

DVB Transmitting Antenna

**HOVDEFJELL**

Type No. **75913 471**

## TECHNICAL DATA

Constructional features.....48 antenna panels 75010 175  
( 12 bays with 4 panels each )

Frequency range.....470 ... 862 MHz

Operating channels.....41 – 48 – 52 – 55 – 58 – 61 – 67

Polarization .....horizontal

Nominal impedance .....50  $\Omega$

Gain (referred to antenna input) ..... $\downarrow\downarrow$  15,8..... $\downarrow\downarrow$  15,6..... $\downarrow\downarrow$  15,2..... $\downarrow\downarrow$  15,5 dB<sub>d</sub>

VSWR..... $\leq 1,2$  at DTT channels

Input power (maximum) .....7x 2,5 kW DTT

Input connector .....2x 3 1/8"EIA

20.03.2008

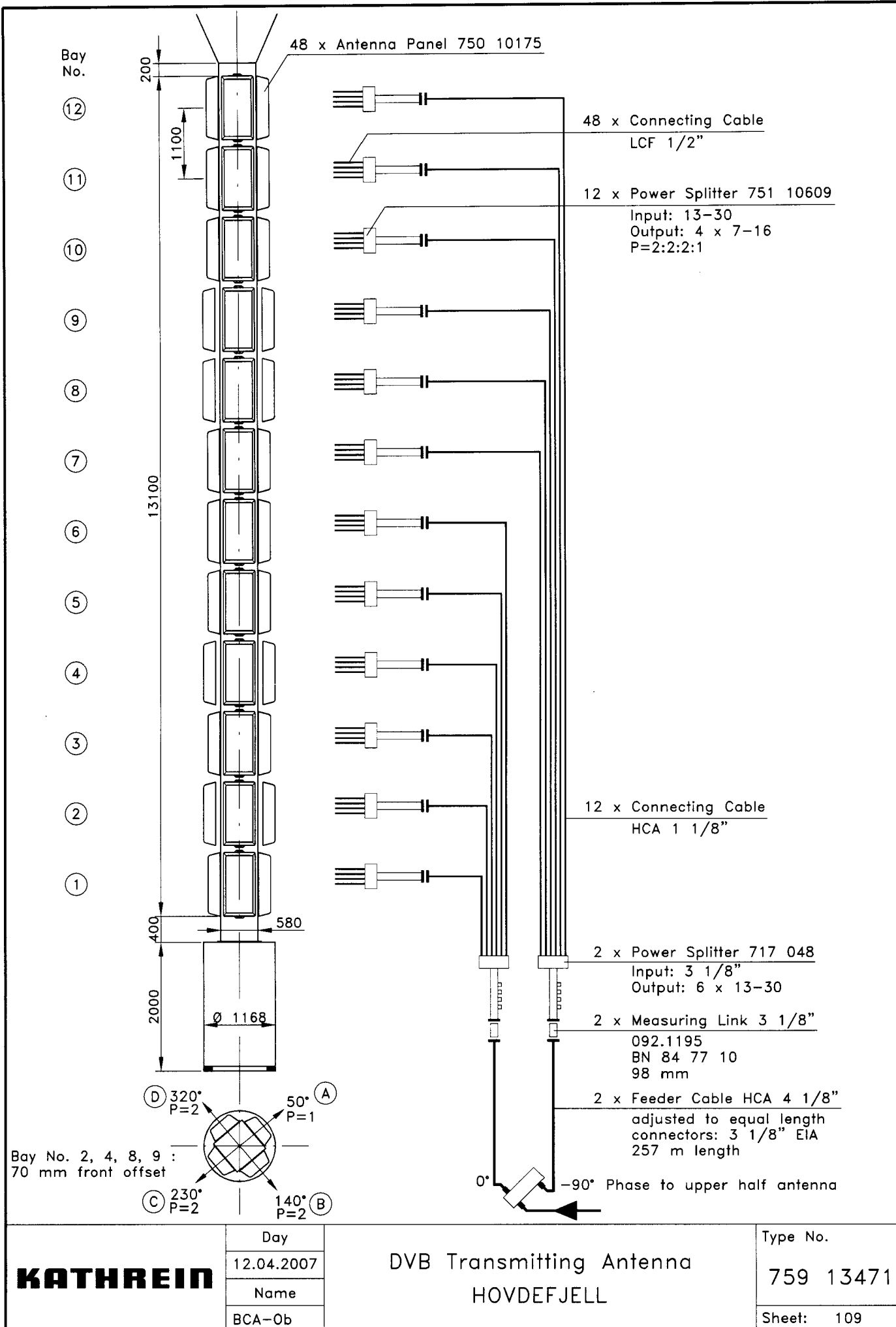
KATHREIN  
BCA-Ob

DVB Transmitting Antenna

**HOVDEFJELL**

Type No.

