

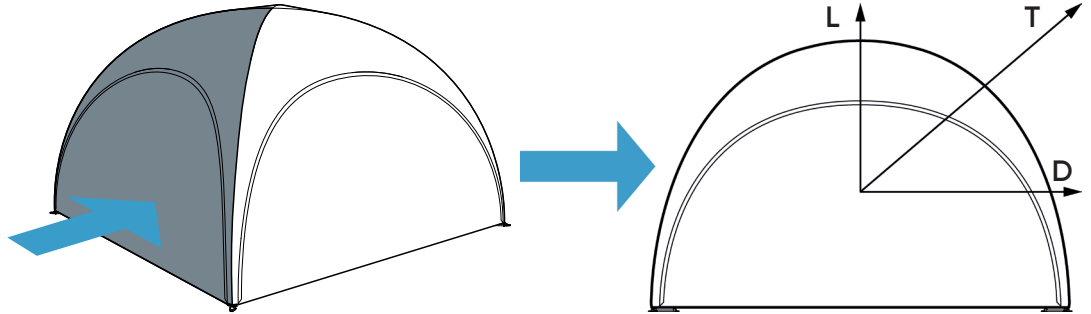
WIND RESISTANCE CERTIFICATE

FORCES

BASIS: - Wind Speed: 1 m/s = 3.6 km/h
 - Density of the flowing medium: 1.224 kg/m³

- Drag Coefficient: 1 (Safety factor of 1.2; estimated actual drag coefficient of 0.6)
 - Friction of Ballast Barrel and ground: 1 [material: rubber-to-asphalt]

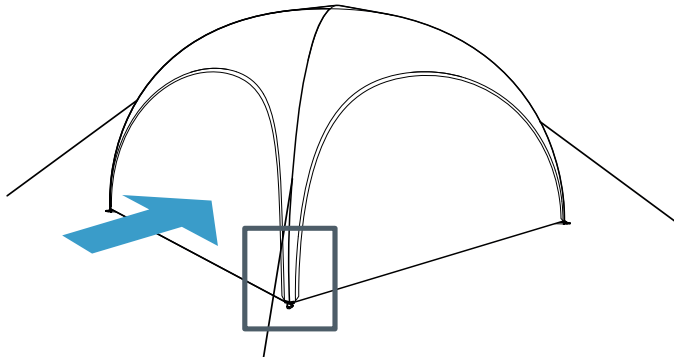
Size	Surface Area with Side Wall
XC 3	5,4 m ² (58 ft ²)
XD 4	8,5 m ² (91.5 ft ²)
XD 5	13 m ² (139.9 ft ²)
XD 6	19 m ² (204.5 ft ²)
XD 7	26 m ² (279.8 ft ²)



Size	Drag (D) [daN]			Lift (L) [daN]			Total Force (T) [daN]		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	22,8	40,5	91,3	11,4	20,3	45,7	25,5	45,3	
XD 4	24,2	51,7	115,0	11,3	39,6	60,8	35,5	68,0	175,8
XD 5	37,0	79,1	175,9	17,6	42,0	195,0	54,7	121,2	271,0
XD 6	54,1	115,6	257,1	25,4	60,6	136,8	79,6	176,2	305,7
XD 7	74,1	158,3	351,9	34,6	82,4	186,2	108,7	240,0	

BALLAST RECOMMENDATIONS

Below are shown the weights necessary to secure one tube on your X GLOO tent during high winds. At a minimum, this weight should be used on all tubes facing into the wind. However, in order to achieve the most security and stability we strongly recommend that you secure all four tubes on your X GLOO tent.



Size	Weight Per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	13 kg (28 lbs)	23 kg (49 lbs)	
XD 4	18 kg (39 lbs)	34 kg (75 lbs)	89 kg (196 lbs)
XD 5	27 kg (59 lbs)	60 kg (132 lbs)	135 kg (297 lbs)
XD 6	40 kg (88 lbs)	88 kg (194 lbs)	153 kg (337 lbs)
XD 7	54 kg (119 lbs)	120 kg (264 lbs)	

Size	X GLOO Ballast System(s) per Tube		
	30 km/h wind speed (18.7 mph)	40 km/h wind speed (25 mph)	60 km/h wind speed (37.3 mph)
XC 3	1x Tube Ballast	2x Tube Ballasts	
XD 4	1x Tube Ballast	2x Tube Ballasts	1x Ballast Barrel
XD 5	1x Tube Ballast	2x Tube Ballasts	2x Ballast Barrels
XD 6	2x Tube Ballasts	1x Ballast Barrel	2x Ballast Barrels
XD 7	1x Ballast Barrel	2x Ballast Barrels	



X GLOO - SHAPING AIR

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Ballast recommendations for X GLOO tents based on anticipated wind speed and direction.

User note: These recommendations are valid only in cases where the X GLOO tent is properly set up and anchored. Improper setup of the X GLOO tent can also result in damage to the tent and possible injury to people in the surrounding area.

Approval: *J. A. Neubauer*

Date: 18.11.2018