HIRAOKA

ARCHITECTURAL STRUCTURE FABRICS

Hiraoka Architectural Structure Fabrics are designed to provide outstanding performance and aesthetic beauty. These fabrics are the result of 30 years of innovation and technical superiority in the architectural structure market.

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STRENGTH AND STYLE

Architectural Structure Fabric is a high strength fabric designed for large architectural tension structures and frame or air supported structures. The base cloth is woven from high tenacity polyester yarn and is anti-wick treated. The flexible PVC coating is protected by Hiraoka's unique PVDF-II surface finish which provides exceptional weathering resistance. The PVDF-II finish also resists dirt adhesion and protects against environmental pollutants.

LIGHT AND ELEGANT

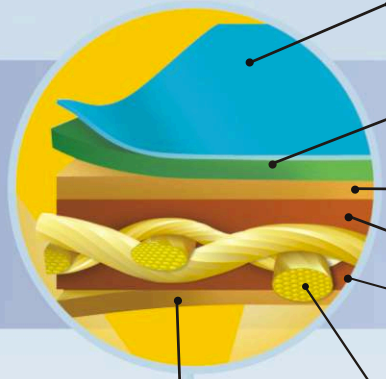
A well designed tension structure always appears elegant. Architectural Structure Fabric features superior translucency to provide high levels of natural light. This enhances the outdoor feel provided by these structures. It also maximises the impact of your architectural design. The high translucency will reduce the energy requirement for any lighting system and provide attractive luminosity at night.

ENDURING PERFORMANCE

Our Architectural Membrane series with PVDF-II protection is designed to provide enduring beauty. We have been supplying coated fabrics to some of the world's harshest environments for 30 years. We are class leaders in the technology of UV stability and aging resistance. The superior weathering resistance is backed by a 15 year pro-rata warranty (see warranty document for details).

PVDF(II) FABRICATION

The technically advanced PVDF-II surface finish provides outstanding protection, but does not require any specialist equipment or techniques for fabrication. This ensures that high seam integrity and seam strength can be achieved without the need for surface abrasion, eliminating additional labour costs and production variables.



Special Fluorine lacquer layer for maximum dirt resistance

PVDF lacquer layer for excellent weathering resistance and chemical resistance

Acrylic laquer layer

PVC layer - Extra flat and smooth surface Technical formulation with fire retardant, mildew and fungus resistance, UV and weather resistance.

High tenacity polyester provides strength and stability. Antiwick treated.

Acrylic lacquer layer

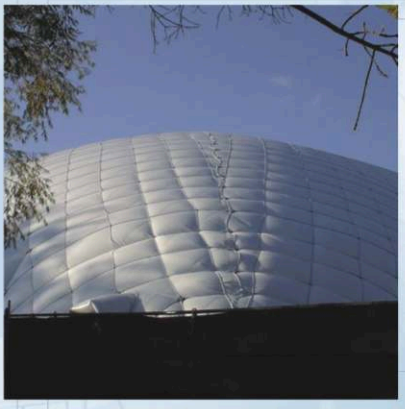
HIRAOKA 212T-II

TECHNICAL DATA

Hiraoka 212T-II is a high quality fabric designed for long term architectural structures. The base cloth is woven from high tenacity polyester to provide strength and stability. The coating consists of UV stabilised PVC that is further enhanced with protective lacquers of acrylic, polyvinylidene fluoride (PVDF) and a special fluorine top layer for additional dirt resistance.

PROPERTY	METRIC	IMPERIAL
Colour	White, other colours available subject to run length	
Width (ASTM D-751)	2.04 m	80.3 in
Roll Length (ASTM D-751)	50 m	55 yd
Unit Mass (ASTM D-751)	940 gsm	28 oz/yd^2
Thickness (ASTM D-751)	0.75 mm	30 mil
Strip Tensile Strength B (ASTM D-751)	4500 x 4500 N/50mm	514 x 514 lbs/in
Elongation @ break (%)	23 x 32	23 x 32
Trapezoid Tear Strength (DIN 53363)	550 x 530 N	124 x 119 lbs
Trapezoid Tear Strength (ASTM D-751)	400 X 400 N	90 x 90 lbs
Coating Adhesion (ASTM D-751)	120 x 110 N/50mm	14 X 12 lbs/in
Light Transmission (white) JIS Z 8722	12%	12%
DIN 4120 B-1		
Antiwicking	Yes	
Fungal Resistance	Treated	
Fire retardant	Yes, NFPA 701, ASTM-E84, CSFM, DIN 4120 B-1, MEA, AS1530 results available.	
UV Resistance	Yes, 15 year pro rata warranty.	

The above results are typical averages taken from quality assurance testing. Product profiles are subject to change without notice.



HIRAOKA 212T-II

BIAXIAL BEHAVIOUR