**75913 471**



**KATHREIN**

Day

12.04.2007

Name

BCA-Ob

DVB Transmitting Antenna  
HOVDEFJELL

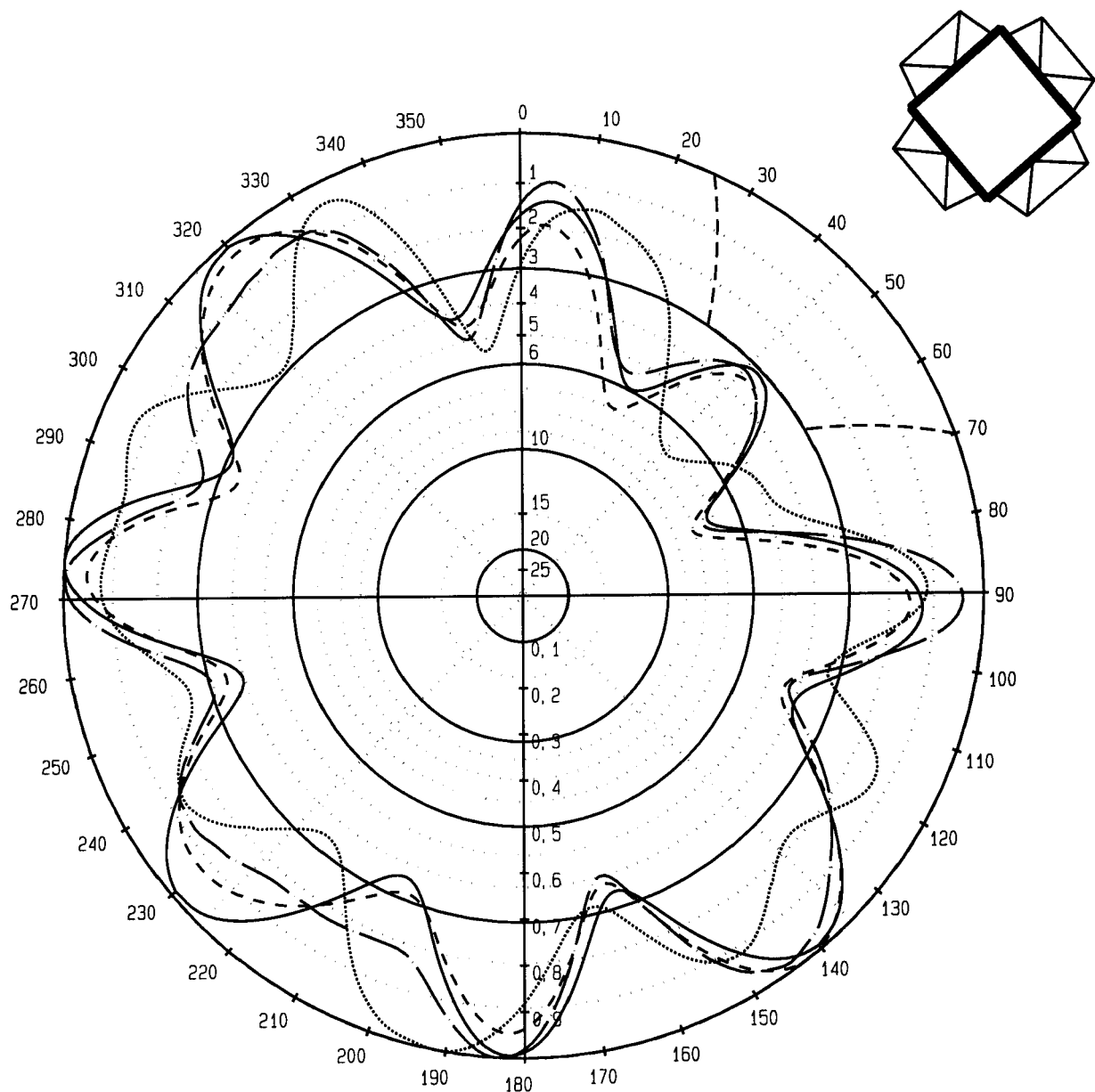
Type No.

759 13471

Sheet: 109

## CABLE LIST

 $f_0 = 634,00 \text{ MHz}$ [illegible]



frequency in MHz 634.000 722.000 770.000 842.000  
down-tilt in 0  
max / mean in dB 2.08 2.31 2.01 2.09

antenna type: 772419B      4 disk panel on mast 600; offset +15									cable design frequency: 634.000 MHz						
bay	height	v-feed	power	cab-ph	fix-ph	panel	azipos	azidir	radius	tanoff	radoff	tilt	power	cab-ph	fix-ph
1	0	1.0		0	0	1	50.0	50.0	.0	-15.0	.0	.0	1.0	-30	0
						2	140.0	140.0	.0	-15.0	.0	.0	2.0	0	0
						3	230.0	230.0	.0	-15.0	.0	.0	2.0	0	0
						4	320.0	320.0	.0	-15.0	.0	.0	2.0	0	0

