SPANBEST®

Product & Price Catalog 2027

Nine clear-span building systems · six standard sizes each · three design-load tiers

EXW factory price in USD · wind and snow design envelope stated for every tier

162 priced configurations · membrane 750–1450 GSM · hot-dip galvanised frames

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EXW Changsha · packing included · installation, freight and VAT excluded · budgetary indication, not a binding offer

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How to use this catalog

Nine building systems, six standard sizes each, three design-load tiers — 162 priced configurations. Every page states the wind and snow envelope the price is valid for, so you can match the tier to the site before you talk about money.



Steel shop — jig welding a truss chord



Membrane hall — cutting and HF welding

1	**Pick the system**	Clear span decides the family. Up to 28 m and a fast site: DIV-07 container shelter. 30–75 m of unobstructed storage: DIV-02 double-truss. Crane work: DIV-03 H-beam. Air-supported sports hall: DIV-09.
2	**Fix the size**	Rows are standard span × length combinations. Anything between two rows is priced by interpolation — we do it in the quotation, not from this table.
3	**Set the load tier**	Read the site's roof snow load and basic wind pressure, then choose Light / Standard / Heavy on page 3. This is the step that most often changes the number.
4	**Add the options**	Hangar door, membrane grade, hot-dip galvanising, end walls, PV array, blower pack — page 16 lists the adders and what they do.
5	**Check the basis**	Divisions 01/02/03/07 are calibrated on our own issued quotations. 04/05/06/08/09 are still engineering estimates and must be re-costed before a binding offer.

Two kinds of number in this document. Divisions 01, 02, 03 and 07 are calibrated against our own issued BOM quotations — unit price within 3%, steel weight conservative by 5–8%. Divisions 04, 05, 06, 08 and 09 are engineering estimates waiting for confirmed supplier pricing (aluminium profile, PV modules, blower pack, AZ150 coil). Each division page says which basis applies, and the workbook repeats it row by row.

What is inside

Div	System	Clear span	Standard USD/m²
DIV-01	Aviation & Aircraft Hangars	18–75 m	$162–230/m²
DIV-02	Double-Truss Fabric Buildings	12–75 m	$113–179/m²
DIV-03	Rigid H-Beam Frame PVDF	18–75 m	$125–207/m²
DIV-04	Aluminum Clear Span Buildings	10–70 m	$136–272/m²
DIV-05	Luxury Sailcloth Event Tents	10–60 m	$97–125/m²
DIV-06	Frameless Steel Arch Canopies	10–40 m	$35–36/m²
DIV-07	Double-Truss Container Shelters	10–28 m	$75–78/m²
DIV-08	Commercial Solar Carports	10–24 m	$140–151/m²
DIV-09	Cable-Net Inflatable Air Domes	25–75 m	$101–74/m²

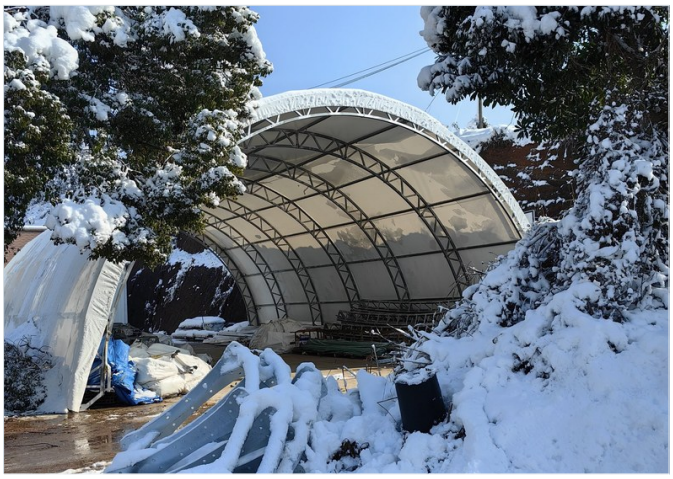
DESIGN LOAD ENVELOPE · READ THIS BEFORE QUOTING A NUMBER

Wind and snow: which tier, and why it changes the price

Snow sits on the roof and must be carried by steel, so it drives tonnage. Wind pushes and lifts, and is resisted by anchors, edge beams and membrane prestress rather than by more steel. That is why a snow upgrade moves the price and a wind upgrade usually does not — but both must be verified on the same drawing.



