

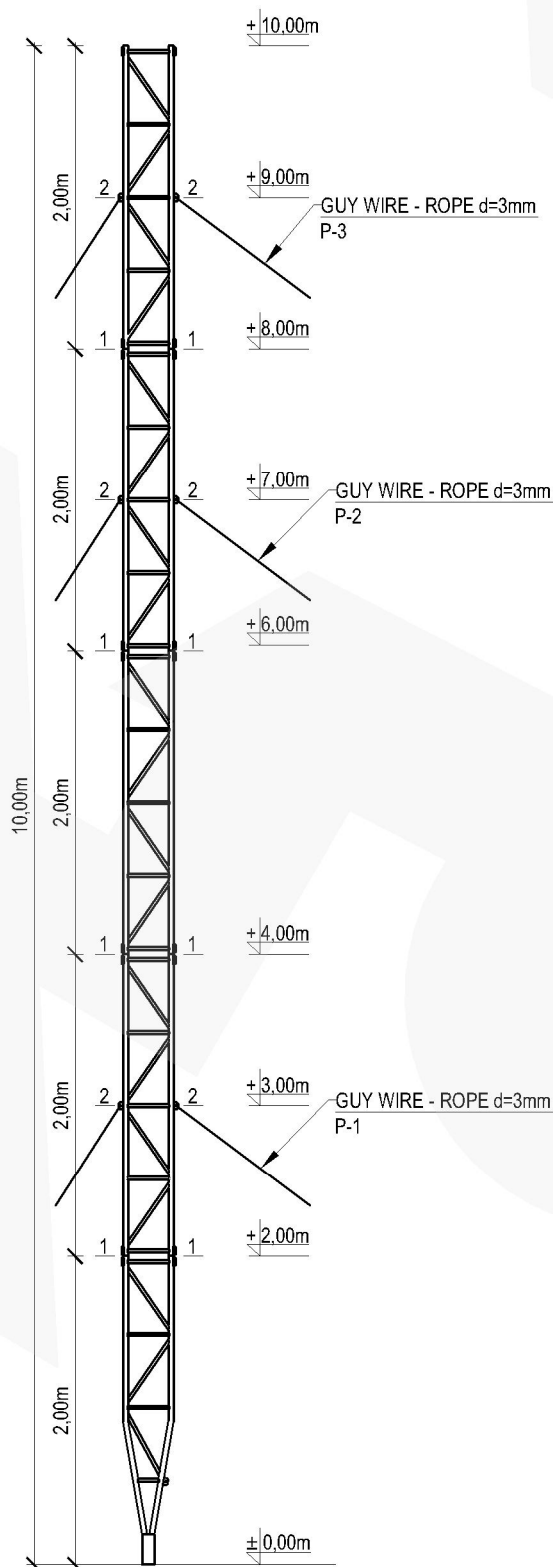


**RETIS®**  
CONSTRUCTION

# TYPICAL MAST M300/H10

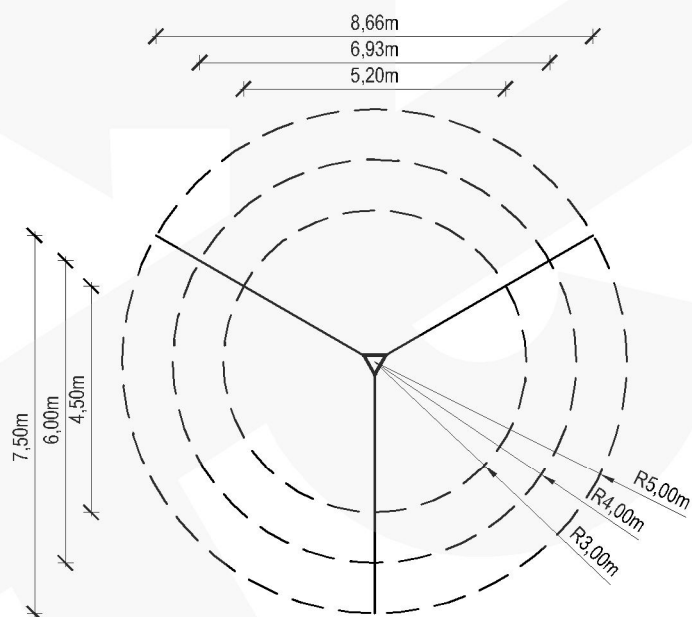
## ASSEMBLY DRAWING

SCALE 1:50



## GUY WIRES RANGE

SCALE 1:150



### NOTES :

1. Typical mast construction M300/H10
2. Aluminum alloy: EN AW-6005A T6
3. Connections: fillet welded with TIG (GTAW) argon method by the requirements of ISO 3834-2
4. Results may vary depending on local geometry and mast foundation
5. Characteristic wind speed:  $V_k=22\text{m/s}$
6. Terrain category: II
7. Reliability class: II
8. Ice density:  $700\text{kg/m}^3$
9. Ice thickness: 2.0cm
10. Equipment total weight limit on the mast: 60kg
11. Equipment area on the mast:  
-  $S=0.5\text{m}^2$  at the top of the mast
12. Mast must be set under construction law
13. Construction on which mast will be located must be able to transfer reactions
14. Lead assembly with wind speed not more than 5m/s
15. Guy wires: steel ropes 3mm  $R_m=1770\text{MPa}$  T1x19 by EN 12385
16. Initial tension of guy wires: from 8% to 15% of rated breaking strength of the guy

