Green Building Solutions

We've Got You Covered

"Our entire organization has implemented daily procedures keeping green initiatives in mind. We strive to deliver a quality product that is durable and recyclable, while serving our clients' individual needs."

- **Kirk Klever,** President

BUILT TO LAST

Better quality materials and easily recycled steel or aluminum frames equals less waste that goes into landfills.

Universal Fabric Structures offers both aluminum and steel framing options so we can provide the best solution for our customers' shelters.

UFS aluminum structures are manufactured with 6061-T6, a very strong structural aluminum alloy. In addition, they are lightweight, can be easily relocated, and offer quick and easy set up. The durability and corrosion resistance of aluminum allows the structure to maintain its integrity for years, and affords significant resale value for customers wishing to dismantle and resell the shelter.

Our steel-framed structures are built to meet North America's average loading codes and can be customized to withstand extremely high snow or wind load. UFS treats the steel trusses with a galvanized or epoxy coating, AFTER fabrication and welding, to further protect the metal from oxidation for years to come. This provides the structure with excellent durability and strength.

UFS offers a 25 year warranty on most aluminum and steel frames (Phoenix: 15 years).

Universal Fabric Structures only uses premium grade, heavy-duty fabric for extended life expectancy. Our fabric comes with a 12 year standard warranty (Phoenix: 10 years).

ENERGY EFFICIENT

Commercial R-19, R-25, and R-30 Insulation Packages

The insulation system is custom made for each order and the Syseal® fabric liner typically spans the entire bay's width and length in one piece. It is supported by a grid pattern of tensioned steel straps installed below the purlins or joists. This creates the required space for full insulation thickness between the structural members. In multi-layer systems the upper layer of unfaced insulation may be installed over the structural members with minimal compression.

Thickness	Pre-Installed R-Value	Width* (in)	Length
9-1/2"	R-30	48 • 60	35'
8"	R-25	48 • 60	40'
6"	R-19	36 • 48 • 60 • 72	50'

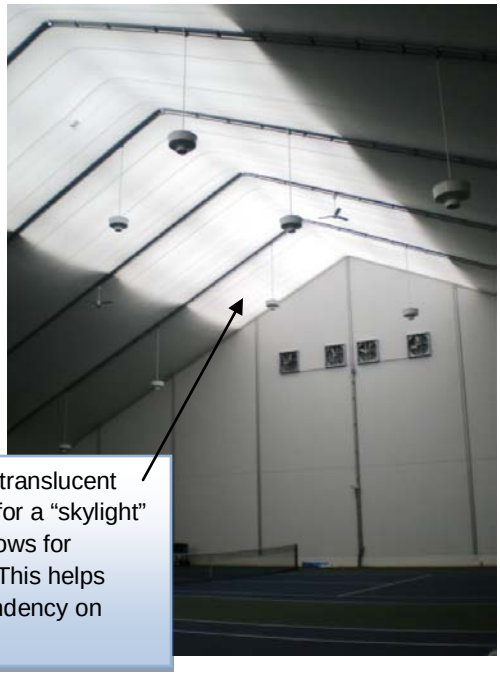
Vapor Barrier Liner Fabric: Syseal® type woven, reinforced, high-density polyethylene yarns coated on both sides with continuous white or colored polyethylene coatings, as follows:

a. Product complies with ASTM C 1136, Types I through Type VI.
b. Perm rating: 0.02 for fabric and for seams in accordance with ASTM E 96.
c. Flame/Smoke Properties:
    1) 25/50 in accordance with ASTM E 84.
    2) Self-extinguishes with field test using matches or butane lighter.
d. Ultra violet radiation inhibitor to minimum UVMAX® rating of 8.

Roof Insulation: Formaldehyde-free fiberglass batt or fiberglass blanket complying with ASTM C 991 Type 1 and ASTM E 84 with a thermal resistance and thickness as follows:

a. R-19; 6 inches (152 mm).
b. R-25; 8 inches (203 mm).
c. R-30; 9-1/2 inches (241 mm).