Snow event on site — frame and membrane in service



Accumulated snow at the eave

Tier	Roof snow kN/m²	Depth at 200 kg/m³	Depth at 300 kg/m³	Wind envelope 3-s gust	What changes in the structure	Price vs Standard	Typical locations
L1 Light	0.5	25 cm	17 cm	≤ 1.0 kPa (≈150 km/h)	Lighter purlins and chords, fewer bracing lines	**–5% … –10%**	Gulf, North Africa, inland dry climates
L2 Standard	2.0	100 cm	67 cm	≤ 1.5 kPa (≈180 km/h)	Catalog base structure and anchoring details	**base price**	Europe, Central Asia, most of North America
L3 Heavy	3.5	175 cm	117 cm	≤ 1.5 kPa, anchors re-verified	Denser purlins, heavier chords, extra bracing	**+17% … +38%**	Nordics, Canada, Alps, Hokkaido, high Andes

Snow depth is converted at fresh 100 kg/m³ · settled 200–300 kg/m³ · wet spring snow 350–400 kg/m³. Always quote the load, never the depth: 25 cm of wet snow weighs the same as one metre of fresh snow.

Snow above 3.5 kN/m²	Project structural calculation. Steel weight rises roughly linearly; budget a further +8…+12% per extra 0.5 kN/m² on the heavy families.
Wind above 1.5 kPa	Anchors, edge beams and corner details re-verified to ASCE 7-16 or EN 1991-1-4. Steel tonnage rarely changes — anchors and foundation interface are the cost.
Drift and ponding	Valleys, parapets and multi-bay junctions drift; low-slope membranes pond. Both are project checks, not covered by a flat uniform load.
Uplift governs anchors	On lightweight membrane roofs the governing case is often uplift, not downward pressure. Prestress and anchor spacing are fixed at design stage.

Indicative regional starting point — always confirm with the local code and a project calculation

Region	Roof snow kN/m²	Basic wind	Tier	Note
Western Europe lowland	0.5–1.5	≤ 1.3 kPa	**Standard**	Wind often governs the anchoring
Alps, Pyrenees, upland Italy	1.5–3.5+	≤ 1.3 kPa	**Heavy**	Drift at valleys to be checked
Nordics, Baltics, Canada	2.0–3.5+	≤ 1.0 kPa	**Heavy**	Long snow season, low wind
Gulf, North Africa, inland Australia	0	1.0–1.5 kPa	**Light**	Wind and heat, no snow case
Central Asia, Mongolia, high Andes	1.0–2.5	≤ 1.0 kPa	**Standard → Heavy**	Altitude drives the choice
SE Asia, coastal tropics	0	1.3–1.8 kPa	**Light + anchor check**	Cyclonic wind, verify uplift

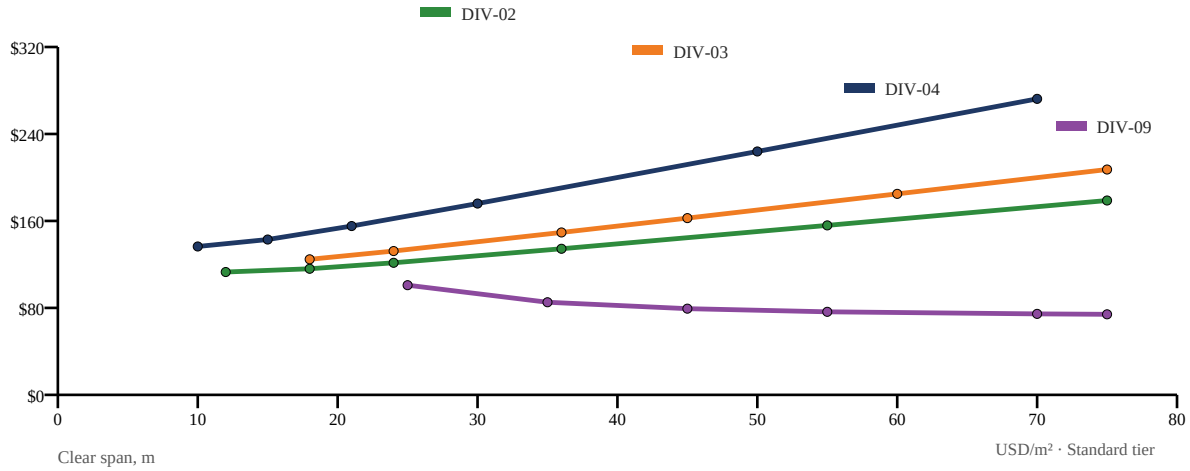
Catalog design basis. Compliance statements (ASCE 7-16, EN 1991, EN 13782, ISO 9001, ISO 1461, CE) are the manufacturer's own and must be backed by project certificates before contract.