|                                                            |                      |              |           |
|------------------------------------------------------------|----------------------|--------------|-----------|
| Manufacturer:                                              |                      |              |           |
| RETIS<br>WWW.RETIS.PL WWW.MASZTY-RETIS.PL                  |                      |              |           |
| Investment:                                                |                      |              |           |
| SERIES OF ALUMINUM LATTICE MASTS - TYPE - 300              |                      |              |           |
| Drawing title:                                             |                      |              |           |
| TYPICAL MAST M300/H10 - ASSEMBLY DRAWING + GUY WIRES RANGE |                      |              |           |
| Date:                                                      | Phase:               | Project No.: | Revision: |
| 05.2013                                                    | typical project      | RETIS M300   | ...       |
| Industry:                                                  | Project No.:         |              |           |
| construction                                               | RETIS_KK_M300_H10_01 |              |           |

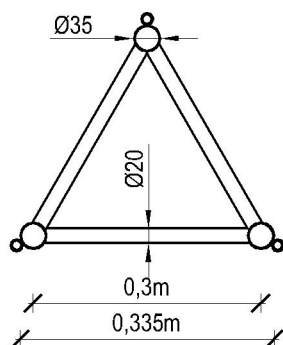


**RETIS®**  
CONSTRUCTION

# TYPICAL MAST M300/H10

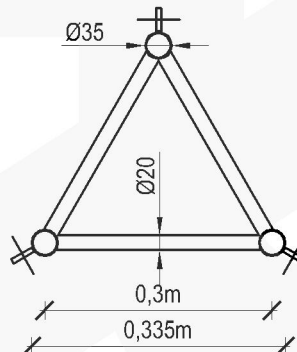
## SECTION 1-1

SCALE 1:10



## SECTION 2-2

SCALE 1:10



| Rope fi 3mm (1x19) | Clamps 3mm       | Patent eye 3mm     |
|--------------------|------------------|--------------------|
| 90mb               | 54szt.           | 18szt.             |
| Shackle 8mm        | Simple washer M8 | Selflocking nut M8 |
| 9szt.              | 24szt.           | 24szt.             |
| Simple nut M8      | Screw M8x180     | Roman screw        |
| 24szt.             | 12szt.           | 9szt.              |
| Lightning tip      | Caps             | Base               |
| 1szt.              | 3szt.            | kpl.               |

### NOTES :

1. Typical mast construction M300/H10
2. Aluminum alloy: EN AW-6005A T6
3. Connections: fillet welded with TIG (GTAW) argon method by the requirements of ISO 3834-2
4. Results may vary depending on local geometry and mast foundation
5. Characteristic wind speed:  $V_k=22\text{m/s}$
6. Terrain category: II
7. Reliability class: II
8. Ice density:  $700\text{kg/m}^3$
9. Ice thickness: 2,0cm
10. Equipment total weight limit on the mast: 60kg
11. Equipment area on the mast:
  - $S=0,5\text{m}^2$  at the top of the mast
12. Mast must be set under construction law
13. Construction on which mast will be located must be able to transfer reactions
14. Lead assembly with wind speed not more than 5m/s
15. Guy wires: steel ropes 3mm  $R_m=1770\text{MPa}$  T1x19 by EN 12385
16. Initial tension of guy wires: from 8% to 15% of rated breaking strength of the guy

|                                                                           |                                          |                                |                      |
|---------------------------------------------------------------------------|------------------------------------------|--------------------------------|----------------------|
| <b>Manufacturer:</b> RETIS<br>WWW.RETIS.PL WWW.MASZTY-RETIS.PL            |                                          |                                |                      |
| <b>Investment:</b> SERIES OF ALUMINUM LATTICE MASTS - TYPE-300            |                                          |                                |                      |
| <b>Drawing title:</b> TYPICAL MAST M300/H10 - SECTIONS + LIST OF ELEMENTS |                                          |                                |                      |
| <b>Date:</b> 06.2013                                                      | <b>Phase:</b> typical project            | <b>Project No.:</b> RETIS M300 | <b>Revision:</b> ... |
| <b>Industry:</b> construction                                             | <b>Project No.:</b> RETIS_KK_M300_H10_02 |                                |                      |