

ASSEMBLY DRAWING

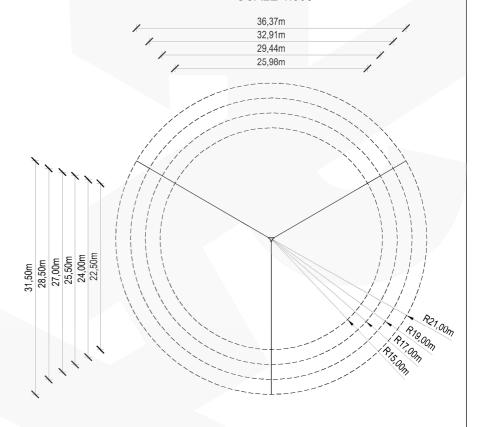
SCALE 1:200

+ 42,00m + 39,00m GUY WIRE - ROPE d=5mm P-7 + 36,00m GUY WIRE - ROPE d=5mm + 33,00m 3,00m + 30,00m GUY WIRE - ROPE d=5mm P-5 + 27,00m 3,00m + 24,00m GUY WIRE - ROPE d=5mm 3.00m + 21,00m + 18,00m GUY WIRE - ROPE d=5mm P-3 + 15,00m 3,00m + 12,00m GUY WIRE - ROPE d=5mm + 9,00m 3,00m + 6,00m GUY WIRE - ROPE d=5mm P-1 + 3,00m ± 0,00m

TYPICAL MAST M650F/H42

GUY WIRES RANGE

SCALE 1:500



NOTES:

- 1. Typical mast construction M650F/H42
- 2. Aluminum alloy: EN AW-6005A T6
- 3. Connections: fillet welded with TIG (GTAW) argon methode by the requirements of ISO 3834-2
- Results may vary depending on local geometry and mast foundation
- Characteristic wind speed: V_k=22m/s
- Terrain category: II Reliability class: II
- Ice density: 700kg/m³
- Ice thickness: 2,0cm
- 10. Equipment total weight limit on the mast: 100kg
- 11. Equipment area on the mast:
 - S=1,5m² at the top of the mast
- 12. Calculations made for anchorages in distances:
- L=15,0m/17,0m or 17,0m/19,0m or 19,0m/21,0m
- 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

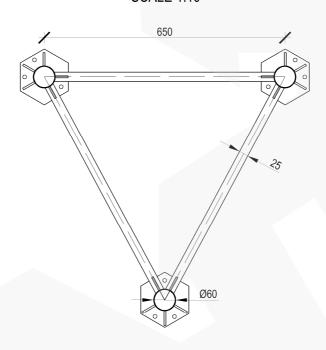
Manufacturer:	RETIS www.retis.pl www.maszty-reti	3.PL	
Investment:	SERIES OF ALUMINUM LA	TTICE MASTS - TYPE- 650)F
Drawing title: TYPICA	L MAST M650F/H42 - ASSEMB	LY DRAWING + GUY WIRI	ES RANGE
Date:	Phase:	Project No.:	Revision:
02.2013	typical project	RETIS M650F	
Industry: construction	Project No.: RETIS_KK	 _M650F_H42_01	1

TYPICAL MAST M650F/H42



SECTION 1-1

SCALE 1:10



Maximum reactions for the anchorages:

[kN]	Base	Guys
1 45 047 0	F _x =1,06	F _x =11,77
L=15,0/17,0	F _v =1,09	F _v =12,79
	F _z =61,08	F _z =24,94
	F _x =1,11	F _x =11,86
L=17,0/19,0	F _v =1,16	F _v =12,97
	F _z =56,26	F _z =22,60
	F _x =1,16	F _x =11,95
L=19,0/21,0	F _v =1,21	F _v =13,11
	F _z =54,33	F _z =20,69

Maximum forces in guy wire ropes for distances:

[kN]	P-1	P-2	P-3	P-4	P-5	P-6	P-7
L=15,0/17,0	4,92	4,33	4,50	5,44	6,72	8,02	8,60
L=17,0/19,0	5,00	4,94	4,26	5,04	6,19	7,48	8,08
L=19,0/21,0	5,05	4,64	4,17	4,76	5,79	7,04	7,67

- 1. Typical mast construction M650F/H42
- Aluminum alloy: EN AW-6005A T6
 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
- 7. Reliability class: II
 8. Ice density: 700kg/m³
- 9. Ice thickness: 2,0cm
- 10. Equipment total weight limit on the mast: 100kg
- 11. Equipment area on the mast:
- S=1,5m² at the top of the mast 12. Calculations made for anchorages in distances: L=15,0m/17,0m or 17,0m/19,0m or 19,0m/21,0m
- 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-retis.pl					
Investment: SERIES OF ALUMINUM LATTICE MASTS - TYPE- 650F						
Drawing title: TYPICAL MAST M650F/H42 - SECTION + FORCES						
Date: 02.2013		Phase: typical project	Project No.: RETIS M650F	Revision:		
Industry: construction	1	Project No.: RETIS_KK_M650F_H42_02				