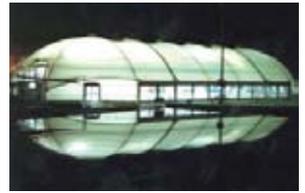


# Tension Span

Structures Pty Ltd

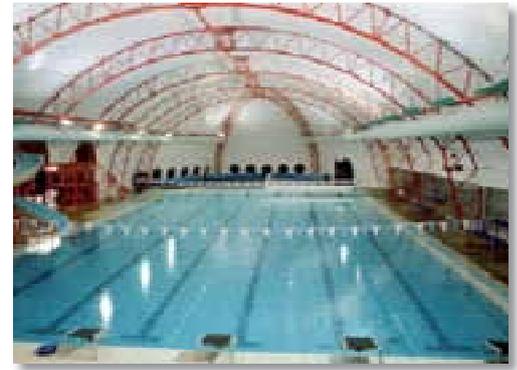




## Architectural Membrane Structures

Call them tension membrane structures, tensile fabric roofs, fabric structures, environmental shades, architectural membrane structures, or simply shade sails; **Tension Span Structures Pty Ltd** as part of The Vesl Group has over 30 years unbroken experience in design, manufacture and installation of architectural membrane structures in Australia and worldwide.

Tension Span® products include **Flexshade®**, **Quartet™**, **Lotus™**, **Hypar™**, **Tetra™**, **Auto™** and **Quad™** pre-engineered modular tension structures, designed for hurricane force winds and relocatable or permanent installation.



Recent landmark structures include;

- Marina Mirage Gold Coast
- Grundy Pier – Jersey City USA
- Singapore Science Centre
- Back-O-Bourke Exhibition
- Sheraton Mirage - Port Douglas
- Agora Pavilion – Wisconsin
- Sea Lion Plaza – Los Angeles Zoo
- Pavilion on Northborne – Canberra

[tensionspan.com](http://tensionspan.com)

**Client:**

Bourke Shire Council

**Architect:**

Witzig Schulz Project Planning

**Design & Construction By:**

Tension Span Structures Pty Ltd

**Project Location:**

Bourke, NSW, Australia

**Project Size:**

3,550 sq.m (38,200 sq.ft)



1

## A Billabong 1000 Years Long at Back O' Bourke

Tension Span has completed the last of over 3500 sq.m of dynamic tension membrane canopies shading the exhibition displays at this legendary Outback town.

The Back 'O' Bourke Exhibition Centre has been developed as a world class facility nestled in a spectacular natural setting amongst the river red gums on the banks of the Darling River.

The structures are built of advanced fluoropolymer membrane fabric which reflects heat and blocks UV radiation,

and has a long life in these harsh conditions.

Themed on the history of the Darling River, its floods, dry times and billabongs, people flow through connected buildings shaded by these spectacular membranes.



2

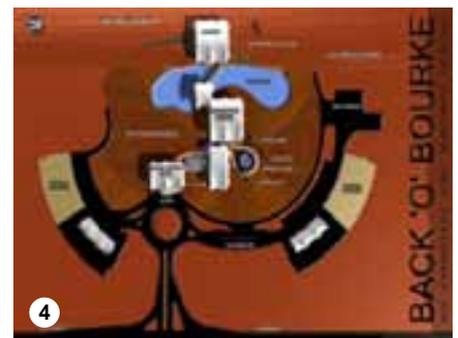
1. Exhibition Centre entrance
2. Night view of restaurant
3. Translucency by day
4. Site plan of complex
5. Spectacle by night



3



5



4

**Client:**

Royal National Agricultural & Industrial Association

**Architect:**

Hulme & Webster

**Design & Construction By:**

Tension Span Structures Pty Ltd

**Project Size:**

524 sq.m (5,640 sq.ft)

## RNA Eatery Canopies

Building on the success of the 1995 Commerce Building Tension Span membrane canopies; our client commissioned two new canopies to shade and weather protect Primary St, adjacent to the Dairy Hall and Royal Snack Bar.

The Primary St Canopy is penetrated by the columns of the Dairy Hall and spans across to a gutter beam along the face of the Royal Snack Bar.

A similar larger hyperbolic shaped canopy anchors to new cantilever columns and existing Commerce Building columns to create a continuous link to the Commerce Building.

Precise survey of existing structures and extensive computer modelling achieved correct clearances on penetrations and overlaps to produce a striking result.

The protected spaces bathed in soft light under the translucent canopies were ready in time for the Royal Queensland Show – the State’s famous ‘EKKA’ – and provided pleasant eating areas for thousands of patrons who carry out the great annual tradition of the city meeting the country at the ‘EKKA’.



1. Commerce Link Canopy
2. Commerce Link overlaps Primary St
3. Primary St Canopy from below
4. Primary St Canopy from bridge

**Client:**

Mirage Resorts Holdings Pty Ltd

**Design & Construction By:**

Tension Span Structures Pty Ltd

**Project Location:**

The Spit, Southport

**Project Size:**

3,500 sq.m (37,674 sq.ft)

## Sails Across the Water

The Marina Mirage Gold Coast is a two storey shopping/restaurant/marina complex located on the Southport Spit at Seaworld Drive, Main Beach.

The central mall area of this complex is semi-covered with sail-like fabric structures.

The form of these structures comprises of ten sail-like fabric modules supported from a perimeter steel truss arrangement at roof level. The central mast of each sail structure is restrained at the top by wire ropes and the fabric sails while the base of the column is supported from wire ropes radiating from the corners of the perimeter truss.

Each sail module consists of two separate fabric elements each connected along the two sides of the perimeter truss and to the central flying mast.

There are three (3) type 'A' Sails of 20m height and seven type 'B' Sails of 16m height.

Each sail is supported on the lower edge by a tensioning tube and turnbuckle system, and the upper edges by galvanized strand wire ropes varying in diameter from 16mm to 24mm. Pretension loads vary from 100kN (10 tonnes) to 200kN (20 tonnes) in the edge cables.

The top of each mast is guyed by stainless steel cables of 13mm diameter for erection stability and permanent safety feature in the event of loss of fabric tension.



The fabric used throughout was an advanced fluoropolymer with a tensile strength of 90kN/m. The membrane fabric is guaranteed for 15 years.

The overall effect is one of yachts on the water, varying in profile and height as the viewer passes along the Southport Spit Broadwater.

The sails also provide shade without shadows internally, and highlight the shopping complex at night enhancing the shopping and resort experience.



1. Night view of Marina Mirage
2. Fireworks display
3. Day view of Marina Mirage

**Client:**

City of New Jersey

**Project Designer:**

Reicon Group LLC

**Project Location:**

Hudson River, New Jersey, USA

**Project Size:**

2050 sq.ft (243 sq.m )

## Custom Lotus™ Design

“Aliens have landed” on the Hudson. J. Owen Grundy Park on the Jersey City waterfront was in need of major repairs. Tension Span created iconic shades for the redeveloped pier, lending a modernistic touch and giving new life to an important historical site.

These futuristic Flexshade® tension membrane structures were specially designed using our Lotus™ model as a starting point. Shade structures by day — futuristic light sources by night; each structure providing dramatic illumination for the pier in the evenings.

Provision for snow and ice loads was made in the structural design.

Flexshade® is not restricted to standard sizes and custom designs are available. With technology and engineering derived from our large custom tension membrane structures, each Flexshade® product is designed and manufactured to exacting standards to meet worldwide design codes.



1. Manhattan by night
2. Close up at dusk
3. Manhattan by day
4. View of wharf from Jersey side

**Client:**

Dr Janice Young

**Design & Construction By:**

Tension Span Structures Pty Ltd

**Project Location:**

Naples, Florida, USA

**Project Size:**

2249 sq.ft (209 sq.m)

This lotus flower shaped hexagonal form was chosen by architects for this Women's Clinic in Naples, Florida.

Over the entrance swoops a Lotus\*43 inverted conical with water feature, and the rear entertainment area features 3 x Lotus\*20 modules linked together for continuous cover.

The membranes are of advanced fluoropolymer fabric, which is long lasting and durable, designed to withstand hurricane winds of up to 140mph (63m/sec).

The translucent fabric provides an attractive contrast against the bright pink rendered building. The Lotus are hexagonal in plan with stainless steel guy and edge cables provide structural strength and stability.

Other forms of structures in the Flexshade® range include the Hypar, Quartet, Tetra, Auto and Quad series. All of these have spans ranging from 2m to 15m.

Tension Span Structures Pty Ltd with USA Representative TSS-NA Inc., completed another project in the United States, using the Flexshade® Lotus design.

1. View of single Lotus L\*43
2. Top view of 3 linked L\*20
3. Underside view Lotus L\*20
4. View of link panel Lotus L\*20



**Client:**  
Northstar at Tahoe

**Design & Construction By:**  
Tension Span North America

**Project Location:**  
Lake Tahoe, California, USA

**Project Size:**  
2,050 sq.ft (190sq.m)

## Barrel Vault Canopy

Tension Span Structures has been providing the international market with custom made shade structures for over 30 years. Robust and long-life, these structures are designed with their environment in mind, be it hurricane winds in Bermuda, salt spray and sea winds whipping off Dublin Bay in Ireland, or the harsh sun and soaring temperatures of Arizona.

This barrel vault style canopy has been designed specifically to meet the extreme snow load requirements in this area of the Sierra Nevada Range. Tension Span provided the Black Triplex-coated steelwork in large bolt together sections, which lifted right out of a 40' container and was assembled to a perfect fit.

Outside of the snow season the structure provides protection from the sun during the mountain summer. The high performance Tedlar® PVF fabric also blocks 100% of UV rays, creating a shady platform for events and community gatherings.

This unique shade structure is built to the worldwide standards of Tension Span's large tension membrane structures and permanent commercial umbrellas.

1. Snow load tested to 200pst
2. Heavy duty steel supports



**Client:**

Pavilion On Northbourne

**Design & Construction By:**

Tension Span Structures Pty Ltd

**Project Location:**

Canberra, ACT, Australia

**Project Size:**

1,030 sq.m (10,080 sq.ft)

## Tension Span Comes to Canberra's CBD

When you enter the Pavilion Hotel on Northbourne Avenue in Canberra, this vast atrium lights up before your eyes.

This large and busy hotel is located in Canberra's inner city, making it a convenient venue for business and tourist visitors. A large atrium area is a pleasant place to relax and enjoy a drink in the hotel's bar.

The interior of this large atrium has been designed using plenty of greenery. This provides a warm, tropical setting, decreases the noise level and adds privacy.

Over 1000sq.m of translucent tensioned membrane was installed by Tension Span® to re-invigorate this attractive space.

This waterproof Tedlar® PVF clad membrane structure allows light to shine through and plants to thrive in the soft ambience.

Tension Span® installed this large structure with no disruption of the Hotel's operation, a real benefit to the client.

Combined with the unmatched project design capacity, the outstanding result is a product of 30 years experience building tension membrane structures.



1-4. Interior views of atrium area  
5. Exterior of roof  
6. Atrium Bar ambience

**Client:**  
TSS-NA Inc

**Design & Construction By:**  
Tension Span Structures Pty Ltd

**Project Location:**  
Miami, Florida, USA

**Project Size:**  
2,065 sq.ft (192 sq.m)

## Tension Span Covers Miami

Tension Span has designed and engineered this spectacular structure in Miami, Florida.

Located on the beach with elevated views of the Atlantic Ocean, this structure is a focal point of attraction for this luxury resort.

Constructed of eight identical twisted Hypar shaped tension membranes, it is designed to withstand 140 mph (230 kph) hurricane force winds.

An attractive style with a difference, made to enhance the bar area of the



long lasting, being manufactured to Tension Span's highest standards.

The fluoropolymer membrane fabric reflects heat and blocks UV radiation. All of the hardware is galvanized or stainless steel.

The heavy loads from hurricane winds needed robust tensioner fittings with tested components and careful designs.

Representative Tension Span North America provided the liaison and contract services.



1. Views to Atlantic  
2-3. Detail of structure  
4. Structure and bar area

**Client:**  
Fitchburg Center

**Design & Construction By:**  
Tension Span Structures Pty Ltd

**Project Size:**  
4,144 sq.ft (385 sq.m)

## Pavilion on the Prairie

A tension membrane structure of a sloping conical form, externally supported by tubular steel frame and perimeter braced columns.

The 'Agora' Pavilion was conceived as a gathering place for community activities, social and cultural, and farmers' markets. The client had tried movable tent structures, which proved inadequate, and the design was developed to meet clear span and aesthetic requirements.

Few if any tension structures have been built in Wisconsin, and the structure was designed for 90mph wind and 35 psf snow loads. The analysis involved modelling of slid and packed snow.

The membrane is an advanced fluoropolymer with 15 year warranty. The steel is hot dip galvanised and polyurethane coated. Fittings and fasteners are either galvanised (pins) or stainless steel, and stainless steel fittings are used on all guy cables.

The apex cone is vented and the frame splices detailed to fit within the tube diameters to give a neat appearance.



1. Agora Pavilion on prairie
2. Snow load tested
3. Shading 300 guests
4. Pavilion on the prairie

**Client:**  
Maroochydore Shire Council

**Architect:**  
Sanders Turner Ellick

**Project Manager:**  
Connell Wagner

**Design & Construction By:**  
Tension Span Structures Pty Ltd

**Project Size:**  
1,250 sq.m (13,450 sq.ft)



## Tension Span® flies over Sunshine Coast Airport

Sunshine Coast Airport has been upgraded and extended to handle increased traffic to the beautiful Queensland Sunshine Coast.

Tension Membrane Entry, Carpark and Internal Structures add exciting architectural features to the facility.

The Entry Structure consists of 7 individual Conical and Hypar membranes supported by 3 masts, perimeter columns and backstays.

Wing like canopies span the main carpark walkway providing shade and visual impact to the entrance. Internal Membranes consisting of 21 individual Hypars of high translucency fabric are located under the central glass skylight which is over 90 metres in length.

Advanced fluoropolymer fabric in various translucencies was used throughout the project. TSS in-house finite element analysis was extensively used for modelling, shapefinding and patterning.

1. Entry structures
2. Carpark Hypars
3. Main entry by night



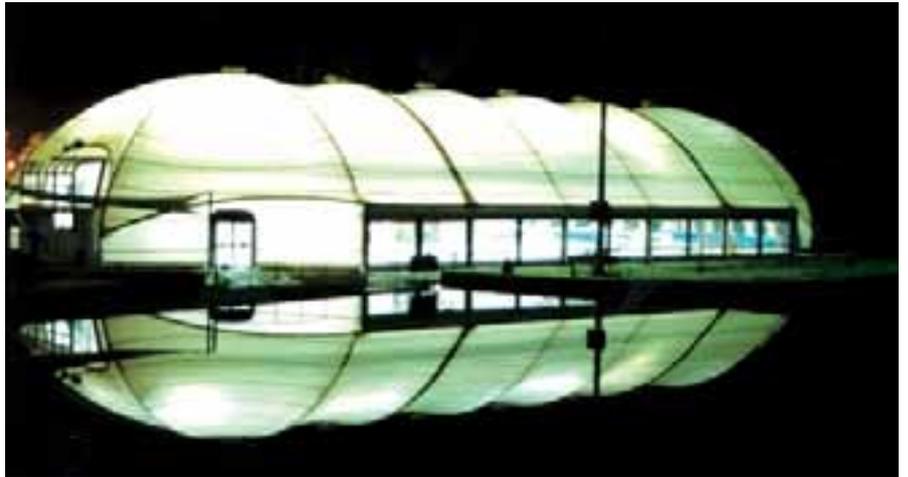
Winner of  
the I.F.A.I.  
International  
Outstanding  
Achievement  
Award for the  
Sunshine Coast Airport  
tension membrane canopies  
awarded by the Industrial Fabrics  
Association International.

**Client:**  
Singleton Shire Council

**Project Manager:**  
PPK Environmental

**Design & Construction By:**  
Tension Span Structures Pty Ltd

**Project Size:**  
2,800 sq.m (30,100 sq.ft)



## New Lease of Life for Singleton Aquatic Centre

Tension Span® Structures completed an upgrade of the Portomod® tension membrane pool enclosure at Singleton Aquatic Centre, Singleton, NSW, 200km from Sydney.

The modified Portomod® enclosure has a new retractable roll-up north wall and new high translucency roof and liner membrane of advanced fluoropolymer fabrics.

The original Portomod® was installed by Vesl Tension Span in 1983. A severe hail storm in December 1996



caused over \$100 million damage in the Singleton Area.

Tennis ball sized hail stones did not penetrate the 14 year old fabric, while nearby skylights and conventional roofs were shattered.

Singleton Shire Council's Insurer covered the cost of the roof membrane after concluding that the 14-year-old fabric still had at least 6 years of life when damaged. (i.e., 20 years life); a practical example of the structural integrity and longevity of the fabric.

Today's advanced fabrics and top finishes give the prospect of another 20+ years life for this remarkable structure.

# Flexshade®

MODULAR MEMBRANE STRUCTURES



Engineered Shade Solutions

# Stylish Robust Permanent

Tension Span Flexshade® modules are pre-engineered tension membrane shade structures suitable for many architectural shade needs, worldwide.

