

# *Fabric* **ARCHITECTURE**

DESIGN FOR SUSTAINABILITY

2010 SUSTAINABILITY  
**PORTFOLIO**



## 2010 SUSTAINABILITY PORTFOLIO / PRODUCT PROFILES

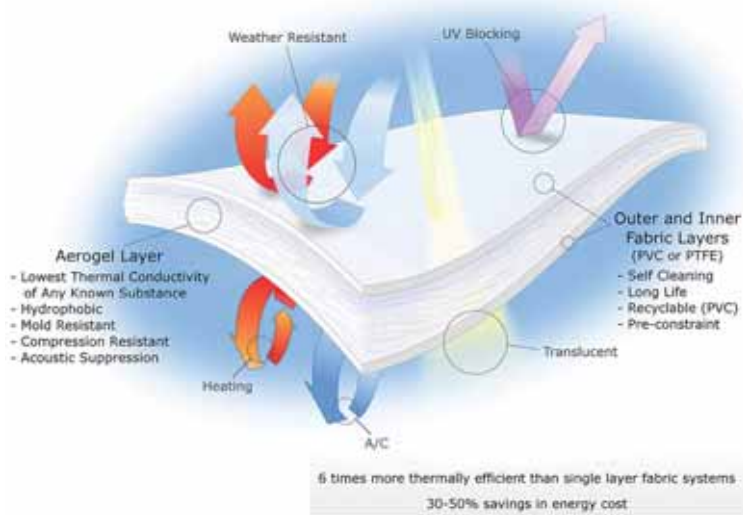
This section presents products by manufacturers, design consultants and suppliers in an easy-to-read format that allows designers to make comparisons and get a good grasp of each product's characteristics. Products are arranged according to three basic categories (fabric, fabric applications and services). Companies are listed alphabetically within each category.

All product profiles were purchased and supplied by the participating companies. The accuracy of all descriptions and images is the responsibility of the company supplying the information.

- 1 **FABRIC**
- 21 **FABRIC APPLICATIONS**
- 31 **SERVICES**

# FABRIC

## AeroLite Fabric Pty. Ltd.



### PRODUCT » Thermally efficient translucent fabrics

AeroLite™ is a “super insulated” tensile fabric composite that uses a thin layer of Aerogel blanket insulation sandwiched between PTFE or PVC fabric. With beautiful translucence, free form and light-weight properties, along with its thermal and acoustical benefits, AeroLite can be integrated into any architectural tensile membrane, façade, pre-engineered or pneumatic structure. The highest R values can be achieved using varying thicknesses of Aerogel SpaceLoft®, Cryogel or Pyrogel insulation. AeroLite’s insulating properties are six times greater than a single skin of fabric, or 2.5 times greater than a double-layer fabric system.

#### FEATURES/ADVANTAGES

- » **Natural transmission of light:** saves energy by reducing the need for electrical daylighting
- » **Energy efficient thermal insulation:** reduces energy consumption and heating cooling costs by 30–50%
- » **No thermal bridging:** continuous foam insulation, satisfying new sustainable building requirements
- » **Longevity:** Aerogel product life is 60 years with a minimal 2% degradation in thermal performance
- » **Low carbon footprint:** Little to no job site waste; recyclable fabric options; low shipping needs
- » **Self-cleaning:** Outer coating of PVDF naturally scrubs airborne pollutants and reduces cleaning requirements

#### TECHNICAL INFORMATION

Outer and interior fabric layers: PTFE, PVC, and other fabric options available. Internal insulation layer: Aerogel SpaceLoft, Cryogel, or Pyrogel; R value of AeroLite (US Units – h ft² °F/BTU): 0.19 in. / 5 mm = 2.88; 0.39 in. / 10 mm = 5.00; 0.59 in. / 15 mm = 7.08; Technical specifications available upon request.

#### COMPANY PROFILE

AeroLite Fabric Pty. Ltd. is a global leader in the design and development of innovative thermal efficient fabrics for use in sustainable architectural and pre-engineered structures. AeroLite Fabric Pty. Ltd. provides the highest quality, cutting-edge product development, fabrication, engineering and project management resources to meet the most complex project needs.

#### CONTACT INFORMATION

AeroLite Fabric Pty. Ltd.

Australia  
+61 2 6674 4466

United States  
+1 702 267 8335

info@aerolitefabric.com  
www.aerolitefabric.com

## California Combining Corp.



### PRODUCT » Fabric for fabric structures

California Combining's tent products include a 61-in. wide high-gloss translucent and a high-gloss opaque tent vinyl. The high-gloss translucent tent vinyl is available in 10–18 oz. weights in a variety of colors. The high-gloss opaque tent vinyl is available in both 15- and 18-oz. weights, 61-in. wide. The 18-oz. weight is available in a variety of constructions to meet your specific requirements. These products are used in manufacturing of event tents, canopies, shade structures, fencing, and much more. California Combining's PVC-coated mesh is available in various shade factors for use in fencing, shade covers, and tarp covers. It is produced in both 61- and 72-in. widths in eight standard colors. Custom colors are also available.

### FEATURES/ADVANTAGES

- » Tent vinyl comes with a high-gloss finish and added UV inhibitors for longer life
- » Tent vinyls are fire retardant to meet a variety of codes
- » Tent vinyl comes in standard stock colors, custom colors, and stripes of various sizes
- » PVC mesh is produced in stock colors with various constructions, as well as custom colors with a low minimum
- » PVC mesh is fire retardant to meet California Fire Marshall codes.

### TECHNICAL INFORMATION

California Combining Corp.'s tent vinyls are produced with the highest quality vinyls, which contain high levels of UV resistance, cold crack, woven, and weft-inserted scrim. The reinforcing polyester scrim comes in various strengths, ranging from 500d, 1000d and 1300d. All our vinyls meet MVS302 and NFPA701 fire codes.

### COMPANY PROFILE

California Combining Corp. has provided high quality laminated products to a variety of industries for over 50 years. Their product line features reinforced vinyl laminates in a variety of weights, widths and colors. California Combining is also one of the leading suppliers of banner vinyls. In addition to the stock line of tent products, California Combining has the ability to produce custom products in reinforced vinyl and PVC-coated mesh, as well as laminating fabrics, foam, urethanes, vinyls, and paper, even producing vinyl stripes for event tents.

### CONTACT INFORMATION

California Combining Corp.  
5607 Santa Fe Ave  
Los Angeles, CA 90058  
+1 323 589 5727  
Fax +1 323 585 8078  
ccclwm@aol.com  
www.calcombining.com

## Cooley Group



### PRODUCT » Cooley-Brite®

The enduring Cooley-Brite family of high quality, long-lasting eradicable materials, which also includes Cooley-Brite II with Coolthane® topcoat and lightweight Cooley-Brite Lite, is the most recognized name in backlit sign and awning applications worldwide. Cooley-Brite 20 oz. eradicable is Cooley's original backlit sign and awning material and features a scrim design that is nearly invisible to allow for maximum light diffusion, consistent translucency and brilliant color. All Cooley-Brite products are designed for use with decorating applications, including PSV, digital printing, screen-printing, heat transfer and spray paint.

Cooley-Brite Lite 16 oz. eradicable is based on the same proven technology as Cooley-Brite, but is a lighter weight substrate offering unique flexibility for ease of installation. As with Cooley-Brite, it has high color brilliance and translucency, is durable and provides the most economical method of sign and awning decoration. Cooley-Brite II is the top-of-the-line eradicable product, offering the best protection available.

Both Cooley-Brite and Cooley-Brite Lite are available in 20 standard colors (custom colors are available on request) and carry an 8-year warranty. Cooley-Brite II carries a warranty of 10 years. Cooley-Brite® is a registered trademark of the Cooley Group.

#### FEATURES/ADVANTAGES

Flexible, eradicable; UV, fire and weather resistant; Excellent color, durability and long life; Consistent color translucency; Wide variety of decorating options

#### TECHNICAL INFORMATION

UL48, UL94, NFPA 701 and CSFM approved; 20 standard colors (both Cooley-Brite II, Cooley-Brite & Cooley-Brite Lite); available in 10, 25 and 50 yd. rolls in 78" widths

#### COMPANY PROFILE

Cooley Group found its roots in Cooley Finishing Company, founded in 1926 to finish cotton cloth into awning fabric. Today, Cooley employs the latest in chemical engineering technology to produce state-of-the-art polymer materials. The four divisions of Cooley Group are Cooley Sign & Awning Products, Cooley Digital Products, Cooley Engineered Membranes and Cooley Building Products. Cooley Sign & Awning Products manufactures a variety of substrates for awnings, backlit signs, banners, as well as other applications. Cooley sign and awning substrates can be seen worldwide enhancing the image of many companies, including Target, Exxon Mobil, Dunkin' Donuts, KeyBank and more.