PRICE ARCHITECTURE · WHERE THE MONEY ACTUALLY GOES

Six levers, measured on our own model

Every figure below is the model output at the stated size — not an interpolation and not a marketing range. Use them to explain a quote: customers usually assume load is the whole story, and it is not.

Lever	Measured effect	What to tell the customer
Clear span	×1.3 – ×2.0 from smallest to largest size (DIV-04 aluminium ×1.99, DIV-02 ×1.58)	Span is the first thing that moves unit price: the same membrane over a wider bay needs a much deeper truss.
Length	–0.4% … –14.5% going from 1× to 3× length	Design, blowers and end walls are per building, so a long building is cheaper per m². Arch canopies gain the most.
Load tier	Light –5…–10% · Heavy +17…+38%	Not the nominal ±45%. Membrane, packing, design and margin do not scale with snow, so the real spread is smaller.
Membrane grade	±2 … ±12 USD/m² of building for 750 ↔ 1450 GSM	One grade up is usually 3–6% of the building price. It buys service life and translucency, not strength alone.
Surface	+2 … +19 USD/m² for pre-galv → hot-dip	Hot-dip is the default for export; pre-galvanised only where the site is dry and the building is indoor.
Steel & FX	Steel is 38–63% of price; +10% steel mill = +3.8…+6.3%; ±3% CNY = ±3% USD	The 30-day validity exists for a reason — say so before the customer asks for six months.



Unit price against clear span at Standard tier. Air domes fall per m² as they grow (internal pressure carries the load); aluminium nearly doubles because the extrusion weight scales faster than the span.

Worked example — the three tiers on one double-truss building			
Model	SB-DTF-36x72	**Light 0.5**	$125/m² · $325,000
Area	2,592 m²	**Standard 2.0**	$134/m² · $348,400
Steel	47.5 kg/m²	**Heavy 3.5**	$168/m² · $435,900



Steel is 38–63% of the price — galvanised purlins in the yard



Bundled and packed for export

DIVISION 01 / 09

Aviation & Aircraft Hangars

Clear span 18–75 m · 1050 GSM PVDF · calibrated on issued BOM



Hangar interior — helicopter at the door bay

- ICAO Code A–E door openings, 1–3 bays
- Full-width lifting fabric door — priced as an option
- Eave from 9 m, apex rise 0.15 × span for wing clearance
- Q355B double-chord truss, 1050 GSM PVDF
- Hot-dip galvanised to ISO 1461

SPAN 18–75 m · AREA 648–9,000 m² · STEEL 47–101 kg/m² · STANDARD $162–$230/m²





Hangar interior — helicopter at the door bay



Clear-span interior, symmetric truss roof



Fabric door bay with lighting and services

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-HNG-18x36	18	36	648	47.1	154	$99,500	**162**	**$105,300**	196	$127,000
SB-HNG-30x60	30	60	1,800	58.5	158	$283,900	**169**	**$303,900**	210	$378,800
SB-HNG-40x72	40	72	2,880	68.0	169	$486,400	**182**	**$523,600**	230	$662,900
SB-HNG-50x80	50	80	4,000	77.5	182	$726,900	**196**	**$785,600**	252	$1,006,100
SB-HNG-60x100	60	100	6,000	87.0	192	$1,153,300	**209**	**$1,252,300**	271	$1,623,500
SB-HNG-75x120	75	120	9,000	101.2	211	$1,897,500	**230**	**$2,070,300**	302	$2,718,400

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-5% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+31% vs Standard

Design load. Hangar economics are set by the door and the eave, not by span alone. Heavy snow adds +21…+31%. **Typical use.** MRO hangars · FBO shelters · helicopter and drone bases. Snow range 0.5–3.5 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · hot-dip galvanised frame, 1050 GSM base.