Designed to the high quality standards of our large custom tension membrane structures see ([www.tensionspan.com](http://www.tensionspan.com)), Flexshade® support frames and membranes are designed to withstand \*100mph (160km/hr) winds and high levels of UV radiation. This fix and forget philosophy is driven by 30 years experience in membrane structures. Featuring expertly designed robust components, all stainless steel fittings and provision for point loads, Flexshade® can handle any lighting & heating equipment as well as harsh public exposure. See [www.flexshade.com](http://www.flexshade.com).



High Quality  
Stainless Steel Fittings



▲ Quartet™



▲ Lotus™

## Quartet™

Models 8,10,14,5M,8M are elegant conical shade membranes with central column based on a square plan. The 'S' models have the column moved to the side and the 'P' variant pivots to increase cover by 250%. Links can be on any side.

## Hexagonal

There are 3 models in the range; Flex\*12, Flex\*16 and Flex\*19 with Hexagonal plan and centre column. The 'S' models have the column moved to the side and the 'P' variant pivots to increase cover by 250% Links can be on any side.

## Auto™

Designed for nose to nose carparks, **Auto™** features a six car basic module which drains internally and leaves a high perimeter edge avoiding water drips and potential damage from high vehicles.

## Hypar™

This series features the classic **Hypar™** "twisted" membrane shade with overhead support framing. Square modules are linked to provide a variety of plan layouts with surprisingly few columns.

## Lotus™

These designs are hexagonal inverted conical modules with support framing above the shade membrane. **Lotus™** modules are internally drained with no perimeter drip edges. Clusters can be built in plan like a beehive.

## Tetra™

The classic conical shape with four corner columns and internal balanced support frame. **Tetra™** modules can be continuous or linked to provide economical cover with maximum flexibility.



▲ Quartet™ SP



▲ Hypar™



▲ Tetra™

# A Shade for all Seasons



▲Quartet™ Linked

## SPECIFICATIONS

- Span Range: 2.4m (8ft) to 15m (50ft).
- Design: Non-retractable, P.E.(C.P.Eng) certified structure.
- All Styles: High wind & point load capacity. Conical: Dual support struts.
- Acrylic/PVDF or Tedlar® PVC/Polyester fully welded membrane.
- Concealed stainless steel perimeter cable and robust stainless steel adjusters and fittings.
- Hot zinc and powder coated steelwork. (Alternative electropolished stainless steelwork)
- Designed to AS, BS, ASCE and other worldwide Standards.
- Ten (10) year structural warranty.
- Fire Resistant to NFPA 701, UL 214, AS1530 & other Standards.
- Footings: Installation on concrete footings or structural slabs.

## LOADINGS

- Wind load \*160km/hr (100mph)
- Point load 100kgf (225lbf)
- Snow loads up to 1.44kPa (30psf) on conical and other models.

## COLOURS

Frame: All RAL/Dulux powdercoat colours.  
Membrane: Up to 24 standard colours\*.

\*Subject to Availability.



▲Lotus™ Linked



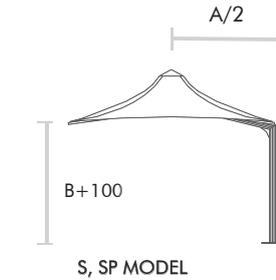
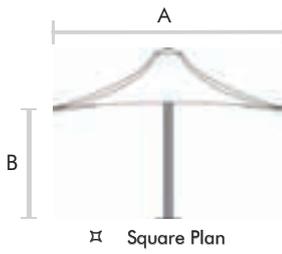
▲Hypar™ Linked



▲Quartet™

## Quartet™ Model 8, 10, 14, 5M, 8M, S, SP

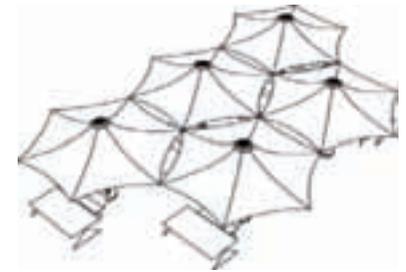
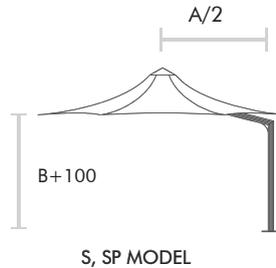
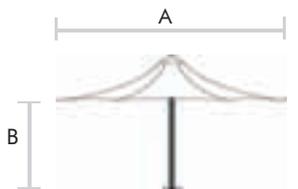
Module	'A'	'B'
Q*8	2550	2100
Q*10	3275	2100
Q*14	4275	2100
Q*5M	5000	2200
Q*8M	8230	2650



Modules can be linked with infill panels or continuous membranes.

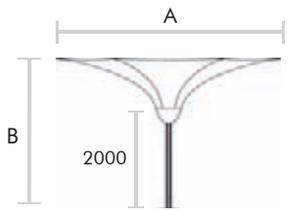
## Hexagonal Model 12, 16, 19, S, SP

Module	'A'	'B'
F*12	3030	2100
F*16	4220	2100
F*19	5020	2200

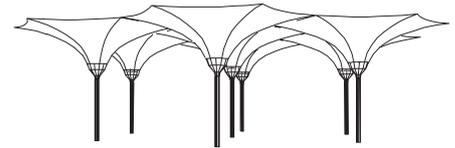


## Lotus™ Model 14, 19, 25

Module	'A'	'B'
L*14	3690	2880
L*19	5020	3330
L*25	6600	3750

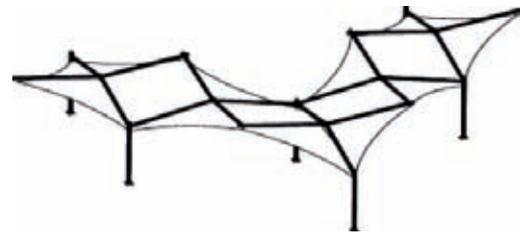
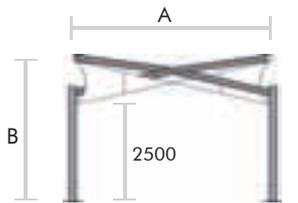


Hexagonal & Lotus™ can be nested into Clusters



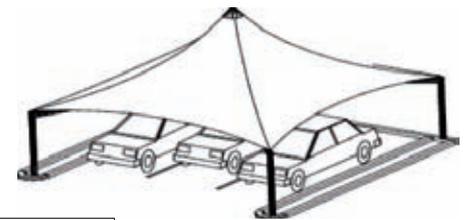
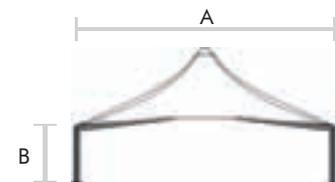
## Hypar™ Model 14, 19, 25, 32

Module	'A'	'B'
H*14	2900	3130
H*19	4330	3450
H*25	5760	3770
H*32	7160	4090



## Tetra™ Model

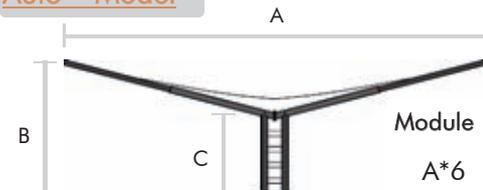
Module	'A'	'B'
T*16	5000	2400
T*25	8815	2500



Multiple modules can be linked with infill panels or continuous membranes

## Auto™ Model

Module	'A'	'B'	'C'
A*6	12000	3750	2200



Note: Spans can be custom designed to suit application

All Dimensions in mm

H/FD/FLEXBROCHURE/PAGE4-10-07.PUB



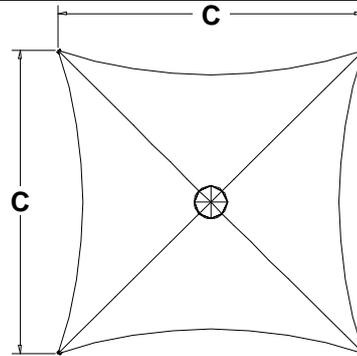
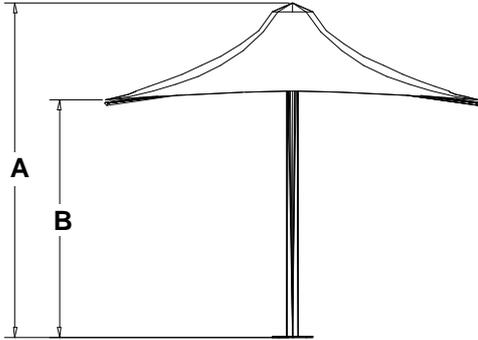
An Activity of TENSION SPAN STRUCTURES PTY LTD A.B.N.20050400836  
 62 Commercial Road, Fortitude Valley, Queensland, Australia 4006  
 Ph: (07) 3854 1900 Intl Ph: +61 7 3854 1900 Fax: (07) 3252 1252  
 Email: sales@flexshade.com Web: www.flexshade.com

# FLEXSHADE® Quartet™

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

## Quartet™ Series

## Square Module Quartet

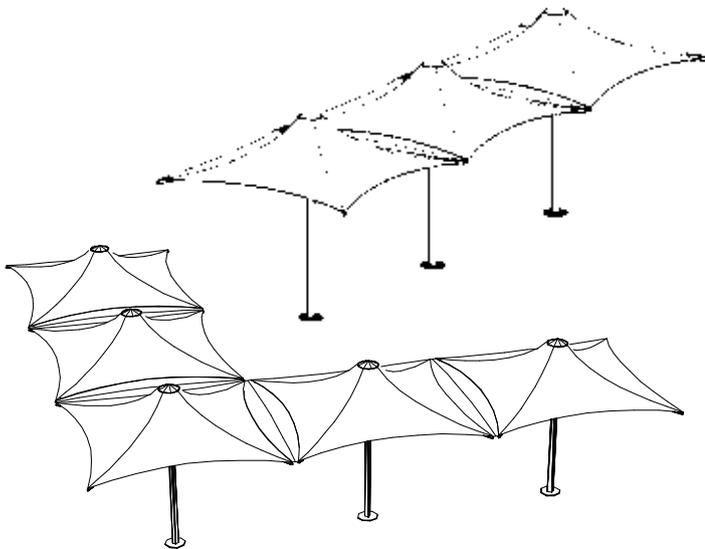


### SHIPPING

TYPE	*A	*B	*C	SHIPPING	
				DIMENSIONS	WEIGHT
Quartet *8	2785	2100	2550	3010 x 420 x 475 mm	125 kg
Quartet *10	2865	2100	3275	3010 x 420 x 475 mm	145 kg
Quartet *14	3275	2100	4275	3010 x 420 x 475 mm	182 kg
Quartet *5M	3615	2250	5000	3300 x 420 x 475 mm	268 kg
Quartet *6M	4045	2400	6000	4125 x 420 x 475 mm	327kg
Quartet *8M	4870	2850	8000	6200 x 750 x 900 mm	650kg

## Quartet™ Links

Flexshade® Quartet™ modules can be connected to provide weatherproof cover.



Flexshade® Quartet™ can be designed to suit specific customer requirements for height and plan dimension.



An Activity of **TENSION SPAN STRUCTURES PTY LTD** ABN 20 050  
400 836  
**62 Commercial Road, Fortitude Valley, Queensland, Australia 4006**  
Ph: (07) 3854 1900 Intl Ph: +61 7 3854 1900 Fax: (07) 3252 1252



# Technical Specifications Quartet™ Range

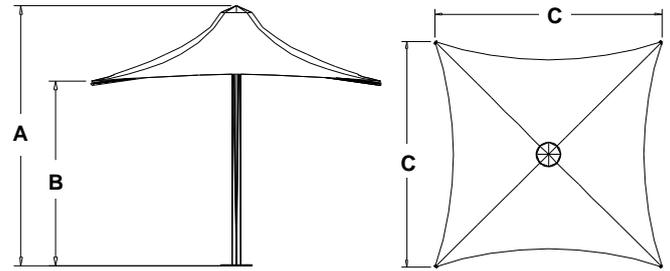
**Q\*8, Q\*10, Q\*14, Q\*5M, Q\*6M, Q\*8M  
SQUARE**

**Wind Rating** :45m/sec (100mph)  
Exposure B to ASCE 7

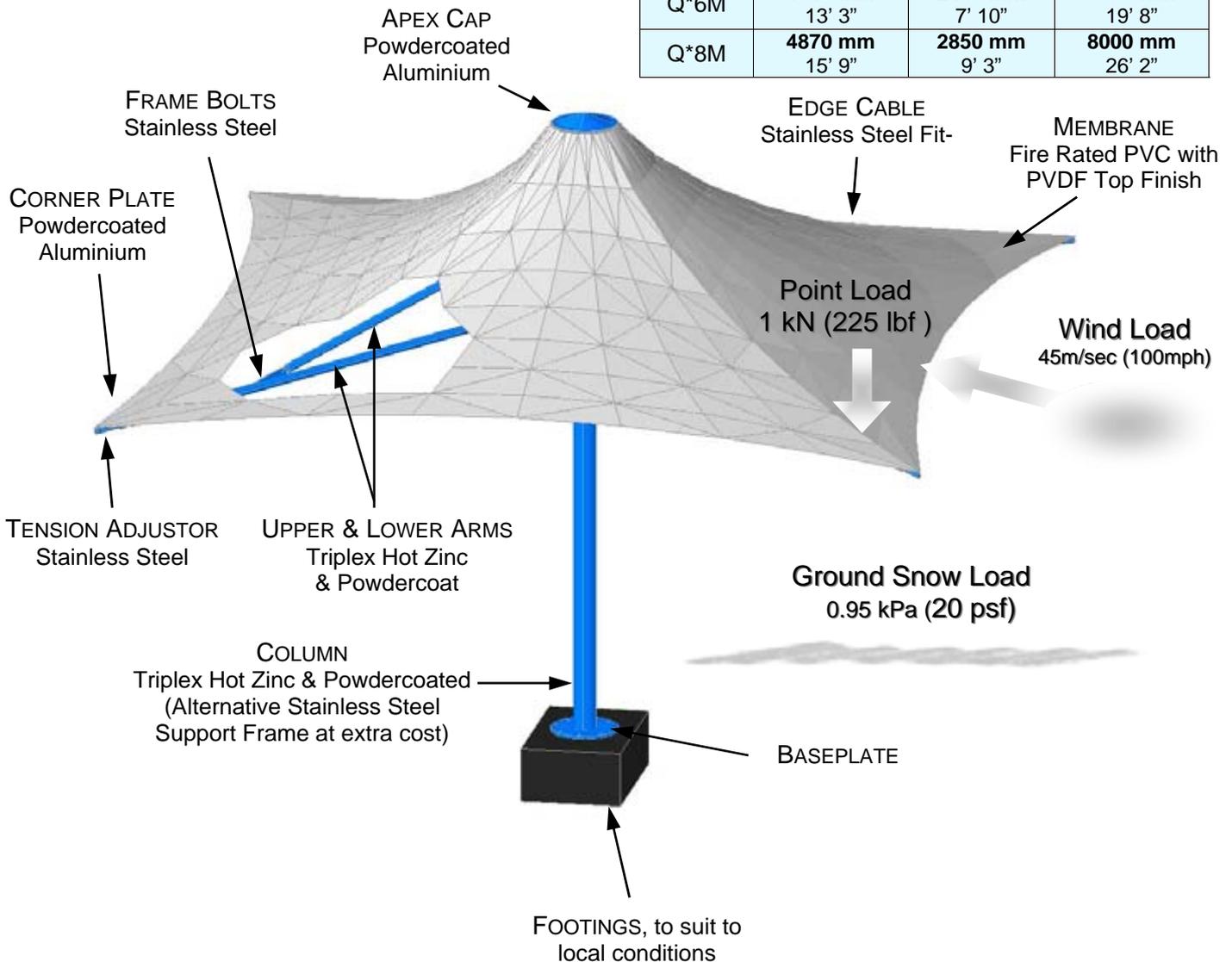
**Point Load** :1kN (225lbf) at Corner

**Snow Load** :0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** :Q\*8 - 5.3 sq.m (57 sq.ft)  
Q\*10 - 8.9 sq.m (96 sq.ft)  
Q\*14 - 15.0 sq.m (162 sq.ft)  
Q\*5M - 22.3 sq.m (239 sq.ft)  
Q\*6M - 31.6 sq.m (340 sq.ft)  
Q\*8M - 61.0 sq.m (656 sq.ft)



TYPE	A	B	C
Q*8	2785 mm 9' 2"	2100 mm 6' 11"	2500 mm 8' 2"
Q*10	2865 mm 9' 5"	2100 mm 6' 11"	3275 mm 10' 9"
Q*14	3275 mm 10' 9"	2100 mm 6' 11"	4275 mm 14'
Q*5M	3615 mm 11' 10"	2250 mm 7' 5"	5000 mm 16' 5"
Q*6M	4045 mm 13' 3"	2400 mm 7' 10"	6000 mm 19' 8"
Q*8M	4870 mm 15' 9"	2850 mm 9' 3"	8000 mm 26' 2"

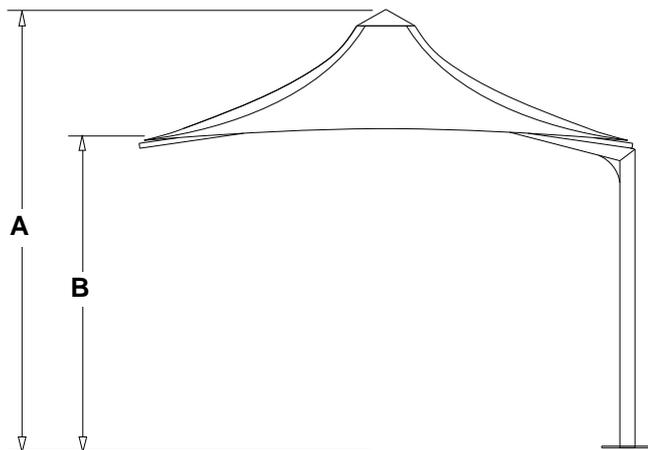


Flexshade® Quartet™ can be designed to suit specific customer requirements for height and plan dimension.

