

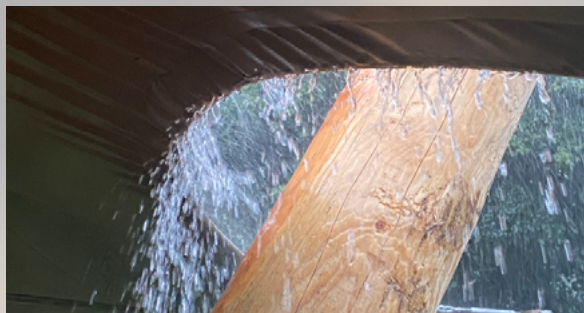
## GENERAL

Technical principles according to Eurocode EN 1990 / EN 1991-1-3 / EN 1991-1-4

Load combinations are set up in accordance with EN 1990.

CC2/RC2, design life class 2, lifespan of 10 years.

Useful load Category A (residential areas). Depending on use, varying between 175 and 250 kg/m<sup>2</sup>.



## WIND

Wind load is determined in accordance with EN 1991-1-4 Annex A.

Eg,0 = 27 m/s, terrain category II (undeveloped terrain), with a reference period of 10 years the thrust and peak wind speed are:

$Q_p = 0.87 \text{ kN/m}^2$ ,  $V_{\text{peak}}^* = 135 \text{ km/h}$ , at a building height of 9.5m

*\*The peak wind speed ( $V_{\text{peak}}$ ) applies to a wind gust of 3 seconds at a height of 10m relative to ground level*



## SNOW

Snow load is determined in accordance with EN 1991-1-3.

With a reference period of 10 years, the characteristic snow load at ground level is:  $S_k = 52 \text{ kg/m}^2$ .





# SAFETY FIRST



Security is a necessity for your peace of mind. All of Black Sheep Productions tensile structures are engineered by a specialized agency with worldwide expertise in textile architecture. With global warming, we are seeing more and more heavy thunderstorms with high windsloads, heavy rainfall or extreme heat.

Our structures are calculated according to the European standards but we will have to make adjustments for each continent or country in order to comply with the local legislation. When you purchase a structure, Black Sheep Productions provides a comprehensive book - static analysis which you can interpret of as the passport to the tensile structure.

## MATERIALS

Material-dependent tests in accordance with:

- Steel: EN1993
- Wood: EN1995
- Aluminum: EN1999
- Membrane: Tensinet Design Guide (European Design Guide for Tensile Surface Structures)
- Innertent: Fire retardant norm M2 / B2 ASNZS 1530.2-1993

