

# Lizard Events Ltd - Wind Management Plan

Lizard Events Ltd advises that you familiarise yourself with the below information prior to your event

In the event of any wind disturbance it is essential to ensure the necessary precautions and actions (outlined below) are undertaken.

- All actions will depend on whether our staff are on site, available for call out or off site advice.
- It is preferable to take preventative action than reactive action.
- Contractual and payment liabilities remain in all cases.
- It is the client responsibility to check wind speeds and weather conditions on-site and alert Lizard Events Ltd if concerned.

## **Pre-erection or during build or dismantling/break periods**

- High winds during these times may delay or prevent safe work.
- We will do our best to ensure safe erection or dismantling in time frame for events.

## **When severe weather is forecast during the event period (before or during erection/build period)**

- Client and supplier should consider refusing to build structures if deemed unsafe.
- Consider moving structures to more sheltered locations.
- Consider event postponement or cancellation.

## **ACTION PLAN**

Current weather or forecast weather once structures are erected or in use:

At wind speeds of 0-20mph - calm to gentle breeze;

(i.e. From smoke rising vertically to light drifts, wind felt on face, leaves rustle, leaves in motion and small branches moving)

### **Action:**

- There should be nothing to worry about.

At wind speed of 20mph - fresh breeze and above;

(i.e. small trees in leaf begin to sway, crested wavelets on inland waters)

### **Action:**

- There should still be nothing to worry about but consider checking flags, advertising scrim and any attachments, wall flaps.
- Add extra weights and tie downs to pop up gazebos and picnic tents.

At wind speed or gust speed of 25-38mph, strong breeze;

(i.e. large branches in motion, whistling in telegraph wire, to whole trees in motion)

- Contact Lizard Events Ltd so we can check wind speeds and safety

- Preventative action should be taken and closing of doors/wall flaps, securing of walls should be considered
- Inflatable Stages should not be used and Pagoda Marquees should be evacuated.
- If higher winds are forecast and it is safe to do so, consideration of dismantling empty structures should be made
- Consider strengthening tents with suitable extra anchorage – double guy roping
- Consider taking down pop-up gazebos before winds rise

At wind speed or gust speed of 40mph, Pagoda Marquees and Inflatable Stages should not be used and doors and all other openings in multispan marquees should be closed.

(.i.e. from whole trees in motion, difficulty walking into wind to twigs breaking off trees)

- Contact our staff
- CLOSE TENTS. Evacuate staff and public. (unless previously strengthened)
- Take down gazebos, smaller vulnerable structures and tents

At wind speeds or gust speeds of 50mph and above, force 9-10-11, strong gale, whole gale and storm;

- Though our multispan marquees are manufactured to the higher specs, they should be considered dangerous and liable to collapse the higher the wind and the weaker the anchorage becomes. This is due to site conditions being different to factory design specs.
- Beware of collapse, over turn, flying debris, breakage

Wind management extract from Temporary Demountable Structures published by the Institute of Structural Engineers (4th Edition).

The operational maximum gust speed should be taken as a three second gust measured 10m above ground level.

Two levels of warning required

Level 1; When monitoring registers a gust wind speed in excess of 75% operational maximum gust speed in conjunction with an increasing general trend of recorded wind speed. Staff to be put on alert that action may be required. If erection in progress consideration to be taken whether to delay erection.

Level 2; When monitoring registers a gust wind speed in excess of 90% of operation maximum gust speed in conjunction with an increasing trends in wind speed the operational management plan should be implemented and the site secured against access by the public.

If an isolate gust exceeds either limit against a background of a decreasing trend in wind speed then further monitoring may be appropriate.

Figures are based on all sides being fixed to the marquee, if sides are removed or open then the figures will be incorrect.

Structures	Design wind speed (mph)	75% alert level (mph)	90% action level (mph)
Standard 3m,6m,9m MultiSpan Frame.	62	46.5	55.8
Pagodas 4m, 6m	40	30	36
Inflatable Stage Canopy (on ground)	25	18.75	22.5

When Level 1 is reached the structures should be checked to ensure that all stakes and ballast are firmly in place and that all openings are securely closed. Consideration should be given to providing additional forms of protection by adding additional guying where possible.

When level 2 is reached evacuation is necessary for all but safety critical staff.

To monitor general current wind speeds on-line we recommend services such as [www.weatherfile.com](http://www.weatherfile.com)

**NB: THIS IS ONLY A GUIDE FOR REFERENCE AND RESPONSIBILITY REMAINS WITH THE CLIENT TO CHECK WIND SPEEDS/WEATHER CONDITIONS AT ALL TIMES AND ALERT LIZARD EVENTS LTD IF CONCERNED.**