



Temporary Structure Wind Policy

Contents

1. General
2. Wind – Precautions
3. Action Plan
4. Calculating Ballast Requirements

Date: 29 Feb 2012

Temporary Structure Wind Policy

1. General

The design of Hoecker & Rodar type temporary structures is in accordance with the Australian Standard 1170 Part 1 (dead & live loads) and Part 2 (Wind Loads).

The frame generally consists of extruded aluminum components with hot dipped galvanized steel ridge and knee connection inserts and base plate. The base plate is generally anchored or weighted into position with steel stakes or steel/concrete blocks.

Where applicable end bays of the structures are stabilised with wire rope roof cross bracing and tensioned with turnbuckles. Galvanized steel tube diagonal or horizontal braces are used for the walls. Intermediate bays of the roof and wall bracing are normally installed at a maximum of every 4th bay.

2. Wind – Precautions

Weather conditions at each site need to be monitored so that, in the rare event that fabric removal is necessary, it may take place in a timely manner. To facilitate this as well as checking the wind speed forecast with the Meteorological Office, it may be required to take on site wind speeds with an anemometer. This would be required if wind speeds in excess of 70 km/ph are forecast. Should higher speeds be predicted appropriate number of crew will stand by on site at all times.

In general the structures are sound in wind speeds approaching 70km/ph. Manufactures would recommend that the first action is to ensure that all walls on the structure are secured and laced closed.

3. Action Plan

Event	P Series & Pagoda Wind Speeds	Action
Wind speeds in excess	50km/hr	1. All openings shall be securely closed and no access provided.
Wind speed in excess	60km/hr	1. Monitor wind speeds with an onsite anemometer/ closest public weather station.
Wind speeds in excess	70km/hr	1. Evacuate Site.

Please note that the locality or wind gust speed is affected by factors such as terrain exposure and site elevation.

Butlers will use the above action plan for Marquees on raised platforms such as black deck.

4. Calculating Ballast Requirements

Structure Type	Pegs per leg	Weights per leg
P Series & Pagoda	1	100kg
F Series	4*	1000kg
L Series	6*	1000kg

- P Series stakes are 800mm long
- * Stakes are to be 1200mm long
- Brace bays require additional ballast/pegs.