



Advanced Textile Architecture Systems

Engineering Efficiency, Durability, and Design
for Industrial & Professional Applications

Redefining Industrial Coverage

- **Core Concept:** A synthesis of professionally designed metal frames and industrial-grade membrane fabrics.
- **The Shift:** Moving beyond traditional heavy construction. These systems offer a proven alternative that combines the permanence of steel with the flexibility of technical textiles.
- **Key Applications:** Warehouses, logistics hubs, hangars, parking canopies, and sports facilities.



Advantage I: Speed & Scalability

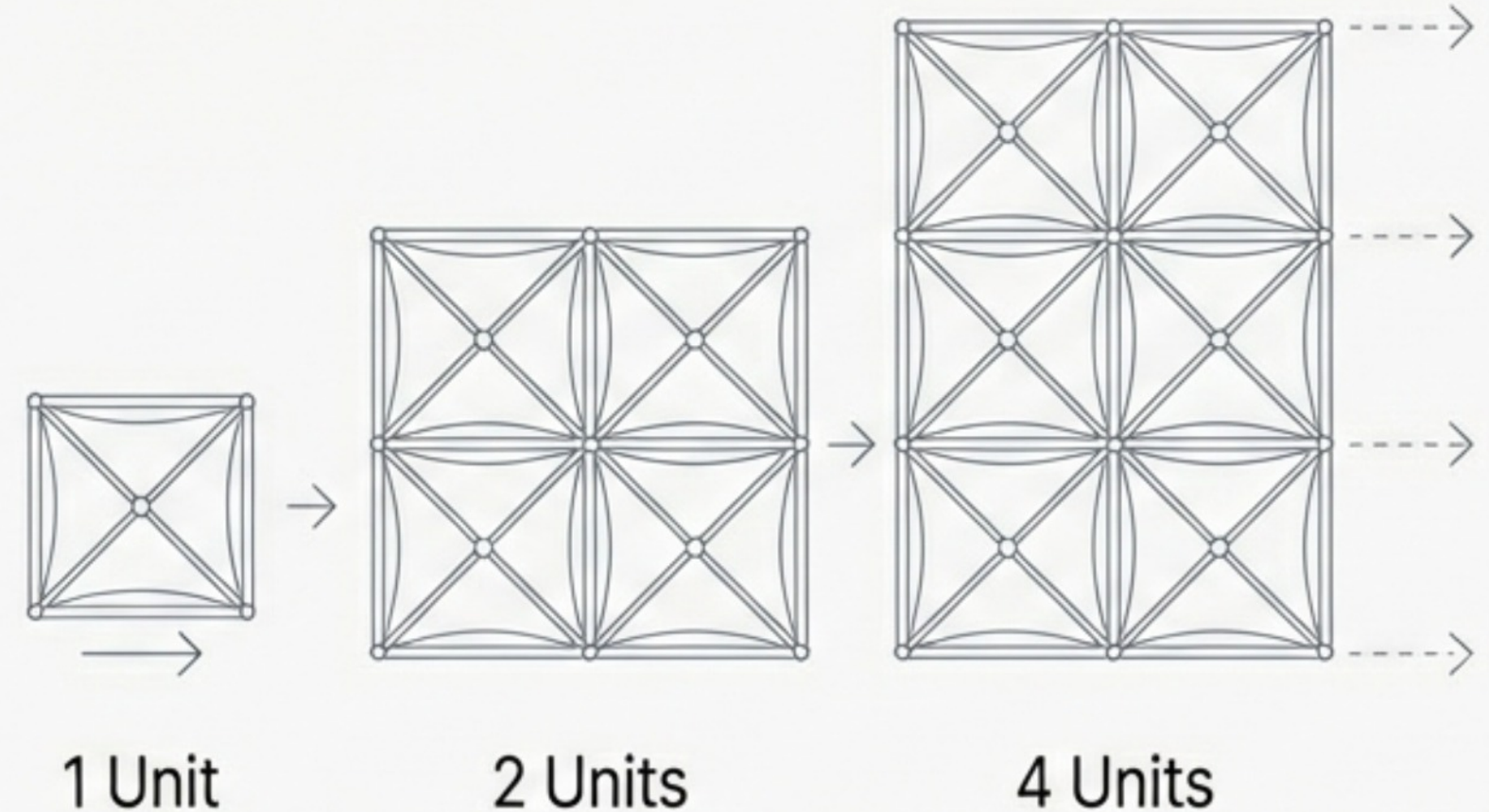
Accelerated Deployment for Critical Operations

● Fast Installation

Significantly reduced project timelines compared to concrete or brick construction. Rapid assembly means operations begin sooner.