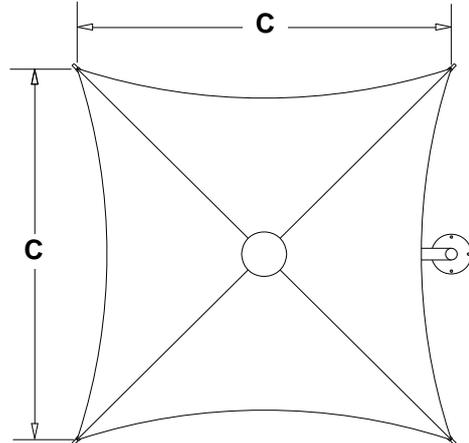
# FLEXSHADE® Quartet™

- Features:**
- ▣ Fire Rated PVC with PVDF Top Finish.
  - ▣ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ▣ Stainless Steel Cables & Fittings.
  - ▣ Minimal Footings for Area Covered.
  - ▣ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

## Quartet™ “S” Model



## Square Module Quartet™



### SHIPPING

TYPE	*A	*B	*C	SHIPPING	
				DIMENSIONS	WEIGHT
Quartet *8S	3085	2400	2550	3010 x 420 x 475 mm	141 kg
Quartet *10S	3180	2400	3275	3010 x 420 x 475 mm	164 kg
Quartet *14S	3575	2400	4275	3010 x 420 x 475 mm	206 kg
Quartet *5MS	3756	2400	5000	3550 x 420 x 475 mm	303 kg
Quartet *6MS	4045	2400	6000	4125 x 420 x 475 mm	453 kg

Flexshade® Quartet™ can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Quartet™ Range

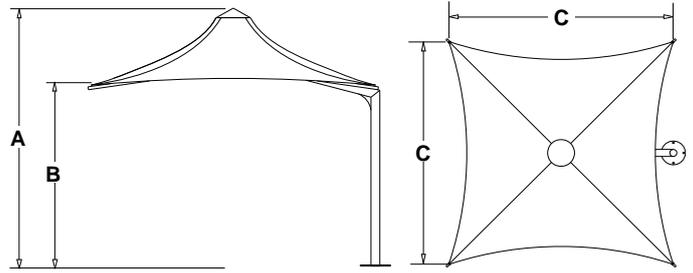
## Q\*8S, Q\*10S, Q\*14S, Q\*5MS, Q\*6MS SQUARE

**Wind Rating** :45m/sec (100mph)  
Exposure B to ASCE 7

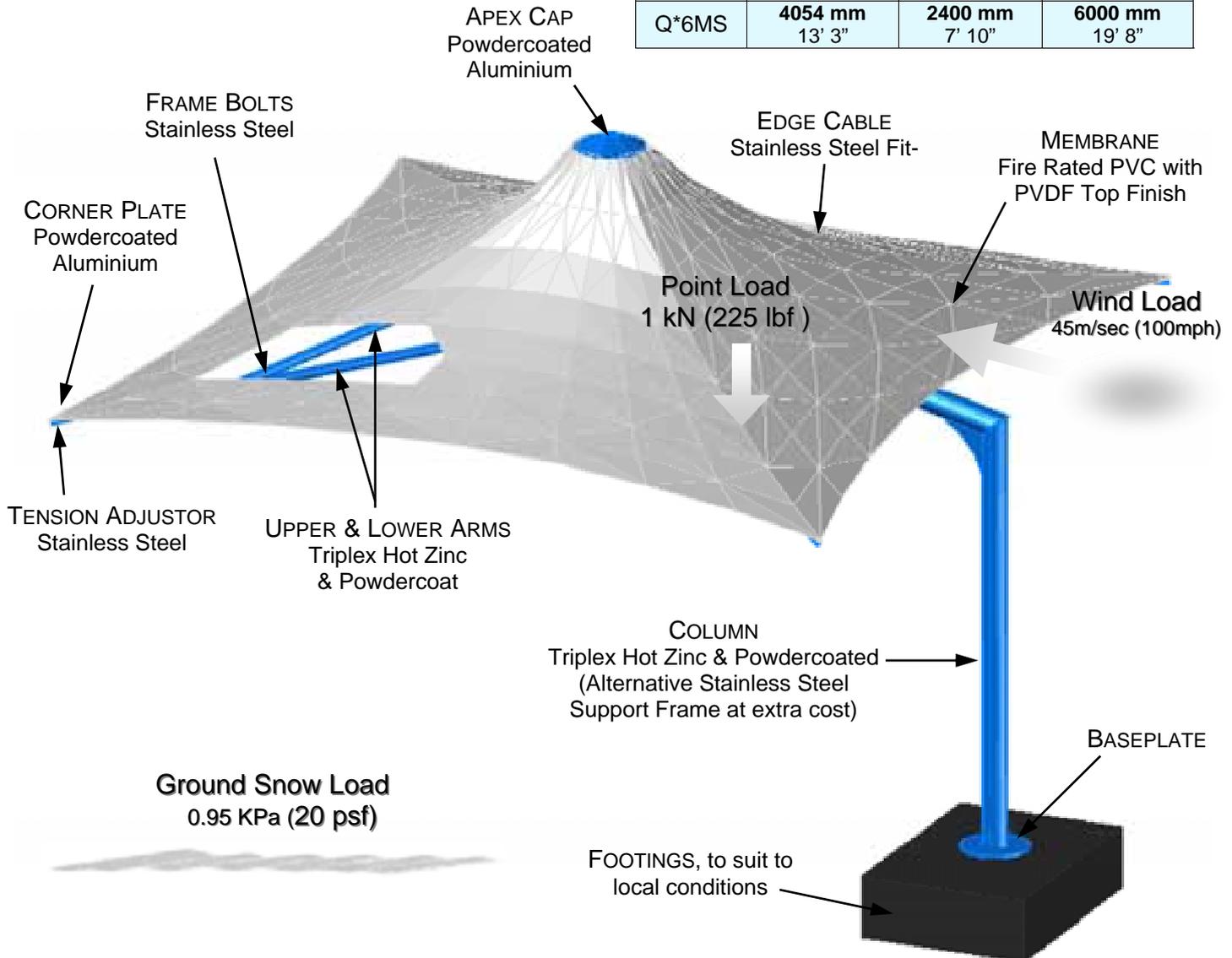
**Point Load** :1kN (225lbf) at Corner

**Snow Load** :0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** : Q\*8S - 5.3 sq.m (57 sq.ft)  
Q\*10S - 8.9 sq.m (96 sq.ft)  
Q\*14S - 15.0 sq.m (162 sq.ft)  
Q\*5MS - 22.3 sq.m (239 sq.ft)  
Q\*6MS - 32.1 sq.m (345 sq.ft)



TYPE	A	B	C
Q*8S	3085 mm 10' 1"	2400 mm 7' 10"	2500 mm 8' 2"
Q*10S	3180 mm 10' 5"	2400 mm 7' 10"	3275 mm 10' 9"
Q*14S	3575 mm 11' 8"	2400 mm 7' 10"	4275 mm 14'
Q*5MS	3756 mm 12' 4"	2400 mm 7' 10"	5000 mm 16' 5"
Q*6MS	4054 mm 13' 3"	2400 mm 7' 10"	6000 mm 19' 8"



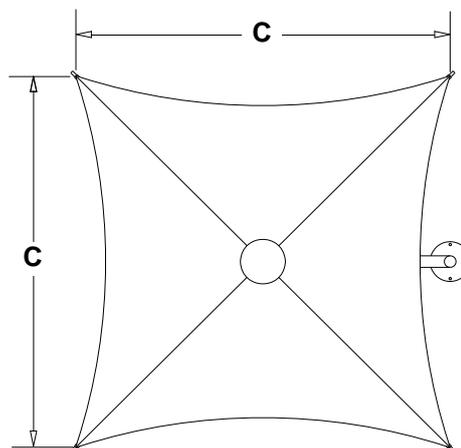
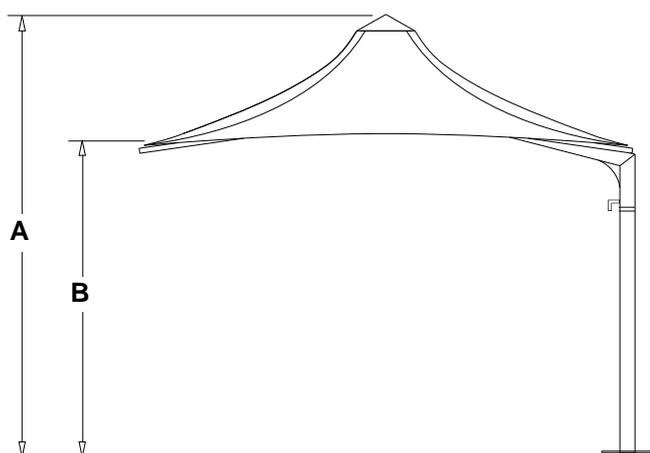
Flexshade® Quartet™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE<sup>®</sup> Quartet<sup>™</sup>

- Features:**
- ✘ Fire Rated PVC with PVDF Top Finish.
  - ✘ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✘ Stainless Steel Cables & Fittings.
  - ✘ Minimal Footings for Area Covered.
  - ✘ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

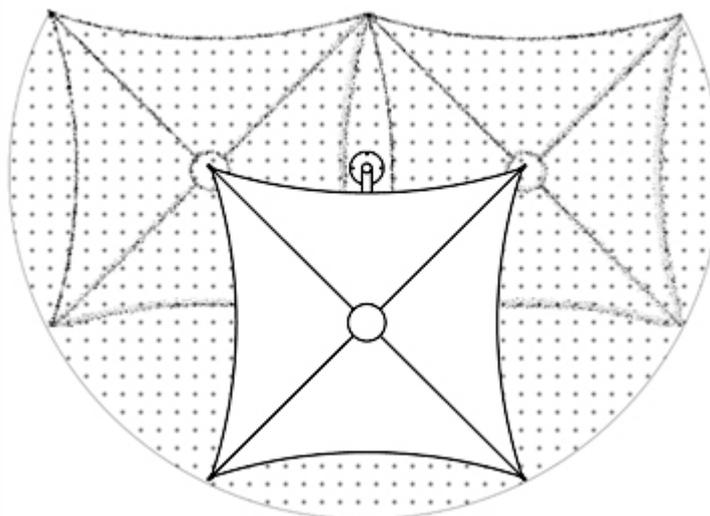
## Quartet<sup>™</sup> "SP" Model

## Square Module Quartet<sup>™</sup>



TYPE	*A	*B	*C	SHIPPING	
				DIMENSIONS	WEIGHT
Quartet *8SP	3085	2400	2550	3010 x 420 x 475 mm	141 kg
Quartet *10SP	3180	2400	3275	3010 x 420 x 475 mm	164 kg
Quartet *14SP	3575	2400	4275	3010 x 420 x 475 mm	206 kg
Quartet *5MSP	3756	2400	5000	3550 x 420 x 475 mm	303 kg

*Multiply your shade by over 250% using the Pivot Option*



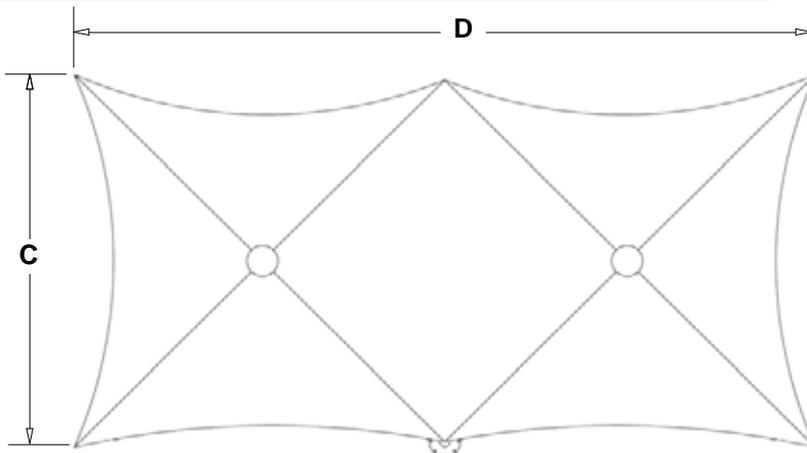
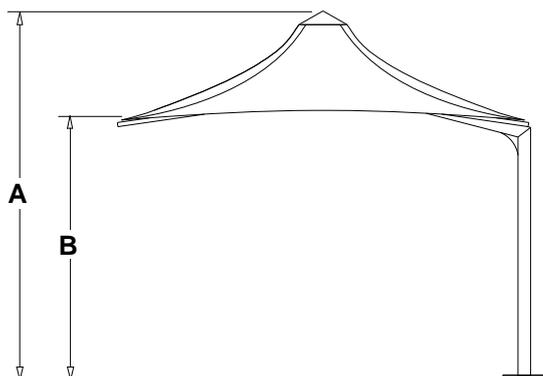
An Activity of **TENSION SPAN STRUCTURES PTY LTD** ABN 20 050 400 836  
**62 Commercial Road, Fortitude Valley, Queensland, Australia 4006**  
**Ph: (07) 3854 1900 Intl Ph: +61 7 3854 1900 Fax: (07) 3252 1252**

# FLEXSHADE<sup>®</sup> Quartet<sup>™</sup>

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

## Quartet<sup>™</sup> "DUET" Model

## Square Module Quartet<sup>™</sup>



### SHIPPING

TYPE	*A	*B	*C	*D	SHIPPING	
					DIMENSIONS	WEIGHT
Quartet *8D	3085	2400	2550	5100	3010 x 420 x 475 mm	261 kg
Quartet *10D	3180	2400	3275	6550	3010 x 420 x 475 mm	342 kg
Quartet *14D	3575	2400	4275	8550	2 x 3010 x 420 x 475 mm	479 kg
Quartet *5MD	3756	2400	5000	10000	2 x 3550 x 420 x 475 mm	688 kg

Flexshade<sup>®</sup> Quartet<sup>™</sup> can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Quartet™ Range

