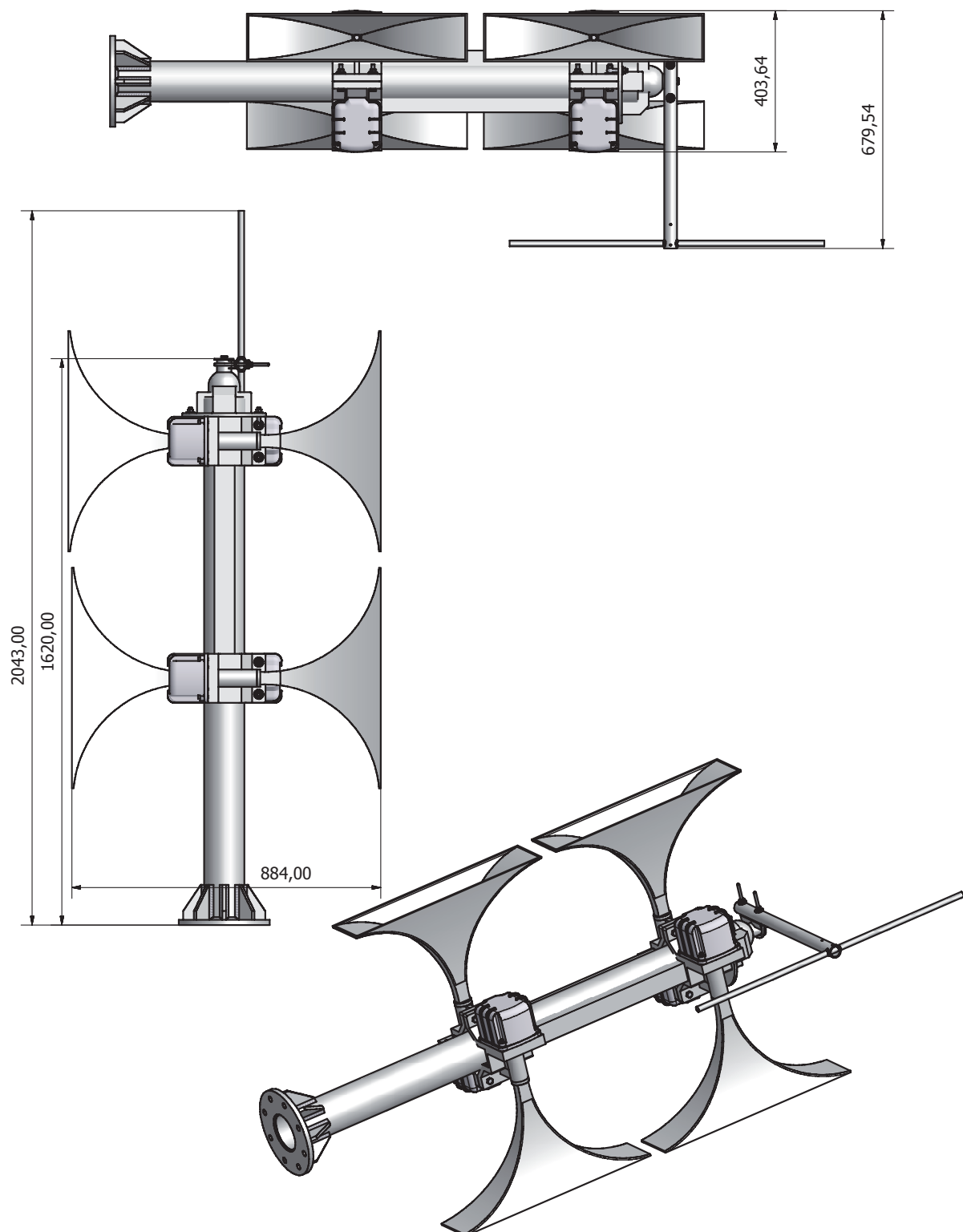
angle	L_{pAeq} [dB]
0°	117,3
15°	115,6
30°	112,9
45°	114,2
60°	112,0
75°	114,8
90°	113,0
105°	114,8
120°	115,4
135°	116,0
150°	114,8
165°	116,1
180°	117,1
195°	115,0
210°	112,7
225°	115,3
240°	112,8
255°	114,5
270°	112,5
285°	115,1
300°	115,0
315°	115,5
330°	115,3
345°	116,6
angle	114,76
median	115,00

Basic statistic data of sound pressure level

	[dB]
arithmetic average	114,76
maximum value	117,30
minimum value	112,00

eRotor E500S

Siren horns technical drawing

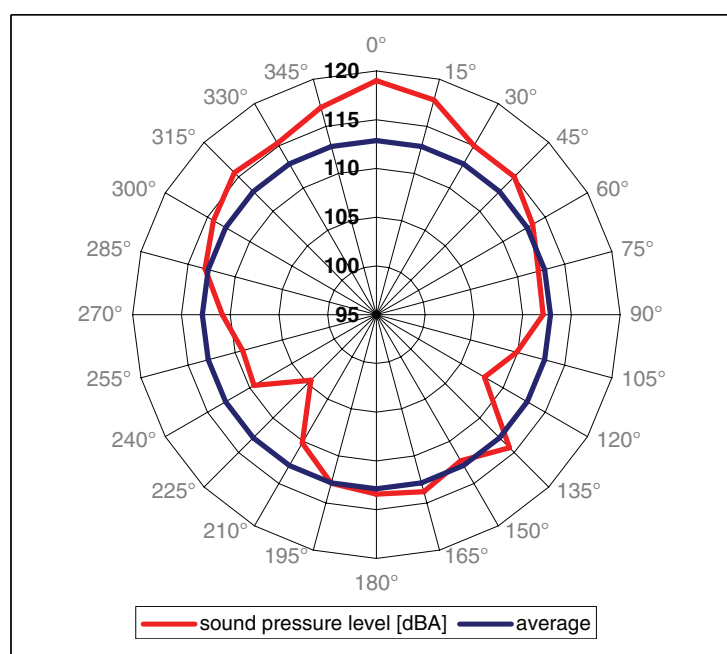


eRotor E500AS

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E500AS	500	118	4	2 x 42 Ah	1 620	84

