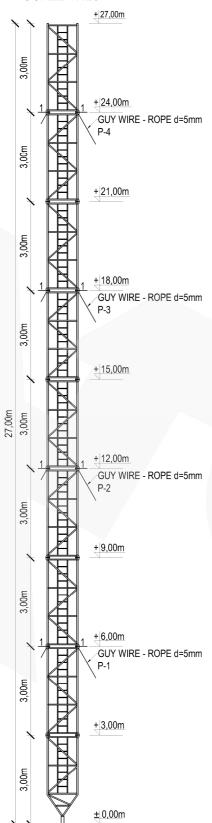


ASSEMBLY DRAWING

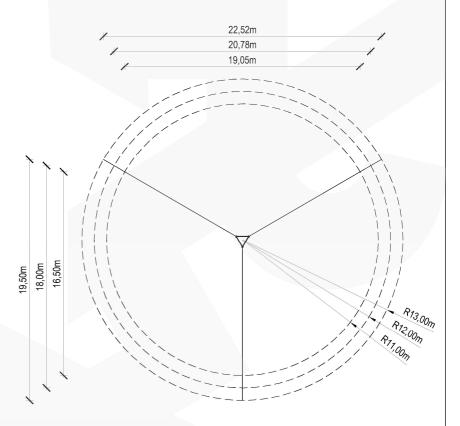
SCALE 1:125



TYPICAL MAST M1000F/H27

GUY WIRES RANGE

SCALE 1:300



NOTES:

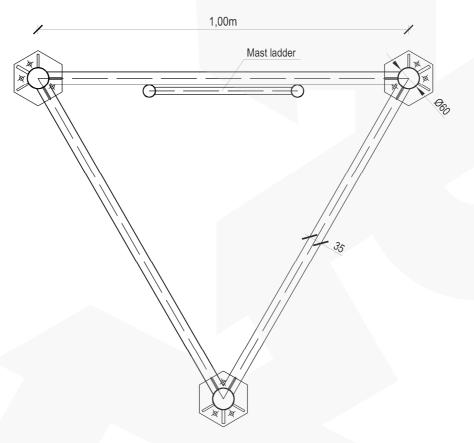
- 1. Typical mast construction M1000F/H27
- 2. Aluminum alloy: EN AW-6005A T6
- 3. Connections: fillet welded with TIG (GTAW) argon methode by the requirements of ISO 3834-2
- 4. Results may vary depending on local geometry and mast foundation
- 5. Characteristic wind speed: V_k=22m/s
 6. Terrain category: II
- Reliability class: II
- Ice density: 700kg/m³
- 9. Ice thickness: 2,0cm
- 10. Equipment total weight limit on the mast: 150kg
- 11. Equipment area on the mast:
 - · S=2,5m² at the top of the mast
- 12. Calculations made for anchorages in distances:
 - L=11,0m; 12,0m lub 13,0m
- 13. Mast must be set under construction law
- 14. Construction on which mast will be located must be able to transfer reactions
- 15. Lead assembly with wind speed not more than 5m/s
- 16. Guy wires: steel ropes 5mm Rm=1770MPa T6x7 by EN 12385
- 17. Initial tension of guy wires: from 8% to 15% of rated breaking strength of the guy

Manufacturer:	RETIS WWW.RETIS.PL WWW.MASZTY-F	RETIS.PL		
Investment:	SERIES OF ALUMINUM	LATTICE MASTS - TYPE-10	00F	
Drawing title: TYPICAL	MAST M1000F/H27 - ASSEM	MBLY DRAWING + GUY WIR	ES RANGE	
Date:	Phase:	Project No.:	Revision:	
02.2013	typical proje	ect RETIS M1000F		
Industry: construction	Project No.: RETIS_K	Project No.: RETIS_KK_M1000F_H27_01		

TYPICAL MAST M1000F/H27

SECTION 1-1

SCALE 1:10



Maximum reactions for the anchorages:

[kN]	Base	Guys
	F _x =1,34	F _x =16,14
L=11,0	$F_{v}=1,32$	F _y =16,80
	F _z =52,12	F _z =26,55
	F _x =1,42	F _x =16,35
L=12,0	F _y =1,40	F _v =17,22
·	F _z =49,15	F _z =24,57
	F _x =1,49	F _x =16,41
L=13,0	F _y =1,51	F _v =17,55
	F _z =47,02	F _z =23,02

Maximum forces in guy wire ropes for distances:

[m] [kN]	P-1	P-2	P-3	P-4
L=11,0	6,63	7,67	10,45	11,05
L=12,0	6,36	7,16	9,91	10,63
L=13,0	6,22	6,72	9,41	10,27

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Manufacturer:	RETIS WWW.RE	TIS.PL WWW.MASZTY-RETIS.PI	-	
Investment:	SERI	ES OF ALUMINUM LATT	ICE MASTS - TYPE- 100	0F
Drawing title:	TY	PICAL MAST M1000F/H2	27 - SECTION + FORCES	i
Date:		Phase:	Project No.:	Revision:
02.2013		typical project	RETIS M1000F	
Industry: construction	1	Project No.: RETIS_KK_N	/1000F_H27_02	