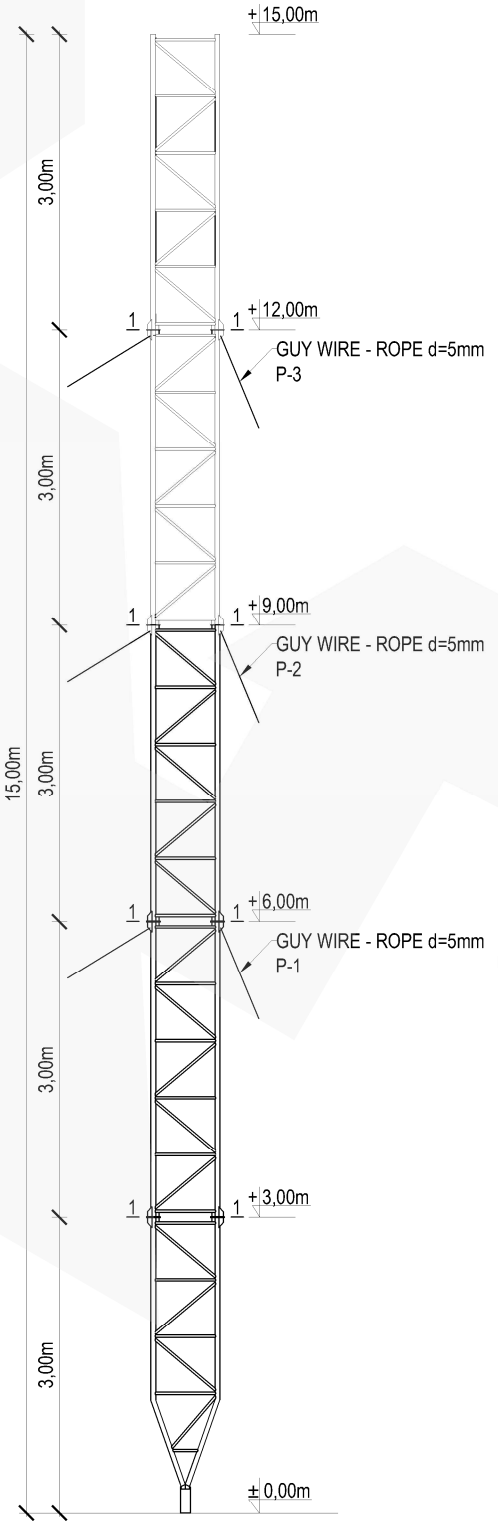
TYPICAL MAST M650F/H15

RETIS CONSTRUCTION

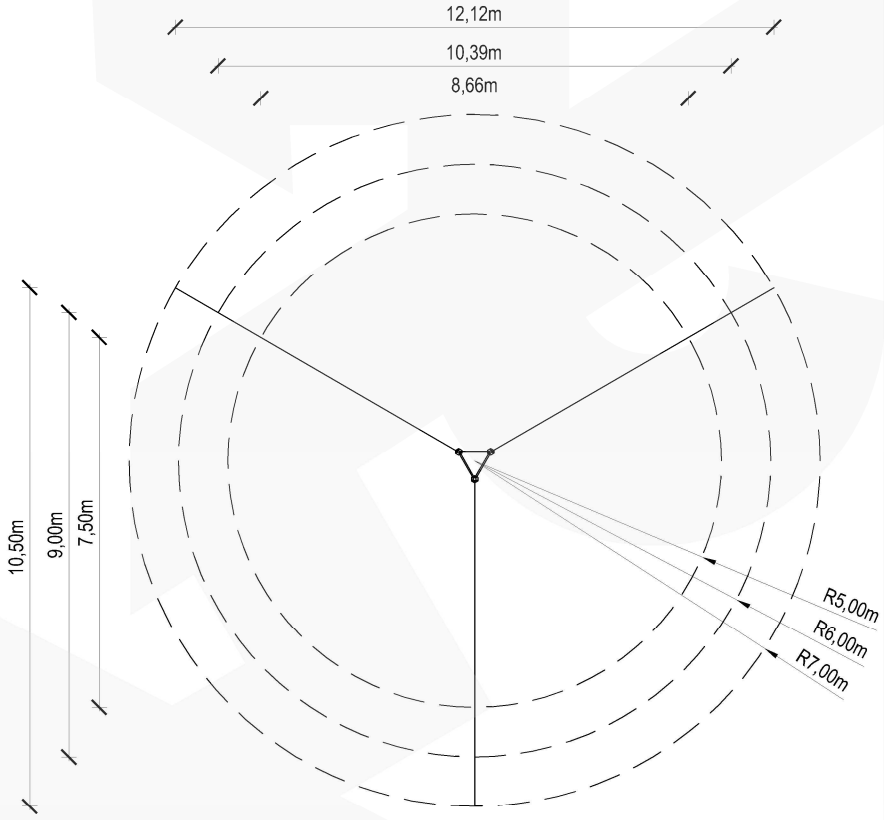
ASSEMBLY DRAWING

SCALE 1:75



GUY WIRES RANGE

SCALE 1:150



NOTES :

1. Typical mast construction M650F/H15
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
7. Reliability class: II
8. Ice density: 700kg/m^3
9. Ice thickness: 2,0cm
10. Equipment total weight limit on the mast: 100kg
11. Equipment area on the mast:
    - S=1,5m^2 at the top of the mast
12. Calculations made for anchorages in distances:
    L=5,0m; 6,0m or 7,0m
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

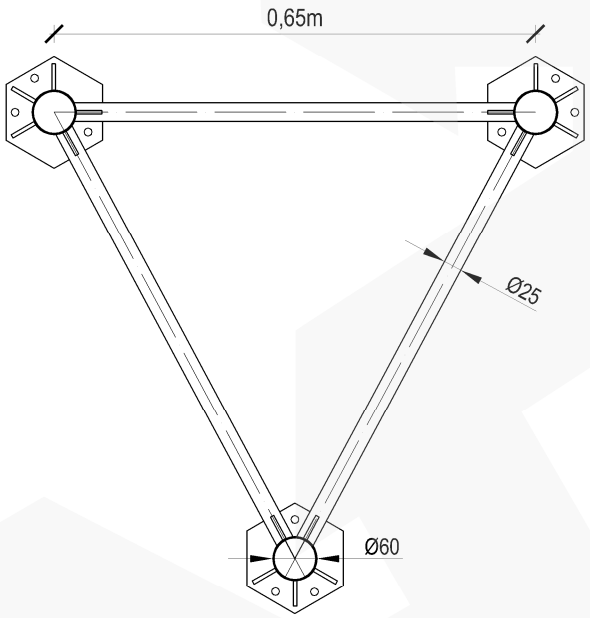
Manufacturer: RETIS WWW.RETIS.PL WWW.MASZTY-RETIS.PL			
Investment: SERIES OF ALUMINUM LATTICE MASTS - TYPE- 650F			
Drawing title: TYPICAL MAST M650F/H15 - ASSEMBLY DRAWING + GUY WIRES RANGE			