DIVISION 02 / 09

Double-Truss Fabric Buildings

Clear span 12–75 m · 1050 GSM PVDF · calibrated on issued BOM



Clear-span fabric building in service

- Tubular double-chord truss, 3 / 4 / 5 / 6 m bay modules
- Best price per m² of the nine systems
- 950–1150 GSM PVDF, translucent options
- Bulk storage: salt, potash, fertiliser, grain
- Clear span to 75 m with no internal column

SPAN 12–75 m · AREA 288–9,000 m² · STEEL 30–76 kg/m² · STANDARD $113–$179/m²





Truss roof from inside — no internal columns



Bulk storage configuration, 4 m bay modules



Double-chord truss from below

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-DTF-12x24	12	24	288	30.0	107	$30,900	**113**	**$32,500**	134	$38,700
SB-DTF-18x36	18	36	648	34.3	110	$70,900	**116**	**$75,200**	140	$91,000
SB-DTF-24x48	24	48	1,152	38.7	114	$131,500	**122**	**$140,000**	149	$171,700
SB-DTF-36x72	36	72	2,592	47.5	125	$325,000	**134**	**$348,400**	168	$435,900
SB-DTF-55x100	55	100	5,500	61.3	144	$793,500	**156**	**$857,500**	200	$1,097,400
SB-DTF-75x120	75	120	9,000	76.0	164	$1,479,900	**179**	**$1,609,500**	233	$2,095,600

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-5% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+30% vs Standard

Design load. The workhorse. Light tier saves 5–8%, heavy adds 19–30% — the flattest spread in the catalogue. **Typical use.** Bulk storage · riding arenas · workshops · warehousing. Snow range 0.5–3.5 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · hot-dip galvanised frame, 950–1150 GSM.

DIVISION 03 / 09

Rigid H-Beam Frame PVDF

Clear span 18–75 m · 1050 GSM PVDF · calibrated on issued BOM



Rigid frame interior — crane-ready

- Q355B tapered portal frames
- Crane runway 5–30 t on the column line
- Compatible with 4 m concrete push wall
- 1050 GSM PVDF or sandwich panel cladding
- Highest steel share of the range — 55%

SPAN 18–75 m · AREA 648–11,250 m² · STEEL 43–97 kg/m² · STANDARD $125–$207/m²





Base plate and anchor bolt set-out



Galvanised purlins, bundled for shipment



Galvanised truss node detail

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-RHB-18x36	18	36	648	43.1	116	$75,500	**125**	**$80,800**	155	$100,700
SB-RHB-24x48	24	48	1,152	48.8	123	$141,800	**132**	**$152,400**	167	$192,400
SB-RHB-36x72	36	72	2,592	60.2	138	$357,600	**149**	**$387,200**	192	$498,100
SB-RHB-45x90	45	90	4,050	68.8	150	$605,700	**163**	**$658,500**	212	$856,500
SB-RHB-60x120	60	120	7,200	83.0	169	$1,217,900	**185**	**$1,331,300**	244	$1,756,300
SB-RHB-75x150	75	150	11,250	97.2	189	$2,124,800	**207**	**$2,332,300**	276	$3,110,400

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-7% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+33% vs Standard

Design load. Crane and snow compound: heavy tier +25…+33%, the steepest of the steel frames. **Typical use.** Industrial warehouses · transfer stations · crane-served workshops. Snow range 0.5–3.5 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · hot-dip galvanised Q355B frame, 1050 GSM base.