#### CONTACT INFORMATION

Cooley Group  
50 Esten Avenue  
Pawtucket, RI 02860  
+1 401 724 9000; 800 992 0072  
Fax +1 401 726 8799  
info@cooleygroup.com  
www.cooleygroup.com

# FABRIC

## Cooley Group



### PRODUCT » Weathertyte®/Weathertyte® Lite

Weathertyte (16-ounce) and Weathertyte Lite (11-ounce) are technically advanced waterproof (not just water-resistant) and flame resistant fabrics that offer the look and feel of a woven fabric, but have all the benefits of a high-performance composite vinyl. Weathertyte and Weathertyte Lite provide customers with essential 'weather-tight' protection they need and the sophisticated look and feel of a fabric they demand. Weathertyte® is a registered trademark of the Cooley Group. Weathertyte Lite is now available with two-sided color.

#### FEATURES/ADVANTAGES

- » Flexible, easy to handle throughout fabrication process
- » UV, fire and weather resistant
- » Excellent color, durability and long life
- » Resists sagging better than woven acrylics
- » Wide variety of decorating options
- » 74" width saves fabrication time
- » Inkjet printable
- » Mold and fungus resistant
- » A wide array of beautiful colors

#### TECHNICAL INFORMATION

Weathertyte: NFPA 701, CA State Fire Marshall, ASTM E 84, City of Los Angeles approved.

Available in 50 yard rolls, @ 74" widths

#### WARRANTY

Weathertyte carries an 8-year limited warranty.  
Weathertyte Lite carries a 5-year warranty

#### COMPANY PROFILE

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#### CONTACT INFORMATION

Cooley Group  
50 Esten Avenue  
Pawtucket, RI 02860  
+1 401 724 9000, 800 992 0072  
Fax +1 401 726 8799  
info@cooleygroup.com  
www.weathertyte.com

## Covin Sales & Converting



### PRODUCT » Fabric for awnings & canopies

Covin's Sundown solution dyed acrylic fabric is the perfect fabric for awning and marine applications. In addition to the Sundown fabric, we are now stocking three lines of fire retardant outdoor fabrics to meet the various fire codes. We stock and distribute the SundownFR, WeathermaxFR, and Firefoil products. Each product has its own unique look, colors, performance characteristics and applications. We also carry a PVC backed version of our Sundown fabric, which is a waterproof alternative. In addition to the awning fabrics, we also carry a line of woven polyester and nylon fabrics, in various weights and coatings, that are used in a variety of sewn products such as bags, backpacks, luggage, covers, medical devices and much more.

### FEATURES/ADVANTAGES

- » *Sundown* has a unique line of solid colors and stripe patterns
- » Exclusive "beefy" finish on the Sundown fabric makes it easy to sew
- » Ultrasonically sealed selvage
- » No extra charge for premium colors
- » *SundownFR* is the closest FR outdoor fabric in appearance to solution-dyed acrylic
- » *WeathermaxFR* outperforms the competition in strength and abrasion resistance, as well as being very water repellent
- » *Firefoil* is the perfect fabric for extreme conditions, as well as exceeding your everyday needs.

### TECHNICAL INFORMATION

Sundown 310g is 100% solution-dyed acrylic in both 47 & 60 in. widths. SundownFR 9oz. is a solution-dyed polyester that meets CSFM Title 19 and NFPA701; WeathermaxFR 9.25 oz. is a solution-dyed saturamax fabric that meets CSFM Title 19, NFPA701 and CPAI84. Firefoil 15 oz. is a acrylic-coated poly/cotton that meets CSFM Title 19, NFPA701 and CPAI84.

### COMPANY PROFILE

Covin Sales & Converting is the exclusive U.S. distributor of Sundown, 100% solution-dyed acrylic, manufactured in Europe by Saulea S.A. Covin carries a stock line of nylons and polyesters of different weights and coatings. Covin also laminates both open- and closed-cell foams to fabrics and offers packages with stock fabrics. Laminating, die cutting and sheeting are all in-house processes.

### CONTACT INFORMATION

Covin Sales & Converting  
2055 Randolph St  
Huntington Park, CA 90255  
888 862 6846, +1 323 584 5067  
Fax +1 323 584 6095  
covinsales@sbcglobal.net  
www.covinsales.com

## Ferrari Textiles Corp.



### PRODUCT » Fabric for awnings and screens

Ferrari Color Design products are high-performance fabrics manufactured using the exclusive Ferrari Précontraint® technology of unrivaled mechanical properties. With our complete Soltis® range of textiles, Ferrari combines transparency with advanced technical features to provide thermal and light protection. The unparalleled qualities of dimensional stability, surface evenness, minimal thickness and performance strength make the different weaving styles of the Soltis range suitable for all architectural situations.

*Color Design fabrics:* in 30 colors for the Précontraint 502 and 12 stripes for the Précontraint 542 designed for awnings, canopies, shade sails and other shade structures; *Soltis 86 and Soltis 92:* Used in both indoor and outdoor applications, these textiles are available in about 30 different colors and are perfect for all awnings, vertical and horizontal blinds and shade sail applications; *Soltis B92:* Allows for complete light control offering 100% opaque fabric with a Soltis 92 solid color on interior side to match existing blinds and décor; *Soltis 99:* For internal solar protection, the best visual comfort to any working environment. Available in 17 colors

### SUSTAINABLE FEATURES/ADVANTAGES

- » 100% recyclable composite textiles through Ferrari's Texyloop® process
- » Solid fabrics and meshes benefiting from Ferrari's Précontraint technology properties and available in various widths
- » Fabric warranties 5 and 8 years
- » Fire and building code certifications available upon request.

### RECYCLING TECHNOLOGY

The Ferrari Group is firmly committed to a policy of sustainable development. With the introduction of our Texyloop process, the Ferrari Group is able to relieve concerns about the impact of our PVC-coated textiles upon the environment. Texyloop allows us to recycle 100% of Ferrari composite textiles and membranes and return individual components back to industrial clients for re-use.

### COMPANY PROFILE

Since 1974, the family-owned Ferrari Group has focused on developing innovative composite textiles used in many different markets including textile architecture, awning, tent, solar protection, marine, sign and industrial. As a vertically integrated company, we manufacture and weave all of our fibers, coat and finish our fabrics in Europe, all under ISO 9001 requirements. With our worldwide network of Ferrari offices, distributors and agents, Ferrari offers outstanding service to its various clients, partners, manufacturers and project specifiers.

### CONTACT INFORMATION

Ferrari Textiles Corp.  
 1510 SW 5th Ct  
 Pompano Beach, FL 33069  
 866 942 3600, +1 954 942 3600  
 Fax +1 954 942 5555  
[sales@ferraritextiles.com](mailto:sales@ferraritextiles.com)  
[www.ferraritextiles.com](http://www.ferraritextiles.com)  
[www.soltis-textiles.com](http://www.soltis-textiles.com)

## Ferrari Textiles Corp.



### PRODUCT » Fabric for fabric structures

- » T2—This product group is designed for the long term static application; tension structures and buildings being the most common uses. This product features a complete PVDF surface treatment with an additional whitening agent which adds an additional barrier from the elements. Offering a standard 12-year warranty with options include up to 15 years
- » Batyline® SK 300 —Designed as an interior tension product; it features a glass weave with a silicone coating allowing it to act as a light diffuser as well as adding shape to any project. High translucency and non-combustible
- » Soltis® —Providing protection from the elements and maintaining a view at the same time are a hard combination to achieve. Soltis solar protection fabrics give you these and many more features
- » Stamisol® FT 371 —Textile Facades now have a name and a look with FT 371. Maintaining the view for clients inside, they can project whatever image they desire with colors or digital options while enjoying the energy savings and comfort standard with FT 371

### SUSTAINABLE FEATURES/ADVANTAGES

- » 100% Recyclable PVC
- » Précontraint® Technology —there is no substitute for equal tension
- » Shadesail Website —with pertinent load and footing data available
- » CSI spec documents available on demand.