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

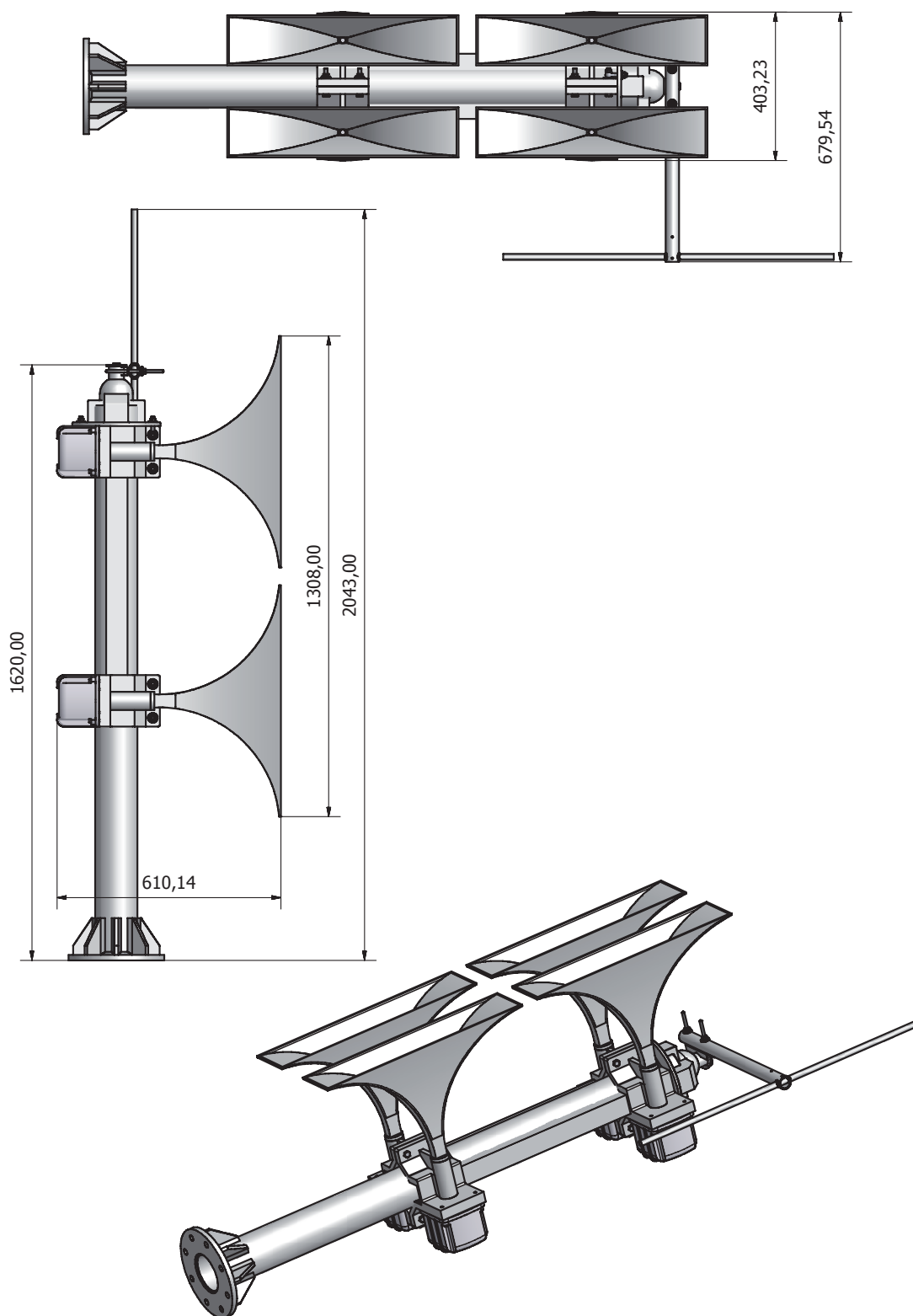
angle	L _{pAeq} [dB]
0°	119,0
15°	117,8
30°	115,0
45°	115,0
60°	113,5
75°	112,2
90°	112,1
105°	109,9
120°	107,8
135°	114,3
150°	112,3
165°	113,8
180°	113,4
195°	112,9
210°	110,2
225°	104,5
240°	109,5
255°	109,2
270°	110,8
285°	113,2
300°	114,3
315°	115,6
330°	115,3
345°	117,0
angle	112,86
median	113,30

Basic statistic data of sound pressure level

	[dB]
arithmetic average	112,86
maximum value	119,00
minimum value	104,50

eRotor E500AS

Siren horns technical drawing

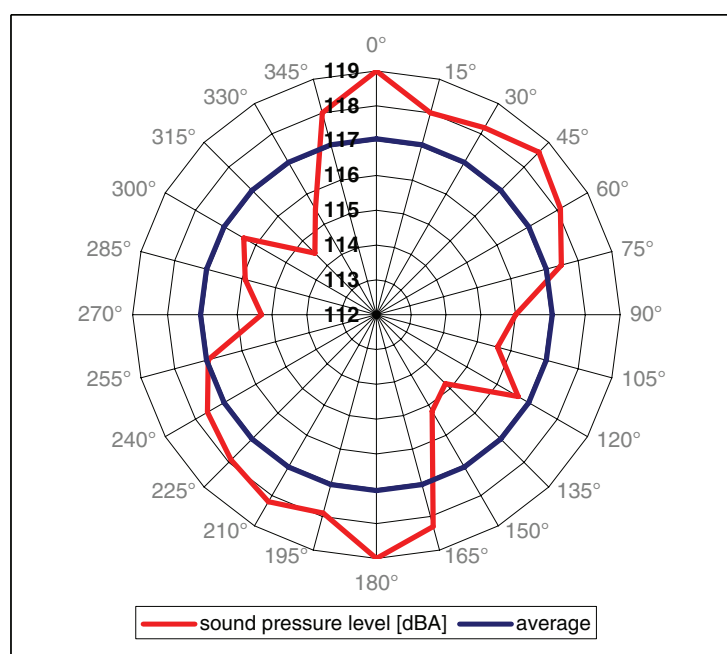


eRotor E750S

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E750S	750	118	6	2 x 42 Ah	2 120	135

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

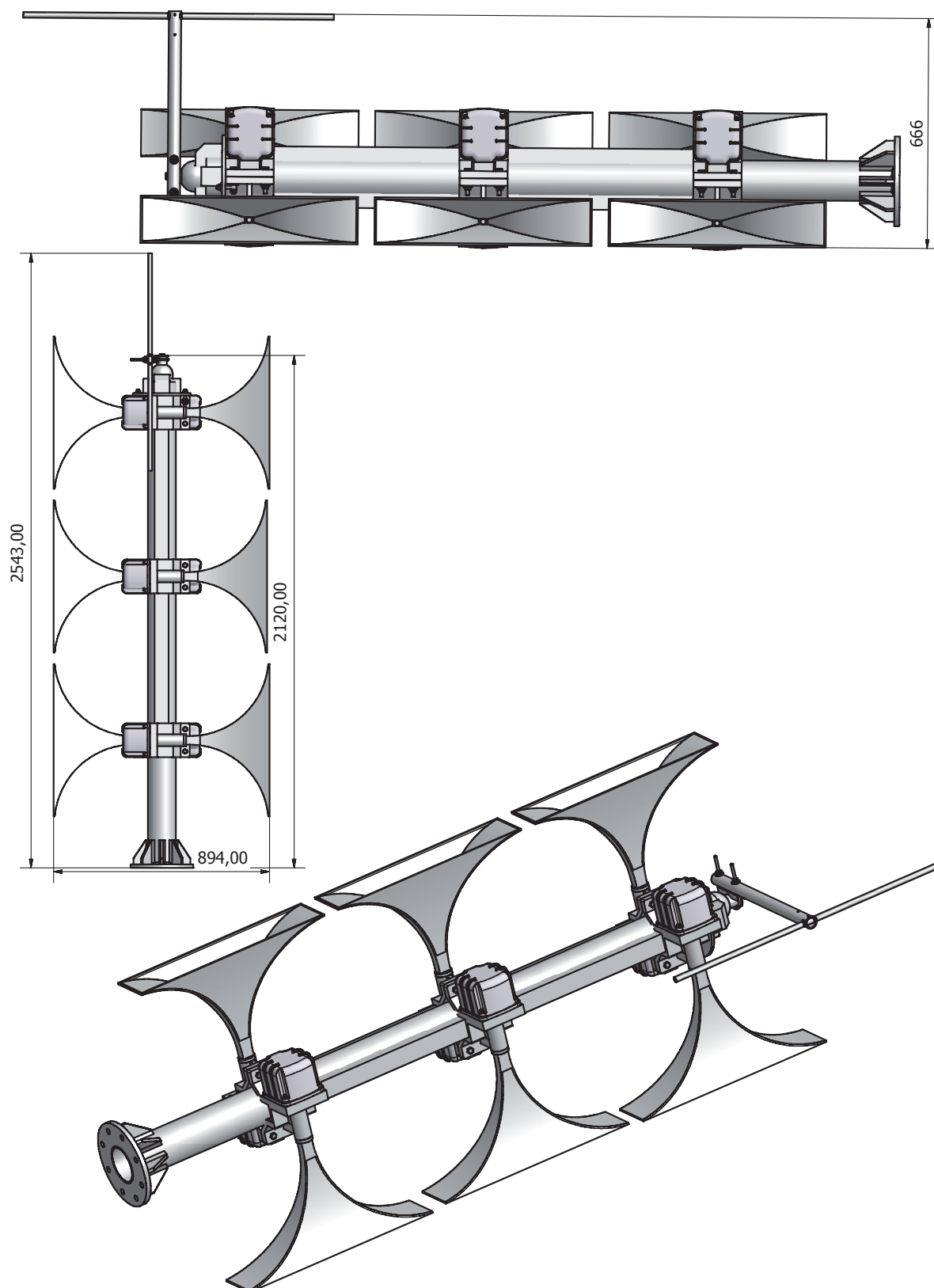
angle	L _{pAeq} [dB]
0°	119,0
15°	118,0
30°	118,2
45°	118,6
60°	118,1
75°	117,5
90°	116,0
105°	115,6
120°	116,7
135°	114,8
150°	115,2
165°	118,3
180°	119,0
195°	117,9
210°	118,2
225°	117,9
240°	117,6
255°	117,0
270°	115,3
285°	115,9
300°	116,4
315°	114,5
330°	115,5
345°	118,0
angle	117,05
median	117,55

