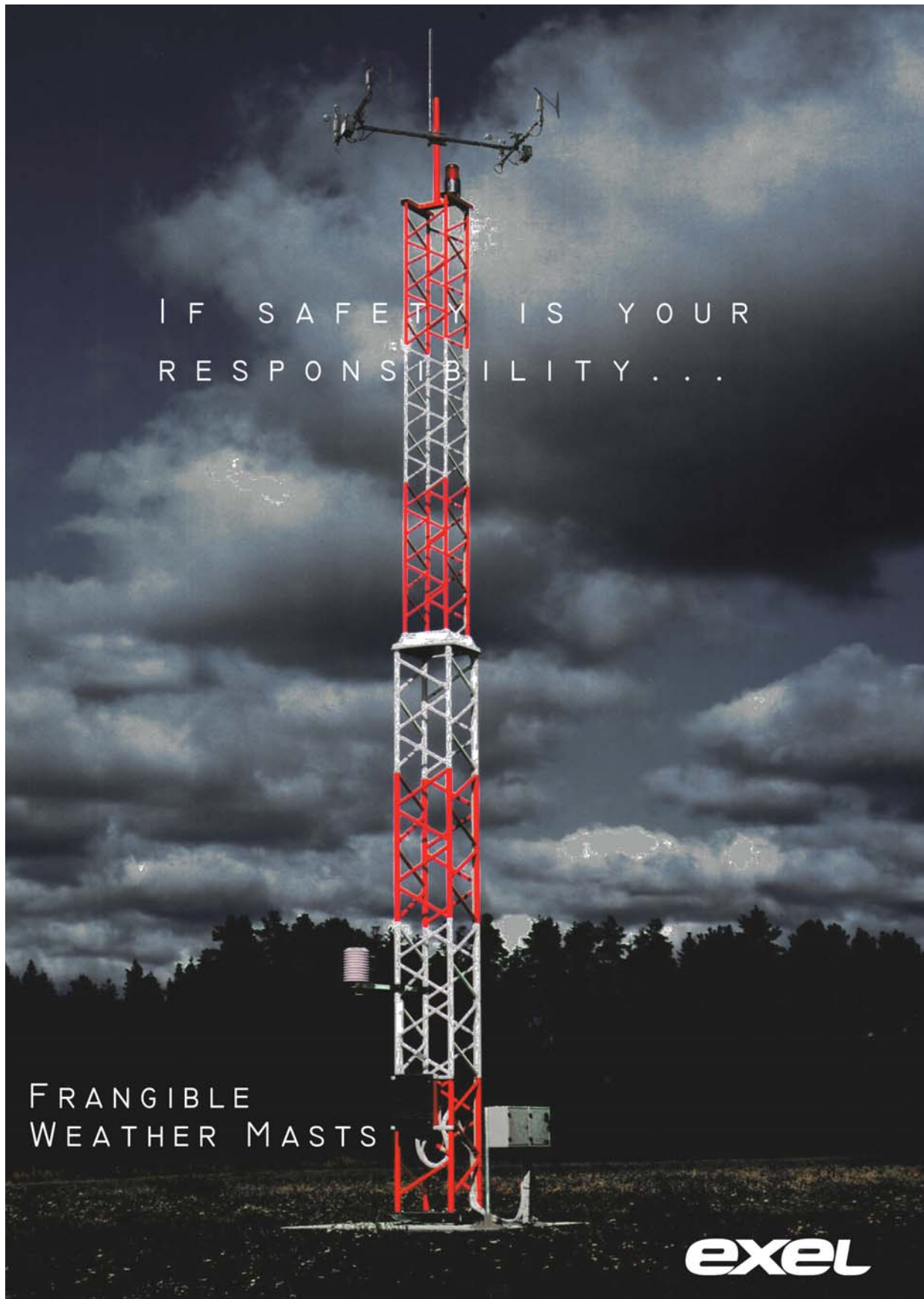


Weather Masts - Frangible Systems



IF SAFETY IS YOUR
RESPONSIBILITY...