Channels 41-48-52-55-58-61-67

<b>KATHREIN</b> Rosenheim Germany BCA/Ob 20.3. 8 13:10	DVB Transmitting Antenna HOVDEFJELL	Typ Nr. 75913471
		B1.:

simulation with typical exactness of +/- 8% of max signal

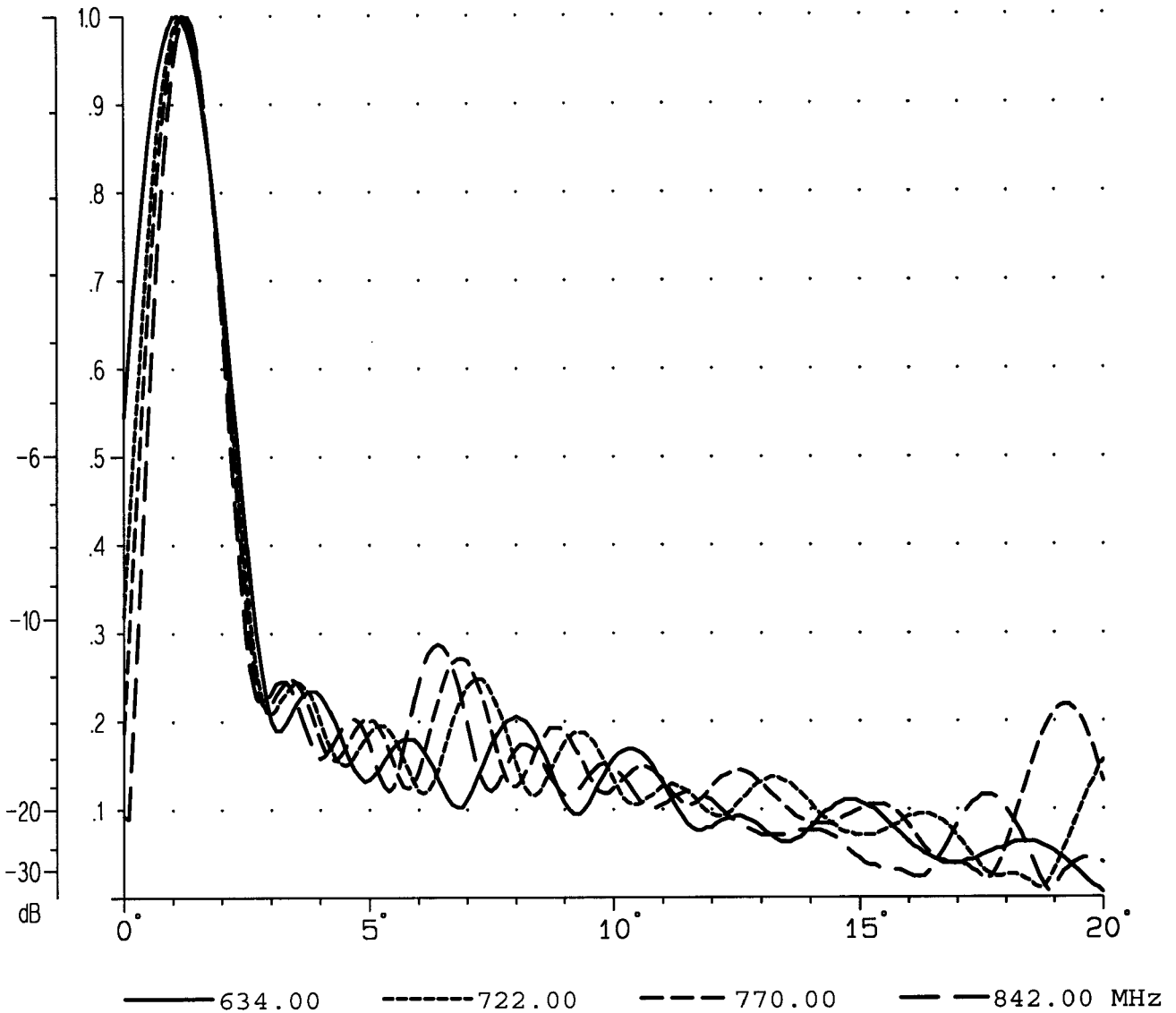
VERTICAL PATTERN

Frequency: 634.00 MHz

Amplitude pattern: 184

No.	Distance (mm)	Rad.offset (mm)	Phase (°)		Power (times)
12	1100	0	280.0	-90	1.00
11	1100	0	250.0	-90	1.00
10	1100	0	269.0	-90	1.00
9	1100	70	211.0	-90	1.00
8	1100	70	196.0	-90	1.00
7	1100	0	302.0	-90	1.00
6	1100	0	114.0		1.00
5	1100	0	84.0		1.00
4	1100	70	6.0		1.00
3	1150	0	44.0		1.00
2	1100	70	0.0		1.00
1	0	0	23.0		1.00