Liner Material Color: White, Translucent

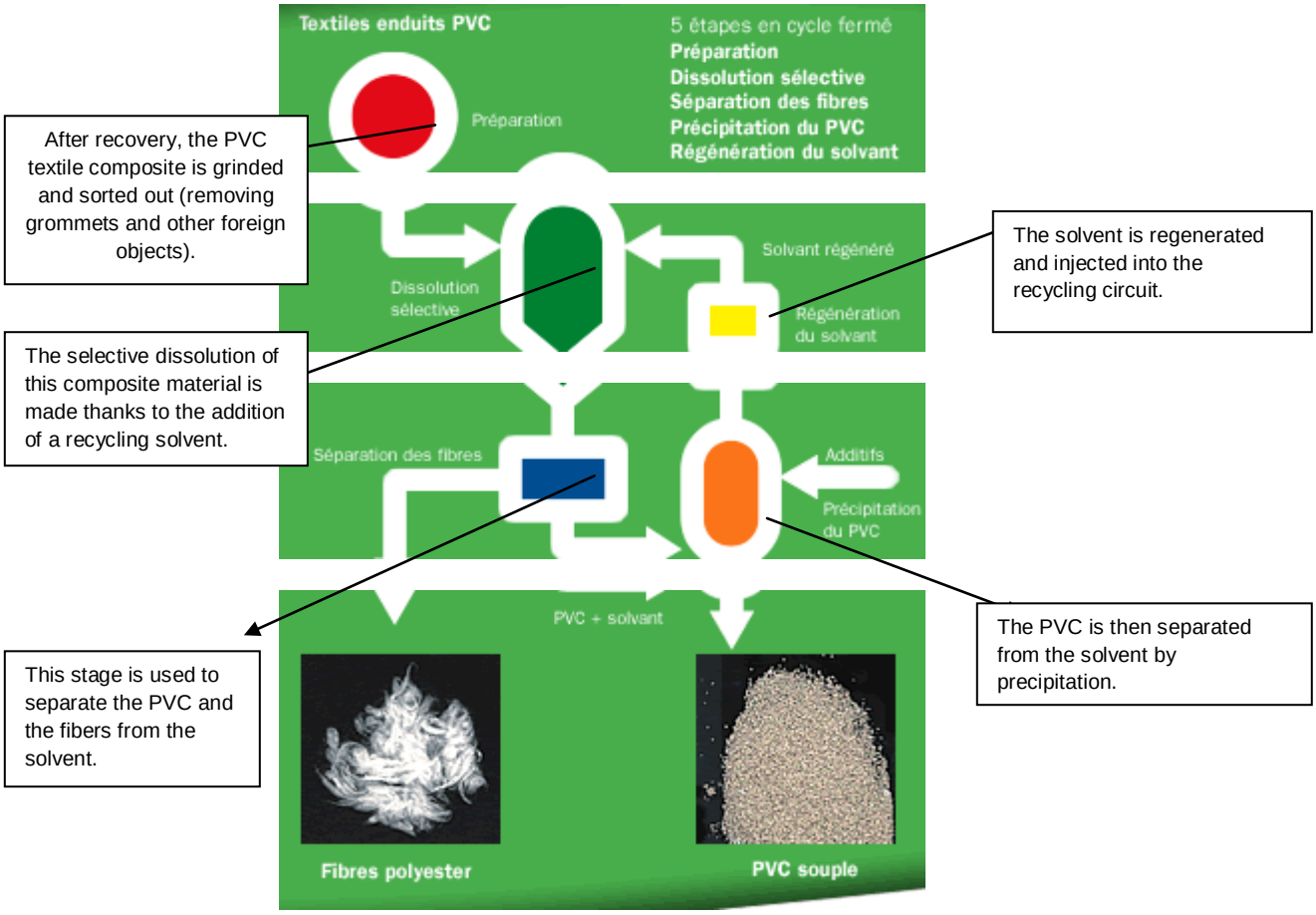


UFS offers a translucent fabric option for a "skylight" effect that allows for natural light. This helps reduce dependency on electricity.

RECYCLABLE MATERIALS

In addition to our easily recycled steel and aluminum frames, Universal Fabric Structures also offers Ferrari Textile fabric's Texyloop program.

This is the patented process by which Ferrari Textiles is able to recycle PVC-coated membranes; attached below is a diagram of the process.



After recovery, the PVC textile composite is grinded and sorted out (removing grommets and other foreign objects).

The solvent is regenerated and injected into the recycling circuit.

The selective dissolution of this composite material is made thanks to the addition of a recycling solvent.

This stage is used to separate the PVC and the fibers from the solvent.

The PVC is then separated from the solvent by precipitation.

The Texyloop process recovers reusable polyester fibers and PVC granules for use in other applications. Never before has this been accomplished – Ferrari Textiles products are the only PVC membrane in the world to be able to say they are in fact 100% recyclable.

GREEN BY DESIGN

No need for costly, and wasteful, demolition work when you need to expand. Frame-supported fabric structures are, by design, able to be relocated and expanded. This unique feature cuts down on traditional construction waste and allows for additional design options over the lifespan of the materials, such as crane-lifting of Universal Fabric Structures' TFS series aluminum buildings to further reduce the construction footprint on large job sites.

LEED CERTIFICATION

All Universal Fabric Structures buildings can help you qualify for certain LEED® points for your overall project. Contact us for more information.

SUMMARY

The cost of a structure does not end with the initial purchase price. It is the purchase price plus the cost to operate. Right from the initial consultation, UFS design engineers suggest and incorporate energy savings and green initiatives that will not only save the environment but save our clients' money by reducing the "total cost" of operating the structure over its life span.

- Better quality equals longer life span, reducing waste.
- Energy-efficient fabric
- Recyclable materials
- Green by design
- LEED® certification points