ENGINEERING DATASHEET

Wind & Snow Load Reference

Champion structures are engineered to the wind and snow loads of each project site, to the applicable international code. The values below are indicative classes; final design follows a site-specific study.

Design Codes

Region	Wind Code	Snow Code
North America (US)	ASCE 7-22	ASCE 7-22
Canada	NBC (NBCC)	NBC (NBCC)
Europe / ME	EN 1991-1-4	EN 1991-1-3
Australia / NZ	AS/NZS 1170.2	AS/NZS 1170.3
International	ISO 4354	ISO 4355

Wind Speed Classes

Class	Design Wind Speed	Typical Environment
Standard	up to 120 km/h (75 mph)	Sheltered inland
High	120-160 km/h (75-99 mph)	Open plains, coastal fringe
Severe	160-200 km/h (99-124 mph)	Exposed mountain / coastal
Cyclonic	200+ km/h (124+ mph)	Cyclone / hurricane regions

Snow Load Classes

Class	Ground Snow Load	Typical Region
Light	1.0 kPa (21 psf)	Temperate lowlands
Moderate	2.5 kPa (52 psf)	Cold continental
Heavy	5.0 kPa (104 psf)	Northern / high latitude
Alpine	7.5+ kPa (157+ psf)	Mountain / alpine

Stamped engineering calculations to your local code are available on request for permitting.