### TECHNICAL INFORMATION

Précontraint technology from Ferrari is most easily explained as the equal tensioning of the base fabric in the warp and fill direction prior to and during the coating process. The benefits that this type of patented manufacturing provides include more dimensional stability, more PVC protection than typical coated fabrics, and longer life spans, to name just a few.

### COMPANY PROFILE

The Ferrari Textiles Group has continued to lead the industry with technical innovations. Ever since the family created Précontraint Technology we have looked at ways to continuously improve our products and the industry. In 2004, Ferrari first introduced PVC recycling at our Texyloop® facility in Italy, allowing PVC fire retardant technical membranes to be considered a “green” product. Ferrari Textiles offers a wide range of products and services: from Solar Protection, Awning, Digital, Tensile Architecture, Interior Design, and Textile Façade products. With a complete international network of offices, Ferrari Textiles offers the most complete solution for your next fabric project.

### CONTACT INFORMATION

Ferrari Textiles Corp.  
1510 SW 5th Court  
Pompano Beach, FL 33069  
866 942 3600, +1 954 942 3600  
Fax +1 954 942 5555  
sales@ferraritextiles.com  
www.ferraritextiles.com  
www.soltis-textiles.com  
www.ferrari-architecture.com  
www.batyline.com

## Glen Raven Custom Fabrics Inc.



### PRODUCT » Fire-retardant awning and shade structure fabric

Firesist™ awning fabric represents the latest Glen Raven fire-retardant technology, specifically designed for the commercial awning, canopy and shade applications.

#### FEATURES/ADVANTAGES

- » Weather resistance: With over 100 years of outdoor awning experience, Glen Raven has engineered new coatings and finishes to maximize water repellency, sunlight resistance and ease of cleaning.
- » Color retention & strength: The deep, rich colors of Firesist deliver the long lasting good looks you expect from Glen Raven. Workability improvements make fabrication easier and keep the installation looking great for years.
- » Styling: Firesist has a refreshed color pallet with 12 popular solids and new tweeds.

#### TECHNICAL INFORMATION

Sunbrella Firesist features a number of proprietary ingredients and processes. Sunbrella fiber is formulated with the most effective coloration and UV-resistant package in the marketplace. Sunbrella fabrics are treated with a special finish that resists water and stains. Sunbrella is inherently resistant to mildew, rot, stains and atmospheric chemicals making it ideal for awnings, market umbrellas and other exterior applications. Sunbrella fabrics are available in 46, 60 and 80 in. widths. Fabric weight is 9.25 oz./sq. yd., 314 kg/m<sup>2</sup>.

#### COMPANY INFORMATION

Glen Raven revolutionized the way the world thinks about how beautiful fabrics perform with the introduction of Sunbrella in 1961. Today, durable, easy-care Sunbrella is available in thousands of sophisticated styles, patterns and colors for wherever people live, work and play.

#### CONTACT INFORMATION

Glen Raven Custom Fabrics LLC  
1831 N Park Ave  
Glen Raven, NC 27217  
800 788 4413, +1 336 221 2211  
Fax +1 336 586 1169  
customerservice@glenraven.com  
www.sunbrella.com

## Glen Raven Custom Fabrics Inc.



### Product » Signage graphics system

Sunbrella® Graphics System is an affordable and cost effective tool that allows designers to easily add graphic applications to their projects. The system was developed and field-tested by awning and sign professionals. Best of all, the system carries a warranty backed by Glen Raven, the manufacturer of Sunbrella fabrics. The durability and beauty of Sunbrella fabric along with the Sunbrella Graphics System are transforming the art of creating graphics into a science.

The 3M Scotchcal Electrocut pressure sensitive films are suitable for use on rigid framed structures. The new SGS Digital Print Film is a thermal activated film which, once applied, produces a more durable bond, the added flexibility allows it to be applied in applications such as market umbrellas, pop up tents, and marine applications where a pressure sensitive film would not be recommended.

### FEATURES/ADVANTAGES

- » Graphics created by the system have crisp, distinct lines and are bonded securely to Sunbrella fabrics.
- » Supports complex, multicolor graphic and logo applications.

### TECHNICAL INFORMATION

The film is either cut or digitally printed to design specification. The Sunbrella awning fabric is placed on the unit's flat bed, and the film is positioned on top of the fabric. After the top is closed and secured, the vacuum system pulls the fabric and film tightly together and heat lamps create a tight bond between them.

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### CONTACT INFORMATION

Glen Raven Custom Fabrics LLC  
1831 N Park Ave  
Glen Raven, NC 27217  
800 788 4413, +1 336 221 2211  
Fax +1 336 586 1169  
customerservice@glenraven.com  
www.sunbrella.com

## Glen Raven Custom Fabrics Inc.



### PRODUCT » Fabric for awnings, canopies and outdoor structures

For more than 45 years, Sunbrella® performance fabrics have redefined outdoor living. The newest generation of Sunbrella awning fabrics continues that legacy, with a wide variety of rich solids, sophisticated textures and stunning stripes and a 10-year limited warranty that brings peace of mind to our customers. Our fabrics help you create shaded spaces and structures that are as beautiful as they are functional, with added benefits such as the ability to help reduce energy costs, protect interior furnishings and extend outdoor living spaces.

#### FEATURES/ADVANTAGES

- » *Superior durability* —able to withstand the elements without fading or weakening
- » *Resists stains* —holds up against the toughest stains
- » *Breathable* —fabric construction allow it to breathe, resisting mildew
- » *Easy to maintain* —cleaning made easy because most stains can be removed with a mild soap & water solution.

#### TECHNICAL INFORMATION

Sunbrella features a number of proprietary ingredients and processes. Sunbrella fiber is formulated with the most effective coloration and UV-resistant package in the marketplace. Sunbrella fabrics are treated with a special finish that resists water and stains. Sunbrella is inherently resistant to mildew, rot, stains and atmospheric chemicals making it ideal for awnings, market umbrellas and other exterior applications. Sunbrella fabrics are available in 46, 60 and 80 in. widths. Fabric weight is 9.25 oz./sq. yd., 314 kg/m<sup>2</sup>.

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#### CONTACT INFORMATION

Glen Raven Custom Fabrics LLC  
1831 N Park Ave  
Glen Raven, NC 27217  
800 788 4413, +1 336 221 2211  
Fax +1 336 586 1169  
customerservice@glenraven.com  
www.sunbrella.com

## Hiraoka & Co. Ltd.



### PRODUCT » Back-lit & front-lit awning fabrics

Awnmax is a premium backlit and front-lit awning materials designed for large commercial, institutional, retail and franchise related projects.

Awnmax is the first choice with awning manufacturers and specifiers where quality, appearance, long-term durability, color fastness, strength, ease of maintenance and proven performance are required.

The 19.1 oz. material features a unique and patented scrim (base fabric) which makes Awnmax the strongest awning material manufactured. Ultra-smooth surface is treated with a specially formulated acrylic topcoat for ease of maintenance.

The Awnmax family of products includes Awnmax, Awnshade, Awnscreen and SDTransparent Membrane.

### SUSTAINABLE FEATURES/ADVANTAGES

- » *Proven performance*—over 10-year proven performance
- » *Stronger*—exceedingly strong, better resistance to punctures and tearing
- » *Ease of maintenance*—stays cleaner longer, easier to clean when required
- » *Best translucent quality*—two to five times more translucent. Not just brighter, but better quality illumination
- » *Color consistency*—Awnmax offers un-paralleled color (dye lot) consistency from production to production.

### COMPANY PROFILE

Hiraoka Co. Ltd. of Tokyo, Japan, was established in 1902 and celebrated its 108th anniversary this year. Hiraoka is the world leader in PVDF coating and was the first to implement this technology nearly 30 years ago.

### CONTACT INFORMATION

Hiraoka & Co., Ltd.  
1-21-7 Miniwa, Taito-ku  
Tokyo 110-0011 Japan  
hira1902@tarpo-hiraoka.com  
www.tarpo-hiraoka.com/e

#### Australia

Hiraoka (Australia) Pty. Ltd.  
+61 3 9561 8779  
info@hiraoka.com.au

#### Canada

WRI Supply  
Div. Western Rim Industries  
+1 800 663 2377  
info@wrim.com

#### United States

Hiraoka (USA) Inc.  
+1 717 240 0341  
reidycom@comcast.com

## Hiraoka & Co. Ltd.



### PRODUCT » Translucent, semi-transparent, transparent & opaque material for fabric structures

We manufacture four classes of fabric for architectural structures that allow you to select the level of light that enters the structure. Translucent, semi-transparent, transparent and opaque series are available with our PVDF-II surface for supreme dirt resistance, outstanding durability, flame retardancy and UV blocking properties.