FRANGIBLE
WEATHER MASTS

exel

ICAO's FRANGIBILITY RULING

ICAO lists on attachment C to State letter AN 4/1.1.37-91/64, Interim Guidance on Frangibility, para 1.2, **Obstacles to be made frangible** among other things:

- wind direction indicators
- anemometers
- ceilometers
- transmissometers

EXEL SAFETY MASTS

Exel masts are **full scale impact tested according to the interim guidance on frangibility and draft aerodrome design manual 6, chapters 4 & 5**

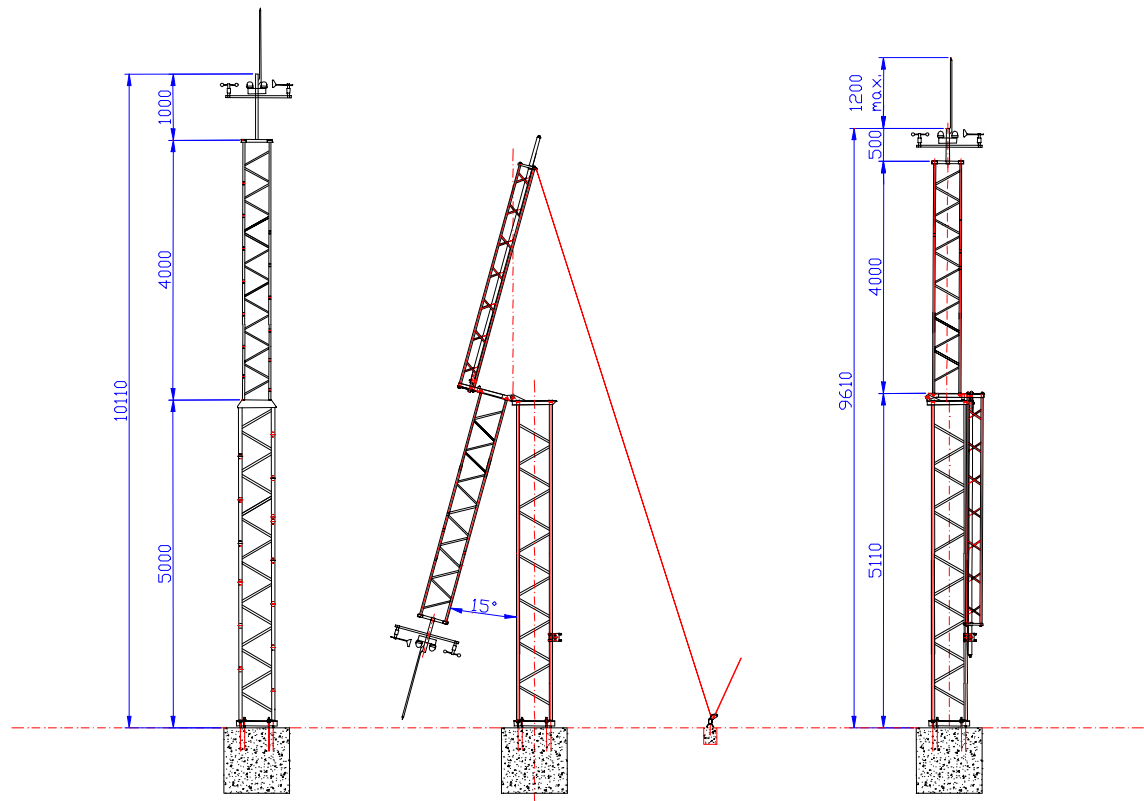
- Exel Oy arranged a full scale impact test on Exel Approach Light Masts on September 28 and 29, 1991 at Joensuu airport in Finland under the surveillance of Frangible Aids Study Group set by ICAO, witnessed by representatives of Civil Aviation Authorities from several European countries. The main objectives were to evaluate **the frangibility of Exel masts** and to give guidance to the FASG in developing new Frangibility Standards for airport approach lighting.
- The tests were performed to six masts, all of them having a 15 kg weight at the top of the mast simulating the effect of a crossbar with 3 approach lights. Three of the masts were fitted with electric cables and their cover tubes.
- The maximum impact force, energy transferred during the contact period as well as mode of failure **are recognised to meet the criteria for the year 2005 frangibility.**



BUILT IN FRANGIBILITY

- Built-in frangibility – no break-away points needed
- Rigid lattice structure of glass fibre material
- Transparent to electromagnetic signals
- Easy installation
- Maintenance free

BOTTOM OR CENTRE HINGED DESIGN FOR WIND MASTS



Bottom hinged mast is best suited for airports having the utility of an access platform. Servicing of the instruments can be done from the basket of the platform without lowering the mast down.

Centre hinged mast can be tilted down by one service person for easy maintenance.

EXEL WIND CONE MASTS

Exel wind cones are available in two configurations:

- Externally illuminated wind cone
- Internally illuminated wind cone

The wind cone can be full size Ø90 x 360 cm or heliport size Ø63 x 250 cm. Colours red/white or solid red.



Externally illuminated wind cone



Internally illuminated wind cone

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CEL
AVIATION