const.  
Comp= 76 %



20-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	HOVDEFJELL	75913471

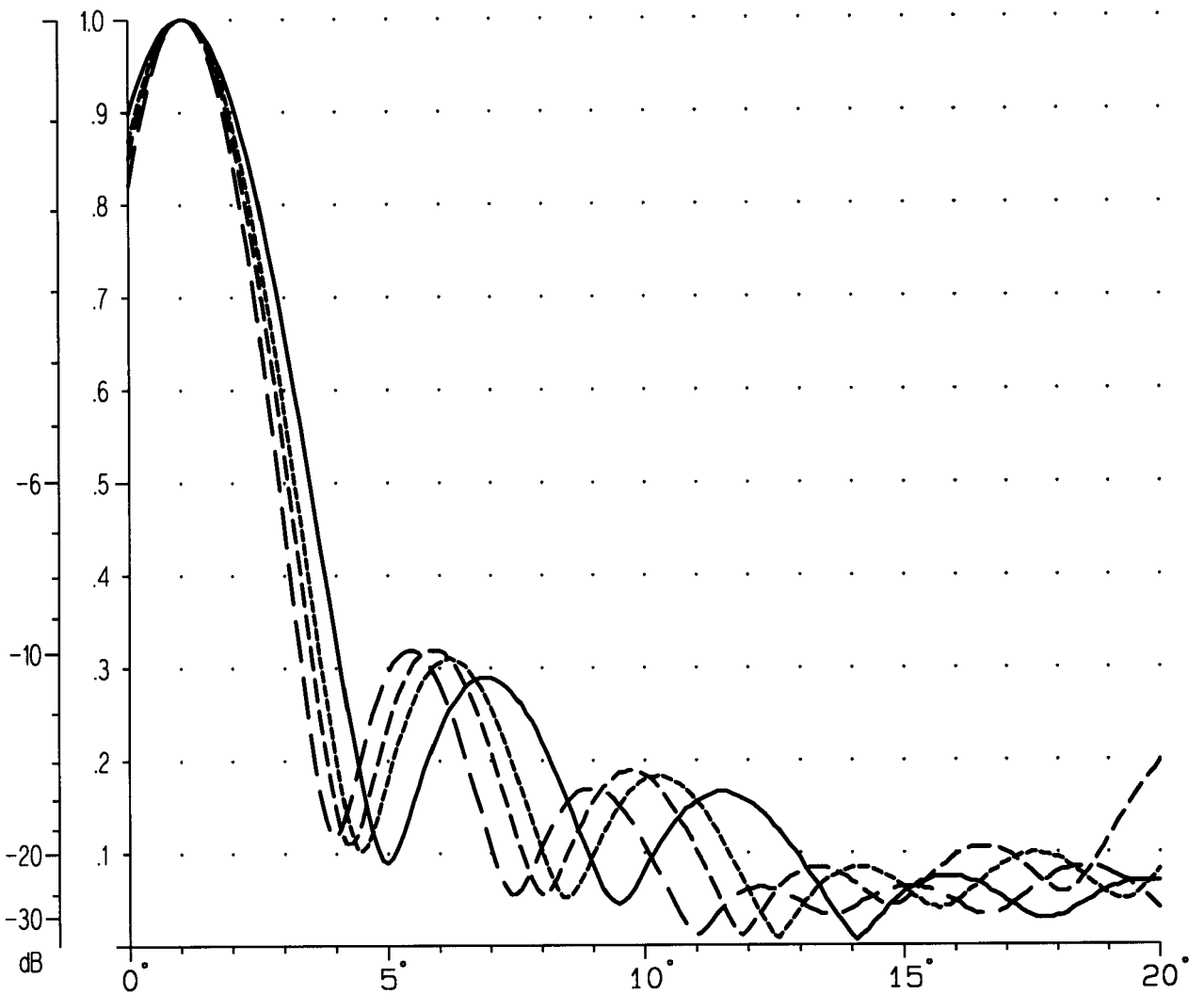
VERTICAL PATTERN

Frequency: 634.00 MHz

Amplitude pattern: 184

No.	Distance(mm)	Rad.offset(mm)	Phase(°)		Power(times)
12	1100	0	280.0	-90	0.00
11	1100	0	250.0	-90	0.00
10	1100	0	269.0	-90	0.00
9	1100	70	211.0	-90	0.00
8	1100	70	196.0	-90	0.00
7	1100	0	302.0	-90	0.00
6	1100	0	114.0		1.00
5	1100	0	84.0		1.00
4	1100	70	6.0		1.00
3	1150	0	44.0		1.00
2	1100	70	0.0		1.00
1	0	0	23.0		1.00

const.  
Comp= 71 %



—— 634.00      - - - - 722.00      - . - . 770.00      - - - - 842.00 MHz

20-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	HOVDEFJELL Lower Half Antenna	75913471