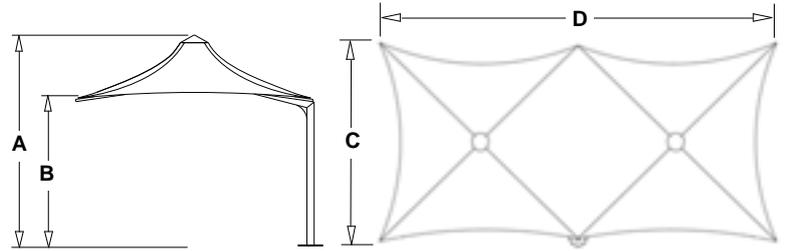
## DUET - Q\*8D, Q\*10D, Q\*14D, Q\*5MD

**Wind Rating** :45m/sec (100mph)  
Exposure B to ASCE 7

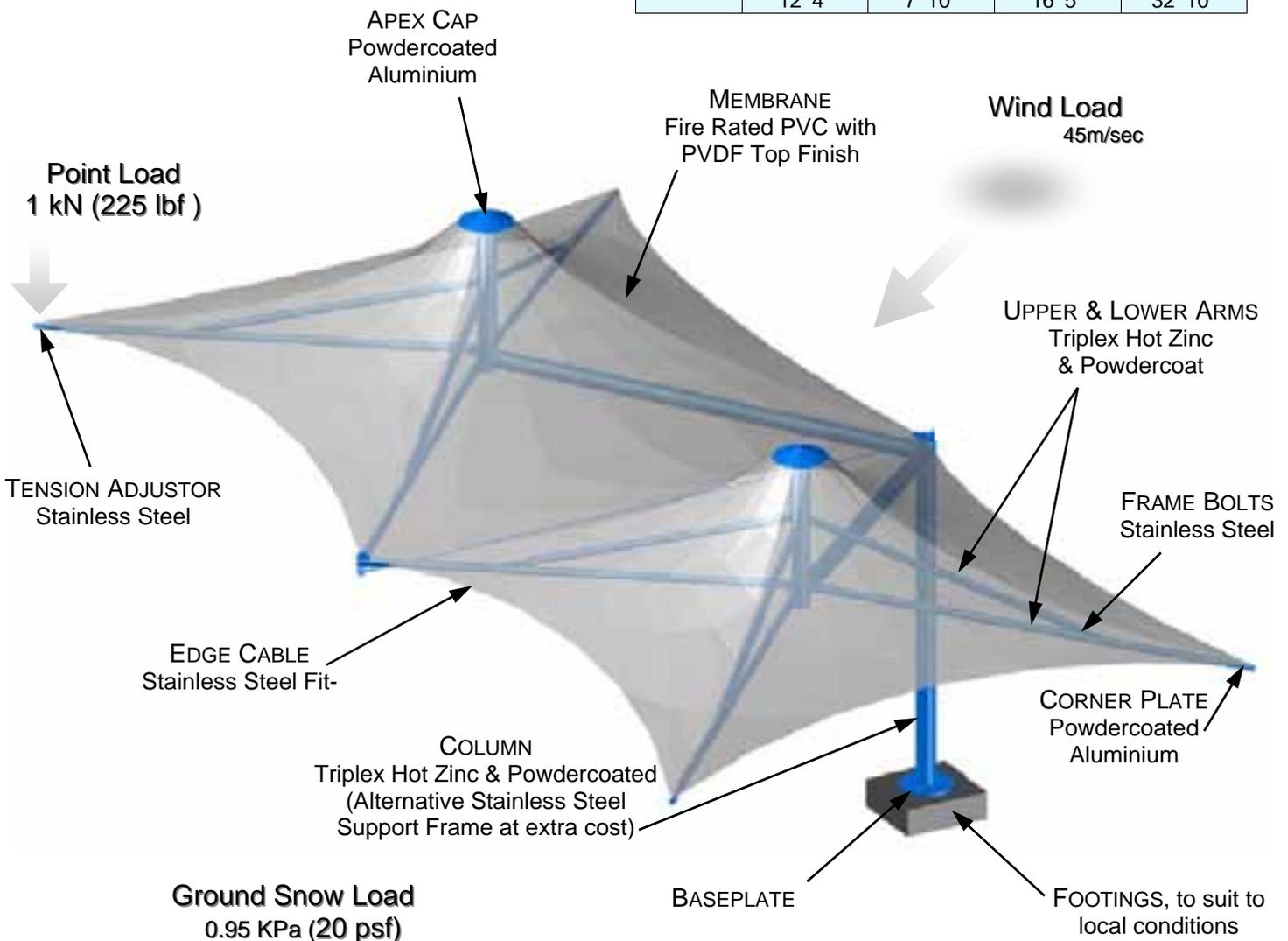
**Point Load** :1kN (225lbf) at Corner

**Snow Load** :0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** :Q\*8D - 11.2 sq.m (120 sq.ft)  
Q\*10D - 18.9 sq.m (203 sq.ft)  
Q\*14D - 33.0 sq.m (355 sq.ft)  
Q\*5MD - 47.3 sq.m (509 sq.ft)



TYPE	A	B	C	D
Q*8D	3085 mm 10' 1"	2400 mm 7' 10"	2500 mm 8' 2"	5000 mm 16' 4"
Q*10D	3180 mm 10' 5"	2400 mm 7' 10"	3275 mm 10' 9"	6550 mm 21' 6"
Q*14D	3575 mm 11' 8"	2400 mm 7' 10"	4275 mm 14'	8550mm 28'
Q*5MD	3756 mm 12' 4"	2400 mm 7' 10"	5000 mm 16' 5"	10000mm 32' 10"



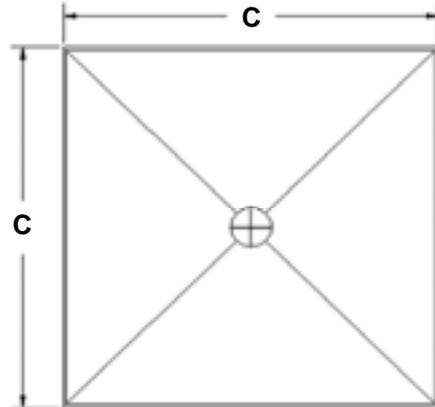
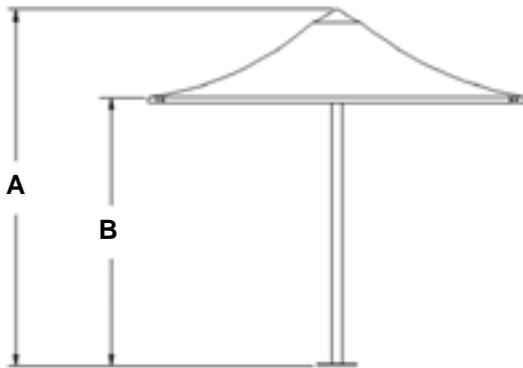
Flexshade® Quartet™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE® Quartet™

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

## Quartet™ Curtain Series

## Square Module Quartet\**C*

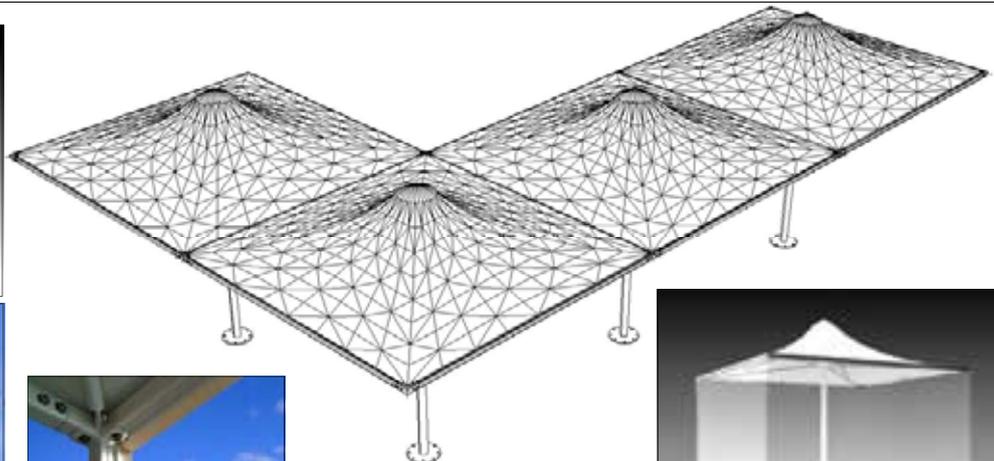


Min Edge Member Size: 50 x 50mm

### SHIPPING

TYPE	*A	*B	*C	DIMENSIONS	WEIGHT
Quartet *8C	3085	2400	2500	3010 x 420 x 475 mm	196 kg
Quartet *10C	3180	2400	3275	3280 x 420 x 475 mm	219 kg
Quartet *14C	3575	2400	4275	3010 x 420 x 475 mm	260 kg
Quartet *5MC	3825	2400	5000	3010 x 525 x 525 mm	358 kg

**Quartet™*C* - Links** Flexshade® Quartet™ *C* modules can be connected to provide weatherproof cover.



Optional Curtain Attachment



Flexshade® Quartet\**C*™ can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Quartet™ Range

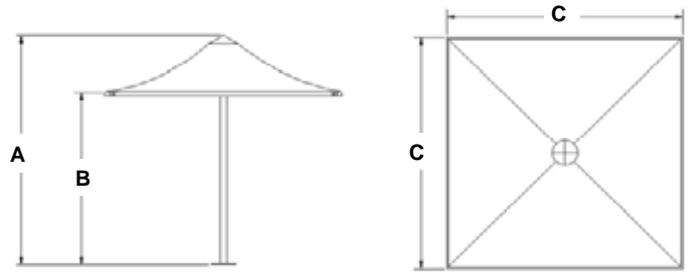
## Q\*8C, Q\*10C, Q\*14C, Q\*5MC SQUARE

**Wind Rating** :45m/sec (100mph)  
Exposure B to ASCE 7

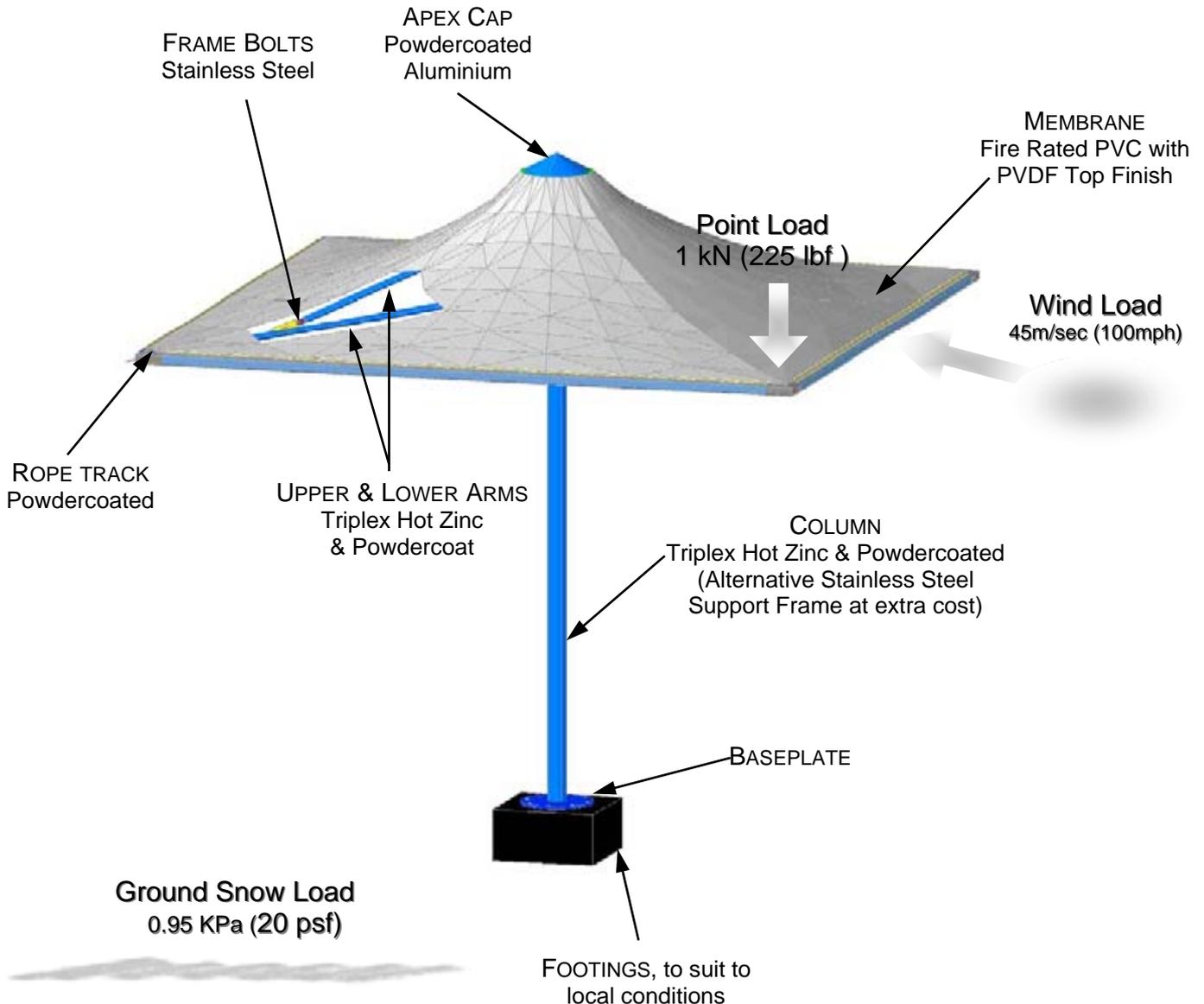
**Point Load** :1kN (225lbf) at Corner

**Snow Load** :0.95 kPa (20 psf )  
Ground Snow Load

**Plan Areas** :Q\*8C - 6.2 sq.m (67 sq.ft)  
Q\*10C - 10.7 sq.m (115 sq.ft)  
Q\*14C - 18.3 sq.m (197 sq.ft)  
Q\*5MC - 25.0 sq.m (269 sq.ft)



TYPE	A	B	C
Q*8C	3085 mm 10' 1"	2400 mm 7' 10"	2500 mm 8' 2"
Q*10C	3180 mm 10' 5"	2400 mm 7' 10"	3275 mm 10' 9"
Q*14C	3575 mm 11' 8"	2400 mm 7' 10"	4275 mm 14'
Q*5MC	3825 mm 12' 6"	2400 mm 7' 10"	5000 mm 16' 5"



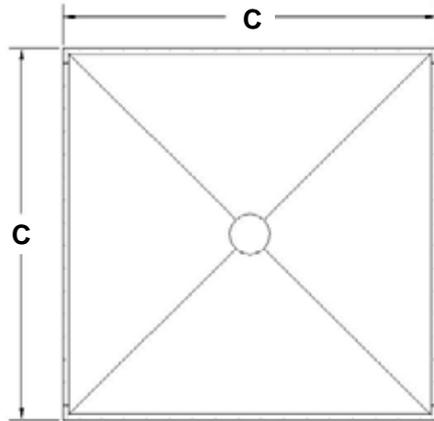
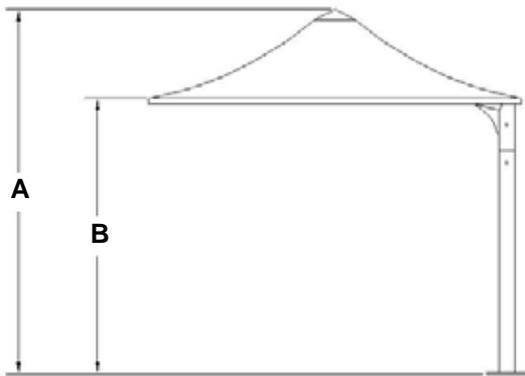
Flexshade® Quartet\*C™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE® Quartet™

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

## Quartet™ Cantilever Curtain Series

## Square Module Quartet\*CS



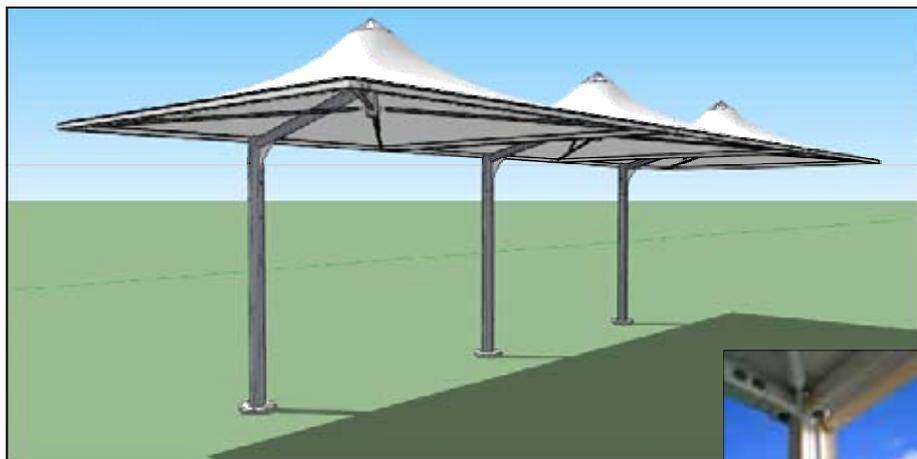
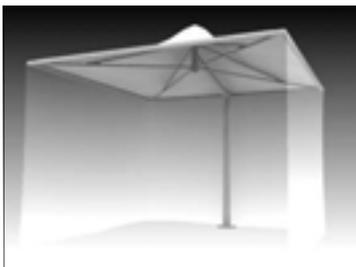
Min Edge Member Size: 50 x 50mm

### SHIPPING

TYPE	*A	*B	*C	DIMENSIONS	WEIGHT
Quartet *8CS	3085	2400	2500	3010 x 420 x 475 mm	241 kg
Quartet *10CS	3180	2400	3275	3280 x 420 x 475 mm	271 kg
Quartet *14CS	3575	2400	4275	3010 x 420 x 475 mm	326 kg
Quartet *5MCS	3825	2400	5000	3550 x 420 x 630 mm	454 kg

## Quartet™CS - Links

Flexshade® Quartet™ CS modules can be connected to provide weatherproof



Optional Curtain Attachment

Flexshade® Quartet\*CS™ can be designed to suit specific customer requirements for height and plan dimension.



