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<i>Title</i> Frangibility study of the Normeka AmpliSafe Single Triangle Mast		

Summary

The frangibility, as described by the ICAO: Aerodrome design Manual [Part 6, First edition – 2006], of the “AmpliSafe Single Triangle Mast” from Normeka AS has been calculated. The frangibility study has been carried out using the finite element software LS-DYNA. Two heights of the mast are simulated; 2.9 m and 4.9 m.

The frangibility test has two acceptance criteria: The peak force level shall be below 45 kN and the absorbed energy shall be less than 55 kJ.

The main conclusion from the calculation was:

“The results of the calculations are that both the energy criterion and the “peak force”-criterion are fulfilled for both mast heights”.

Please also read Section 7.1 on the validity of the results.