P.P.H.U. AL-SPAW Krzysztof Michalak Batory st. 29 63-400 Ostrów Wielkopolski Poland



Ostrów Wielkopolski, 15.12.2012

## Strength Analysis of the Mobile Stage ME-1 (5x6x5,1m)

It has been confirmed by calculations that the total load capacity (load limit) of the mobile stage ME-1 (dimensions: width-6m, length-5m, height-5,1m), with the modifications taken into account according to Appendix 4 of the Report No. 2012/12/02:

- 500 kg/m<sup>2</sup> uniform vertical load applied to the mobile stage platform,
- 350 kg uniform vertical load applied to the front and back part of the roof structure,
- 1000 kg uniform vertical load applied to the middle part of the roof structure,
- -50 kg load applied to each of the pillars (the quadrosystem 250) supporting the roof,

## The Weather Conditions:

Is allowed to utilize the mobile stage under the following weather conditions:

- Wind the allowable wind velocity limit during utilization of the mobile stage is 70 km/h.
- Snow the thickness of the snow layer on the roof of the mobile stage should not exceed 8 cm,
  otherwise it is necessary to provide the systematic snow removal action;

The calculations have been carried out according to the following standards:

DIN 4113-1, DIN 4113-2, DIN 18800-1, DIN EN 13782.

The detailed information concerning the calculations has been included into the Technical Report No. 2012/12/02.