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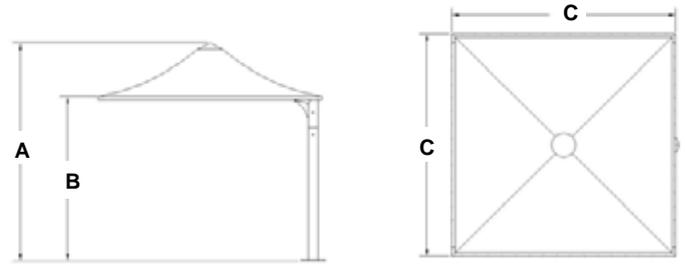
# Technical Specifications Quartet™ Range

## Q\*8CS, Q\*10CS, Q\*14CS, Q\*5MCS SQUARE

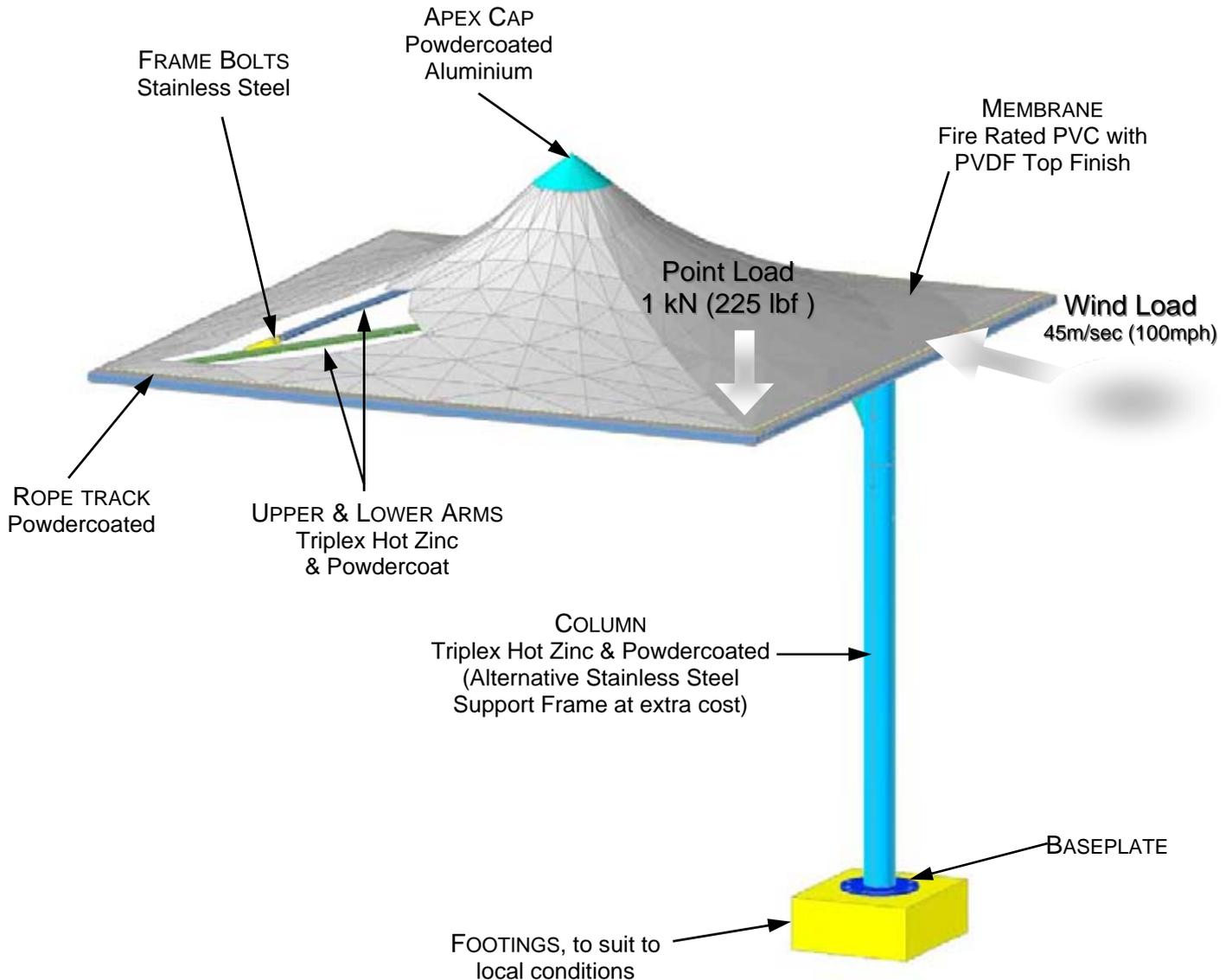
**Wind Rating** :45m/sec (100mph)  
Exposure B to ASCE 7

**Point Load** :1kN (225lbf) at Corner

**Plan Areas** :Q\*8C - 6.2 sq.m (67 sq.ft)  
Q\*10C - 10.7 sq.m (115 sq.ft)  
Q\*14C - 18.3 sq.m (197 sq.ft)  
Q\*5MC - 25.0 sq.m (269 sq.ft)



TYPE	A	B	C
Q*8CS	3085 mm 10' 1"	2400 mm 7' 10"	2500 mm 8' 2"
Q*10CS	3180 mm 10' 5"	2400 mm 7' 10"	3275 mm 10' 9"
Q*14CS	3575 mm 11' 8"	2400 mm 7' 10"	4275 mm 14'
Q*5MCS	3825 mm 12' 6"	2400 mm 7' 10"	5000 mm 16' 5"



Flexshade® Quartet\*CS™ can be designed to suit specific customer requirements for height and plan dimension.

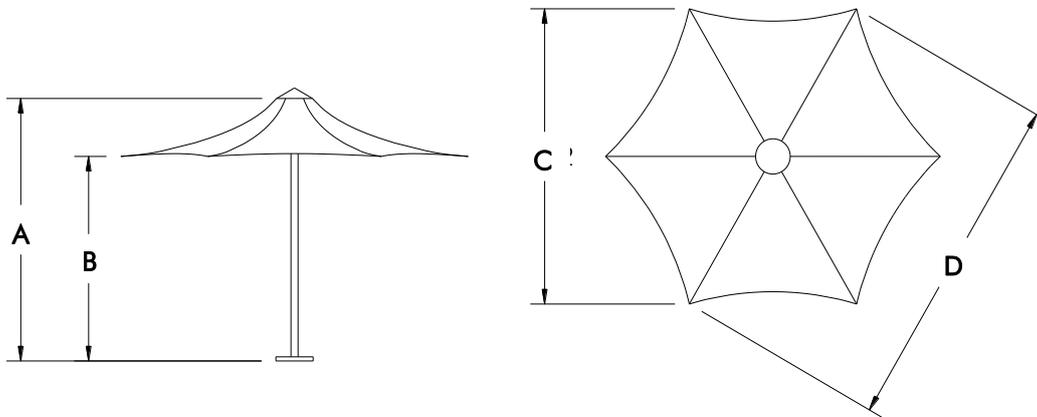
# FLEXSHADE®

# Hexagonal™

- Features:**
- ✘ Acrylic or PVDF/Polyester Membrane.
  - ✘ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✘ Stainless Steel Cables & Fittings.
  - ✘ Minimal Footings for Area Covered.
  - ✘ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

Hexagonal™ Series

Hexagonal Module™ 12, 16, 19



TYPE	*A	*B	*C	*D	SHIPPING	
					DIMENSIONS	WEIGHT
Flexshade *12	2760	2100	3124	3606	3010 x 420 x 475 mm	140 kg
Flexshade *16	3065	2100	4218	4870	3010 x 420 x 475 mm	182 kg
Flexshade *19	3505	2250	5022	5800	3010 x 420 x 475 mm	325 kg



Flexshade® Hexagonal™ can be designed to suit specific customer requirements for height and plan dimension.



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 Email: sales@flexshade.com Web: www.flexshade.com



# Technical Specifications Hexagon™ Range

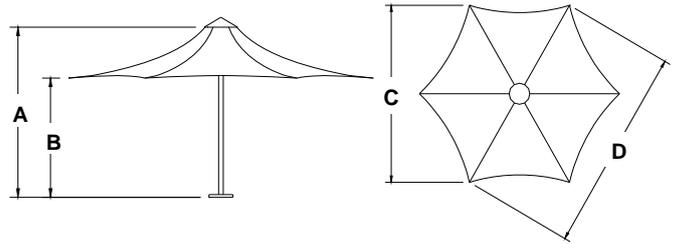
## HEXAGONAL™ - F\*12, F\*16, F\*19

**Wind Rating** : 45m/sec (100mph)  
W45 to AS1170.2  
Exposure B to ASCE 7

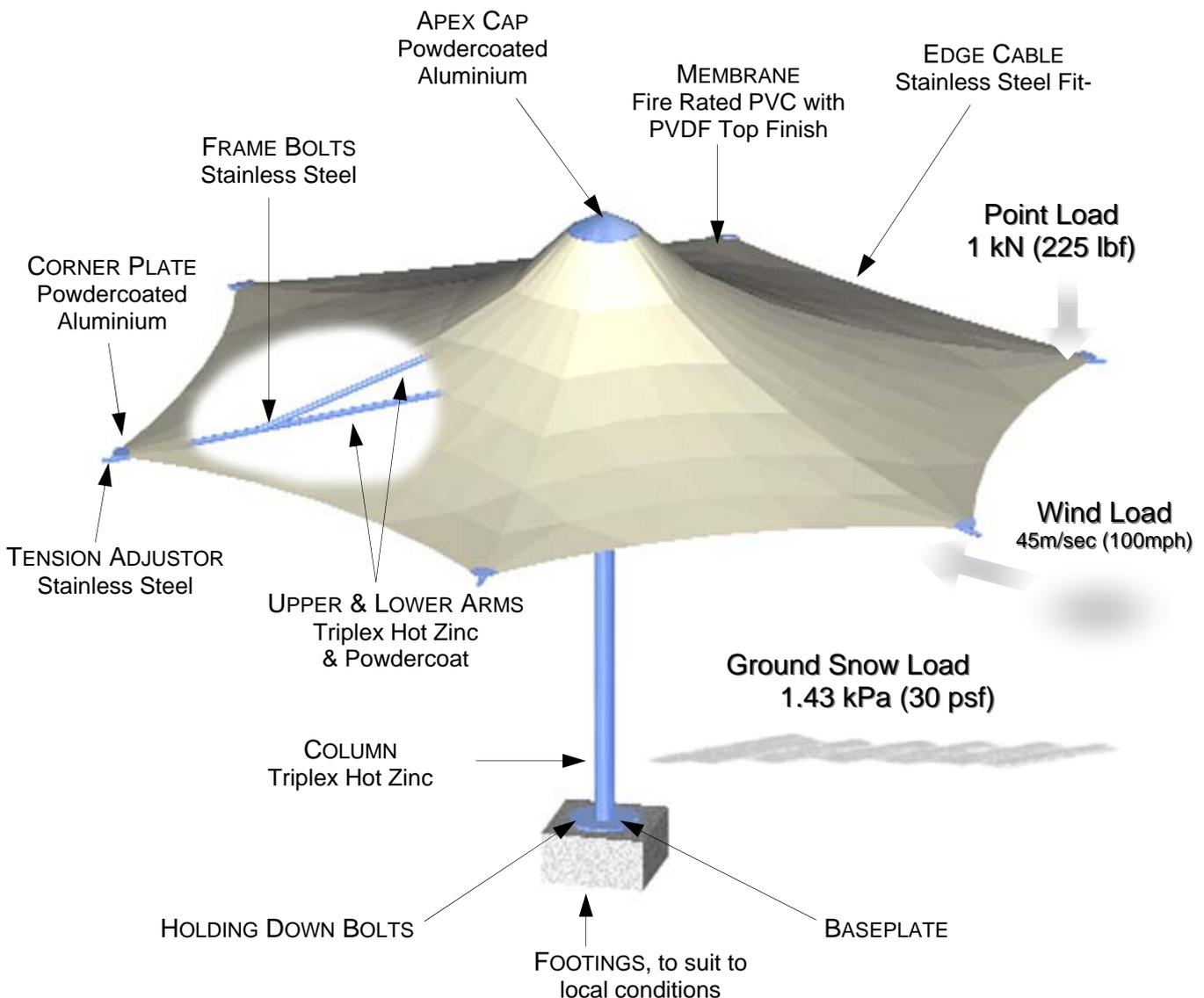
**Point Load** : 1kN (225lbf) at Corner

**Snow Load** : 1.43 kPa (30 psf)  
Ground Snow Load

**Plan Areas** : F\*12 - 7.8 sq.m (84 sq.ft)  
F\*16 - 14 sq.m (150 sq.ft)  
F\*19 - 19 sq.m (205 sq.ft)



TYP E	A	B	C	D
F*12	2760 mm 9'	2100 mm 6' 10"	3124 mm 10' 3"	3606 mm 11' 10"
F*16	3065 mm 10'	2100 mm 6' 10"	4218 mm 13' 10"	4870 mm 15' 11"
F*19	3505 mm 11' 6"	2250 mm 7' 4"	5022 mm 16' 5"	5800 mm 19'



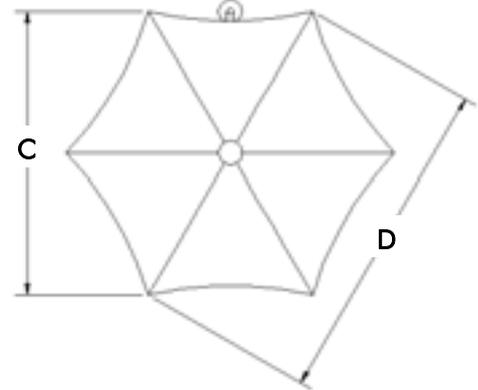
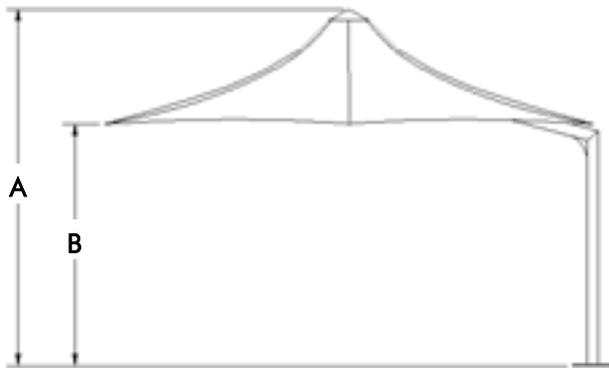
Flexshade® can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE® Hexagonal™

- Features:**
- ✘ Acrylic or PVDF/Polyester Membrane.
  - ✘ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✘ Stainless Steel Cables & Fittings.
  - ✘ Minimal Footings for Area Covered.
  - ✘ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

Hexagonal™ "S"

Cantilever™ 12, 16, 19



TYPE	*A	*B	*C	*D	SHIPPING	
					DIMENSIONS	WEIGHT
Flexshade *12S	3100	2400	3120	3600	3010 x 420 x 475 mm	158 kg
Flexshade *16S	3390	2400	4200	4850	3010 x 420 x 475 mm	205 kg
Flexshade *19S	3665	2400	5020	5800	3010 x 420 x 475 mm	367 kg



Pivot option available on all sizes.

Flexshade® Hexagonal™ "S" can be designed to suit specific customer requirements for height and plan dimension.