Date: 02.2013	**Phase:** typical project	**Project No.:** RETIS M650F	**Revision:** ...
Industry: construction	**Project No.:** RETIS_KK_M650F_H15_01		

TYPICAL MAST M650F/H15

RETIS CONSTRUCTION

SECTION 1-1

SCALE 1:10



Maximum reactions for the anchorages:

[m] \ [kN]	Base	Guys
L=5,0	F_x=0,84 F_y=0,69 F_z=31,65	F_x=7,75 F_y=7,53 F_z=16,94
L=6,0	F_x=0,75 F_y=0,60 F_z=26,89	F_x=7,72 F_y=7,56 F_z=14,16
L=7,0	F_x=0,66 F_y=0,46 F_z=23,49	F_x=7,71 F_y=7,95 F_z=12,17

Maximum forces in guy wire ropes for distances:

[m] \ [kN]	P-1	P-2	P-3
L=5,0	5,58	6,53	8,26
L=6,0	4,53	5,65	7,71
L=7,0	3,88	5,01	7,29

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Investment:	SERIES OF ALUMINUM LATTICE MASTS - TYPE- 650F		
Drawing title:	TYPICAL MAST M650F/H15 - SECTION + FORCES		
Date: 02.2013	**Phase:** typical project	**Project No.:** RETIS M650F	**Revision:** ...
Industry: construction	**Project No.:** RETIS_KK_M650F_H15_02		