Basic statistic data of sound pressure level

	[dB]
arithmetic average	117,05
maximum value	119,00
minimum value	114,50

eRotor E750S

Siren horns technical drawing

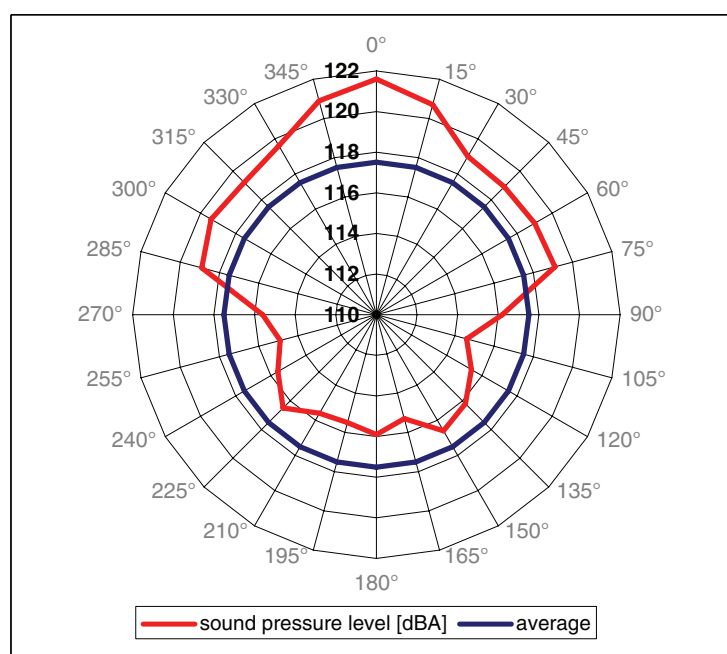


eRotor E750AS

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E750AS	750	120	6	2 x 42 Ah	2 120	135

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

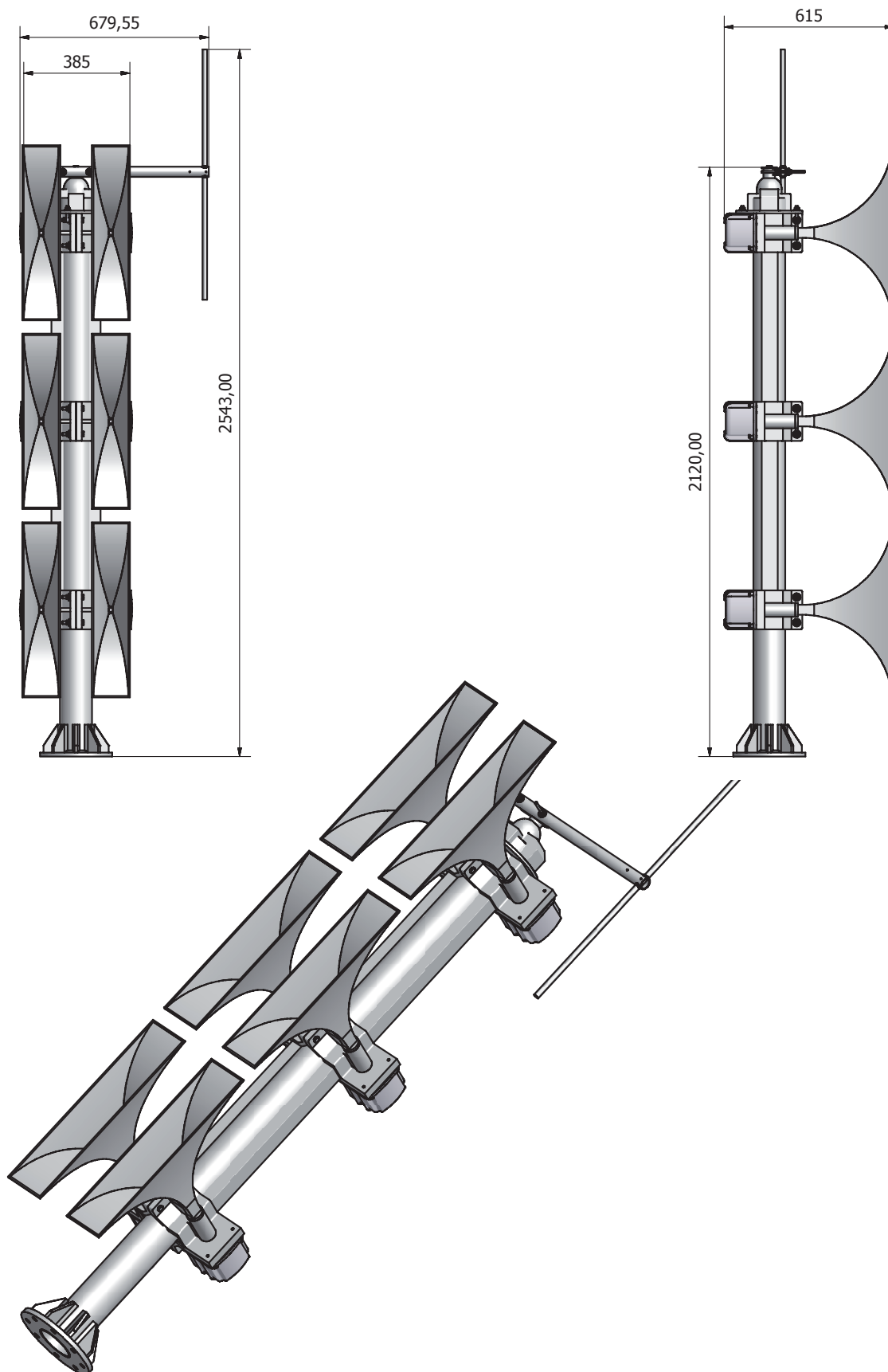
angle	L _{pAeq} [dB]
0°	121,6
15°	120,7
30°	119,0
45°	118,9
60°	119,0
75°	119,1
90°	116,2
105°	114,6
120°	115,4
135°	116,2
150°	116,6
165°	115,3
180°	115,9
195°	115,5
210°	115,6
225°	116,5
240°	115,6
255°	114,9
270°	115,6
285°	118,9
300°	119,4
315°	119,2
330°	119,6
345°	120,9
angle	117,51
median	116,55