This series is available in high gloss finish with a 15-year warranty and in white, or custom colors by special order except 104T. The 104T range for light structures is available in opaque and 13 fade-resistant colors with a 10-year warranty.

Our newest innovation is the semi-transparent series which offers high light transmission combined with high tensile strength. This series can be used together with our translucent or colored fabrics under the same architectonics.

#### SUSTAINABLE FEATURES/ADVANTAGES

- » All of our high quality fabrics feature our new PVDF-II surface treatment that attracts less dirt and is easier to clean and maintain than other fabrics
- » Our products have a special anti-wick treatment to prevent capillary action from drawing in unwanted moisture and associated stains into the base cloth. This is important for fabric structures where back lighting by the sun can highlight any ugly stains

#### COMPANY PROFILE

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#### CONTACT INFORMATION

Hiraoka & Co., Ltd.  
 1-21-7 Miniwa, Taito-ku  
 Tokyo 110-0011 JAPAN  
 hira1902@tarpo-hiraoka.com  
 www.tarpo-hiraoka.com/e

#### Australia

Hiraoka (Australia) Pty. Ltd.  
 +61 3 9561 8779  
 info@hiraoka.com.au

#### United States

Hiraoka (USA) Inc.  
 +1 717 240 0341  
 reidycm@comcast.com

#### TECHNICAL INFORMATION

Item	Weight (oz/yd <sup>2</sup> )	Strip Tensile (lbs/in)	Translucent series		Semi-transparent series		Transparent series		
			Light Trans. (%)	Light Trans. (%)	Item	Weight (oz/yd <sup>2</sup> )	Strip Tensile (lbs/in)	Light Trans. (%)	
104T	9	283/257	10	50	SD-1800A	24	274/242	58	
102T -II	24	354/354	13	43	SD-1800	20	234/206	52	
212T -II	28	514/514	12	36	SD-4180	26	130/121	63	
312T -II	31	651/651	11	31	SD-1600	25	103/121	66	
412T -II	40	971/834	8	-					

## Mehler Technologies Inc.



### PRODUCT » Fabric for tension structures

Valmex® Mehatop F is smooth, strong and easy to fabricate. Valmex is a customized membrane material for permanent and semi-permanent structures with a wide range of applications, such as walkway roofs, canopies, tents, sound shells, airplane hangars, air supported structures, radomes, pavilions and carports. Valmex offers durability, water and dirt repellance, and high temperature stability. It is available in translucent, opaque and color.

Polymar® Tent fabrics provide maximum stability and resistance to temperature, moisture and dirt. It doesn't shrink or bag, and the acrylic top coating makes it easy to clean. High quality, low-wick polyester yarns in the base fabric prevent bacteria and fungus growth at the edges and welded seams. It is also available in translucent, opaque and color.

### TECHNICAL INFORMATION

*Valmex—Structure:* High-tenacity, low-wick PES fabrics, coated with PVC and top-coated with weldable PVDF. Classified strength types in wide widths (98 in./250 cm); available in standard. Meets California Fire Code title 19 and also NFPA 701.

*Type I FR 700:* 25 oz./sq. yd. (60 kN/m); *Type II FR 900:* 27 oz./sq. yd. (84 kN/m); *Type III FR 1000:* 31 oz./sq. yd. (120 kN/m); *Type IV FR 1400:* 40 oz./sq. yd. (150 kN/m)

*Polymar—Tent:* Low-wick PES fabrics, coated with PVC and both sides acrylic top-coated. Available in 98 in. width. Meets California Fire Code title 19 and also NFPA 701.

*Style 7216—Poly Prima:* 19 oz./sq. yd.; *Style 8509—Poly Color:* 19 oz./sq. yd.; *Style 8596—Poly Opaque:* 19 oz./sq. yd.

### COMPANY PROFILE

Mehler originated in 1837 and evolved into a leading manufacturer of architectural and tent coated fabrics, giving them the experience to create the highest quality products.

As a global firm, Mehler has weaving, coating, and top-coating plants located in Germany and the Czech Republic. In the United States, Mehler's central office and warehouse is located in Martinsville, Virginia. There are also two other warehouses located in Los Angeles and Chicago, Illinois to serve customers throughout the United States.

### CONTACT INFORMATION

Mehler Technologies Inc.  
Subsidiary of Mehler Technologies GmbH  
220B Cabell St  
Martinsville, VA 24112  
877 226 2833  
Fax +1 276 638 1472  
lvia@mehlertex.com  
www.mehler-technologies.com

## P-D Interglas Technologies Ltd.



### PRODUCT » Fabric for awnings, canopies, curtains and membranes

Atex™ high performance products from P-D Interglas Technologies combine glass fiber fabrics with specially formulated translucent or pigmented silicone coatings for use as membranes, canopies, curtains and awnings. Available in a range of weights to meet differing design criteria, Atex membranes are produced on new, state-of-the-art equipment in widths up to 118 in.

Silicone coated glass fiber fabrics are fire retardant, non-toxic, hydrophobic and filter out harmful UV light. They provide flexibility and outstanding strength over a temperature range of -60°F to 400°F. Atex technology incorporates these features and enhances them with an anti-wick treatment to prevent mold growth or staining and a specially developed top coating for improved soil resistance and handling.

#### SUSTAINABLE FEATURES/ADVANTAGES

Atex membranes are designed for a long life span in a wide range of weights, colors and features offering advantages such as: Sustainable materials; High translucency; Fire & flame retardent; UV light resistance; Non toxic; High strength with outstanding flexibility.

#### TECHNICAL INFORMATION

Atex fabrics are produced in the following standard styles. Custom configurations are available upon request.

*Screen*: Non-combustible, semi-transparent screen for internal use; *2000TRL*: Type-0 light weight membrane for internal use; *3000TRL*: Type-I medium weight membrane for internal & external use; *3000 Silver Aero*: Type-I reflective medium weight membrane for internal & external use; *5000TRL*: Type-III heavy weight membrane for internal & external use; *5000Aero*: Type-III heavy weight membrane for inflatable structures; *5000 Silver Aero*: Type-III reflective heavy weight membrane for inflatable structures; *8000TRL*: Type-IV heavy weight membrane for internal & external use

#### COMPANY PROFILE

As a major international producer of glass, aramid and carbon fiber fabrics for many technical applications, P-D Interglas Technologies Ltd. operates a quality control system that fulfils strict international requirements for the aerospace, automotive, construction and electronics industries.

P-D Interglas benefits from innovative production and application technology in conjunction with the most up-to-date manufacturing facilities. These resources are employed to deliver Atex solutions wherever quality, strength, corrosion and fire resistance are required in today's modern fabric building culture.

#### CONTACT INFORMATION

P-D Interglas Technologies Ltd.  
1489 Baltimore Pike Ste 214  
Springfield, PA 19064  
+1 610 328 4690  
Fax +1 610 328 4692  
info.usa@atex-membranes.com  
www.atex-membranes.com

## Plastatech Engineering Ltd.



### PRODUCT » Fabric for fabric structures

Strength and stability: High-Point® fabrics by Plastatech Engineering Ltd. feature extraordinary biaxial strength and greater “flex-ability”. Specially selected raw materials contribute towards the fabric’s ability to maintain its shape and vibrancy even in areas with extreme temperature fluctuations, blistering UV rays and harsh environmental elements.

Long-lasting finishes: Our top finishes respond to elements such as pollutants, rain, high-wind and snow. Chose between either a DuPont Tedlar® PVF (polyvinyl fluoride) film finish or a specially developed liquid cross-linked polyurethane topcoat. Both topcoats contribute towards the fabric’s vibrancy so they will look good for years to come. Plastatech’s High-Point fabrics are used to manufacture frame and air supported structures such as military shelters, temporary warehouses, storage domes, hangars, temporary shelters, agriculture storage liners and garages.

### FEATURES/ADVANTAGES

- » A proprietary high-thread count scrim that keeps accidental punctures or tears from spreading
- » A water-repellent scrim that obstructs water absorption and eliminates wicking
- » Specially-coated yarns that inhibit mildew and bacterial growth
- » Top-coat finishes that protect against dirt and contaminants
- » Passed fire tests: CSFM; ASTM E84; UBC 31-1; CAN/ULC-S109-M87; NSP701-99Tm1,2; CAN/ULC-S102.2-03

### TECHNICAL INFORMATION

*Formula options to modify film performance include:*

Printability; Chemical resistance; Anti-static properties; High temperature resistance; UV-resistance; IR reflectivity; Electrical resistance; Prohibiting microbial, mildew and bacteria growth; Flame resistance.