DIVISION 04 / 09

Aluminum Clear Span Buildings

Clear span 10–70 m · 850 GSM PVDF · engineering estimate · black A-frame aluminium portal



Black A-frame aluminium portal — glass walls, membrane roof

- Black anodised 6082-T6 extruded aluminium portal frames (AA15, 15–20 µm)
- A-frame portal: two columns and two rafters per bay, bolted or pinned, demountable
- Modular 5 m bays — length extends without changing the frame logic
- Keder channels grip the roof membrane; wall cassettes in glass, ABS or insulated panel
- 850 g/m² blockout PVDF roof; spans 10–70 m in the table

SPAN 10–70 m · AREA 200–8,400 m² · STEEL 20–52 kg/m² · STANDARD $136–$272/m²





Glass-wall pavilion — black A-frame portal



Fabric-wall logistics hall — 5 m bay modules



Yacht refit hall — clear span interior

Model code	Span m	Length m	Area m²	Alu kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-ALU-10x20	10	20	200	19.5	126	$25,200	**136**	**$27,300**	175	$35,000
SB-ALU-15x30	15	30	450	22.2	131	$59,000	**143**	**$64,300**	187	$84,200
SB-ALU-21x42	21	42	882	25.6	142	$125,000	**155**	**$137,000**	206	$181,800
SB-ALU-30x60	30	60	1,800	30.5	160	$287,700	**176**	**$316,800**	237	$426,000
SB-ALU-50x100	50	100	5,000	41.5	202	$1,009,400	**224**	**$1,119,400**	306	$1,532,000
SB-ALU-70x120	70	120	8,400	52.5	244	$2,053,700	**272**	**$2,287,500**	377	$3,164,300

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-8% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+38% vs Standard

Design load. Aluminium is the most load-sensitive family: rafter depth grows with span, so the heavy tier adds +28…+38%. Quote the tier before the size. **Typical use.** Event and exhibition pavilions · corporate halls · logistics and yacht storage · coastal sites. Snow range 0.5–3.5 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · anodised aluminium frame, 850 GSM base.

DIVISION 05 / 09

Luxury Sailcloth Event Tents

Clear span 10–60 m · 750 GSM PVDF · engineering estimate



Sailcloth event tent — design rendering

- Spruce king poles, stainless rigging
- 750 g/m² translucent PVDF — the light-transmitting option
- Erects in days, no crane for the standard bays
- Clear span 10–60 m with no interior posts
- Hospitality-grade finish and detailing

SPAN 10–60 m · AREA 150–7,200 m² · STEEL 11–27 kg/m² · STANDARD $97–$125/m²





Interior — translucent roof on a timber king pole (design rendering)



Tent at dusk (design rendering)



Membrane laid out for cutting and welding

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-SLC-10x15	10	15	150	11.2	93	$13,900	**97**	**$14,600**	114	$17,100
SB-SLC-15x24	15	24	360	12.8	84	$30,200	**89**	**$32,100**	109	$39,200
SB-SLC-20x40	20	40	800	14.4	82	$65,600	**88**	**$70,300**	110	$87,900
SB-SLC-30x60	30	60	1,800	17.6	88	$158,900	**95**	**$171,800**	122	$220,200
SB-SLC-45x90	45	90	4,050	22.4	100	$407,000	**110**	**$444,000**	144	$582,700
SB-SLC-60x120	60	120	7,200	27.2	114	$821,700	**125**	**$901,600**	167	$1,201,100

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-5% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+33% vs Standard

Design load. Offered in Light and Standard only: above 2.0 kN/m² we move the project to DIV-02. Images are design renderings; built references supplied on request. **Typical use.** Wineries · festivals · weddings · resort and hospitality. Snow range 0.5–2.0 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · spruce king poles, 750 g/m² translucent membrane.

DIVISION 06 / 09

Frameless Steel Arch Canopies

Clear span 10–40 m · steel shell, no membrane · engineering estimate



Arch canopy in service

- AZ150 Galvalume coil, roll-formed on site
- No interior truss — the corrugated arch is the structure
- Fastest to install, lowest price per m²
- End walls optional, open ends standard
- Steep arch sheds snow naturally

SPAN 10–40 m · AREA 200–3,200 m² · STEEL 12–21 kg/m² · STANDARD $35–$36/m²





Arch canopy, open ends as standard



Arch section during erection



Roll-formed arch with end wall

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-ARC-10x20	10	20	200	12.0	33	$6,600	**35**	**$7,000**	42	$8,500
SB-ARC-15x30	15	30	450	13.5	28	$12,800	**31**	**$13,800**	39	$17,500
SB-ARC-20x40	20	40	800	15.0	28	$22,300	**30**	**$24,200**	39	$31,600
SB-ARC-28x56	28	56	1,568	17.4	29	$45,600	**32**	**$50,000**	43	$66,700
SB-ARC-36x72	36	72	2,592	19.8	31	$80,900	**34**	**$89,300**	47	$120,700
SB-ARC-40x80	40	80	3,200	21.0	32	$103,800	**36**	**$114,700**	49	$155,900

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-5% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+36% vs Standard

Design load. Light and Standard only. The geometry sheds snow, which is why it stays the cheapest roof. **Typical use.** Aggregate and equipment shelter · livestock · temporary yard cover. Snow range 0.5–2.0 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · AZ150 Galvalume coil, no membrane.