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 Email: sales@flexshade.com Web: www.flexshade.com



# Technical Specifications Hexagon™ Range

## HEXAGONAL™ - F\*12S, F\*16S, F\*19S

**Wind Rating** : 45m/sec (100mph)  
W45 to AS1170.2  
Exposure B to ASCE 7

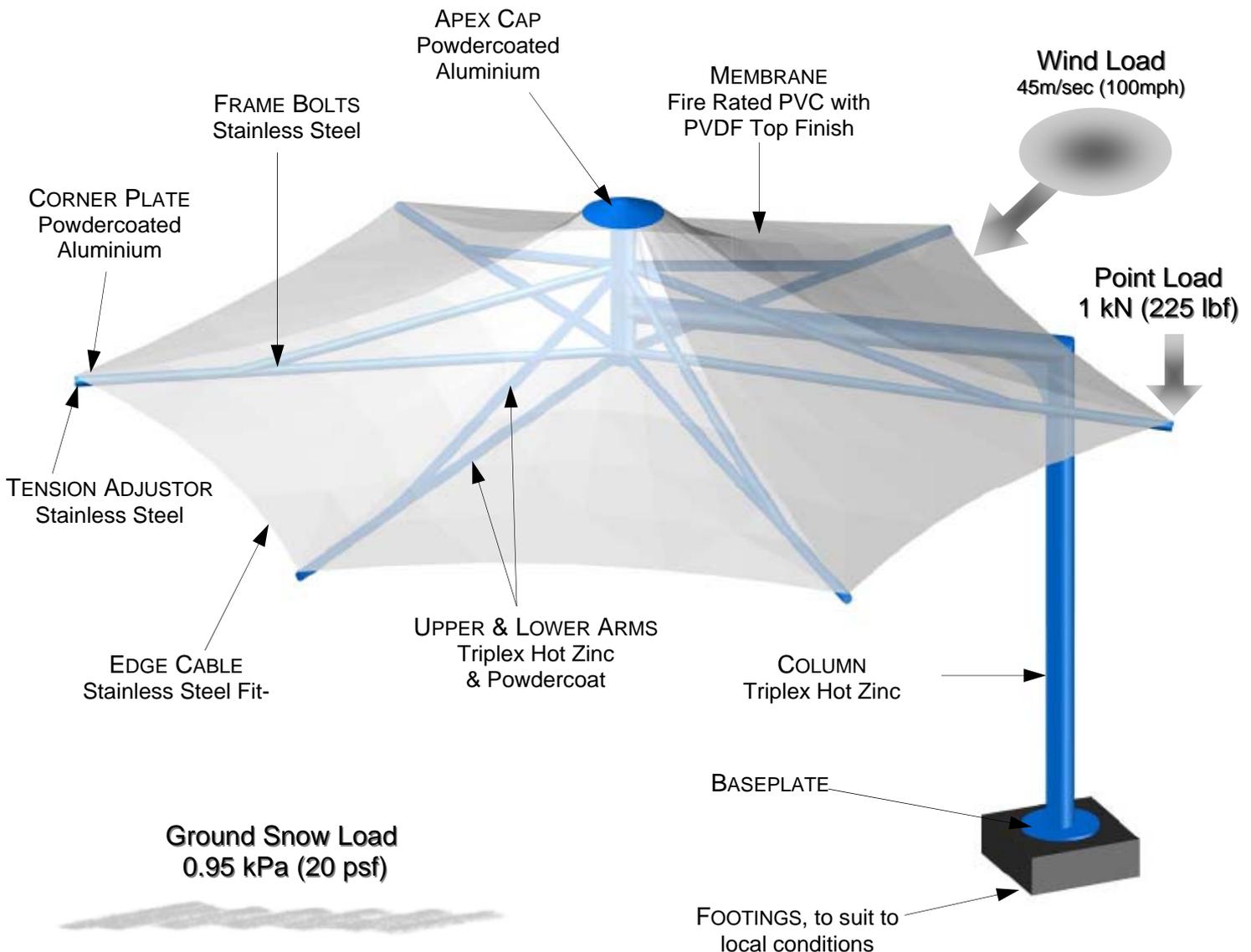
**Point Load** : 1kN (225lbf) at Corner

**Snow Load** : 0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** : F\*12 - 7.8 sq.m (84 sq.ft)  
F\*16 - 13.9 sq.m (150 sq.ft)  
F\*19 - 19.1 sq.m (205 sq.ft)



TYP E	A	B	C	D
F*12S	3100 mm 10'2"	2400 mm 7'9"	3120 mm 10'2"	3600 mm 11'8"
F*16S	3390 mm 11'1"	2400 mm 7'9"	4200 mm 13'8"	4850 mm 15'9"
F*19S	3665 mm 12'	2400 mm 7'9"	5020 mm 16'5"	5800 mm 19'



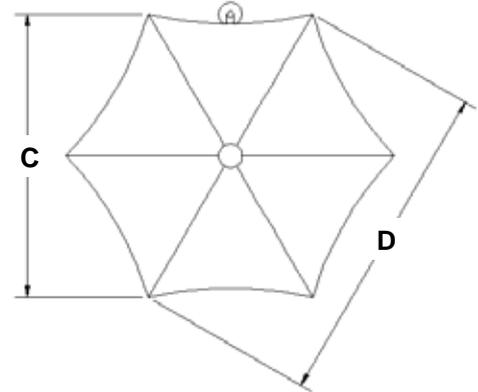
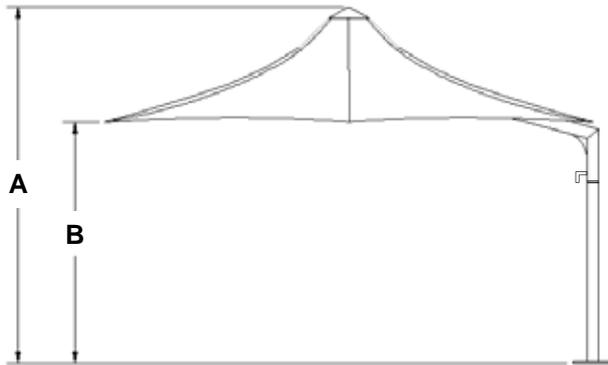
Flexshade® can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE® Hexagonal™

- Features:**
- ▣ Fire Rated PVC with PVDF Top Finish.
  - ▣ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ▣ Stainless Steel Cables & Fittings.
  - ▣ Minimal Footings for Area Covered.
  - ▣ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

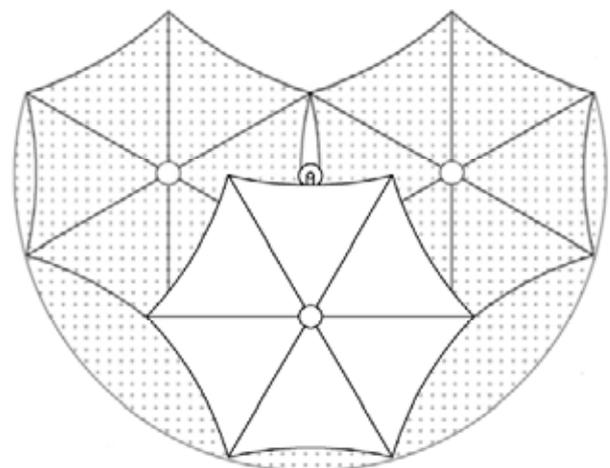
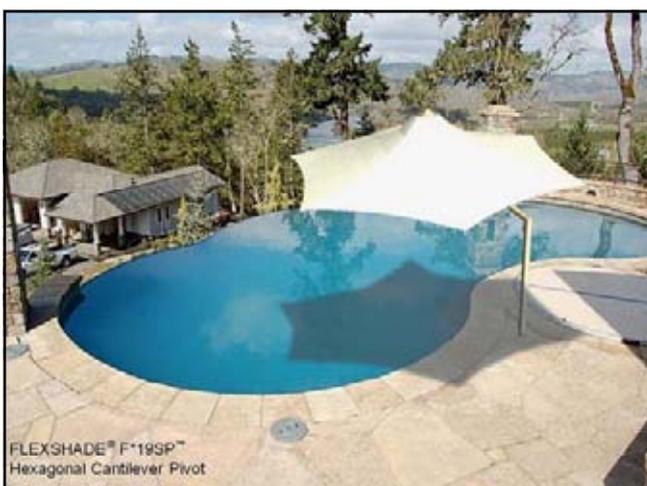
Hexagonal™ “SP”

Cantilever™ 12, 16, 19



SHIPPING						
TYPE	*A	*B	*C	*D	DIMENSIONS	WEIGHT
Flexshade *12SP	3100	2400	3120	3600	3010 x 420 x 475 mm	158 kg
Flexshade *16SP	3390	2400	4200	4850	3010 x 420 x 475 mm	205 kg
Flexshade *19SP	3665	2400	5020	5800	3010 x 420 x 475 mm	367 kg

*Multiply your shade by over 300% using the Pivot Option*



Flexshade® Hexagonal™“SP” can be designed to suit specific customer requirements for height and plan



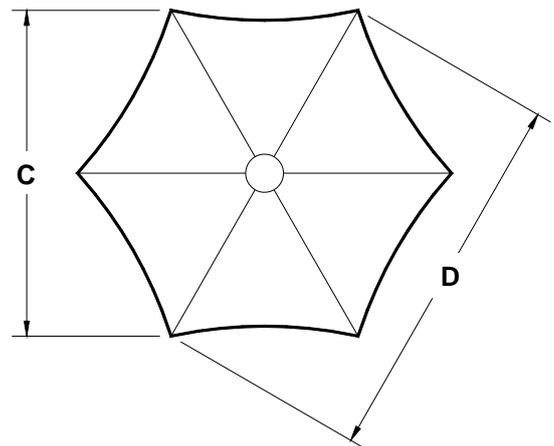
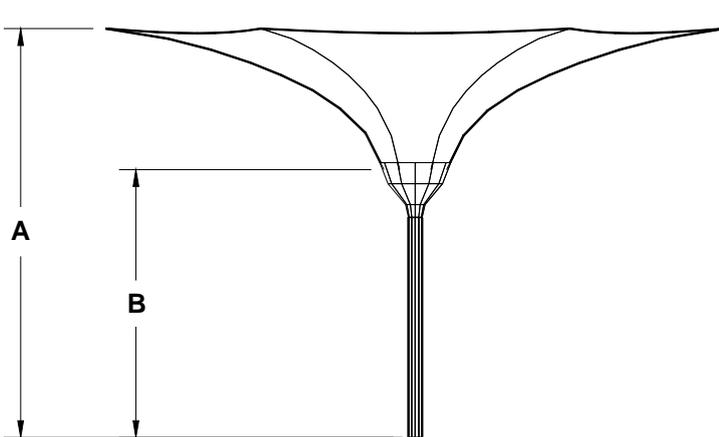
An Activity of **TENSION SPAN STRUCTURES PTY LTD** ABN 20 050 400 836  
**62 Commercial Road, Fortitude Valley, Queensland, Australia 4006**  
**Ph: (07) 3854 1900 Intl Ph: +61 7 3854 1900 Fax: (07) 3252 1252**  
**Email: sales@flexshade.com Web: www.flexshade.com**

# FLEXSHADE<sup>®</sup> Lotus

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Galvanised & Powder Coated Steelwork. (Alternative Stainless Steel Support)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Complete Internal Water Drainage.
  - ✦ No Guttering Necessary, No Drip Edges.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

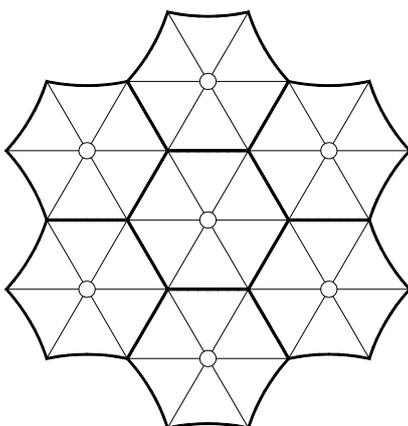
## Lotus<sup>™</sup> Series

## Hexagonal Module Lotus 14, 19, 25



TYPE	*A	*B	*C	*D	SHIPPING	
					DIMENSIONS	WEIGHT
Lotus *14	2880	1900	3695	4270	3226 x 525 x 525 mm	165 kg
Lotus *19	3330	2245	5015	5790	3226 x 525 x 525 mm	350 kg
Lotus *25	3750	2000	6600	7620	4500 x 750 x 750 mm	700 kg

## Lotus<sup>™</sup> Cluster Flexshade Lotus<sup>™</sup> modules can be connected to provide weatherproof



Flexshade Lotus<sup>™</sup> can be designed to suit specific customer requirements for height and plan dimension.



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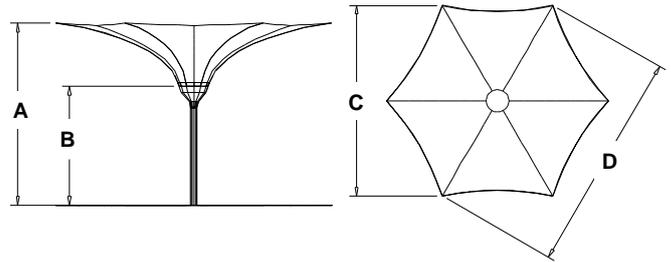
# Technical Specifications

## Lotus™ Range

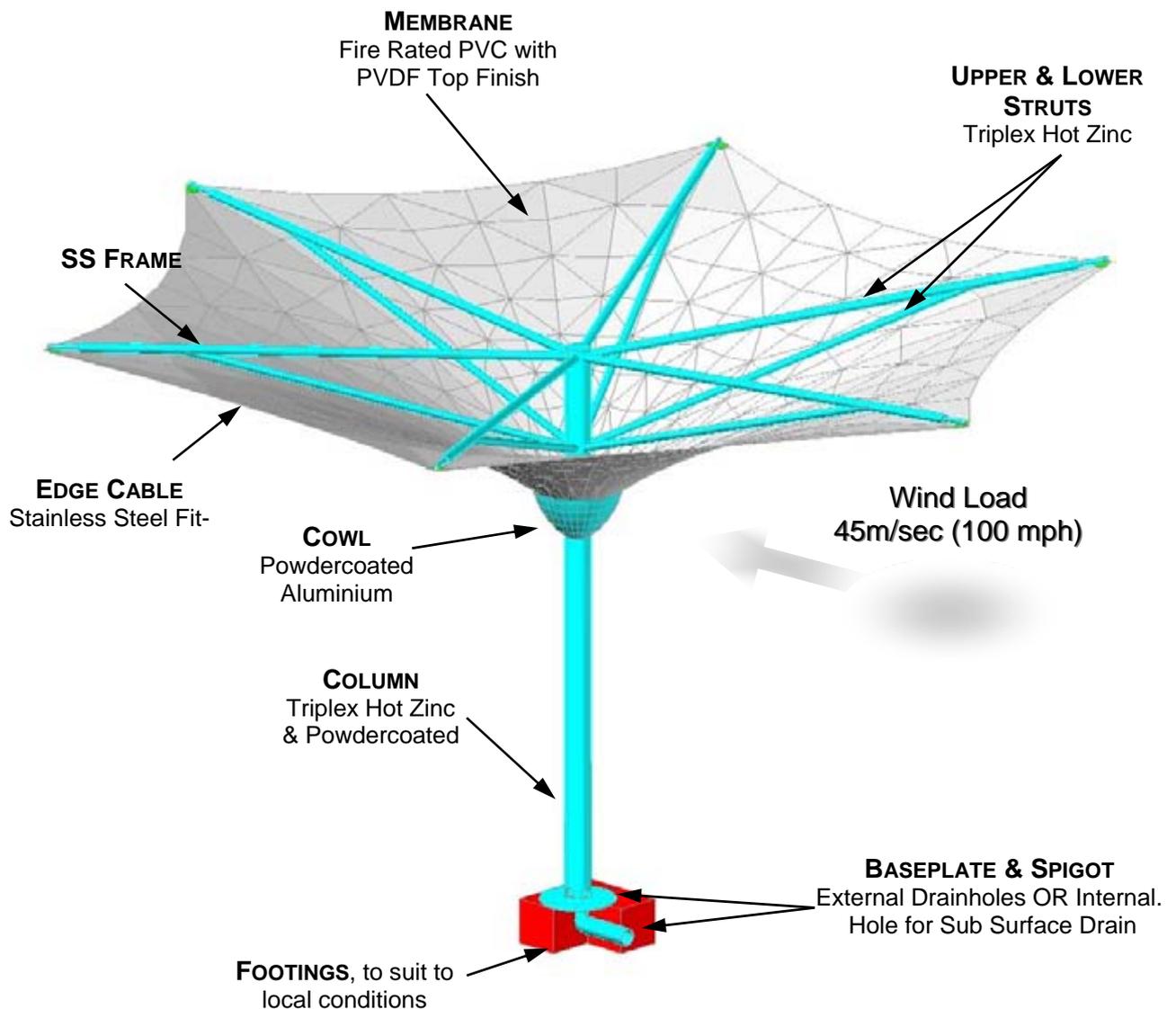
### LOTUS - L\*14, L\*19, L\*25

**Wind Rating** : 45m/sec (100mph)  
Exposure B to ASCE 7

**Plan Areas** : L\*14 - 11 sq.m (118 sq.ft)  
L\*19 - 19 sq.m (204 sq.ft)  
L\*25 - 32 sq.m (344 sq.ft)



TYPE	A	B	C	D
L*14	2880 mm 9' 5"	1900 mm 6' 3"	3695 mm 12' 4"	4270 mm 14' 3"
L*19	3330 mm 11' 6"	2245 mm 7' 4"	5015 mm 16' 6"	5790 mm 19'
L*25	3750 mm 12' 3"	2000 mm 6' 7"	6600 mm 21' 7"	7620 mm 25'



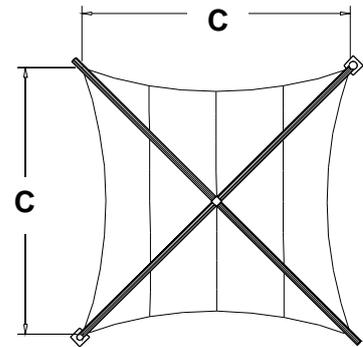
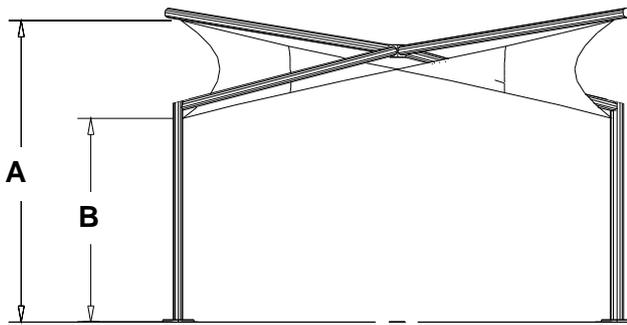
Flexshade® Lotus™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE<sup>®</sup> Hypar<sup>™</sup>

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other Codes worldwide for 160km/hr (100mph) wind speed.