### COMPANY PROFILE

Plastatech Engineering Ltd. is a responsive, close-knit family-owned and operated business, dedicated to ensuring the success of our customers by providing the highest quality calendered and PVC-based films, knitted fabrics and laminates. The high performance of the single-ply membrane that Plastatech supplies to Duro-Last has helped the Duro-Last roofing system become known as “The World’s Best Roof”®. High-Point® architectural fabrics are derived from the proven formulation used to manufacture long-lasting single-ply roofing.

### CONTACT INFORMATION

Plastatech Engineering Ltd.  
725 E Morley Dr  
Saginaw, MI 48601  
800 892 9358, +1 989 754 6500  
Fax +1 989 754 1626  
info@plastatech.com  
www.plastatech.com

## Plastextil S.A.



### PRODUCT » Fabric for tents, awnings and tensile structures

The Arquitens line is for tensioned, air-supported and framed structures. Arquitens is designed to provide architectural versatility, longevity and security for users. Top coat options allow for different degrees of protection.

Our coating process allows us to customize product properties in order to obtain an excellent cost-to-benefit ratio which comes down to manageable project costs. Our experience in specialty fabrics allows us to provide custom solutions for each project requirement.

#### FEATURES/ADVANTAGES

- » Excellent antibacterial spectrum properties, for special tropical conditions
- » Top coat options: acrylic, urethane, PVDF
- » Easy to maintain and repair
- » Black out options
- » Excellent mechanical, flexion and tension properties
- » Fire retardant and UV protection.

#### TECHNICAL INFORMATION

- » Arquitens 1800 : 1,000 denier polyester mesh (7,7), 25 oz 850g/m<sup>2</sup>, blackout, fire retardant
- » Arquitens 2000 : 1,000 denier polyester mesh (8,8), 25 oz 850g/m<sup>2</sup>, blackout, fire retardant
- » Arquitens 2000T : 1,000 denier polyester mesh (8,8), 20 oz 680g/m<sup>2</sup>, fire retardant
- » Arquitens 3000 : 1,000 denier polyester panama mesh (11,11), 30 oz 1,040g/m<sup>2</sup>, blackout, fire retardant

#### COMPANY PROFILE

We are producers of both PVC coated and laminated fabrics with over 50 years of experience. We have developed products with excellent results for tents and awnings, agriculture and mining, military and home uses among others.

One of our principal advantages is our versatility which allows us to respond swiftly to our client's inquiries and to offer flexible quantities that fulfill our customers' real needs.

Plastextil S.A. has been a member of IFAI since 2006 and is certified by Bureau Veritas under ISO 9001:2000 (N° 221805) on design, production and sales of coated and laminated fabrics.

#### CONTACT INFORMATION

Plastextil S.A.  
Carrera 44 No. 28-36 Barrio Colombia  
Medellin  
Colombia  
+574 444 2440  
Fax +574 232 8673  
plastextil@plastextil.com.co  
www.plastextil.com.co

## Seaman Corp.



### PRODUCT » Fabric for air supported structures

Shelter-Rite® Fabrics are coated fabrics designed for air supported structures that call for excellent product consistency and durability. Seaman Corp. offers these membranes with a selection of top finishes allowing the designer/owner to customize the installation.

Shelter-Rite Architectural Fabric with PVF top finish offers the longest life and highest performance. This product is based on DuPont Tedlar® PVF and is an industry standard for low maintenance and longevity.

PVDF top finish allows customization on color choices and is a weldable product. Shelter-Rite Fabric with PVDF top finish can be found in many long-term applications.

Acrylic top finishes have been used in air supported structures for many years. This product also allows customization of colors and offers excellent performance in a variety of climatic conditions.

### TECHNICAL INFORMATION

- » *Tensile Strength:* Shelter-Rite Architectural fabrics are available in tensile strengths ranging from 200 to 650 lbs/in, covering all requirements of U.S. and European standards
- » *Tear Strength:* Weft inserted knit polyester fabrics typically have higher tear strength than conventionally woven polyester materials of comparable weight and strength. Available with tongue tear strengths that range from 100 to 300 lbs
- » *UV/Weathering Resistance:* Formulated for long term exposure. Cleanability and aesthetic properties depend on the top coat selected by the designer
- » *Flame Resistance:* All fabrics meet NFPA 701 and various other FR codes. The material is self-extinguishing and will not flame spread
- » *Seam Strength:* No reduction in loading design is necessary to compensate for strength reduction at seams.

### COMPANY PROFILE

For more than half a century, Seaman Corp. has been the leading innovator and manufacturer of high performance coated synthetic fabrics for industrial and commercial applications. Shelter-Rite polyester architectural fabrics, with Acrylic, PVDF and PVF Film top finishes, have been used successfully for tensioned custom and frame structures for over 20 years worldwide. Seaman Corp.'s coating processes produce membranes that are extremely reliable and durable.

Seaman Corp. controls the entire manufacturing process from fibers to base fabric, to the coating and the top coat for sealing the architectural fabric. The company has extensive R&D capabilities and operates with cutting edge technology allowing more options for the designer.

### CONTACT INFORMATION

Seaman Corp.  
1000 Venture Blvd  
Wooster, OH 44691-9358  
800 927 8578  
Fax +1 330 263 6950  
afinfo@seamancorp.com  
www.architecturalfabrics.com  
www.seamancorp.com

## Seaman Corp.



### PRODUCT » Fabric for tensioned custom and frame structures

Shelter-Rite® Fabrics are coated fabrics designed for custom and frame structures that call for excellent product consistency and durability. Seaman Corp. offers these membranes with a selection of top finishes allowing the designer/owner to customize the installation.

Shelter-Rite Architectural Fabric with PVF top finish offers the longest life and highest performance. This product is based on DuPont Tedlar® PVF and is an industry standard for low maintenance and longevity.

PVDF top finish allows customization on color choices and is a weldable product. Shelter-Rite Fabric with PVDF top finish can be found in many long term applications.

Acrylic top finishes have been used in tension structures for many years. This product also allows customization of colors and offers excellent performance in a variety of climatic conditions.

### TECHNICAL INFORMATION

- » *Tensile Strength:* Shelter-Rite Architectural fabrics are available in tensile strengths ranging from 200 to 650 lbs/in., covering all requirements of U.S. and European standards
- » *Tear Strength:* Weft inserted knit polyester fabrics typically have higher tear strength than conventionally woven polyester materials of comparable weight and strength. Available with tongue tear strengths that range from 100 to 300 lbs
- » *UV/Weathering Resistance:* Formulated for long term exposure. Cleanability and aesthetic properties depend on the top coat selected by the designer
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- » *Seam Strength:* No reduction in loading design is necessary to compensate for strength reduction at seams.

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Seaman Corp. controls the entire manufacturing process from fibers to base fabric, to the coating and the top coat for sealing the architectural fabric. The company has extensive R&D capabilities and operates with cutting edge technology allowing more options for the designer.

### CONTACT INFORMATION

Seaman Corp.  
1000 Venture Blvd  
Wooster, OH 44691-9358  
800 927 8578  
Fax +1 330 263 6950  
afinfo@seamancorp.com  
www.architecturalfabrics.com  
www.seamancorp.com

## Tri Vantage LLC



### PRODUCT » Sustainable fabrics for window shades

Select SheerWeave® fabrics have earned GREENGUARD® certification which provides reassurance that these fabrics do not emit harmful air pollutants. Phifer SheerWeave interior sun control fabrics diffuse light, reduce glare and help control solar heat gain to make any room a more comfortable environment.

#### SUSTAINABLE ADVANTAGES / FEATURES

SheerWeave Styles 2000, 2100, 2360, 2390 and 2410 have been GREENGUARD certified. SheerWeave fabrics were the first window shade fabrics ever to be certified. The SheerWeave fabrics also received the GREENGUARD Children & SchoolsSM certification, a requirement of more stringent standards to help limit pollutant exposure in schools and other settings that serve children and other sensitive individuals.