DIVISION 07 / 09

Double-Truss Container Shelters

Clear span 10–28 m · 950 GSM PVDF · calibrated on issued BOM



Container shelter — containers form the walls

- ISO containers form the side walls and the ballast
- No foundation, no concrete — deploy and demount
- 950 GSM PVDF over a double-chord truss
- Containers are not included in the price
- Length in whole 40 ft containers — 12.19 m per bay

SPAN 10–28 m · AREA 122–2,048 m² · STEEL 16–28 kg/m² · STANDARD $75–$78/m²





Containers as side walls and ballast



Container bay with membrane roof



Port yard configuration at dusk

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-CTN-10x12.19	10	12.19	122	16.5	72	$8,800	**75**	**$9,100**	87	$10,600
SB-CTN-14x24.38	14	24.38	341	19.1	65	$22,100	**68**	**$23,300**	82	$28,000
SB-CTN-18x36.58	18	36.58	658	21.7	65	$43,100	**70**	**$45,800**	85	$56,000
SB-CTN-22x48.77	22	48.77	1,073	24.3	68	$72,800	**72**	**$77,700**	90	$96,300
SB-CTN-26x60.96	26	60.96	1,585	26.9	71	$112,300	**76**	**$120,400**	95	$150,700
SB-CTN-28x73.15	28	73.15	2,048	28.2	72	$148,200	**78**	**$159,200**	98	$200,300

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-4% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+26% vs Standard

Design load. Heavy tier +17…+26%. Lengths are multiples of 12.19 m so the 40 ft containers form the side walls uncut; ballast comes from the containers, so anchoring is the cheapest of the range. **Typical use.** Mining camps · port yards · remote sites · rapid deployment. Snow range 0.5–2.0 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · hot-dip galvanised truss, 950 GSM, containers excluded.

DIVISION 08 / 09

Commercial Solar Carports

Clear span 10–24 m · steel shell, no membrane · engineering estimate



Solar carport over parking bays — design rendering

- PV modules and inverter included at 0.7 coverage
- Aluminium lock-seam gutters, hidden fixings
- EV charger ready, cable trays in the column
- 10–24 m single or double bay
- Lowest steel share — 38% — the PV is the value

SPAN 10–24 m · AREA 200–1,440 m² · STEEL 33–46 kg/m² · STANDARD $140–$151/m²





Under-deck — purlins, PV underside and EV post (design rendering)



Carport row in a logistics yard (design rendering)

Model code	Span m	Length m	Area m²	Steel kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-SCP-10x20	10	20	200	33.0	134	$26,800	**140**	**$28,000**	164	$32,700
SB-SCP-14x28	14	28	392	36.6	134	$52,500	**141**	**$55,200**	167	$65,400
SB-SCP-18x36	18	36	648	40.2	137	$88,600	**144**	**$93,600**	173	$112,100
SB-SCP-21x42	21	42	882	42.9	140	$123,200	**148**	**$130,400**	178	$157,300
SB-SCP-24x48	24	48	1,152	45.6	143	$164,600	**152**	**$174,600**	184	$211,900
SB-SCP-24x60	24	60	1,440	45.6	142	$205,200	**151**	**$217,700**	184	$264,400

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-4% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+21% vs Standard

Design load. Standard tier is the norm; heavy adds 17–22%. Snow shedding depends on the module angle; array layout and module make are set per project.
Typical use. Retail parking · logistics yards · corporate campuses. Snow range 0.5–2.0 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · hot-dip galvanised frame, PV modules included.