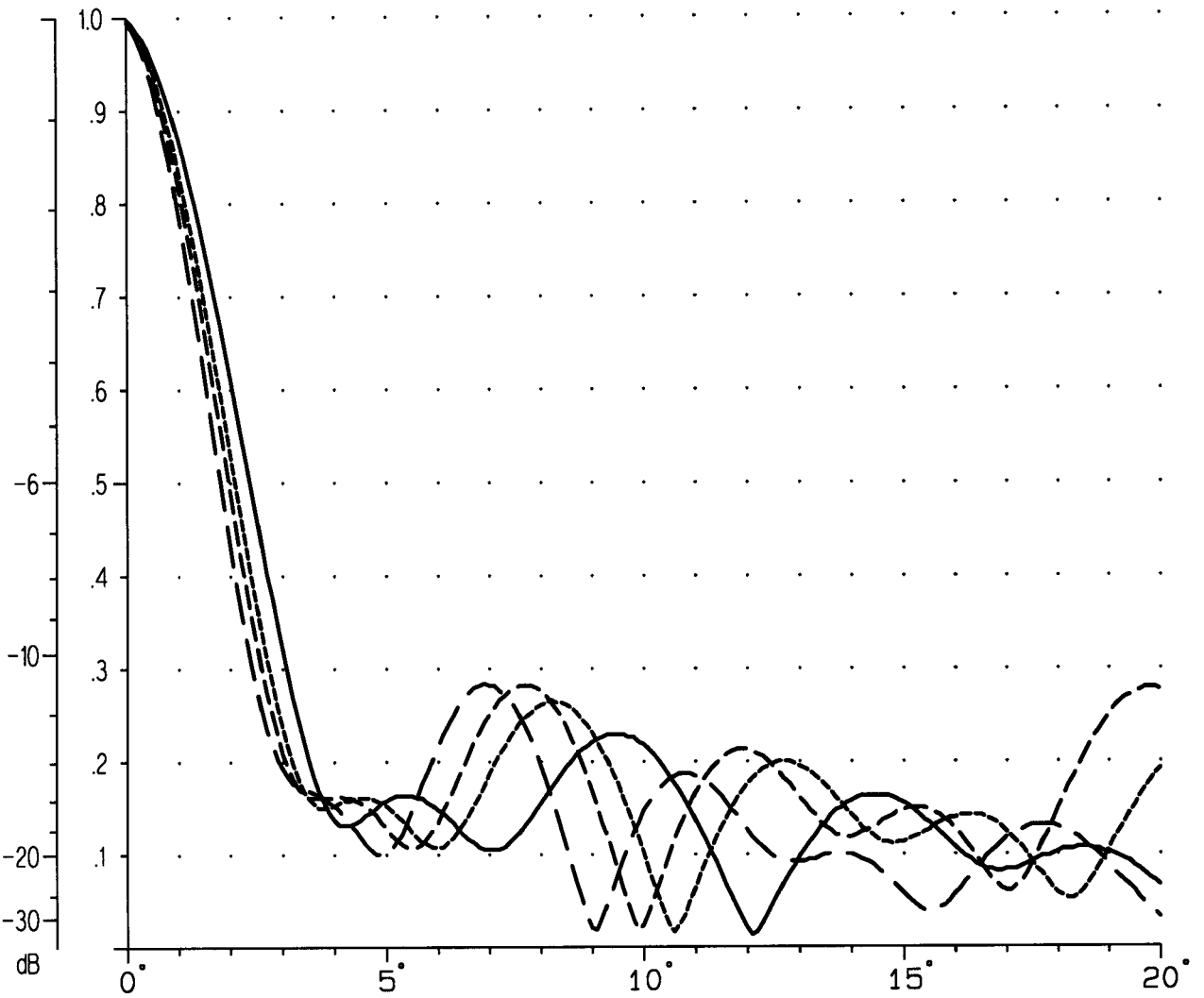
VERTICAL PATTERN

Frequency: 634.00 MHz

Amplitude pattern: 184

No.	Distance(mm)	Rad.offset(mm)	Phase(°)		Power(times)
12	1100	0	280.0	-90	1.00
11	1100	0	250.0	-90	1.00
10	1100	0	269.0	-90	1.00
9	1100	70	211.0	-90	1.00
8	1100	70	196.0	-90	1.00
7	1100	0	302.0	-90	1.00
6	1100	0	114.0		0.00
5	1100	0	84.0		0.00
4	1100	70	6.0		0.00
3	1150	0	44.0		0.00
2	1100	70	0.0		0.00
1	0	0	23.0		0.00

const.  
Comp= 66 %



— 634.00      - - - - 722.00      - . - . - 770.00      - - - - 842.00 MHz

20-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	HOVDEFJELL Upper Half Antenna	75913471



## BAUKASTEN-STÜCKLISTE

75913471

DVB-SA Hovdefjell

Kommission:

Änd.-Nr.:

Ausdruck: 29.02.08

wirks. ab: 3.03.98

Blatt: 1

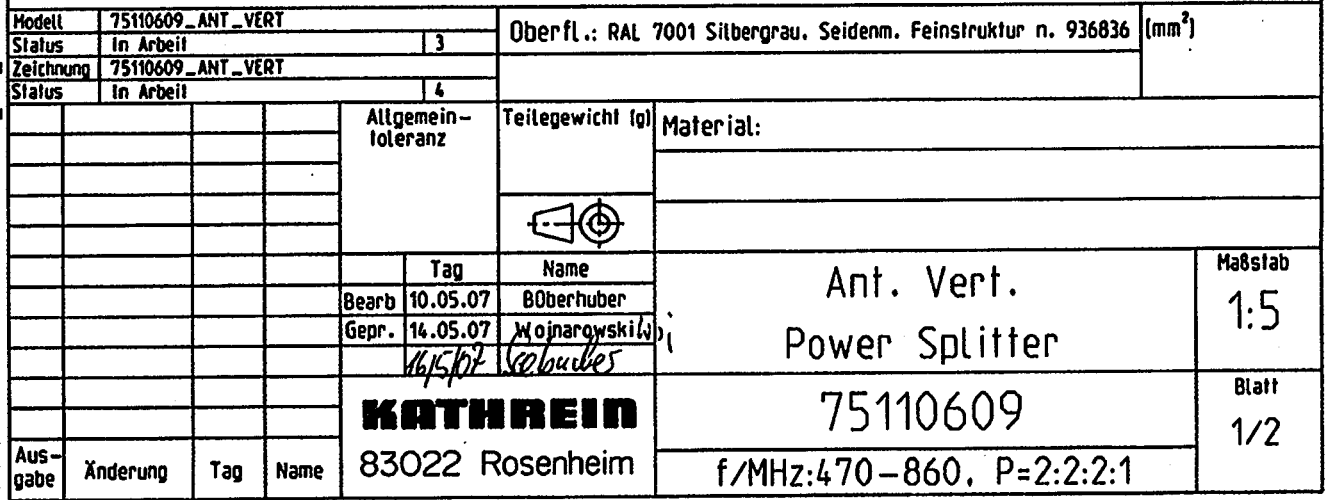
Alt.: 0

Var.: 0

Pos.	Al	K	Komponente	Bezeichnung	Menge	ME	D
0010	0		75010175	UHF FELD 4D 716 H GRAU	48,000	ST	
0020	0		75110609	UHF 4XVERT N OA 30 133>716 2:2:2:1	12,000	ST	
0030	0		717048	UHF 6XVERT L MA 76 318>133	2,000	ST	
0040	0		0921195	Messtrennstück 3 1/8 EIA	2,000	ST	
0050	0		0921111	Kupplungselement 3 1/8" BN: 918710	2,000	ST	
0060	0		072383	Gelenk-Hakenschlüssel	2,000	ST	
0070	0		75913471-80	Verkabelung	1,000	ST	
0080	0		75913471-90	Träger kpl.	1,000	ST	
0090	0		1698959	Innenleuchte kpl.	4,000	ST	
0100	0		172664	Schalter HNA TYP 119	1,000	ST	
0110	0		914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J 4x2,5	25,000	M	
0120	0		914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J 4x2,5	25,000	M	
0130	0		914717	EMV-Motoranschl-Leit.2YSL(St)CYv-J 4x1,5	25,000	M	
0140	0		1721395	VERSCHLUSS KPL	2,000	ST	
0150	0		1698021	Schelle kpl.	24,000	ST	
0160	0		0355696	Winkel 147x147x950	16,000	ST	
0170	0		1697738	Schelle kpl. D80mm	2,000	ST	
0180	0		1698145	Schelle kpl. D=80	2,000	ST	
0190	0		0335158	Vertikalträger L800	4,000	ST	
0200	0		0722065	Y-Baum	1,000	ST	
0210	0		0722053	Endsperre	1,000	ST	
0220	0		172818	Steigsperre unten	1,000	ST	
0230	0		0722055	Befestigungsbügel oben	1,000	ST	
0240	0		0722056	Befestigungsbügel unten	1,000	ST	
0250	0		9202524	M 5X50 D933 ER	10,000	ST	
0270	0		9203013	M 6X25 D965 ER	10,000	ST	

Pos.	Al	K	Komponente	Bezeichnung			Menge	ME	D
0275	0	920396	M 6X30	D933	ER		10,000	ST	
0280	0	920464	M 10X30	D933	ER		10,000	ST	
0290	0	920527	Hakenkopfschraube M 12X40 50/30 ST TZN				10,000	ST	
0300	0	924082	M 5	D934	ER		20,000	ST	
0310	0	924102	M 6	D934	ER		40,000	ST	
20	0	924150	M 10	D934	ER		20,000	ST	
0330	0	924180	M 12	D934	ER		20,000	ST	
0340	0	926102	SCHEIBE A 5,3 D125 ER				10,000	ST	
0350	0	926122	Federr A 6 D128 ER				10,000	ST	
0360	0	926129	Scheibe A 6,4 D125 ER				20,000	ST	
0370	0	926172	Scheibe A10,5 D125 ER				20,000	ST	
0380	0	926250	Scheibe A13 D125 ER				10,000	ST	
0390	0	928931	Blindniet 4x10,2 ER				100,000	ST	
0400	0	9339345	Verp.Aufkl. 75913471				1,000	ST	
0410	0	995132	Sikaflex 221T grau Dichtmasse				50,000	ST	
420	0	072135	Kabelbinder L=340				400,000	ST	
0430	0	072613	Schlingband TY 29 M-X				100,000	ST	

Database saved: 14.05.2007 16:27:48 - 75110609 ANT\_VERT1

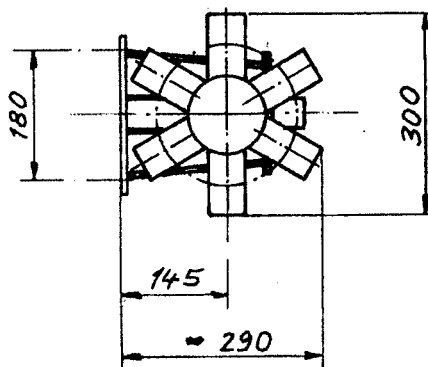


Technical drawing of a vertical assembly, likely a component of a machine or structure. The drawing shows a central vertical shaft or rod with various components attached. Dimensions are indicated on the left side:

- Total height: 905
- Distance from top to the first major component: 550
- Distance from the first major component to the bottom: 400
- Distance from the bottom to the first major component: 70
- Distance from the first major component to the second major component: 80

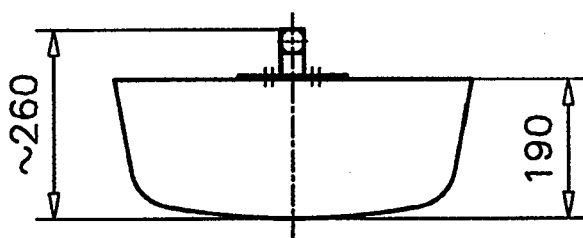
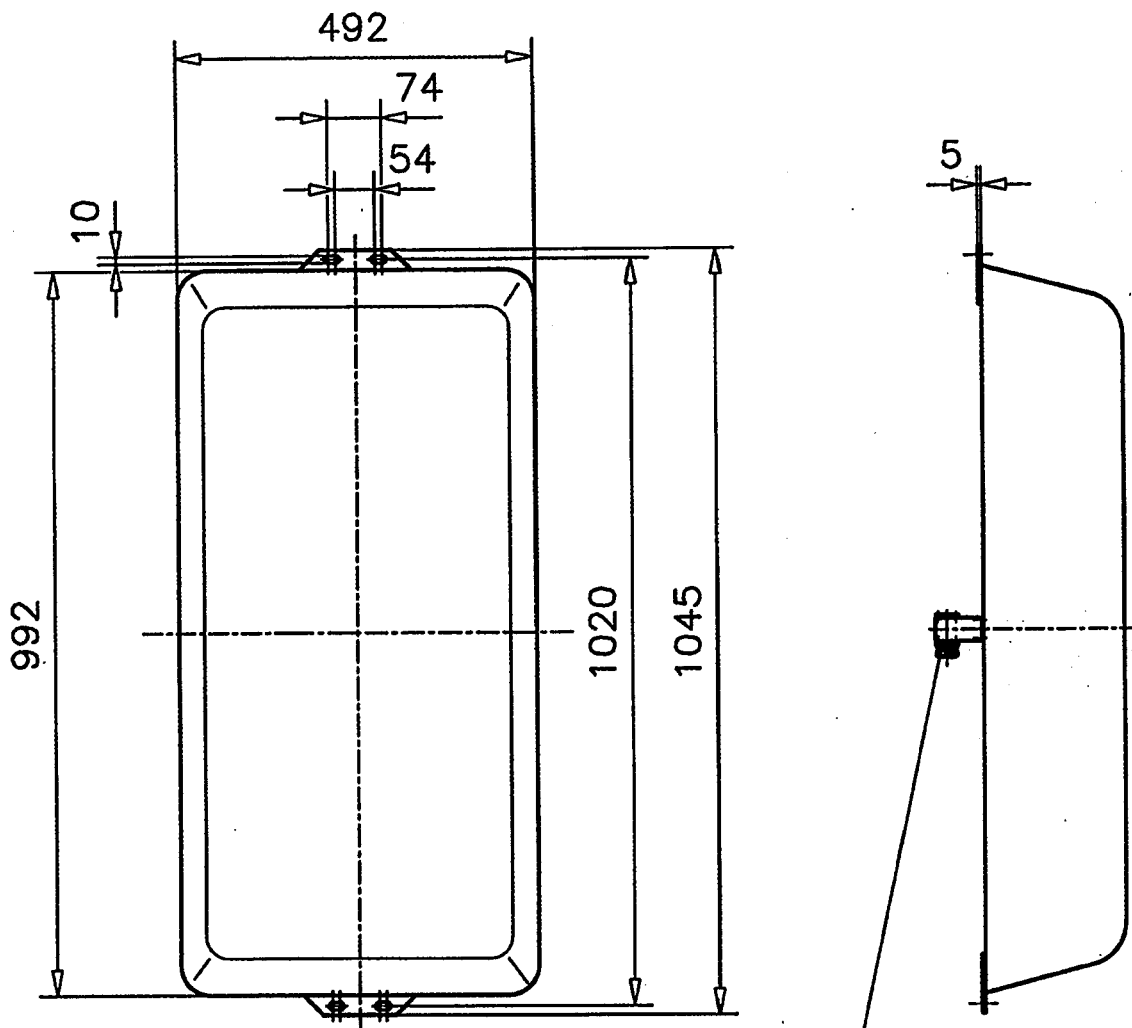
Labels and specifications include:

- $\phi 11$  (indicating a diameter of 11 units) is shown twice, pointing to different components.
- $6 \times 13/30 Ku$  is written near the top right.
- $3 \frac{1}{8}" EIA$  is written at the bottom right.