#### TECHNICAL INFORMATION

- » *SheerWeave 2000*: Ideal for roll-up and Roman shades and vertical blinds; Average openness 5%; Fabric: fiberglass; Finish: vinyl coated, FR; Width: 3½, 72 and 96 in.; Wt: 14.2 oz./sq. yd.
- » *SheerWeave 2100*: Average openness: 10%; Fabric: fiberglass/polyester Finish: vinyl coated, FR; Width: 3½, 72 and 96 in.; Wt: 14.8 oz./ sq. yd.
- » *SheerWeave 2360*: The 3½ in. width pre-cut strips ideal for vertical blind applications. Average openness: 10%; Fabric: fiberglass; Finish: vinyl coated, FR-CSFM Title 19 small scale and NFPA-701-1999; Width: 3½, 63 and 98 in.; Wt: 11.9 oz./sq. yd.
- » *SheerWeave 2390*: Average openness: 5%; Fabric: fiberglass; Finish: vinyl coated, FR-CSFM Title 19 small scale and NFPA-701-1999; Width: 63 and 98 in.; Wt: 11.9 oz./sq. yd.
- » *SheerWeave 2410*: Average openness: 3%; Fabric: fiberglass Finish: vinyl coated, FR-CSFM Title 19 small scale and NFPA-701-1999, TM#1 (small scale); Width: 63 and 98 in.; Wt: 11.9 oz./ sq. yd.

#### COMPANY PROFILE

Tri Vantage™ LLC, a Glen Raven Company, is an international supplier of specialty fabrics and hardware used in the manufacture of awnings, signs, casual furniture, tents, umbrellas, marine products (interiors, tops and covers) and many other residential, commercial and architectural applications. The company serves awning and marine fabricators, architects, interior designers, sign manufacturers and upholstery shops through 19 distribution centers throughout North America.

#### CONTACT INFORMATION

Tri Vantage LLC  
1831 N Park Ave  
Glen Raven, NC 27217-1100  
800 786 1876, +1 216 696 2820  
sales@trivantage.com  
www.trivantage.com

## Tri Vantage LLC



### PRODUCT » Dickson® awning fabric collection

Tri Vantage offers the recently redesigned Dickson® North American Collection of awning fabrics to provide more contemporary and stylish patterns. Now featuring a wide range of attractive solids and stripes with European styling, the new Dickson North American Collection consists of 91 patterns, 25 of which are entirely new to the North American marketplace.

These new patterns meet the same specifications as the currently available Dickson patterns. The solution dyed woven acrylic fabric is 47 in. wide and 8.9 oz./sq. yd. put up on 65 yd. rolls.

**FEATURES/ADVANTAGES** Dickson fabrics are available in a broad selection of water-repellent, mildew-resistant designs with a special finish that delays the formation and accumulation of dirt. This fabric is non-puckering, colorfast and durable, and features a 10-year manufacturer's warranty.

#### TECHNICAL INFORMATION

- » *Fabric:* Solution-dyed woven acrylic
- » *Finish:* Water repellent
- » *Width:* 47 in.
- » *Weight:* 8.9 oz./sq. yd.
- » *Put Up:* Approx. 65 yd. rolls
- » Dickson is a registered trademark of Glen Raven, Inc.

#### COMPANY PROFILE

Tri Vantage® is an international supplier of specialty fabrics and hardware used in the manufacture of awnings, signs, casual furniture, tents, umbrellas, marine products (interiors, tops and covers) and many other residential, commercial and architectural applications. The company serves awning and marine fabricators, architects, interior designers, sign manufacturers and upholstery shops through 15 distribution centers throughout North America.

#### CONTACT INFORMATION

Tri Vantage, LLC  
1831 North Park Ave  
Glen Raven, NC 27217-1100  
800 786 1876, +1 216 696 2820  
sales@trivantage.com  
www.trivantage.com

## FABRIC APPLICATIONS

### Birdair Inc.



#### PRODUCT » Tension fabric structures

Tensioned membrane architecture is used to create innovative roof, skylight and canopy structures for nearly every building type across most market segments. Birdair's work ranges from security-conscious transportation terminals to sports venues and convention centers; from festive entertainment, performing arts facilities and museums to offices, hotels, resorts and visitor centers; from eye-catching retail complexes to walkways and porte cocheres.

#### FEATURES/ADVANTAGES

- » *Aesthetic possibilities:* Imaginative and dramatic architecture can be achieved through countless forms, compared to conventional building systems and materials
- » *Translucency:* Architectural membranes transmit diffused, color-correct natural light that results in bright, glare-free interiors. At night, back-lit membranes create an enticing glow
- » *Durability:* They have been used in every climate—from windy, cold and snowy regions to dry, scorching deserts
- » *Extensive life cycle:* Roof systems of PTFE fiberglass have been in place for more than 33 years, proving their durability and longevity
- » *Low maintenance:* Architectural membranes help reduce the routine maintenance facility managers associate with traditional building components. The Teflon® coating of PTFE fiberglass membranes is impervious to pollutants, discoloration and staining, while the natural cleansing action of rain keeps its surface pristine and white.

#### TECHNICAL INFORMATION

Materials range from PVC vinyl fabric to PTFE-coated fiberglass membrane. Selecting a specific material depends on the proposed structure's building and fire code requirements as well as function, life cycle and budgetary expectations. The support framework for the fabric is typically steel, but aluminum, glu-lam wood and reinforced concrete are also possible.

#### COMPANY PROFILE

Birdair is a design/build specialty contractor that collaborates closely with architects and their clients to deliver award-winning solutions. Utilizing the Taiyo Kogyo Group's global network of resources, Birdair provides its customers with the highest level of design, fabrication and construction services.

For all your project needs—from shade and weather-protection products to clear span buildings and complex integrated applications—make Birdair your expert resource.

#### CONTACT INFORMATION

Birdair Inc.  
65 Lawrence Bell Dr Ste 100  
Amherst, NY 14221  
800 622 2246, +1 716 633 9500  
Fax +1 716 633 9850  
sales@birdair.com  
www.birdair.com

## FABRIC APPLICATIONS

### Birdair Inc.



#### PRODUCT » Pre-engineered modular structures and architectural umbrellas

Practical, versatile, stylish and economical. Birdair's standard products—Modular Systems and Architectural Umbrellas—offer a wide range of Modulares and Umbrellas to suit individual needs.

**Modular Systems** are an attractive alternative to custom designed structures. **Architectural Umbrellas** are closeable units specifically designed to combine shading comfort with refined appeal. Umbrella units arrive on site pre-assembled and ready for quick installation to most surfaces, including concrete footings and slabs, timber decks and boardwalks, permanently fixed or mounted for removal and storage.

These standard products are used widely in such market sectors as hospitality, sport/leisure, amusement, and institutional. They provide shade and weather protection for a wide variety of venues.

#### FEATURES/ADVANTAGES

- » *Styles:* Modular Systems are available in 5 models and 38 sizes, 100 sq. ft. to 1600 sq. ft. Architectural Umbrellas are available in 11 models and 27 sizes, from 47 sq. ft. to 325 sq. ft. Both types are available with centered, cantilevered, or corner support columns.
- » *Colors:* While white fabric with white steel is standard, all models are also available with color options for both fabric and steel.
- » *Linkable:* Both can be grouped in various configurations to suit specific functional needs.

#### TECHNICAL INFORMATION

Standard fabric on both types is PVC vinyl. Optional materials include PVC mesh, PTFE fiberglass, and expanded PTFE. Both types feature premium-grade painted, powder-coated, or galvanized structural steel with stainless steel hardware. Models are wind-rated to meet general code requirements.

#### COMPANY PROFILE

Birdair is a design/build specialty contractor that collaborates closely with architects and their clients to deliver award-winning solutions. Utilizing the Taiyo Kogyo Group's global network of resources, Birdair provides its customers with the highest level of design, fabrication, and construction services. A steadfast commitment to quality, progressive technology, imaginative design, and customer service is the trademark of all Birdair products.

For all your project needs, from shade and weather-protection products to clearspan buildings and complex integrated applications, make Birdair your expert resource.

#### CONTACT INFORMATION

Birdair Inc.  
65 Lawrence Bell Dr Ste 100  
Amherst, NY 14221 USA  
800 622 2246, +1 716 633 9500  
Fax +1 716 633 9850  
sales@birdair.com  
www.birdair.com

## G.H. BRUCE LLC \ TENSILE SHADE PRODUCTS LLC \ JUXAFORM LLC



### G.H. BRUCE LLC

G.H. Bruce designs, manufactures and installs tensile sculpture, a specialized art form that couples expertise in formal design with a keen understanding of materials and manufacturing methods. We work with architects, landscape architects and owners of new projects, as well as existing buildings, to produce one-of-a-kind installations. G.H. Bruce extends habitable space beyond hard walls, promoting an outdoor lifestyle engaged with the natural world and shielded from the harmful effects of direct sunlight. We are committed to the creation of sculptures with aesthetic presence and practical merit that significantly enhance the quality of our clients' lifestyle.