Basic statistic data of sound pressure level

	[dB]
arithmetic average	117,51
maximum value	121,60
minimum value	114,60

eRotor E750AS

Siren horns technical drawing

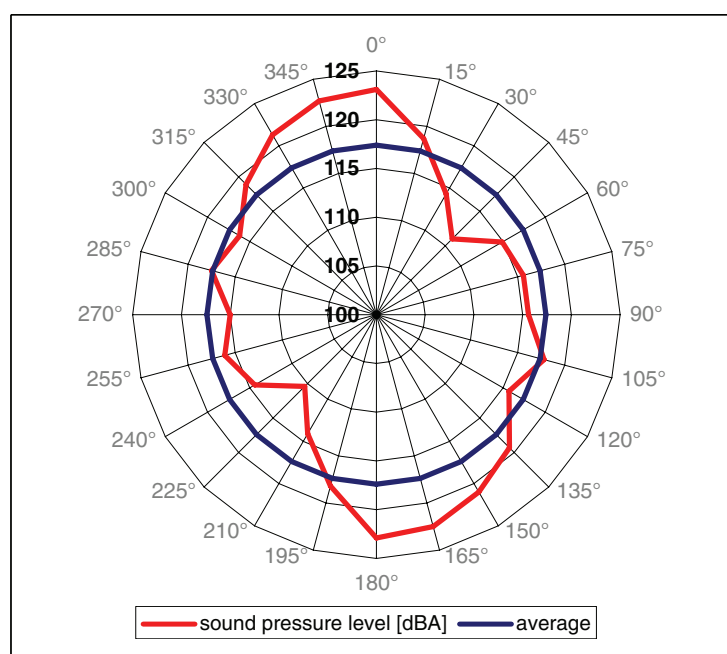


eRotor E1000D

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1000D	1 000	120	8	2 x 65 Ah	1 980	180

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

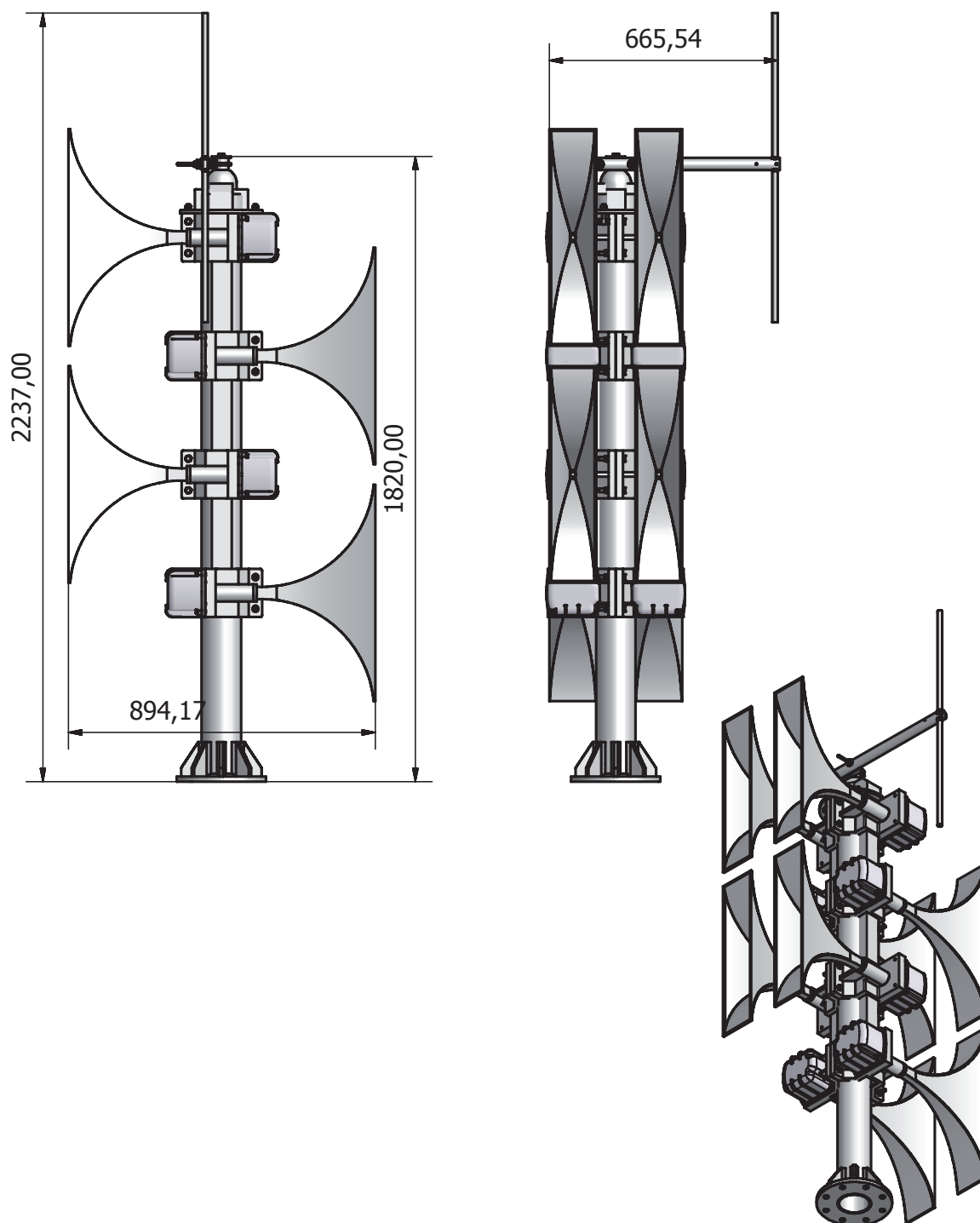
angle	L _{pAeq} [dB]
0°	123,1
15°	118,7
30°	114,3
45°	111,0
60°	114,9
75°	115,6
90°	115,6
105°	117,8
120°	115,7
135°	119,3
150°	121,0
165°	122,5
180°	122,9
195°	118,2
210°	114,1
225°	110,4
240°	114,4
255°	116,1
270°	115,0
285°	117,5
300°	116,2
315°	118,9
330°	121,3
345°	122,7
angle	117,38
median	116,85

