DIVISION 02 . SB-DTF

Double-Truss Fabric Buildings

Tube-truss clear span for bulk and industry

The workhorse: a galvanised tube-truss arch with a PVDF membrane, used where a steel portal frame would put columns in the way of a loader, a conveyor or a pile that has to be pushed to the back wall.

CLEAR SPAN **12 - 75 m**	BAY **3 - 6 m**	MEMBRANE **950 - 1,150 g/m2**
FRAME **Q235B / Q355B**	SNOW **L1 - L3**	LIFE **25 yr design**

Structure

· Double-chord tubular truss, factory-jig welded, hot-dip galvanised after fabrication.
· Purlin and truss spacing set by the snow tier; the light tier is not simply a thinner membrane.
· Base plates on cast-in anchors or chemical anchors; container ballast where no excavation is allowed.
· Openings framed with a hot-dip galvanised portal, independent of the membrane tension.

Membrane & envelope

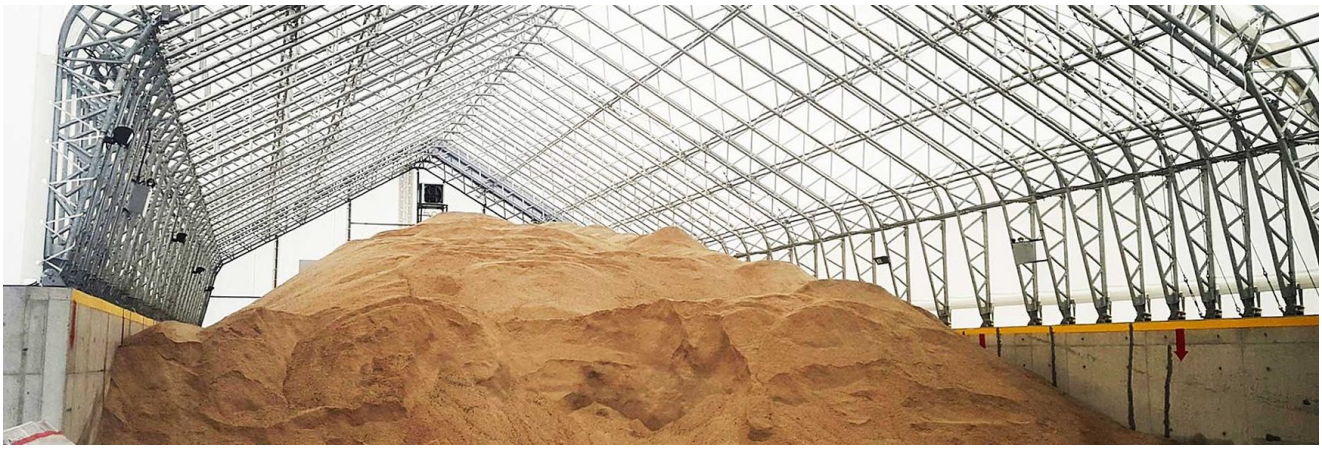
· PVC or PVDF-polyester in eight weights from 750 to 1,450 g/m2; 950-1,150 for industrial use.
· Translucent roof as standard; blackout for salt, fertiliser and photo-sensitive product.
· Walls in membrane, corrugated steel, sandwich panel or 4 m concrete push wall.
· Repair kit and spare membrane strip supplied with every building.

Openings & options

· Insulation liner and quilt, 50-100 mm, with condensation gutter.
· Personnel doors, roller doors, louvre vents, ridge ventilators, skylight strips.
· Conveyor and silo penetration framing, catwalks and access ladders.
· Crane rail on independent columns where a hoist is required.

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



Bulk material pushed to the back wall, no internal columns.

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
12 x 24 m	288 m2	30 kg/m2	$107	$113	$134
18 x 36 m	648 m2	34 kg/m2	$110	$116	$140
24 x 48 m	1152 m2	39 kg/m2	$114	$122	$149
36 x 72 m	2592 m2	48 kg/m2	$125	$134	$168
55 x 100 m	5500 m2	61 kg/m2	$144	$156	$200
75 x 120 m	9000 m2	76 kg/m2	$164	$179	$233

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

Bulk storage (grain, fertiliser, salt, aggregate), compost and waste, equipment sheds, workshops, boat and RV storage.

Notes, exclusions and basis of quotation

- The price tier is a structural package at 0.5 / 2.0 / 3.5 kN/m2 snow; site-specific drift is quoted separately.
- Concrete, anchors, erection and MEP are excluded unless stated in the quotation.
- Membrane colour, translucency and print are project options and change the lead time.

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.