DIVISION 05 . SB-SLC

Luxury Sailcloth Event Tents

Tensile sailcloth on spruce king poles

A tensile structure, not a marquee: the roof is a shaped sailcloth field tensioned between king poles and perimeter masts, so there are no internal legs in the guest area.

CLEAR SPAN **10 - 60 m**	MODULE **5 m**	MEMBRANE **750 g/m2**
POLES **Spruce laminate**	WALLS **Clear / solid**	ERECTION **2 - 4 days**

Structure

· Twin or four-point king pole in laminated spruce, with galvanised steel base and head fittings.
· Sailcloth roof in 750 g/m2 translucent PVDF, shaped and pre-stressed, not a flat sheet.
· Perimeter masts with guy lines or water ballast where ground anchors are not permitted.
· Modular in 5 m bays; two tents can be linked with a valley gutter.

Membrane & envelope

· 750 g/m2 translucent PVDF: daylight through the roof, warm glow at night.
· Clear PVC walls, solid white walls, or a mix, with zip and keder connections.
· Lining and draped ceiling available for weddings and gala dinners.
· Flame-retardant treatment documented per project.

Openings & options

· Clear-span glass doors, wooden floor, stage and truss points.
· Heating, cooling and air distribution for full-day events.
· Lighting design with festoon, uplighting and chandelier points.
· Printing on valance and walls, branding of the gable.

What we need in order to quote

Site location and altitude drives snow and wind, not just the tier	**Clear span and length** whole bays; whole containers for DIV-07	**Opening size** door or end wall clear width and height
Largest machine or aircraft sets the door, not the span	**Floor and foundations** slab by others, or our anchor design	**Services** lighting, power, ventilation, fire strategy



Sailcloth roof and clear walls, tensile field without internal legs.

Size and price matrix

EXW price per square metre of covered area, standard configuration, excluding installation, freight, concrete and VAT. The three columns are the snow-load packages L1 to L3; steel weight is the L2 column.

Clear span x length	Area	Steel	L1 0.5 kN/m2	L2 2.0 kN/m2	L3 3.5 kN/m2
10 x 15 m	150 m2	11 kg/m2	$93	$97	$114
15 x 24 m	360 m2	13 kg/m2	$84	$89	$109
20 x 40 m	800 m2	14 kg/m2	$82	$88	$110
30 x 60 m	1800 m2	18 kg/m2	$88	$95	$122
45 x 90 m	4050 m2	22 kg/m2	$100	$110	$144
60 x 120 m	7200 m2	27 kg/m2	$114	$125	$167

Load basis

Tier	Snow load	Equivalent snow depth	Typical use
L1	**0.5 kN/m2**	**250 mm at 200 kg/m3**	**Sheltered sites, temporary cover, low-altitude temperate**
L2	**2.0 kN/m2**	**900 mm at 220 kg/m3**	**Central and northern Europe, most of North America**
L3	**3.5 kN/m2**	**1,250 mm at 280 kg/m3**	**Alpine, Nordic, Canadian prairie, heavy drift sites**

Wind: designs are checked against the basic wind speed for the site, up to 180 km/h at the lightest tier. Snow and wind are always recalculated for the project; the tier is a commercial package, not the site load.

Typical applications

Weddings and gala dinners, corporate hospitality, exhibitions, festivals, church and community events.

Notes, exclusions and basis of quotation

- Temporary structures are engineered to EN 13782 where the project requires it; permanent use needs a different package.
- Ground anchors, ballast and flooring are site-dependent and quoted after a site plan.
- Erection time depends on access and whether a crane or telehandler is available.

Design basis: ASCE 7-16 or EN 1991-1-3 / 1-4 as applicable; steel to Q235B / Q355B; hot-dip galvanising to ISO 1461; membrane PVDF-polyester, PVC on request. Certification documents, mill certificates and membrane test reports are issued with the shipping documents. Warranty: 25 years on the structure, membrane per manufacturer's data.