DIVISION 09 / 09

Cable-Net Barrel-Vault Air-Supported Buildings

Clear span 25–75 m · 1150 GSM PVDF, dual layer · engineering estimate



Barrel-vault air-supported hall — external cable net, airlock end

- Long rectangular plan with a continuous barrel-vault membrane — not a spherical bubble
- External steel cable net plus perimeter concrete anchorage restrains the envelope
- Zero interior columns; 75 m clear width, unlimited project length
- Airlock, hangar door and service penetrations configured per operating envelope
- Redundant pressure, ventilation and emergency-power system, project-specific

SPAN 25–75 m · AREA 1,000–9,750 m² · STEEL 0–0 kg/m² · STANDARD $101–$74/m²





Bulk mineral storage — dust-controlled interior



Full-size football pitch — zero interior columns



Aquatic centre — humidity-controlled envelope

Model code	Span m	Length m	Area m²	Frame kg/m²	Light USD/m²	Light total	Standard USD/m²	Standard total	Heavy USD/m²	Heavy total
SB-DOM-25x40	25	40	1,000	—	98	$97,700	**101**	**$100,900**	113	$112,900
SB-DOM-35x60	35	60	2,100	—	83	$175,200	**85**	**$179,000**	92	$193,100
SB-DOM-45x80	45	80	3,600	—	78	$280,900	**79**	**$285,500**	84	$302,500
SB-DOM-55x100	55	100	5,500	—	75	$414,800	**76**	**$420,300**	80	$441,100
SB-DOM-70x120	70	120	8,400	—	74	$619,100	**74**	**$626,200**	78	$652,700
SB-DOM-75x130	75	130	9,750	—	73	$714,200	**74**	**$722,000**	77	$751,100

L1 · LIGHT
Roof snow 0.5 kN/m² · wind ≤ 1.0 kPa
-3% vs Standard

L2 · STANDARD
Roof snow 2.0 kN/m² · wind ≤ 1.5 kPa
base price

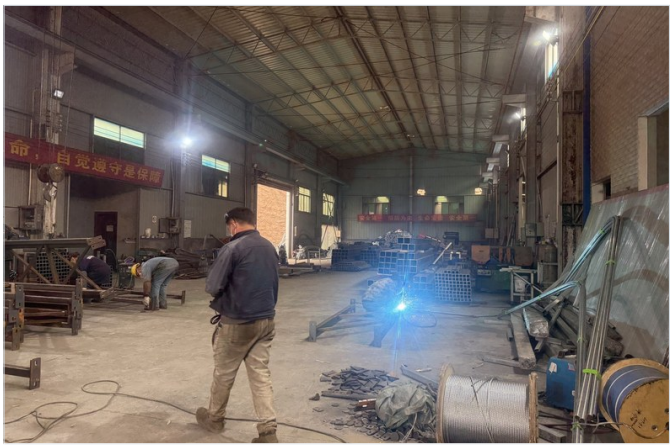
L3 · HEAVY
Roof snow 3.5 kN/m² · anchors re-verified
+4% vs Standard

Design load. Snow is carried by internal pressure, not by steel, so the heavy tier adds only +4…+12% — but the pressure and snow-shedding regime must be verified per project. **Typical use.** Aircraft MRO · submarine and ship overhaul · yacht refit · bulk storage · sports and aquatic centres. Snow range 0.5–3.5 kN/m² · wind ≤ 1.5 kPa / 180 km/h · EXW Changsha · dual-layer membrane + blower pack, no structural steel.

MANUFACTURING · WHERE THE STEEL AND THE MEMBRANE COME FROM

One factory, both halves of the building

Frames are cut, jig-welded, shot-blasted and hot-dip galvanised in-house; membranes are cut and welded on high-frequency machines in a separate hall, then trial-assembled against the frame before packing. That keeps the joint detail and the membrane pocket in tolerance.



Fabrication bay — welding under the gantry



Membrane cutting table



Galvanised members bundled for export



Truss shipping frame, ready to load

Steel	Q355B plate and tube, cut on CNC, jig-welded, shot-blasted to Sa2.5, hot-dip galvanised to ISO 1461 — 85 µm minimum local thickness on the tested batch.
Membrane	PVC / PVDF 750–1450 GSM from Serge Ferrari, Mehler, Sioen and Heytex class suppliers, HF-welded, keder edge finished, trial-erected once.
Inspection	Dimensional check on the jig, weld visual and batch galvanising thickness report, membrane pull-out test on a production sample. Reports travel with the shipment.



