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

Summary

The frangibility, as described by the ICAO: Aerodrome design Manual [Part 6, First edition – 2006], of the “AmpliSafe Single Square Mast” from Normeka AS has been calculated. The frangibility study has been carried out using the finite element software LS-DYNA.

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 study was:

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

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