



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

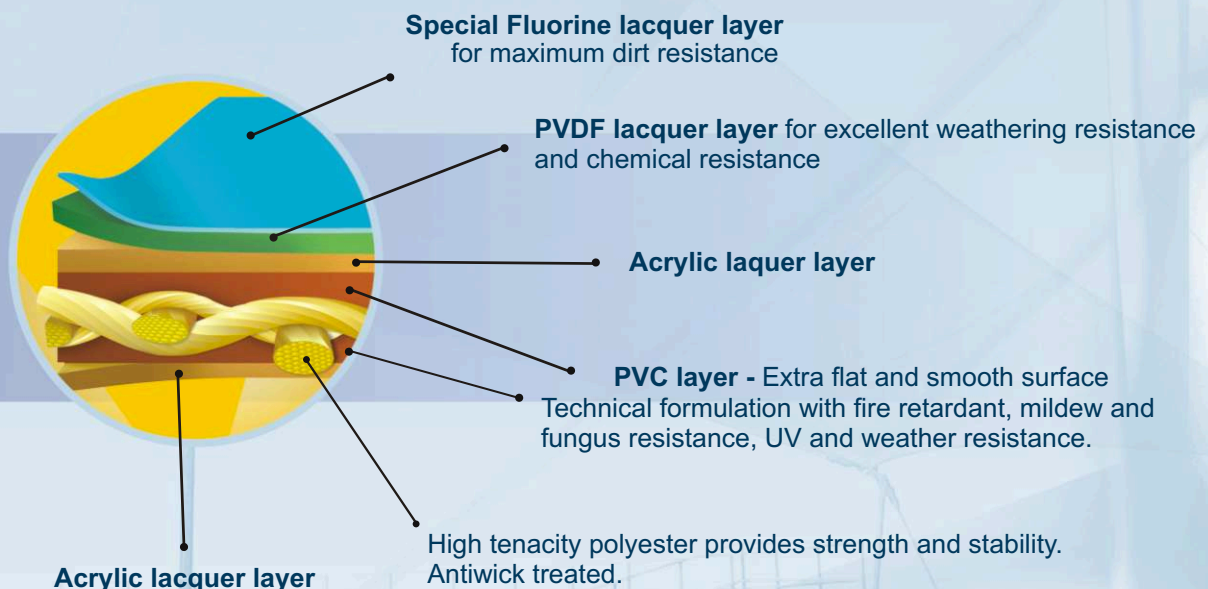
A well designed tension structure always appears elegant. Architectural Structure Fabric features superior translucency to provide high levels of natural light. This enhances the outdoor feel provided by these structures. It also maximises the impact of your architectural design. The high translucency 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.



HIRAOKA 312T-II



TECHNICAL DATA

Hiraoka 312T-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)	1020 gsm	30 oz/yd ²
Thickness (ASTM D-751)	0.8 mm	32 mil
Strip Tensile Strength B (ASTM D-751)	5700 x 5700 N/50mm	651 x 651 lbs/in
Elongation @ break (%)	25 x 30	25 x 30
Trapezoid Tear Strength (DIN 53363)	800 x 700 N	180 x 157 lbs
Trapezoid Tear Strength (ASTM D-751)	500 X 500 N	112 x 112 lbs
Coating Adhesion (ASTM D-751)	150 x 130 N/50mm	17 X 15 lbs/in
Light Transmission (white) JIS Z 8722	11%	11%
Antiwicking	Yes	
Fungal Resistance	Treated	
Fire Retardant	Yes, NFPA 701, CSFM, 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.



BIAXIAL BEHAVIOUR

Pre Stress 2.28 kN/m
 Working Load 11.4 kN/m