Basic statistic data of sound pressure level

	[dB]
arithmetic average	117,38
maximum value	123,10
minimum value	110,40

eRotor E1000D

Siren horns technical drawing

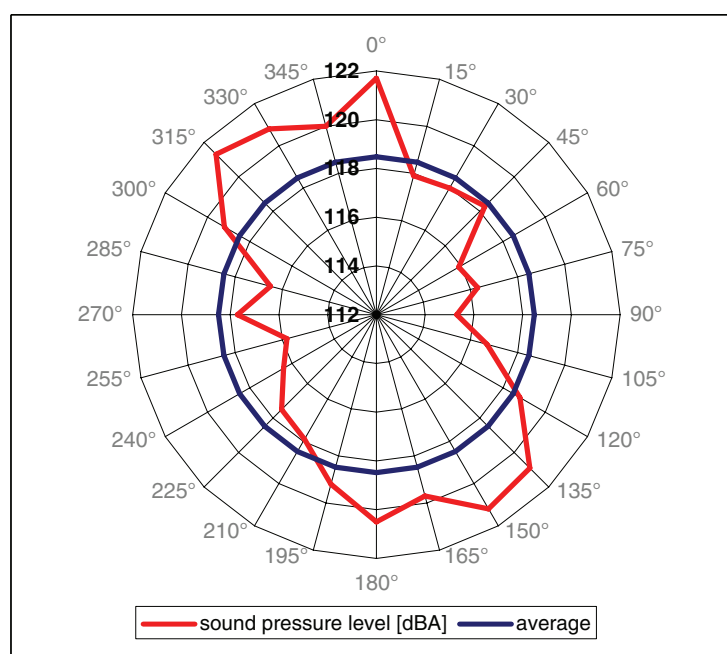


eRotor E1000S

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1000S	1 000	121	8	2 x 65 Ah	2 620	180

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

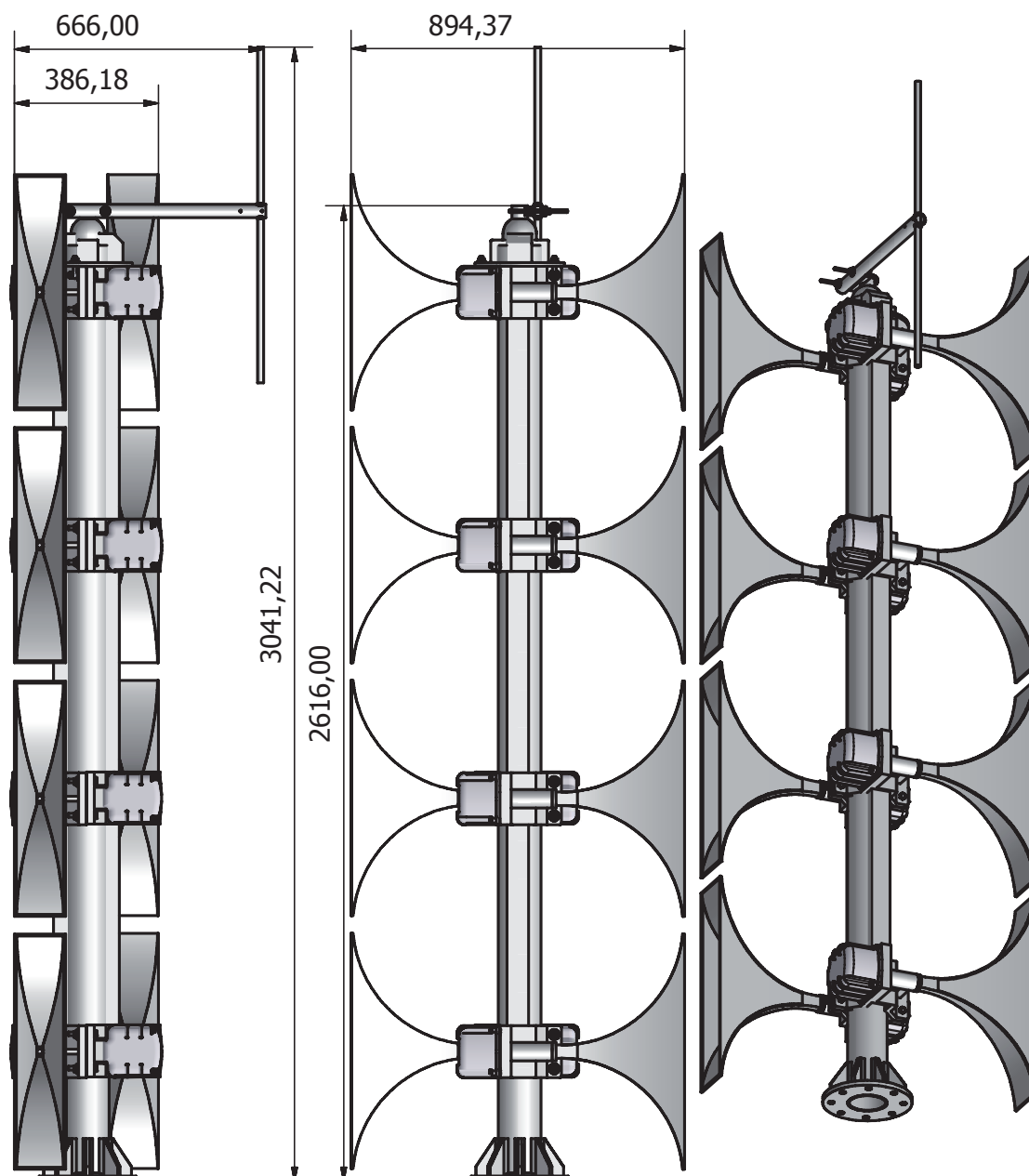
angle	L _{pAeq} [dB]
0°	121,7
15°	117,9
30°	118,0
45°	118,3
60°	115,9
75°	116,3
90°	115,3
105°	116,7
120°	118,8
135°	120,9
150°	121,2
165°	119,7
180°	120,5
195°	119,2
210°	117,9
225°	117,5
240°	116,4
255°	115,8
270°	117,7
285°	116,5
300°	119,2
315°	121,3
330°	120,8
345°	120,0
angle	118,48
median	118,15

Basic statistic data of sound pressure level

	[dB]
arithmetic average	118.48
maximum value	121.70
minimum value	115.30

eRotor E1000S

Siren horns technical drawing

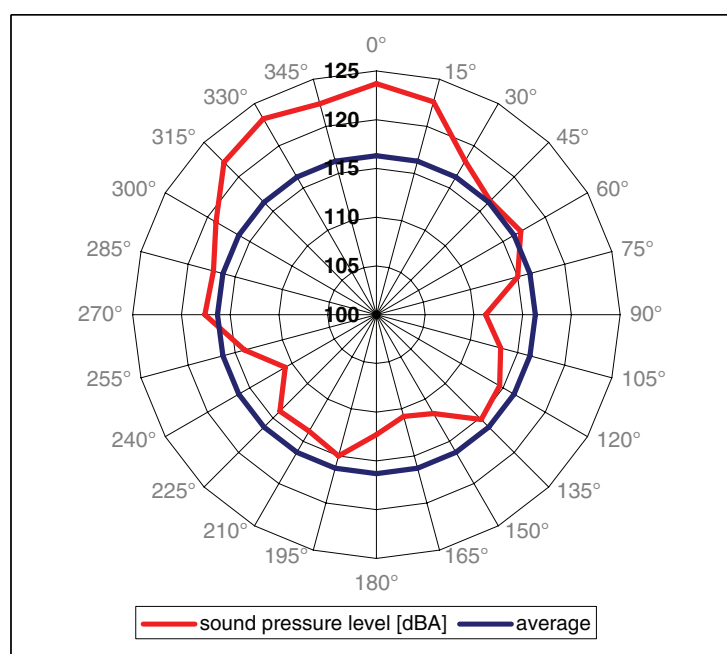


eRotor E1000AS

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1000AS	1 000	122	8	2 x 65 Ah	2 620	180

