

Four ways to cover industrial space

Air-supported dome



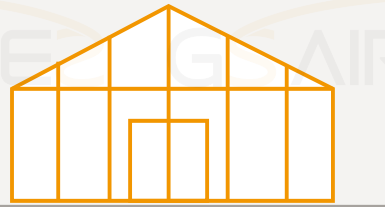
PVDF-coated membrane

110 m

maximum clear span*

Sealed enclosure

Aluminum-frame tent



Aluminum + PVC fabric

60 m

maximum clear span*

Fast assembly & relocation

Steel-frame building



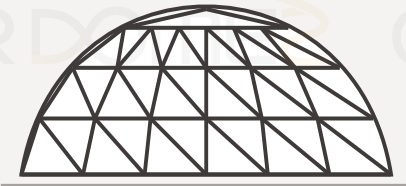
Steel + coated sheets

33 m

maximum clear span*

Rigid steel construction

Spherical space frame



Steel truss + coated sheets

110 m

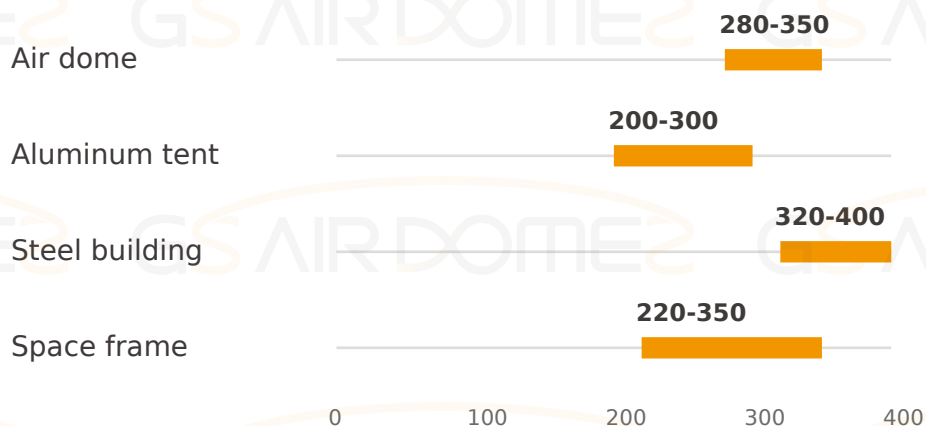
maximum clear span*

Large-span steel framework

* Figures from the supplied comparison. Actual spans depend on design. Illustrations are schematic.

Price and speed at a glance

PRICE RANGE / CNY per m²



INSTALLATION / 10,000 m²



Feature	Air dome	Aluminum tent	Steel building	Space frame
Price basis	280-350 CNY/m ² No foundations	200-300 CNY/m ² No foundations	320-400 CNY/m ² Foundations included	220-350 CNY/m ² Foundations included
Groundworks	Foundations required for coal storage	Stakes or anchors; no conventional foundations	Foundations required	Foundations required
Foundation time	20 days, separately	None stated	20 days, separately	20 days, separately

* Tent schedule: the source also gives 1,000 m²/day, implying 10 days. Foundation timing is separate; overlap is unspecified. Prices have different inclusions and are not complete project quotations.

The practical differences

Feature	Air dome	Aluminum tent	Steel building	Space frame
Wind limit*	Force 12	Force 10	Force 10	Force 10
Snow load*	250 kg/m ²	120 kg/m*	148 kg/m*	120 kg/m*
Fire classification*	B1	B1	GB 14907-2002	GB 14907-2002
Corrosion / lifespan	PVDF coating; 15-year life stated	Aluminum + PVC; 15-year life stated	Coated sheets: replace every 4-6 years	Coated sheets: replace every 4-6 years
Enclosure / daylight	Sealed; translucent membrane available	Less airtight; translucent fabric available	Less airtight; translucent sheets available	Less airtight; translucent sheets available
Ongoing costs	Continuous electricity; low other maintenance stated	Wear at fabric connections	Sheet replacement and repainting	Sheet replacement and repainting
Salvage value	10%	30-40%	10%	10%
Relocation / reuse	Reusable membrane; foundations remain	Repeated relocation; 100% material reuse stated	Some components reusable; foundations remain	Some components reusable; foundations remain

* Wind scale not specified. Snow units for tents, steel and space frames are written as kg/m in the source and need confirmation. Fire references, service life and recovery values are source claims. Permits and anchoring depend on the project location.