● Modularity

Systems are designed to be expandable, relocatable, and reconfigurable. As business needs change, the structure can adapt—unlike a static building.





Advantage II: Optimized Cost Efficiency

Lower Investment, Higher Long-Term Value

- **Capital Expenditure (CapEx)**

Reduced foundation requirements and lower material costs compared to traditional heavy buildings.

- **Energy Efficiency**

Natural light transmission through the membrane reduces the need for artificial lighting during the day.

- **Maintenance**

Low maintenance requirements and long service life reduce ongoing facility costs.



Advantage III: Engineered Durability

Built to Withstand Extreme
Conditions

- Weather Resistance: Engineered to handle high wind loads, heavy snow accumulation, and temperature extremes.
- Seismic Stability: The lightweight and flexible nature of the membrane allows for superior performance in seismic zones compared to rigid masonry.

The Backbone: Industrial Metal Frameworks

Core Message: Every system is built on a professionally engineered metal structure calculated for safety and longevity.

Materials:

- **Galvanized Steel:** Used for high strength and long-term corrosion resistance.
 - **Aluminum Profiles:** Utilized where lightweight performance is critical.
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Engineering:

Precision calculations ensure stability for permanent industrial use.

Precision
Connection



The Shield: High-Performance Membranes

Core Message: Industrial fabrics developed for professional use, ensuring protection and longevity.

	Protection	100% Waterproof, UV resistant, and Fire-retardant (FR) options.
	Physics	High tensile strength and tear resistance.
	Performance	Stable behavior in temperature extremes.

Logistics & Industrial Solutions



Applications:

- Large-span roof systems (clear spans with no internal columns).
- Warehouses, storage tents, and logistics hubs.
- Production zones and industrial hangars.

Benefit: Create vast, protected covered work zones quickly.

Urban & Commercial Infrastructure

Applications:

- Parking shade canopies for commercial centers and municipalities.
- Fleet protection (shielding vehicles from sun, UV damage, and hail).
- Construction site shelters and equipment covers.

Benefit: Modular protection that maximizes usable space.



Architectural & Recreational Spaces

Design Meets Function: A clean, modern architectural finish that enhances the user experience.

Applications:

- - Sports facility enclosures (football fields, tennis courts, pools).
- - Exhibition halls and commercial pavilions.
- - Stretch Membrane systems for acoustic control.



The Turnkey Engineering Process

From Concept to Commissioning



Why Choose Textile Architecture?

● Speed

Faster deployment than conventional construction.

● Cost

Lower foundation costs and optimized TCO.