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

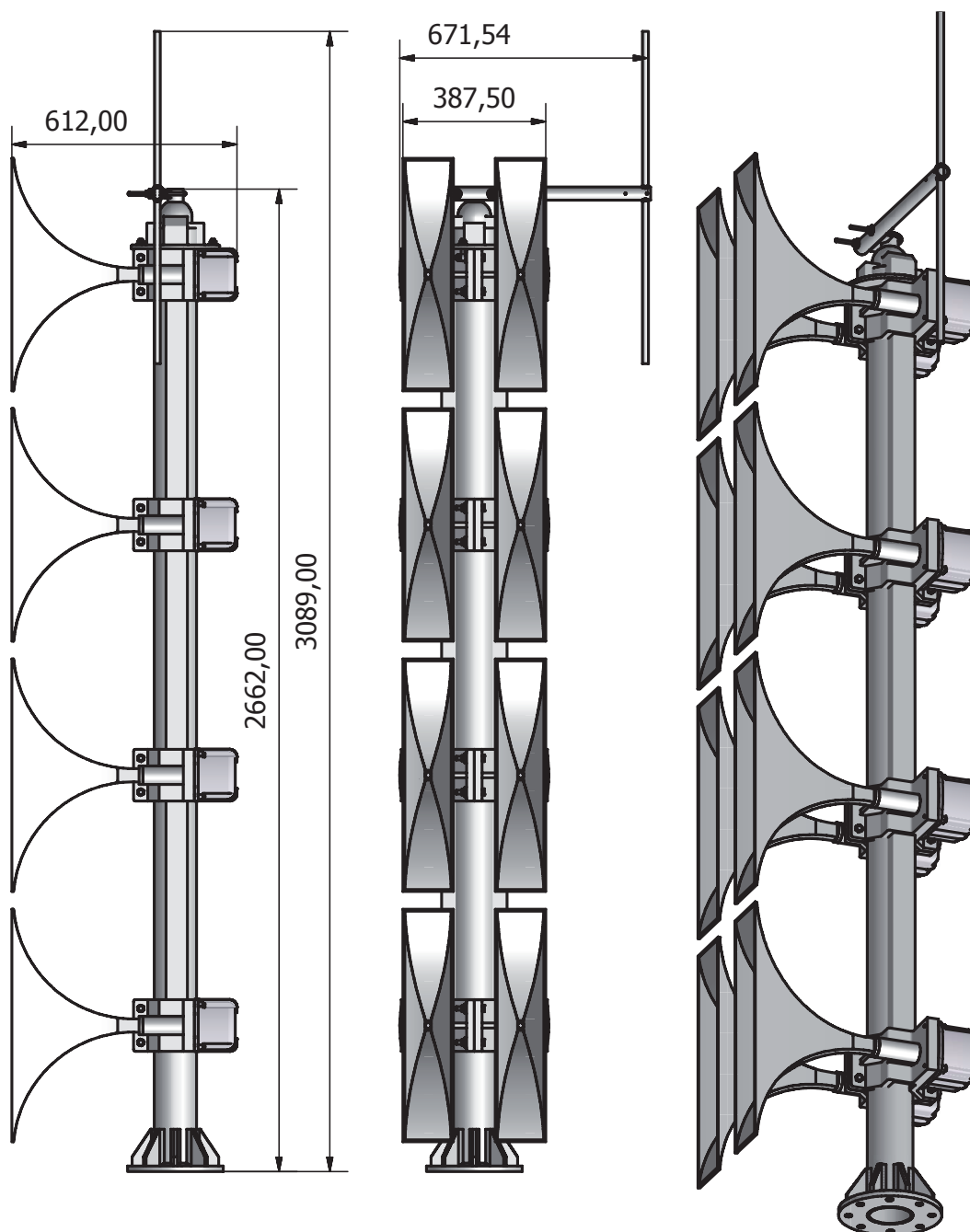
angle	L _{pAeq} [dB]
0°	123,7
15°	122,6
30°	118,2
45°	116,5
60°	117,1
75°	115,0
90°	111,2
105°	113,2
120°	114,6
135°	115,2
150°	111,7
165°	110,8
180°	112,3
195°	115,0
210°	113,8
225°	114,0
240°	110,8
255°	114,0
270°	117,6
285°	117,3
300°	119,0
315°	122,1
330°	123,2
345°	122,4
angle	116,30
median	115,10

Basic statistic data of sound pressure level

	[dB]
arithmetic average	116,30
maximum value	123,70
minimum value	110,80

eRotor E1000AS

Siren horns technical drawing

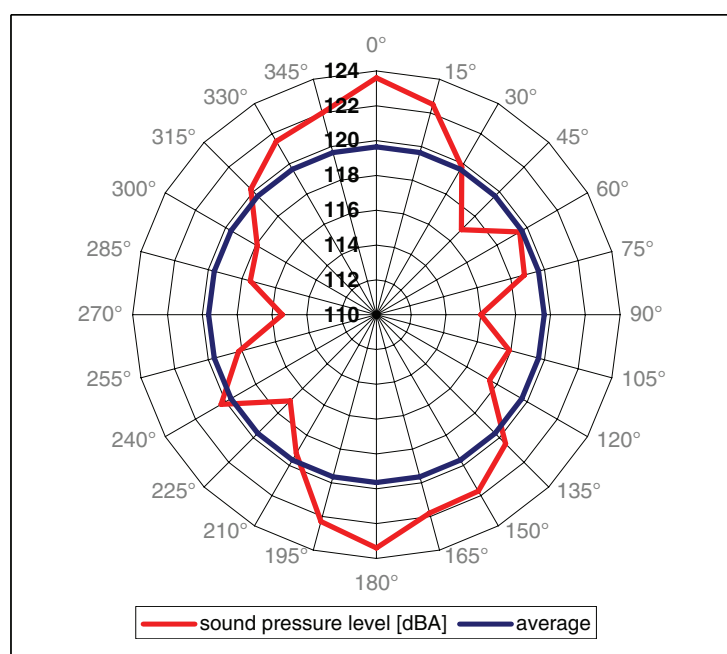


eRotor E1500D

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1500D	1 500	122	12	2 x 65 Ah	2 700	260

