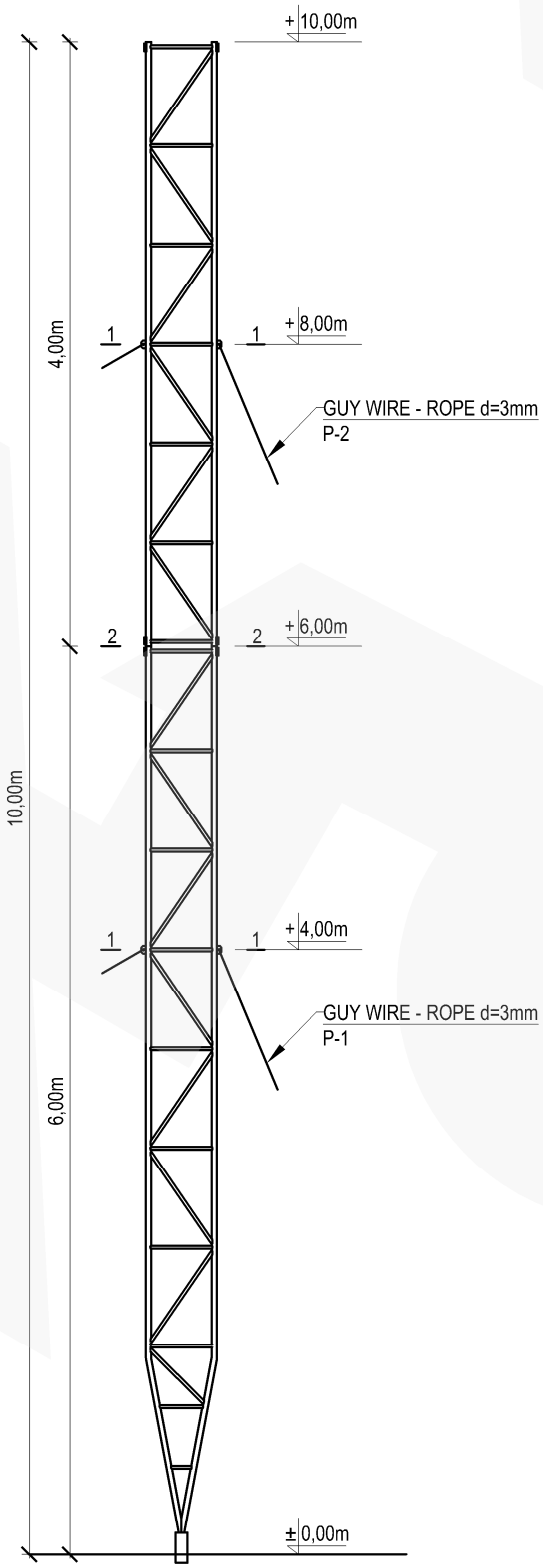
TYPICAL MAST M435/H10

RETIS CONSTRUCTION

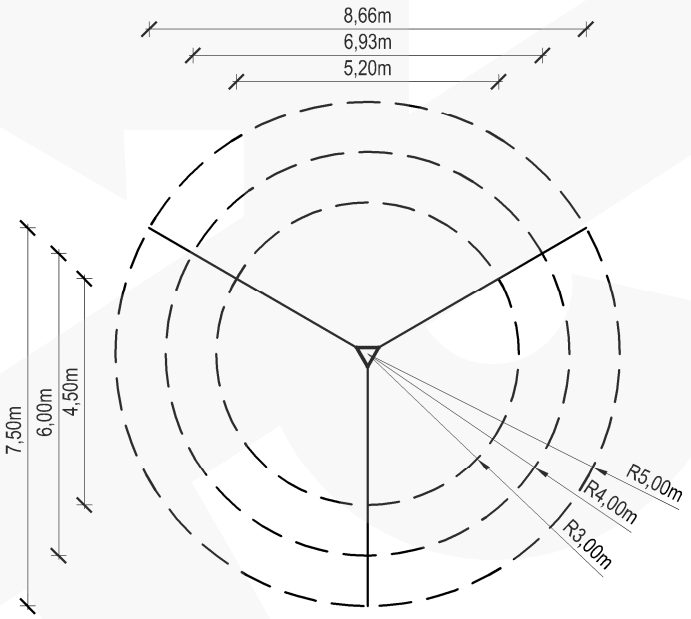
ASSEMBLY DRAWING

SCALE 1:50



GUY WIRES RANGE

SCALE 1:150



NOTES :

