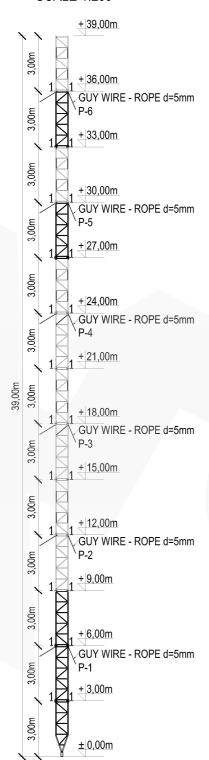


ASSEMBLY DRAWING

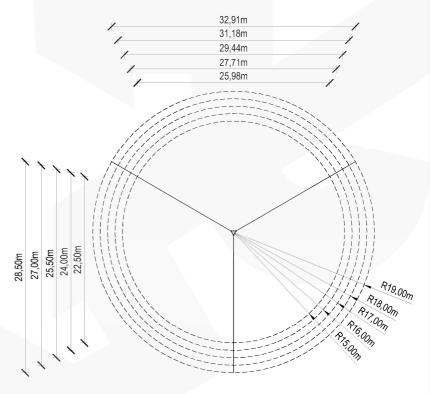
SCALE 1:200



TYPICAL MAST M650F/H39

GUY WIRES RANGE

SCALE 1:500



NOTES:

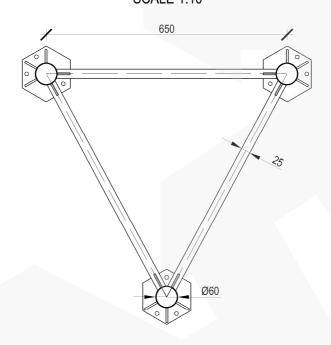
- 1. Typical mast construction M650F/H39
- 2. Aluminum alloy: EN AW-6005A T6
- 3. Connections: fillet welded with TIG (GTAW) argon methode by the requirements of ISO 3834-2
- 4. Results may vary depending on local geometry and mast foundation
- Characteristic wind speed: V_k=22m/s
- Terrain category: II
- Reliability class: II
- 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 16,0m/18,0m or 17,0m/19,0m
- 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-RET	S.PL			
Investment:	SERIES OF ALUMINUM LA	TTICE MASTS - TYPE- 650	F		
Drawing title: TYPICA	AL MAST M650F/H39 - ASSEM	BLY DRAWING + GUY WIR	ES RANGE		
Date: 02.2013	Phase: typical project	Project No.: RETIS M650F	Revision:		
Industry: construction	Project No.: RETIS_KK	Project No.: RETIS_KK_M650F_H39_01			

TYPICAL MAST M650F/H39



SECTION 1-1 SCALE 1:10



Maximum reactions for the anchorages:

[kN]	Base	Guys
	F _x =1,01	F _x =11,04
L=15,0/17,0	F _v =1,06	F _v =11,27
	F _z =56,91	F _z =23,42
	F _x =1,05	F _x =11,07
L=16,0/18,0	F _v =1,00	F _v =11,32
	F _z =54,35	F _z =22,18
	F _x =1,08	F _x =11,10
L=17,0/19,0	F _v =1,03	F _y =11,36
	F _z =52,08	F _z =21,06

Maximum forces in guy wire ropes for distances:

[kN]	P-1	P-2	P-3	P-4	P-5	P-6
L=15,0/17,0	4,48	3,77	4,55	6,35	8,89	11,74
L=16,0/18,0	4,56	3,76	4,38	6,02	8,51	11,36
L=17,0/19,0	4,63	3,86	4,25	5,75	8,16	11,03

- Typical mast construction M650F/H39
 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/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 16,0m/18,0m or 17,0m/19,0m
- Mast must be set under construction law
 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 $\overline{\text{5mm Rm}}$ =1770MPa $\overline{\text{T6x7}}$ by EN 12385
- 17. Initial tension of guy wires: from 8% to 15% of rated breaking strength of the guy

Manufacturer:	RETIS WWW.RE	TIS.PL WWW.MASZTY-RETIS.P	L		
Investment:	SER	IES OF ALUMINUM LAT	TICE MASTS - TYPE- 650)F	
Drawing title: TYPICAL MAST M650F/H39 - SECTION + FORCES					
Date: 02.2013		Phase: typical project	Project No.: RETIS M650F	Revision:	
Industry: construction	n	Project No.: RETIS_KK_N			