+1 520 903 9005  
www.ghbruce.com

### TENSILE SHADE PRODUCTS LLC

Tensile Shade Products manufactures and markets pre-engineered tensile sculpture, unsurpassed in quality and beauty. Each of our products configures easily in multiples and is ideal for public, commercial and residential settings. Architects and landscape designers are afforded a wide range of structures, sizes and colors. Cities, towns, resorts, hotels, cultural institutions, commercial developers and schools have invested in the value of our designs.

+1 520 903 0414  
www.tensileshadeproducts.com

### JUXAFORM LLC

Juxaform brings tensile sculpture indoors with its colorful line of stretched fabric panels called Space Articulators. Playful and adaptable, our fire retardant forms may be used to create a dramatic visual statement, reconfigure a space or hide a view. With a large palette of shapes and sizes, architects and designers have a ready solution to a variety of design challenges. See our website for useful design ideas, layout tips and product information.

888 589 8236  
www.juxtaform.com

## Eide Industries Inc.



### PRODUCT » ASU Memorial Union Plaza canopies

#### PROJECT DESCRIPTION

In January 2009, Eide Industries Inc. completed the fabrication and installation of an intricate array of canopies uniquely arranged to create a playful pattern across the heart of the Arizona State University Memorial Union Plaza in Tempe, Arizona. Fourteen canopy modules were built with two layers of fabric to create a dynamic kaleidoscope effect as you stroll beneath the shade. At night, the canopies are well lit with a revolving spectrum of colorful lights. Each canopy has the same shape and size; however, they were fabricated to be installed at different attitudes, angles and rotations to 29 posts across the plaza grounds. Due to unique attaching points for each frame and limited space, all 14 canopies were lifted individually with the use of ropes, pulleys and winches from three different locations. Manually lifting the covers allowed greater flexibility in controlling the pitch and angles in minimal amounts of space.

#### TECHNICAL INFORMATION

- » Fourteen canopy modules (16 ft. wide and 32 ft. long each)
- » Twenty-nine 8-in. diameter posts, each standing 24-ft. tall; frame modules are 6-in. diameter rolled steel
- » Combined coverage area is 7,168 sq. ft.
- » Ferrari 492 Mesh PVC fabric membrane canopy covers
- » All canopies were manually lifted with the use of ropes, pulleys and winches
- » Primary CSI Number: 133133 Framed Fabric Structures
- » Related CSI Numbers: 107316, 133123 and 133423

#### COMPANY PROFILE

Eide Industries Inc. is a recognized leader of custom manufactured commercial canopies, awnings, tensioned fabric structures, architecturally designed shade structures, industrial protective covers, structural steel framing, fixed sun screens, walkway coverings and special structures. We specialize in complex and difficult designed projects regardless of job size, scope of work or administrative demands.

#### CONTACT INFORMATION

Eide Industries Inc.  
16215 Piuma Ave  
Cerritos, CA 90703-1528  
800 422 6827, +1 562 402 8335  
Fax: +1 562 924 2233  
info@eideindustries.com\_  
www.tensionstructures.com

## Eide Industries Inc.



### PRODUCT » St. Mary's Academy tension structures

#### PROJECT DESCRIPTION

In September 2009, Eide Industries Inc. completed the engineering, fabrication and installation of three PVC tensioned fabric structures for the beautifully re-landscaped Saint Mary's Academy in Los Angeles, California. The center Angel Canopy was designed to suggest the security of an angel as it stands over the school's main entrance. Two walkway canopies compliment the centerpiece with fluid wave curves spanning the entire length. All three canopy frames were created with slip fit design to allow for a seamless flow without the distraction of large bolted plate connections. Eide's in-house project management, engineering, manufacturing and installation capabilities allowed us to work closely with the customer throughout the project to minimize costs, expedite the design/build phases and complete construction deadlines ahead of schedule.

#### TECHNICAL INFORMATION

- » Three canopies combined coverage area is 2,974 sq. ft.
- » Angel Canopy dimensions: 19 ft. by 46 ft. (874 sq. ft.)
- » Small Wave Canopy dimensions: 15 ft. by 50 ft. (750 sq. ft.)
- » Large Wave Canopy dimensions: 15 ft. by 90 ft. (1,350 sq. ft.)
- » White Ferrari 702T2 fabric membranes
- » Stainless steel cables and fittings
- » Hollow structural steel frames, ASTM A500 Grade B
- » Primary CSI Numbers: 133123 Tensioned Fabric Structures and 133133 Framed Fabric Structures
- » Related CSI Numbers: 107316, 133123 and 133423

#### COMPANY PROFILE

Eide Industries Inc. is a recognized leader of custom manufactured commercial canopies, awnings, tensioned fabric structures, architecturally designed shade structures, industrial protective covers, structural steel framing, fixed sun screens, walkway coverings and special structures. We specialize in complex and difficult designed projects regardless of job size, scope of work or administrative demands.

#### CONTACT INFORMATION

Eide Industries Inc.  
16215 Piuma Ave  
Cerritos, CA 90703-1528  
800 422 6827, +1 562 402 8335  
Fax: +1 562 924 2233  
info@eideindustries.com  
www.tensionstructures.com

# FABRIC APPLICATIONS

## FabriTec Structures



### PRODUCT » Tensile structure fabrication and design/build consultation

Utilize FabriTec Structures in the conceptual stage of your project and establish the foundation for both technical and economic feasibility. All of our structures are designed using 3D computer technology providing us the precision required to tackle the most ambitious projects. FabriTec can provide the expertise, coordination and attention to detail that will result in a successful project being completed on time and on budget.

#### FEATURES / ADVANTAGES

- » 3D Concept Development
- » Renderings/Animations
- » Preliminary Engineering Analysis
- » Costing/Feasibility Studies
- » Preliminary Bid Set Documents
- » Form Finding/Final Engineering
- » Construction Documents
- » Fabrication Drawings/Patterning
- » Installation/Construction Management

#### TECHNICAL INFORMATION

Modern fabrics combined with high-performance support and restraint elements—such as cables, masts, trusses and frames—provide design freedom and diversity. FabriTec Structures offers a variety of materials with varying degrees of translucency, light reflectivity, UV protection and non-combustibility:

- » PVC/PVDF (vinyl coated polyester)
- » PTFE (teflon coated fiberglass)
- » ETFE (transparent structural clear foil)
- » HDPE (high-density polyethylene mesh)

#### COMPANY PROFILE

FabriTec Structures has grown to be recognized as the leading tensile fabric structure design/build firm in North America. Our tensile fabric structures utilize the most advanced architectural materials available and are non-combustible, both thermal and UV-resistant, and can offer full weather protection. With virtually unlimited design options and applications, FabriTec's products are both practical and often visually spectacular. Architects, builders and other designers can choose fabrics from a wide range of color and translucency and create a structure that perfectly compliments an existing design theme or creates a unique focal point for any outdoor or indoor area.

#### CONTACT INFORMATION

FabriTec Structures  
350 Kalmus Dr  
Costa Mesa, CA 92626  
877 887 4233, +1 714 427 6980  
Fax +1 714 427 6983  
mestrella@usa-shade.com  
www.fabritecstructures.com

# Fabritecture LLC



## PRODUCT » Creative Fabric Architecture

Fabritecture LLC is an international award-winning specialist in the design and construction of tensile fabric architecture. Using innovative design techniques, Fabritecture has created structures for use in a multitude of applications, from sporting stadiums, convention centers, recreation and entertainment venues to hotels, resorts, hospitals, museums and universities. Utilizing the highest quality tensile fabrics, including “super-insulated” AeroLite™ (a thermal efficient fabric composite), coupled with its expert project management team and commitment to service excellence, Fabritecture continues to meet and exceed client expectations in the delivery of first-class creative sustainable fabric architecture.