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

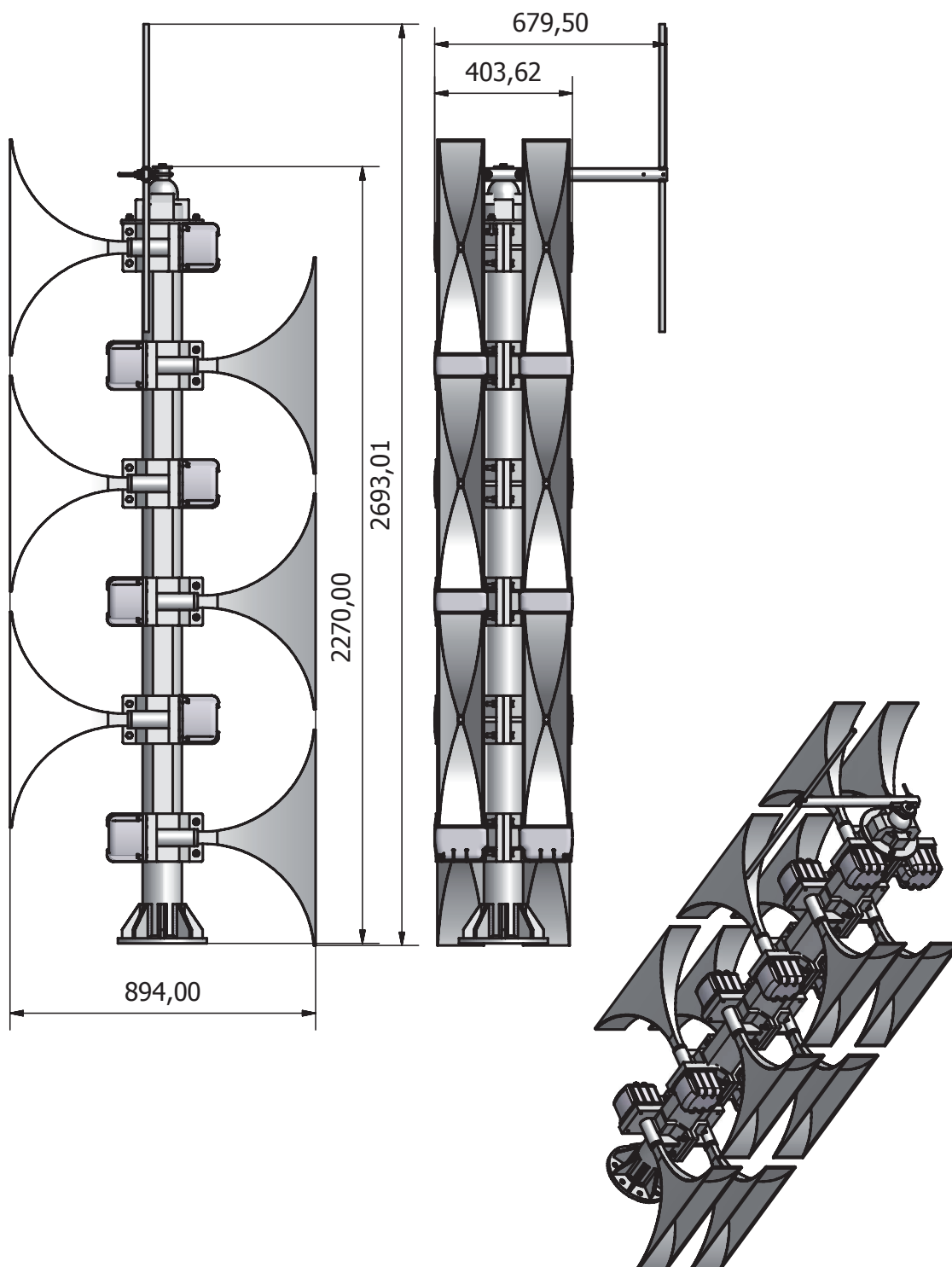
angle	L _{pAeq} [dB]
0°	123,6
15°	122,5
30°	119,8
45°	116,9
60°	119,5
75°	118,8
90°	116,0
105°	117,9
120°	117,5
135°	120,5
150°	121,7
165°	121,8
180°	123,4
195°	122,3
210°	119,2
225°	117,0
240°	120,3
255°	118,2
270°	115,4
285°	117,5
300°	117,9
315°	120,2
330°	121,5
345°	122,0
angle	119,64
median	119,65

Basic statistic data of sound pressure level

	[dB]
arithmetic average	119,64
maximum value	123,60
minimum value	115,40

eRotor E1500D

Siren horns technical drawing

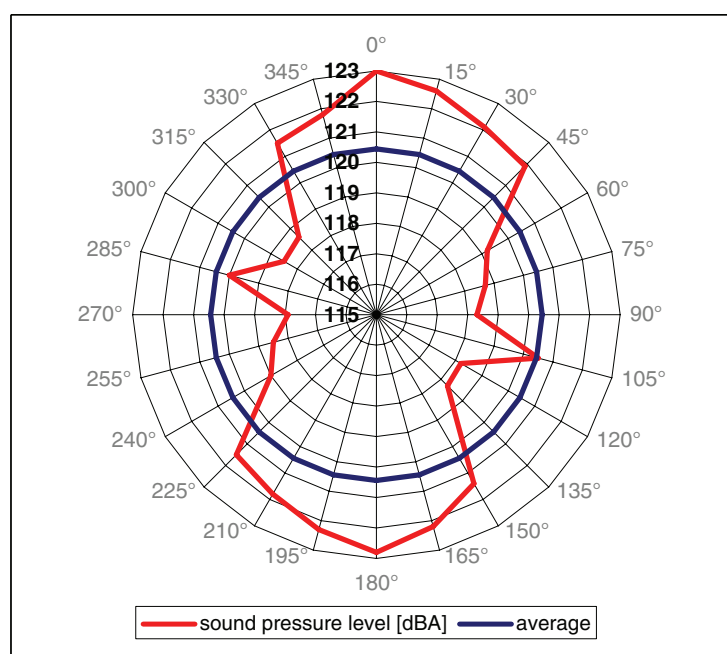


eRotor E1500S

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1500S	1 500	123	12	2 x 65 Ah	3 920	265

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

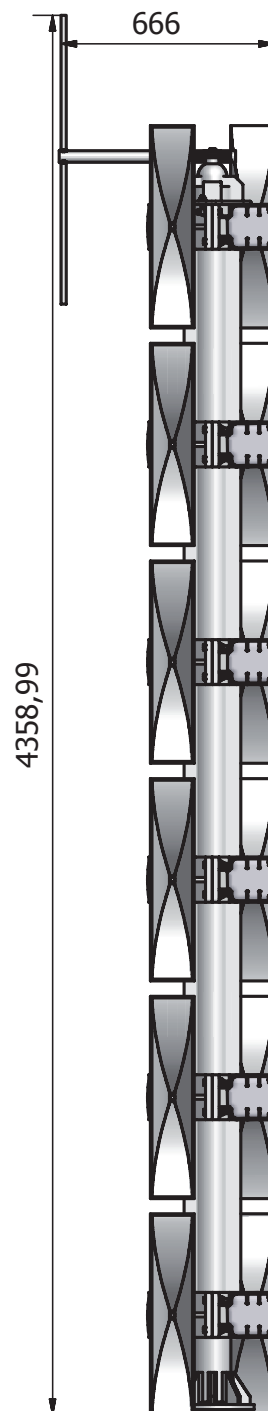
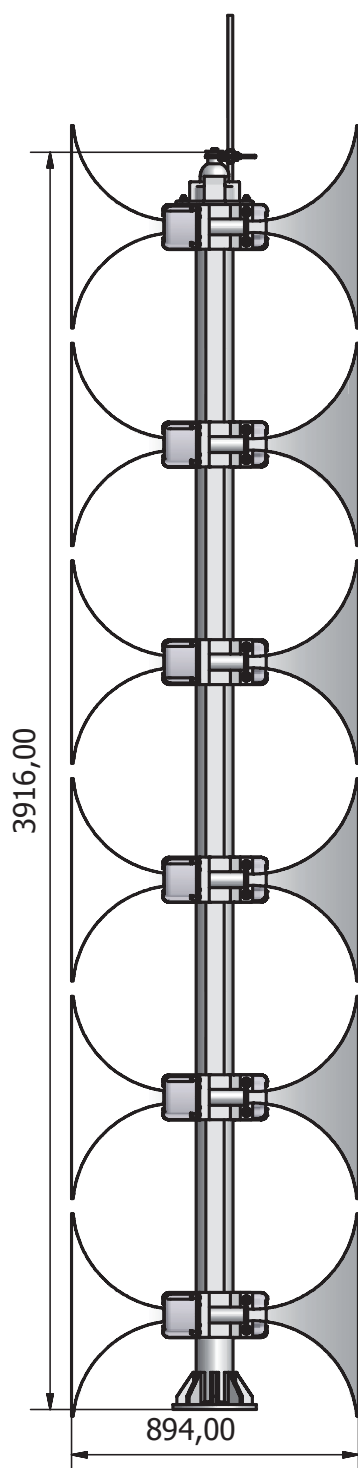
angle	L_{pAeq} [dB]
0°	123,0
15°	122,6
30°	122,1
45°	121,9
60°	119,2
75°	118,7
90°	118,3
105°	120,5
120°	118,2
135°	118,3
150°	121,4
165°	122,2
180°	122,8
195°	122,3
210°	121,8
225°	121,5
240°	119,0
255°	118,5
270°	117,9
285°	120,0
300°	118,5
315°	118,6
330°	121,5
345°	121,8
angle	120,44
median	120,95