Painted and galvanised members staged for assembly



Yard storage — sections kept off the ground

Photographs from our own workshop and membrane hall. Batch records and galvanising reports are supplied per order.

PROOF · SNOW, SITE AND SHIPMENT

What the load tier looks like in service

A load tier is an abstraction until the customer sees a roof carrying snow. These are our own installations and our own loading bay — the same buildings you are pricing on the previous pages.



Snow event — frame and membrane in service



Container lifted onto the trailer at our yard



Steel shipping frame braced as container dunnage



Container used as its own shipping cradle



Dome under snow at our yard



Clear-span shelter with end wall in place

Snow events. The membrane roof above is one of our own structures under natural snowfall; the frame and the membrane pocket were unaffected. The design basis for a shipped building is the tier ordered — the photograph is evidence of service behaviour, not a substitute for the project calculation.

Shipment. Frames are packed into steel shipping frames that double as container bracing; membranes are crated separately and marked by bay. Container count and total weight are confirmed per order — they depend on span, length and load tier, so they are not printed in this catalogue.

OPTIONS · WHAT YOU CAN ADD, AND WHAT IT COSTS

Options priced on a reference building

Adders below are absolute USD on the reference size shown, and the percentage they add to that building's base price. On another size they scale roughly with area, with the exception of fixed items (blower pack, PV inverter).

Div	Reference size	Base price	Option	Add USD	Add %
DIV-01	30×60 m	$303,900	Fabric lifting door (full width)	$33,900	+11.2%
			Membrane upgrade 1050→1250 GSM	$10,700	+3.5%
			Pre-galv → hot-dip galvanised	$23,200	+7.6%
DIV-02	30×60 m	$230,100	Membrane upgrade 1050→1250 GSM	$11,800	+5.1%
			Pre-galv → hot-dip galvanised	$17,100	+7.4%
DIV-03	30×60 m	$253,300	Membrane upgrade 1050→1250 GSM	$10,700	+4.2%
			Pre-galv → hot-dip galvanised	$21,600	+8.5%
DIV-04	30×60 m	$316,800	Membrane upgrade 850→1250 GSM	$16,600	+5.2%
DIV-05	20×40 m	$70,300	Glulam / spruce king poles	$3,800	+5.4%
			Membrane upgrade 750→1250 GSM	$6,800	+9.6%
DIV-06	20×40 m	$24,200	End walls, both gables	$2,700	+11.2%
DIV-07	18×36.58 m	$45,800	Membrane upgrade 950→1250 GSM	$3,700	+8.2%
			Pre-galv → hot-dip galvanised	$3,100	+6.9%
DIV-08	18×36 m	$93,600	PV array + inverter	$41,700	+44.5%
			Pre-galv → hot-dip galvanised	$5,700	+6.1%
DIV-09	45×80 m	$285,500	Blower pack + airlock + cable net	$24,100	+8.4%
			Membrane upgrade 1150→1250 GSM	$14,000	+4.9%



Hangar door bay — full-width fabric lift



Membrane laid out for welding



Bundled frame at the loading bay



Steel shipping frame braced for the container



Galvanised members bundled for export

What is not in any price

Foundations and anchor bolts, crane and rigging, lighting, HVAC, insulation beyond the stated R value, glass curtain wall on DIV-04, containers on DIV-07, PV modules on DIV-08 where not stated, erection crew and site supervision, ocean freight, insurance, duties and VAT. Import clearance and inland delivery are quoted separately on request.

Order of operations for a firm number. Send span, length, eave height, roof snow load and basic wind speed. We return a dimensioned drawing, a steel weight take-off, a membrane area and an EXW price — normally within five working days for a standard bay.

Let us price your building

Send us five numbers — clear span, length, eave height, roof snow load and basic wind speed — and we return a dimensioned quotation with steel weight, membrane area and delivery schedule.

Spanbest Co.,Ltd.

www.spanbest.com · sales@spanbest.com · +86 139 2871 7650

SB-PPC-2027-v4

Prices EXW Changsha, USD at 1 : 6.80 CNY, valid 30 days. Load tiers refer to roof snow load in kN/m².

Certificates, test reports and project references are supplied with a formal quotation.