DIVISION 04 . SB-ALU

Aluminum Clear Span Buildings

Anodised 6082-T6 A-frame, glass optional

The architectural option: extruded 6082-T6 aluminium A-frames on a 5 m module, hard-anodised, with glazing or composite walls. Single-column, single-beam frames keep the interior clean for hospitality and retail use.

CLEAR SPAN **10 - 70 m**	MODULE **5 m**	MEMBRANE **850 g/m2 blockout**
FRAME **6082-T6**	FINISH **AA15 anodised**	WALLS **Glass / ABS / panel**

Structure

· Extruded 6082-T6 aluminium A-frame portal on a 5 m module, hard anodised to AA15 (15-20 micron).
· Single column, single beam per frame line: no tie rods across the clear span.
· Keder rail integrated into the extrusion; the membrane has no separate purlin.
· Base plates on precast ballast or cast-in anchors, both concealed under the wall line.

Membrane & envelope

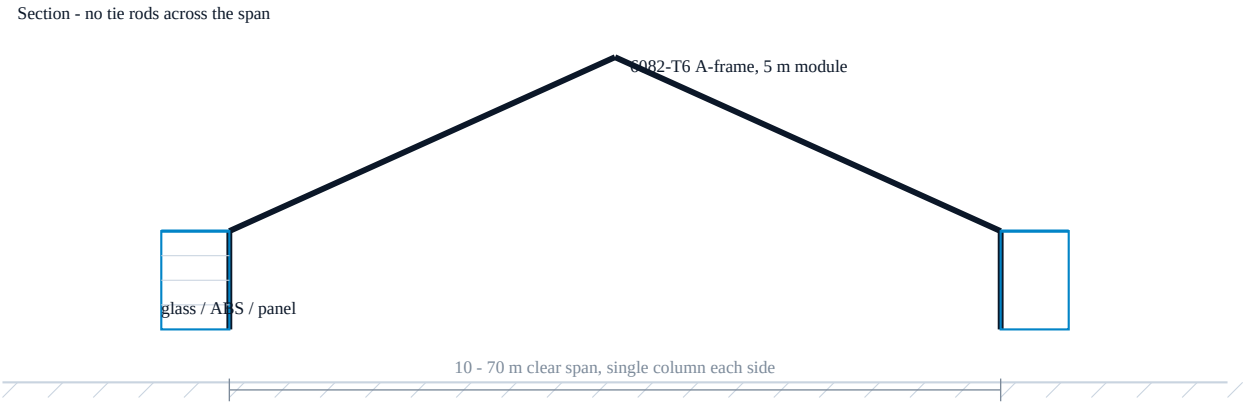
· 850 g/m2 blockout PVDF as standard, white; translucent and printed options.
· Walls in tempered glass, ABS panel or insulated sandwich panel, set in the same extrusion.
· Concealed fixing: no visible bolt heads on the interior face.
· Gutter integrated in the frame head, with a downpipe inside the column line.

Openings & options

· Glass facade, sliding doors and full-height glazing for event and retail use.
· Floor cassette or raised deck, coordinated with the event floor finish.
· HVAC cassette brackets and lighting track in the extrusion slot.
· Branded fabric print and backlit wall panels.

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



Section - schematic, not to scale. Dimensions are confirmed on the project drawing. Site photographs of delivered buildings are available on request.

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 20 m	200 m2	20 kg/m2	$126	$136	$175
15 x 30 m	450 m2	22 kg/m2	$131	$143	$187
21 x 42 m	882 m2	26 kg/m2	$142	$155	$206
30 x 60 m	1800 m2	30 kg/m2	$160	$176	$237
50 x 100 m	5000 m2	42 kg/m2	$202	$224	$306
70 x 120 m	8400 m2	52 kg/m2	$244	$272	$377

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

Corporate events, product launches, showrooms, hospitality pavilions, tennis and padel halls, premium storage.

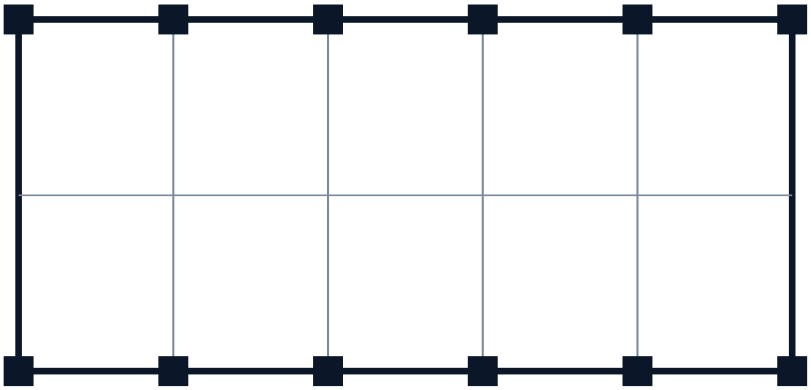
Notes, exclusions and basis of quotation

- Aluminium frames are not intended for bulk material handling or loader impact; use DIV-02 or DIV-03.
- Glass and glazing are quoted separately and by a local glazier where required.
- Anodising colour is natural or black; other colours are powder-coated on request.

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.

Plan

5 m module, no internal columns



Plan - A-frames on the perimeter only

Plan - schematic, not to scale. Bay module and anchor positions as described above.