Basic statistic data of sound pressure level

	[dB]
arithmetic average	120,44
maximum value	123,00
minimum value	117,90

eRotor E1500S

Siren horns technical drawing

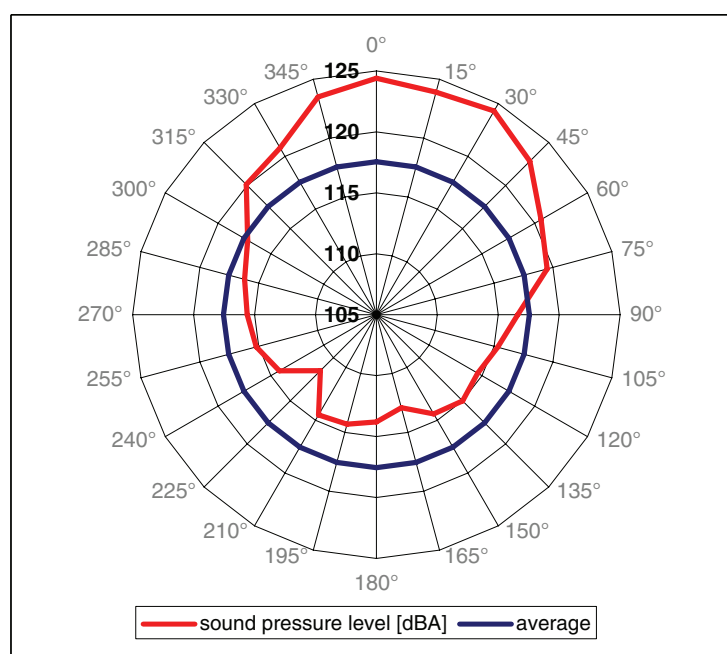


eRotor E1500AS

Basic data and direction chart

Siren type	Power [W]	Nominal sound pressure level at 30m [dB]	Number of horns	Number and type of batteries	Mast length [mm]	Weight of siren horns [kg]
E1500AS	1 500	124	12	2 x 65 Ah	3 920	265

Direction pattern expressed as horizontal chart of sound pressure level



Measured sound pressure level

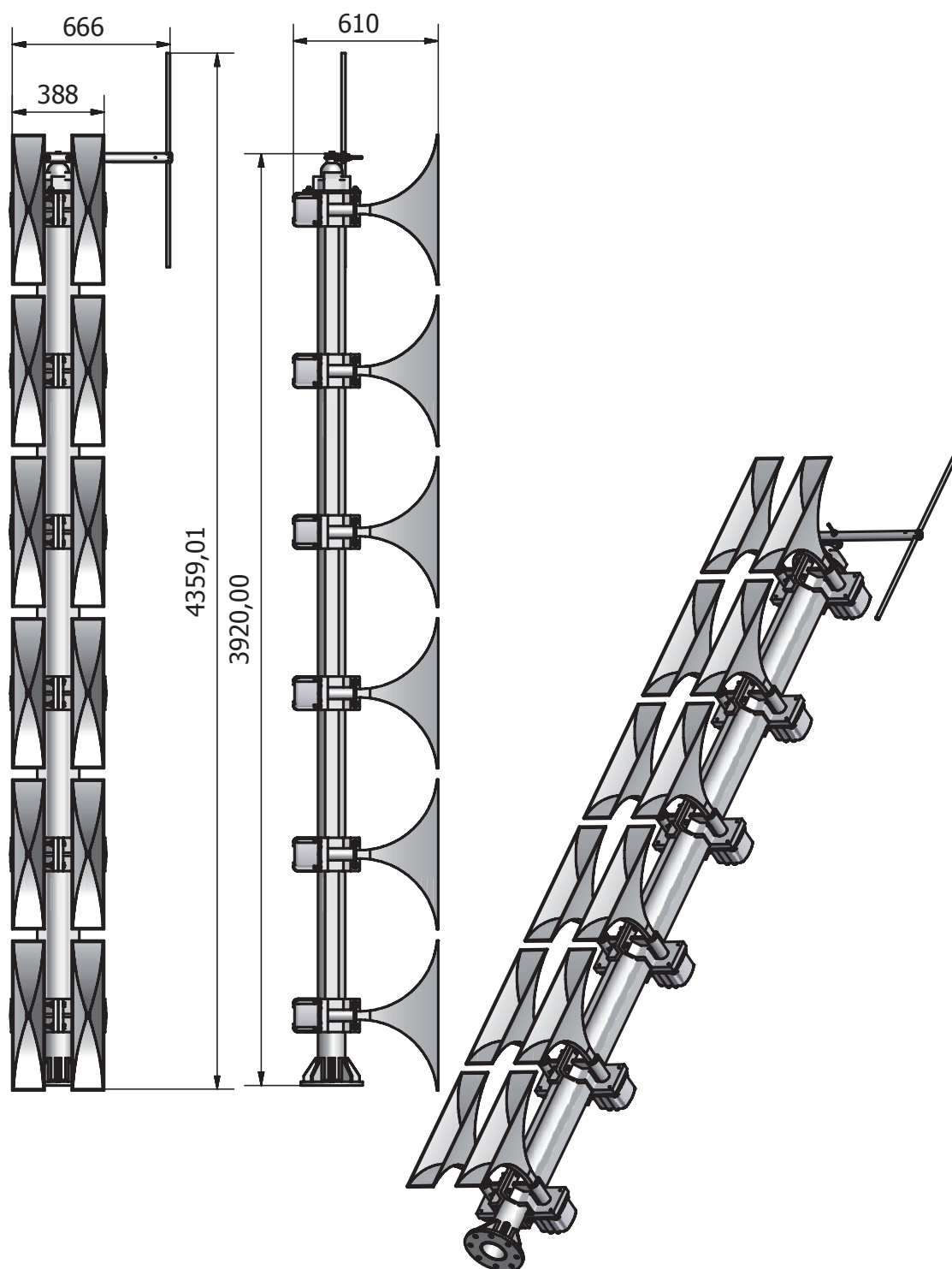
angle	L _{pAeq} [dB]
0°	124,4
15°	123,9
30°	124,3
45°	122,8
60°	120,6
75°	119,5
90°	116,6
105°	115,3
120°	114,6
135°	115,0
150°	114,4
165°	112,9
180°	113,8
195°	114,3
210°	114,5
225°	111,5
240°	114,2
255°	115,2
270°	115,6
285°	116,2
300°	117,2
315°	120,1
330°	120,8
345°	123,5
angle	117,55
median	115,90

Basic statistic data of sound pressure level

	[dB]
arithmetic average	117,55
maximum value	124,40
minimum value	111,50

eRotor E1500AS

Siren horns technical drawing



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