● Durability

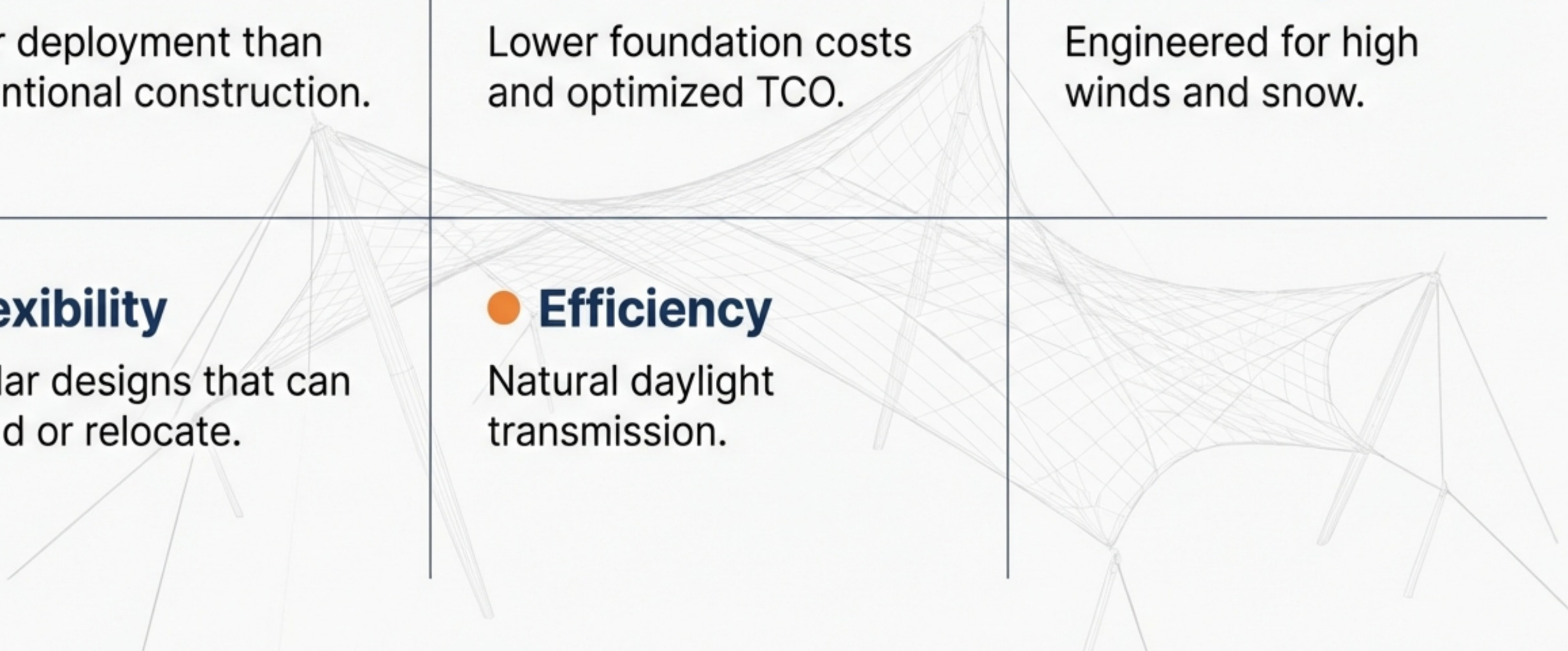
Engineered for high winds and snow.

● Flexibility

Modular designs that can expand or relocate.

● Efficiency

Natural daylight transmission.



Engineered for the Future

- Call to Action: Contact us for custom consultation, structural engineering, and project development.
 - Scope: Available for industrial tents, membrane structures, large-span coverings, and covered parking systems.
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THE POWER OF TEXTILE ARCHITECTURE: ENGINEERING EFFICIENCY & DESIGN

CORE OPERATIONAL ADVANTAGES

RAPID DEPLOYMENT & COST EFFICIENCY



Faster installation & lower foundation costs compared to conventional buildings.

ENGINEERED FOR EXTREME ENVIRONMENTS

Structures calculated to resist high wind loads, snow accumulation, and seismic conditions.



ENERGY-EFFICIENT LIGHT TRANSMISSION

Membranes allow natural daylighting, reducing the need for artificial interior lighting.



MATERIAL COMPONENT OVERVIEW

-  **GALVANIZED STEEL** High strength and long-term corrosion resistance
-  **ALUMINUM PROFILES** Lightweight performance for specialized structural needs
-  **HIGH-PERF. MEMBRANE** Waterproof, UV-resistant, and fire-retardant protection.

INDUSTRIAL & PROFESSIONAL APPLICATIONS

LOGISTICS & HEAVY STORAGE

Ideal for industrial hangars, textile warehouses, and large-span storage tents.



URBAN INFRASTRUCTURE & PARKING

Scalable designs for parking canopies and commercial pavilion systems.



SPORTS & SPECIALTY ENCLOSURES

Lightweight coverage for football fields, training halls, and multi-purpose athletic facilities.