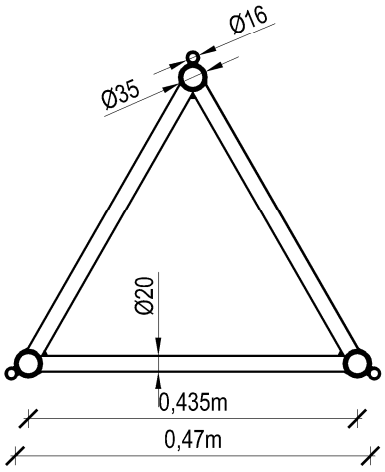
1. Typical mast construction M435/H10
2. Aluminum alloy: EN AW-6005A T6
3. Connections: fillet welded with TIG (GTAW) argon methode by the requirements of ISO 3834-2
4. Results may vary depending on local geometry and mast foundation
5. Characteristic wind speed: V_k=22m/s
6. Terrain category: II
7. Reliability class: II
8. Ice density: 700kg/m^3
9. Ice thickness: 2,0cm
10. Equipment total weight limit on the mast: 60kg
11. Equipment area on the mast:
    - S=0,5m^2 at the top of the mast
12. Calculations made for anchorages in distances:
    L=3,0m or 4,0m or 5,0m
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 3mm Rm=1770MPa T1x19 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-435			
Drawing title: TYPICAL MAST M435/H10 - ASSEMBLY DRAWING + GUY WIRES RANGE			
Date: 02.2013	**Phase:** typical project	**Project No.:** RETIS M435	**Revision:** ...
Industry: construction	**Project No.:** RETIS_KK_M435_H10_01		

TYPICAL MAST M435/H10

SECTION 1-1

SCALE 1:10

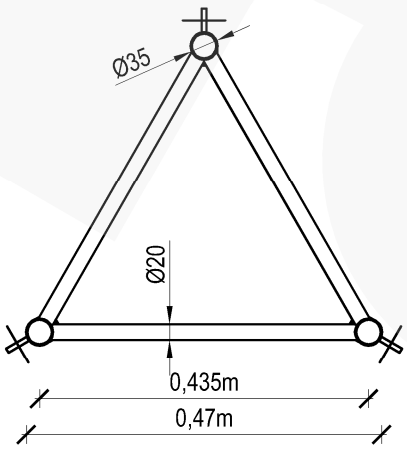


Maximum reactions for the anchorages:

[m] \ [kN]	Base	Guys
L=3,0	F_x=0,26 F_y=0,20 F_z=12,46	F_x=3,52 F_y=2,69 F_z=6,92
L=4,0	F_x=0,33 F_y=0,26 F_z=11,37	F_x=3,58 F_y=2,70 F_z=5,36
L=5,0	F_x=0,39 F_y=0,31 F_z=11,27	F_x=3,68 F_y=2,74 F_z=4,44

SECTION 2-2

SCALE 1:10



Maximum forces in guy wire ropes for distances:

[m] \ [kN]	P-1	P-2
L=3,0	3,84	4,25
L=4,0	2,99	3,72
L=5,0	2,59	3,34

NOTES :

1. Typical mast construction M435/H10
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: 60kg
11. Equipment area on the mast:
    - S=0,5m^2 at the top of the mast
12. Calculations made for anchorages in distances:
    L=3,0m or 4,0m or 5,0m
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 3mm Rm=1770MPa T1x19 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-435		
Drawing title:	TYPICAL MAST M435/H10 - SECTIONS + FORCES		
Date: 02.2013	**Phase:** typical project	**Project No.:** RETIS M435	**Revision:** ...
Industry: construction	**Project No.:** RETIS_KK_M435_H10_02		