### FEATURES/ADVANTAGES

- » *Translucency:* Achieve significant electricity cost savings through natural, glare-free day lighting and experience dramatic backlighting effects at night
- » *Sustainability:* From construction to lifecycle management, Fabritecture follows sustainable building practices. Benefits include natural daylighting, high R-values and reduced material usage for a low-carbon footprint
- » *Longevity:* Fabritecture structures are designed to withstand the harshest environments while remaining durable, with a 30–50 lifespan
- » *Maintenance:* Fabric structures maintain aesthetic appeal and functionality with minimal maintenance requirements.

### TECHNICAL INFORMATION

Fabritecture utilizes multi-functional, high performance membranes that are cutting edge in sustainable tensile technology. Materials range from the latest innovation in sustainable fabrics (AeroLite™ a super insulated translucent fabric) to PVC vinyl, PTFE (coated fiberglass membrane), ETFE (transparent structural clear foil) and HDPE (shade cloth). Support framework comprises steel, aluminum, cables, as well as various light weight materials.

Technical specifications for membranes available upon request.

## COMPANY PROFILE

Fabritecture LLC is a global leader in the design, manufacture and installation of state-of-the-art tensile fabric structures. While being at the cutting edge of tensile membrane technology with a special focus on thermal efficient fabrics, Fabritecture’s reputation for innovation is recognized through industry awards for design excellence. The company’s commitment to service excellence in all aspects of project delivery is what sets Fabritecture apart from its competitors.

## CONTACT INFORMATION

Fabritecture LLC

Australia  
+61 2 6674 4466

United States  
+1 702 267 8335

info@fabritecture.com  
www.fabritecture.com

## FABRIC APPLICATIONS

### Lonas Lorenzo S.A. de C.V.



#### PRODUCT » Trade fair grounds

Since our company's beginnings we have covered the largest Mexican fairs, such as the Zacatecas Fair, San Marcos Fair and Expo Ganadera in Aguascalientes, and the Mexicanidad Fair in Tepic, among others. We have a reliable system for getting results—from design to installation—in four months. At Lonas Lorenzo we use creativity and innovation to cover any surface for any event.

#### FEATURES/ADVANTAGES

- » Cover large areas at a low cost
- » Thanks to a long-standing relationship with our fabric suppliers, we guarantee durability, quality and adaptability to the project needs
- » We have a large stock and variety of fabric products.

#### TECHNICAL INFORMATION

We assure the durability of our projects by using high quality fabric and making a deep analysis of all the requirements. We know each project is different, that's why we focus on the close examination of every detail, resulting in the optimization of materials and human resources.

#### COMPANY PROFILE

Lonas Lorenzo is a well-know company with more than 35 years of experience, which guarantee our clients a successful solution. We apply all our efforts in each project to only one purpose: your complete satisfaction.

Our company is comprised of the most talented and creative personnel, including architects, engineers, production and installation experts. From design to installation, you can be sure that Lonas Lorenzo is the professional to make your project come true.

#### CONTACT INFORMATION

Lonas Lorenzo SA de CV  
Av. 8 de Julio #1297, Col. Moderna  
C.P. 44190  
Guadalajara, Jalisco México.  
+52 33 3650 35 41  
Fax +52 33 3650 35 40  
info@lonaslorenzo.com.mx  
www.lonaslorenzo.com.mx

## Lonas Lorenzo S.A. de C.V.



### PRODUCT » Sports stadia roofs

Our company uses design software to create innovative fabric roofs to protect certain areas from weather and heat, and to give the stadiums an architectonic modern appearance. We help our clients reach the final shape of the project design and bring it to life.

#### FEATURES/ADVANTAGES

- » A lightweight alternative that provides a stylish and flexible solution
- » We integrate our services with the design, develop and the installation of our projects
- » Roof fabrics let the sunlight through to produce interior luminosity, as well as provide thermal control of the weather in interior spaces
- » Preservation and maintenance is simple: with special non-stick coatings on fabrics, rain acts as a natural cleaner.

#### TECHNICAL INFORMATION

We apply the most sophisticated fabric in the market to provide the finest performance of any project. To develop a project, we follow an established process using virtual wind tunnels to analyze the requirements of the assignment. With this we can generate wind combinations and arrive at structural analysis. As a result, we determine the kind of membrane and structure materials that best apply.

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# FABRIC APPLICATIONS

## Sun Ports



### PRODUCT » Fabric structures for shade

Providing shade has become an increasingly vital issue throughout the United States due to indeterminate weather conditions and increasing awareness of skin cancer caused by sunlight. Sun Ports' cost-effective and aesthetically appealing fabric shade structures are used to shade parks and playgrounds, schools and daycare centers, auto dealerships, pools and waterparks, sports and athletic facilities, stadiums and amphitheaters, hotels and resorts, retail and community centers and much more. Sun Ports, with Shadesure® fabric requires less steel for the same stability and strength as canvas structures.

#### FEATURES/ADVANTAGES

- » *Versatile:* Architecturally compatible with different roof styles, colors, heights, and shapes; Structures available for virtually any outdoor area — indoor structures also available for added aesthetic appeal.
- » *Safe:* Shields up to 98% of the sun's harmful UV rays; Porous fabric allows for cool air circulation reducing temperatures underneath by as much as 30%; Reduces the risk of sunburn, sun stroke, heat exhaustion and skin cancer
- » *Long-lasting:* 10 – 12 year life expectancy on fabric; 10 year limited manufacturers warranty from the date of installation on fabric; Structural integrity of steel is warranted for 10 years
- » *Practical:* Lowest cost/sq. ft. for protection against skin cancer; Structurally sound, fully engineered, modular systems; Inexpensive fabric replacement

#### TECHNICAL INFORMATION

Our fabrics can block out as much as 98% of the sun's harmful UV rays, are mildew and rot resistant and available in over 30 colors. We can meet or exceed existing building and fire codes and our structures can be engineered to sustain winds up to 150mph.

#### COMPANY PROFILE

Sun Ports has been the market leader in the development of fabric shade systems since our foundation in Dallas, Texas in 1991. We have installed over 150,000 structures nationwide in an unparalleled diversity of market segments — everything from amphitheaters to zoos.

Sun Ports offers a complete design/build organization with in-house experts in design, engineering, fabrication, project management, manufacturing and construction.

#### CONTACT INFORMATION

Sun Ports  
8505-A Chancellor Row  
Dallas, TX 75247  
800 966 5005, +1 214 905 9500  
Fax +1 214 905 9514  
misaacson@usa-shade.com  
www.sunports.com

**DUVALL Dynamic Spaces**



**PRODUCT » Tensioned Fabric Sculptures**

DUVALL specializes in the design, engineering, fabrication, and installation of lightweight sculptural fabric and stainless steel sculptures. DUVALL works very closely with architects, interior designers, as well as exhibit designers and builders. Most of our structures are custom, site-specific applications. We collaborate with designers to translate concepts to reality. DUVALL installs sculptures into retail, entertainment, medical and commercial office interiors. Our work ranges from small scale freeform sculptures to larger scale highly engineered structures. Our focus is on producing the highest quality response and product, and we provide project management and coordination on all aspects throughout the process, from concept development to installation. We provide complete installation services which is often the most critical aspect of the success of the project. We address coordination for sprinkler systems, HVAC, electrical, and engineered suspension and earthquake support.

DUVALL engineers, patterns and fabricates complex architectural laser cut stainless steel structures formed in a variety of ways from stainless sheet materials.

**TECHNICAL INFORMATION**

DUVALL utilizes a wide variety of fabrics appropriate to each custom application including polyethylene, polyester, vinyl and Teflon. DUVALL works primarily with lightweight 6061 tubular aluminum frame. We have designed and developed our own system of connectors and details to simplify the set-up. DUVALL integrates frame and fabric in unique ways to maximize curvature of fabric and reduce segmentation. Frames are bent to create fluid dynamic shapes with intelligently engineered internal support structure. DUVALL fabrics are Class A and meet NFPA-701 and B1 requirements.

**COMPANY PROFILE**

DUVALL is a creative business focused on sculptural and artistic projects which require special expertise in engineering and design development. DUVALL provides concepts, prototyping as well as fabrication for various scopes including large scale commercial applications. DUVALL has a 7500 sq.-ft. solar heated studio with premium design and fabrication capabilities. DUVALL understands the importance of working with the designer as well as the contractor in coordinating and maintaining the intention of the concept throughout the process.

**CONTACT INFORMATION**

DUVALL Dynamic Spaces  
 10 Farwell Dr  
 Rockland, ME 04841  
 +1 207 596 7940  
 Fax +1 207 596 7832  
[www.duvalldesign.com](http://www.duvalldesign.com)