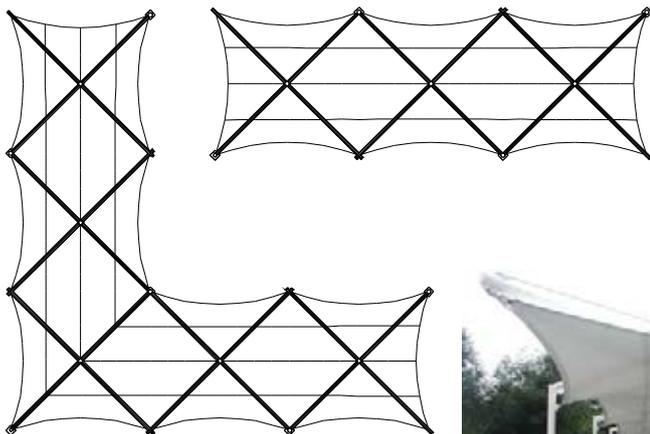
## Hypar<sup>™</sup> Series

## Hexagonal Module Hypar14, 19, 25, 32



TYPE	*A	*B	*C	SHIPPING	
				DIMENSIONS	WEIGHT
Hypar *14	3128	2500	2900	3200 x 750 x 750 mm	395 kg
Hypar *19	3450	2500	4330	3500 x 750 x 750 mm	495 kg
Hypar *25	3771	2500	5760	4500 x 750 x 750 mm	660 kg
Hypar *32	4090	2500	7160	5500 x 1000 x 1000 mm	830 kg

## Hypar<sup>™</sup> Links *Flexshade<sup>®</sup> Hypar<sup>™</sup> modules can be connected to provide weatherproof*



**Flexshade<sup>®</sup> Hypar<sup>™</sup> can be designed to suit specific customer requirements for height and plan**



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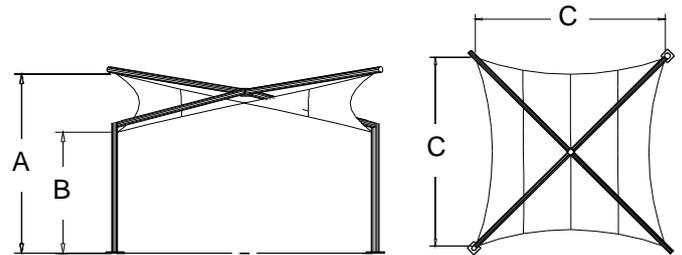


# Technical Specifications Hypar™ Range

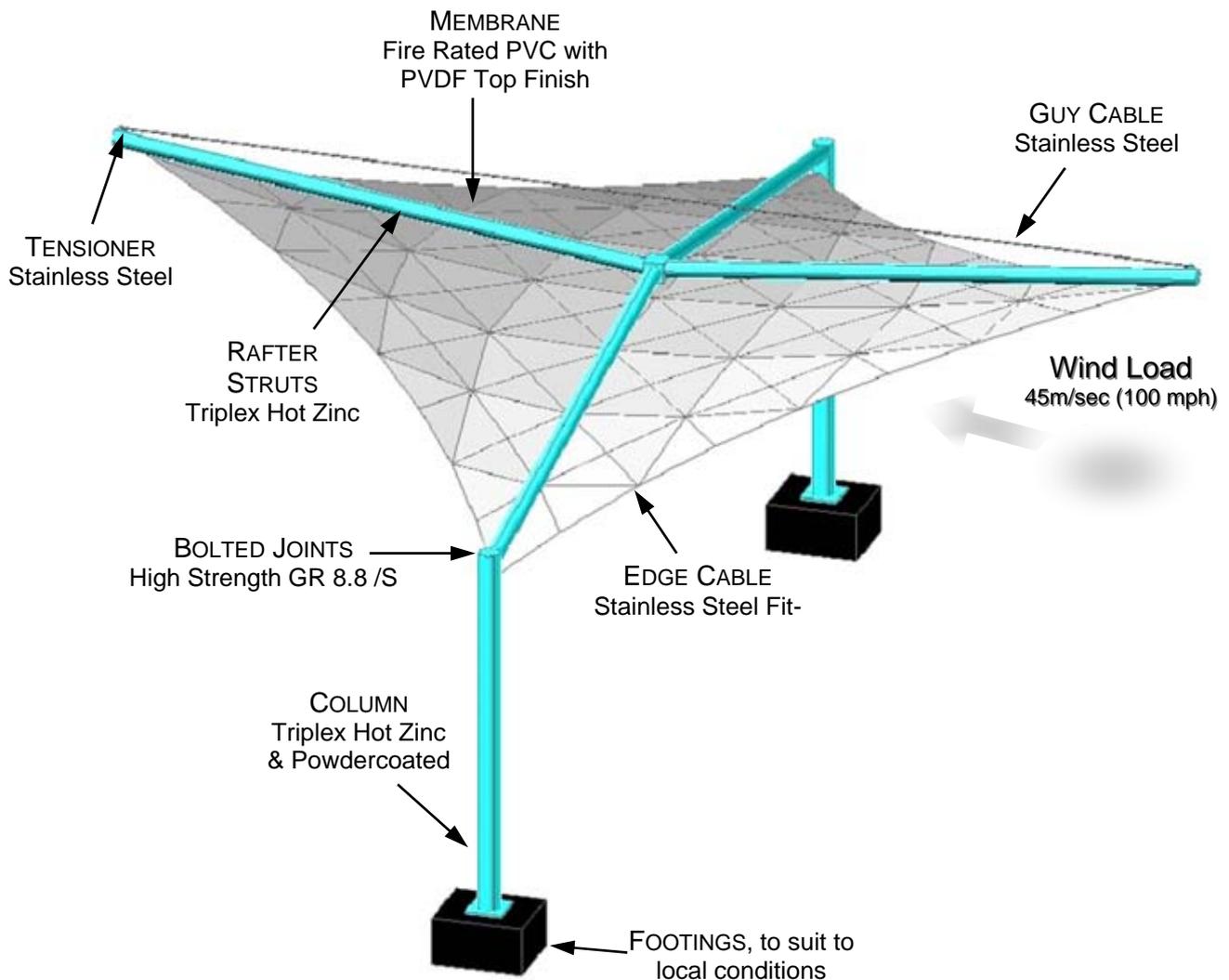
## HYPAR - H\*14, H\*19, H\*25, H\*32

**Wind Rating** : 45m/sec (100mph)  
Exposure B to ASCE 7

**Plan Areas** : H\*14 - 7 sq.m (75 sq.ft)  
H\*19 - 16 sq.m (172 sq.ft)  
H\*25 - 28 sq.m (301 sq.ft)  
H\*32 - 44 sq.m (474 sq.ft)



TYPE	A	B	C
H*14	3128 mm 10' 3"	2500 mm 8' 2"	2900 mm 9' 6"
H*19	3450 mm 11' 4"	2500 mm 8' 2"	4330 mm 14' 10"
H*25	3771 mm 12' 4"	2500 mm 8' 2"	5760 mm 18' 11"
H*32	4090 mm 13' 5"	2500 mm 8' 2"	7160 mm 23' 6"



Flexshade® Hypar™ can be designed to suit specific customer requirements for height and plan dimension.

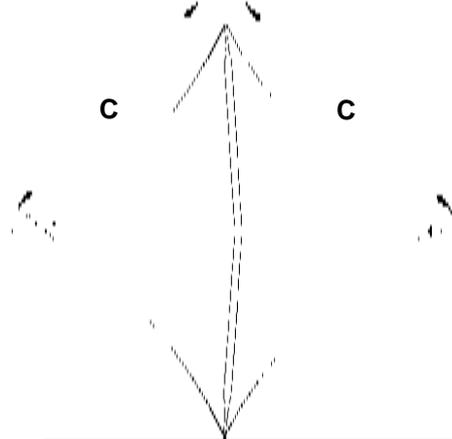
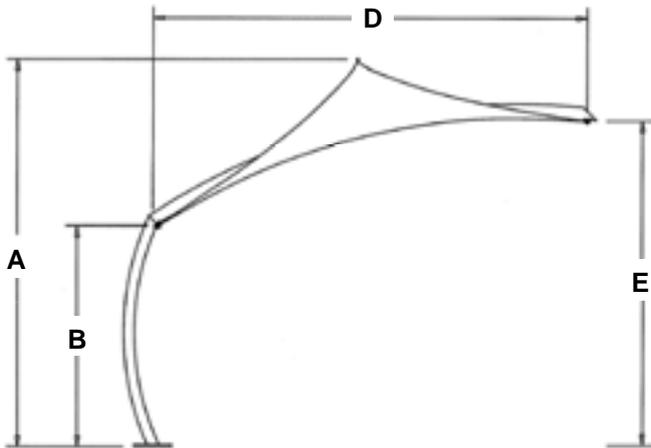
# FLEXSHADE<sup>®</sup>

# Quad<sup>™</sup>

- Features:**
- ✘ Fire Rated PVC with PVDF Top Finish.
  - ✘ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✘ Stainless Steel Cables & Fittings.
  - ✘ Minimal Footings for Area Covered.
  - ✘ Designed to ASCE7 and AS1170 Code and to comply with other codes worldwide for 145km/hr (90mph) wind speed.

## Quad<sup>T</sup> Series

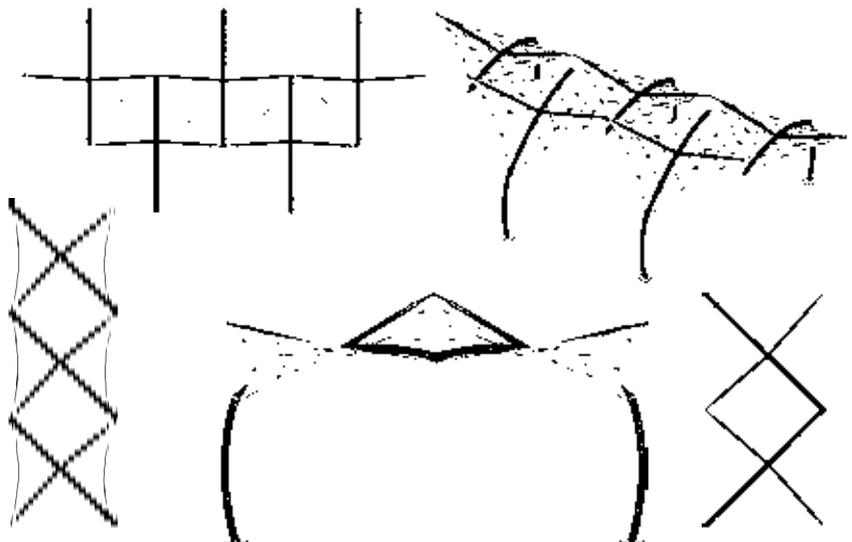
## Square Module Quad<sup>™</sup>



SHIPPING							
TYPE	*A	*B	*C	*D	*E	DIMENSIONS	WEIGHT
Quad 2.0M	3425	2100	2000	2830	3070	3010 x 420 x 475 mm	163 kg
Quad 3.0M	3573	2100	3000	4143	3090	4200 x 420 x 475 mm	235 kg
Quad 4.0M	4200	2490	4000	5560	3705	3010 x 525 x 525 mm	446 kg

## Quad<sup>™</sup> Links

Flexshade<sup>®</sup> Quad<sup>™</sup> modules can be connected to provide weatherproof cover.



Flexshade<sup>®</sup> Quad<sup>™</sup> can be supplied with membrane on top or below the steel.



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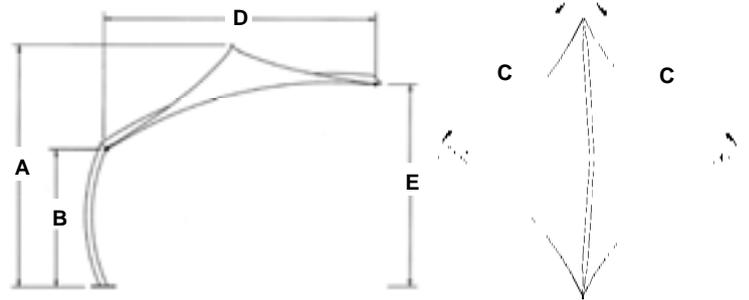


# Technical Specifications Quad™ Range

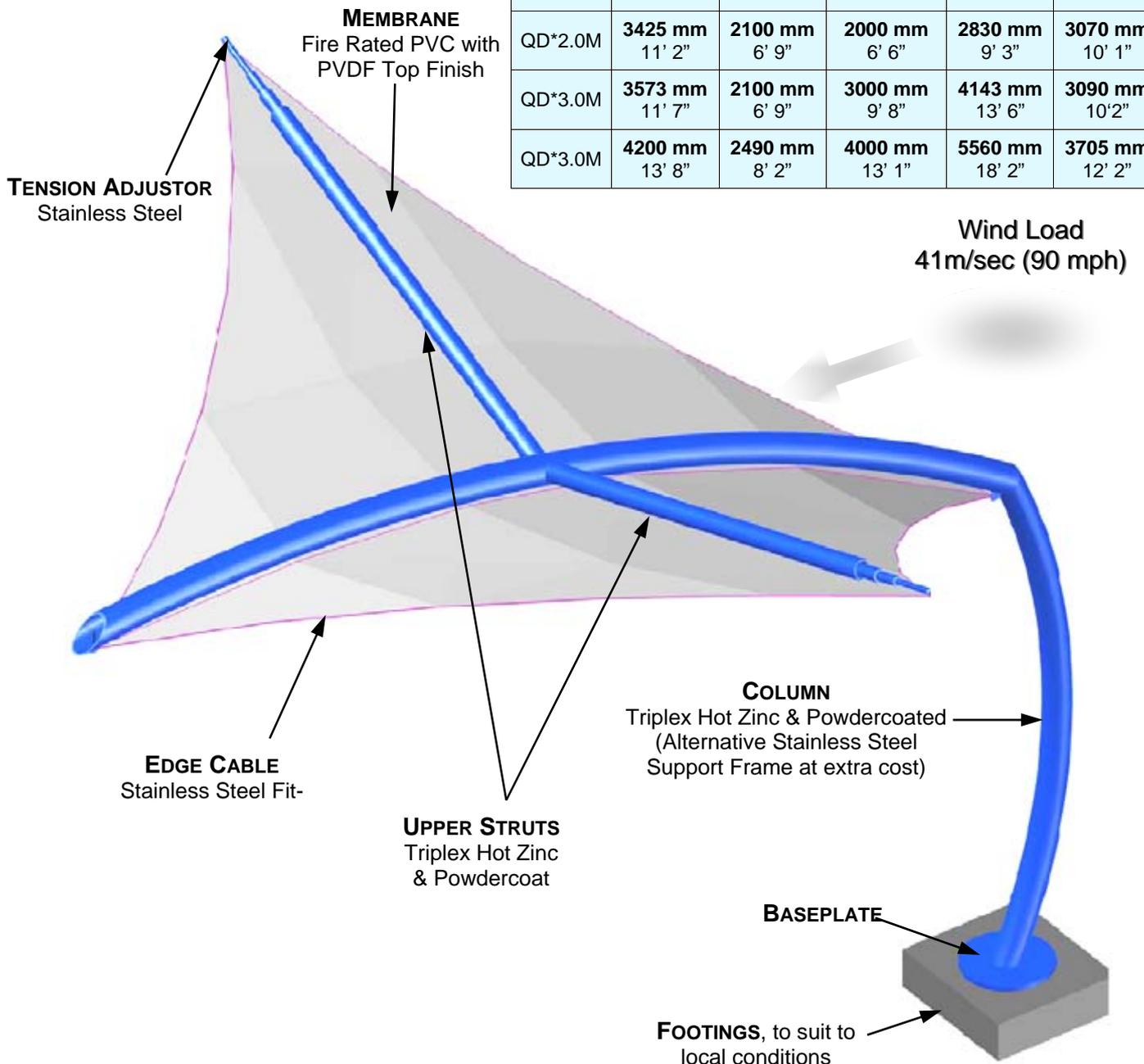
**QD 2.0M, QD 3.0M, QD 4.0M**

**Wind Rating:** 41m/sec (90mph)  
Exposure B to ASCE 7

**Plan Areas :** QD\*2.0M - 3.5 sq.m (38 sq.ft)  
QD\*3.0M - 8.0 sq.m (86 sq.ft)  
QD\*4.0M - 14.1 sq.m (152 sq.ft)



TYPE	A	B	C	D	E
QD*2.0M	3425 mm 11' 2"	2100 mm 6' 9"	2000 mm 6' 6"	2830 mm 9' 3"	3070 mm 10' 1"
QD*3.0M	3573 mm 11' 7"	2100 mm 6' 9"	3000 mm 9' 8"	4143 mm 13' 6"	3090 mm 10' 2"
QD*4.0M	4200 mm 13' 8"	2490 mm 8' 2"	4000 mm 13' 1"	5560 mm 18' 2"	3705 mm 12' 2"



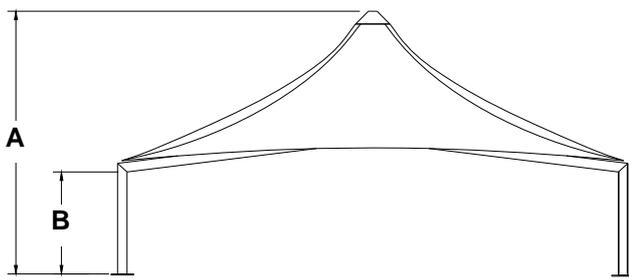
Flexshade® Quad™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE® Tetra™

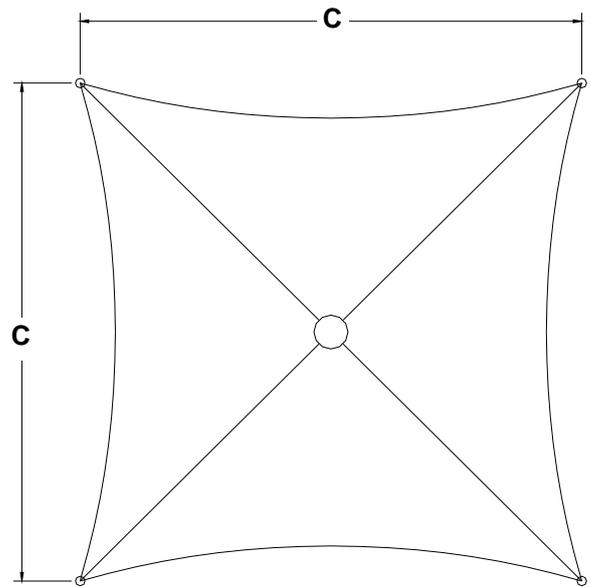
- Features:**
- ✘ Fire Rated PVC with PVDF Top Finish.
  - ✘ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✘ Stainless Steel Cables & Fittings.
  - ✘ Minimal Footings for Area Covered.
  - ✘ Designed to ASCE7 and AS1170 Code and to comply with other codes worldwide for 160km/hr (100mph) wind speed.