				Fremdstoleranz	Rohgew. %	Oberfl.: _____ _____	
				Tag	Name		
			Bearb.				
			Gepr	17.2.84	Aischer	F IV/V-Antennenverteiler	Maßstab 1:10
a	5	neuerst.	17.2.84	Aischer	KATHREIN-Werke KG	717 048	Blatt 1
Aus- gabe	Anderung	Tag	Name		82 Rosenheim 2		

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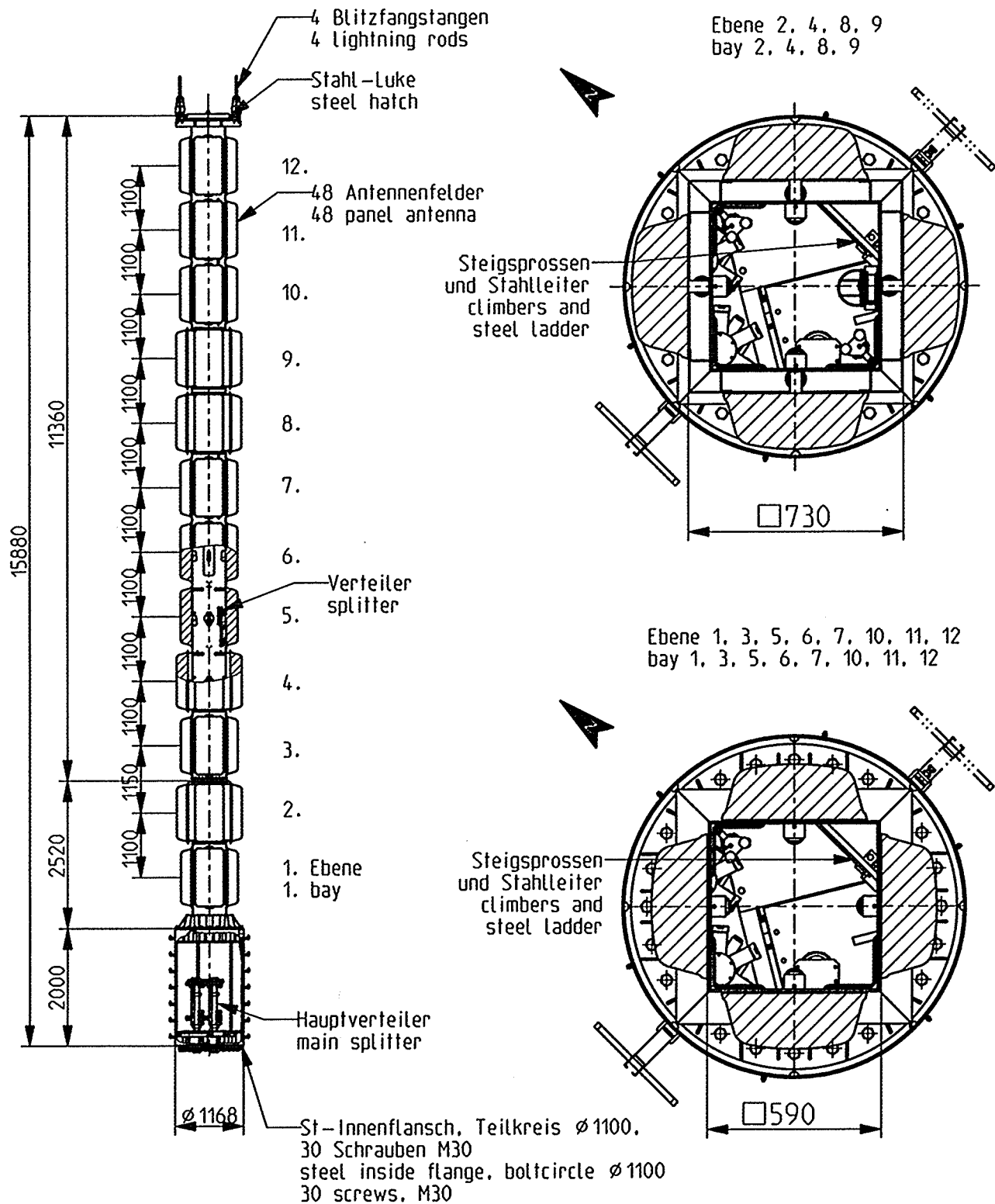
**Befestigungsteile:**

- 920409 M8x35 DIN933 ER (4x)
- 926156 A8,4 DIN125 ER (4x)
- 924130 M8 DIN934 ER (8x)

database saved 02.05.2006 08:19:09

				Allgemein- toleranz	Rohgewicht  ca. 9,5 kg	Oberfl.: steingrau RAL 7030	
				Tag	Name	Richtantenne Directional Antenna	Maßstab  1:10
			Bearb.	02.05.06	Heinrich		
			Gepr.	02.05.06	Seebacher		
				2.12.06	Stahn	750 10175	Blatt  1
				<b>KATHREIN</b>	83022 Rosenheim	f/MHz: 470 – 860	
Aus- gabe	Änderung	Tag	Name				

CAD generated



Modell	75913471_HOVDEFJELL				Oberfl.:	[mm²]
Status	In Arbeit					
Zeichnung	75913471_HOVDEFJELL					
Status	In Arbeit				Teilegewicht (g)	Material:
				Allgemein- toleranz	