## Tetra™ Series

## Curved Edge T\*16, T\*25



✘ T\*25 shown to Scale



TYPE	*A	*B	*C
<b>T*16</b>	3994 mm 13' 1"	2400 mm 7' 10"	5000 mm 16' 5"
<b>T*25</b>	5175 mm 16' 11"	2500 mm 8' 2"	8815 mm 28' 11"



Flexshade® Tetra™ can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Tetra™ Range

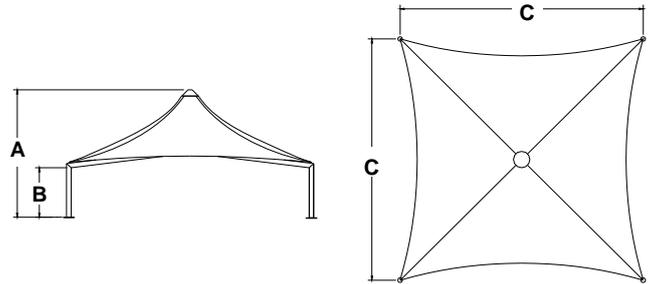
## TETRA CURVED EDGE- T\*16, T\*25

**Wind Rating** : 45m/sec (100mph)  
W45 to AS1170.2  
Exposure B to ASCE 7

**Point Load** : 1kN (225lbf) at Corner

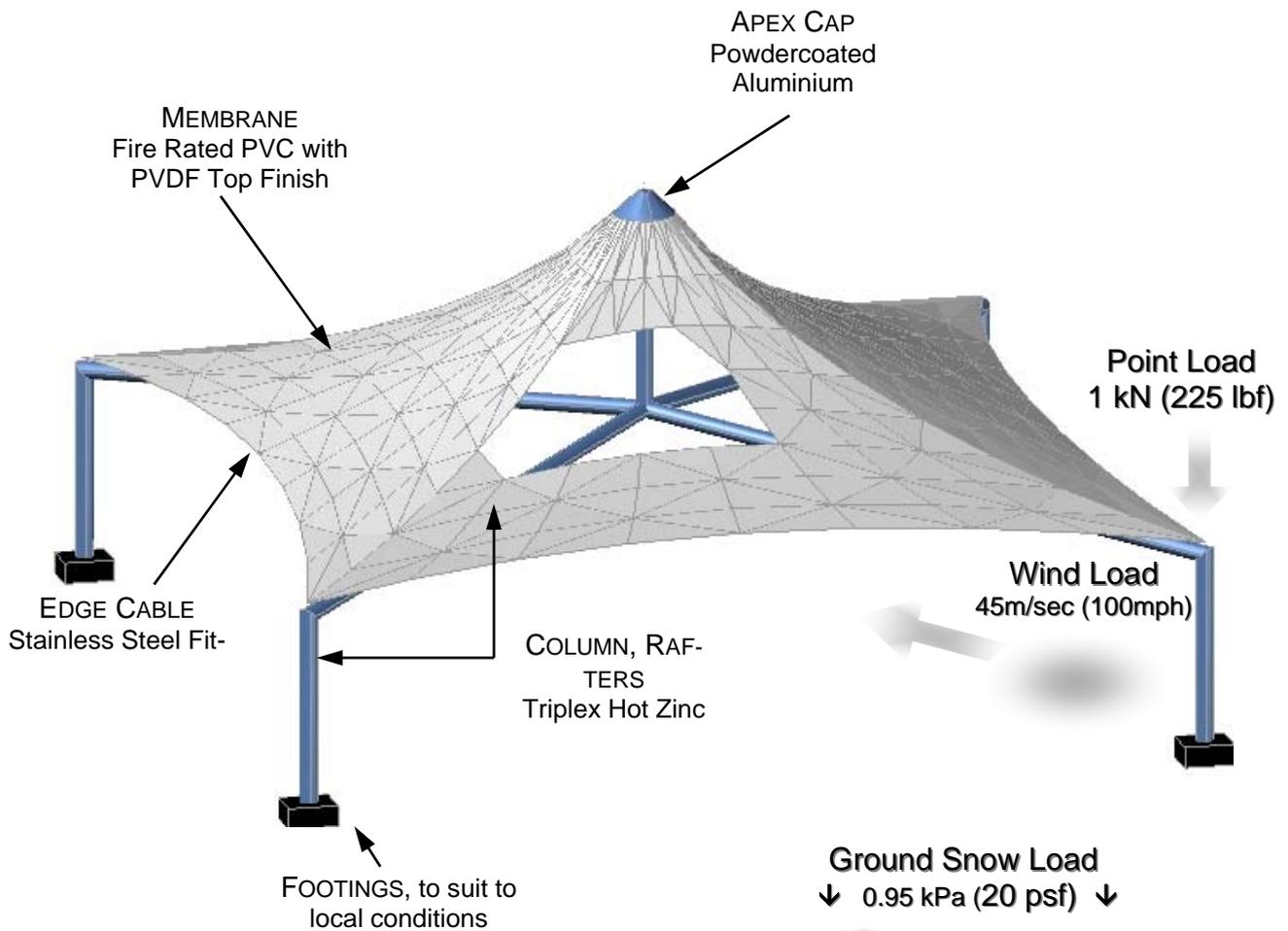
**Snow Load** : 0.95 kPa (20 psf )  
Ground Snow Load

**Plan Areas** : T\*16 - 22 sq.m (242 sq.ft)  
T\*25 - 63 sq.m (677 sq.ft)



TYPE	A	B	C
T*16	3994 mm 13' 1"	2400 mm 7' 10"	5000 mm 16' 5"
T*25	5175 mm 16' 11"	2500 mm 8' 2"	8815 mm 28' 11"

□ T\*25 shown to Scale



Flexshade® Tetra™ can be designed to suit specific customer requirements for height and plan dimension.

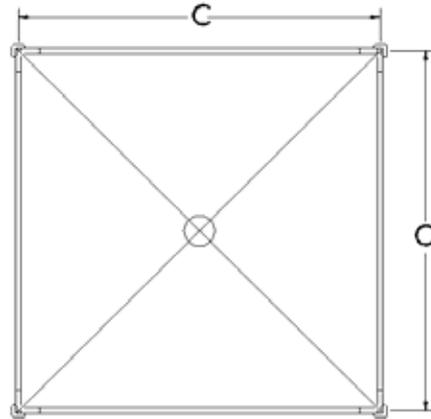
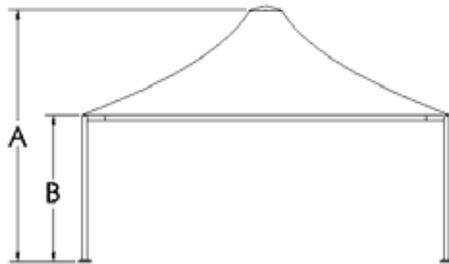
# FLEXSHADE<sup>®</sup>

TM

- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other codes worldwide for 160km/hr (100mph) wind speed.

## TetraMC<sup>TM</sup> Series

## Straight Edge Single



TYPE	*A	*B	*C
T*7MC	4500 mm 14' 9"	2500 mm 8' 2"	7000 mm 22' 11"
T*6MC	4400 mm 14' 5"	2500 mm 8' 2"	6000 mm 19' 8"
T*5MC	4000 mm 13' 1"	2500 mm 8' 2"	5000 mm 16' 5"
T*4MC	3765 mm 12' 4"	2500 mm 8' 2"	4000 mm 13' 1"



Flexshade Tetra<sup>TM</sup> can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Tetra™ Range

## TETRA SINGLE- T7, T6, T5, T4MC

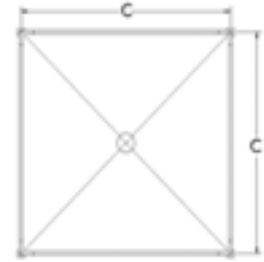
**Wind Rating** : 45m/sec (100mph)  
W45 to AS1170.2  
Exposure B to  
ASCE 7

**Point Load** : 1kN (225lbf) at  
Corner

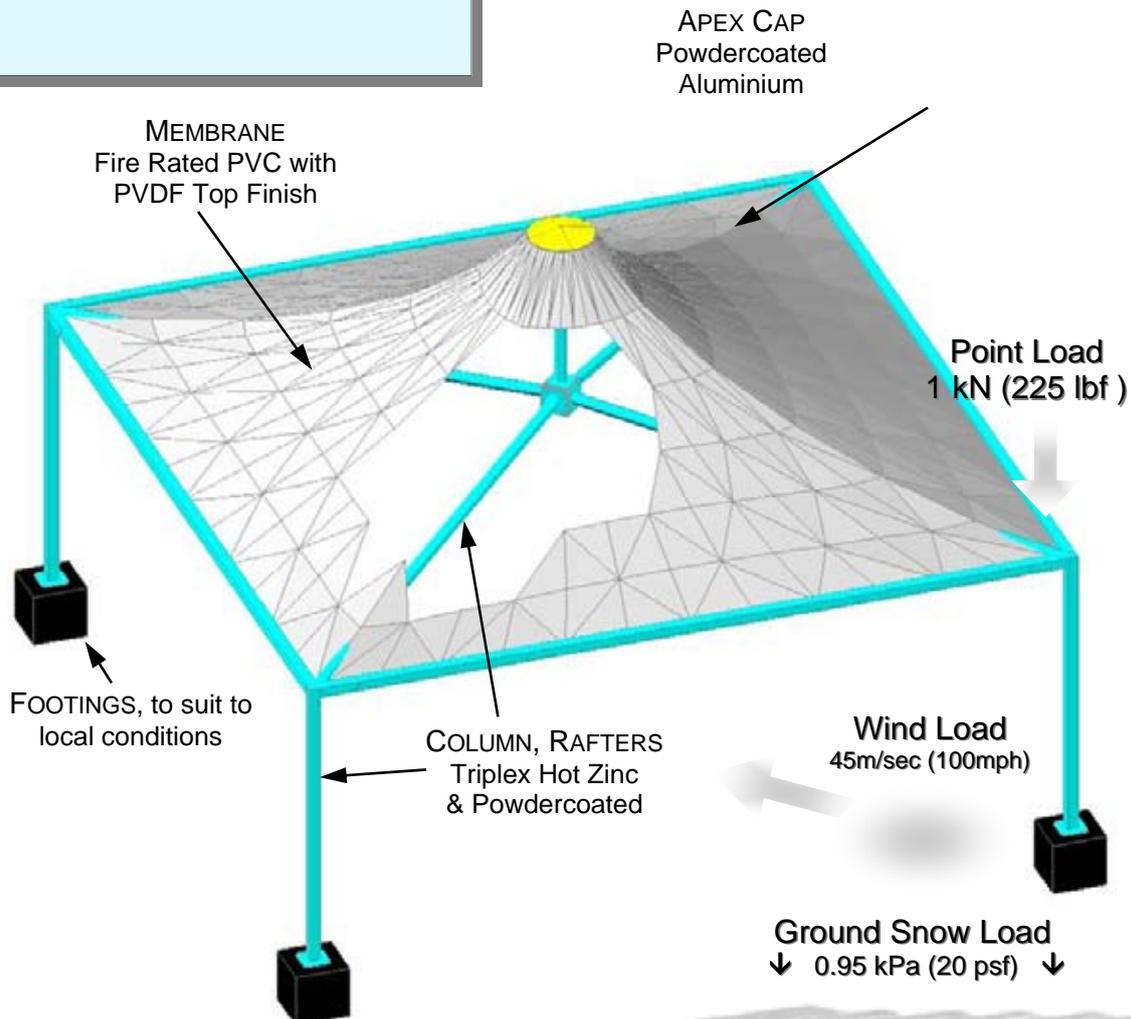
**Snow Load** : 0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** :

T7 MC- 48.5 sq.m (524sq.ft)  
T6 MC- 35.5 sq.m (384sq.ft)  
T5 MC- 24.5 sq.m (266sq.ft)  
T4 MC- 16.5 sq.m (169sq.ft)



TYPE	A	B	C
T7MC	4500mm 14' 9"	2500 mm 8' 2"	7000 mm 22' 11"
T6MC	4400mm 14' 5"	2500 mm 8' 2"	6000 mm 19' 8"
T5MC	4000mm 13' 1"	2500 mm 8' 2"	5000 mm 16' 5"
T4MC	3765mm 12' 4"	2500 mm 8' 2"	4000 mm 13' 1"



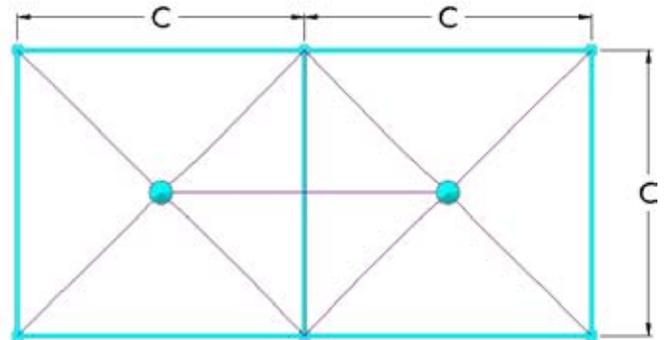
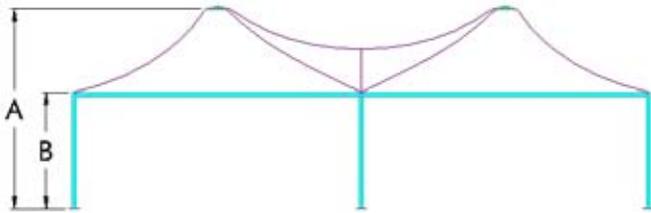
Flexshade® Tetra™ can be designed to suit specific customer requirements for height and plan dimension.

# FLEXSHADE<sup>®</sup> TetraMC<sup>™</sup>

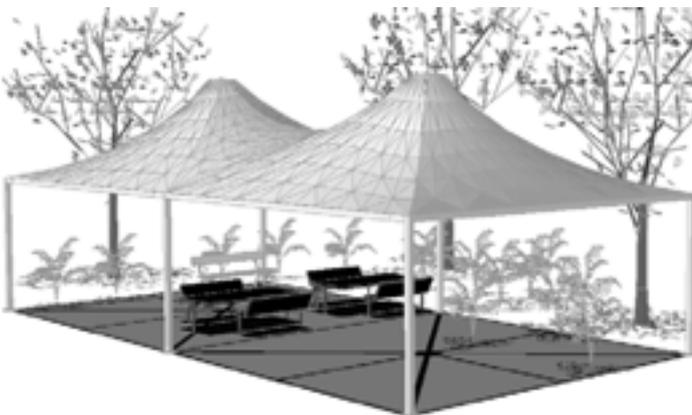
- Features:**
- ✦ Fire Rated PVC with PVDF Top Finish.
  - ✦ Hot Zinc & Powder Coated Steelwork. (Alternative Stainless Steel Support Frame)
  - ✦ Stainless Steel Cables & Fittings.
  - ✦ Minimal Footings for Area Covered.
  - ✦ Designed to ASCE7 and AS1170 Code and to comply with other codes worldwide

## TetraMC<sup>™</sup> Series

### *Straight Edge Twin*



TYPE	*A	*B	*C
<b>T7MC</b>	4500 mm 14' 9"	2500 mm 8' 2"	7000 mm 22' 11"
<b>T6MC</b>	4400 mm 14' 5"	2500 mm 8' 2"	6000 mm 19' 8"
<b>T5MC</b>	4000 mm 13' 1"	2500 mm 8' 2"	5000 mm 16' 5"
<b>T4MC</b>	3765 mm 12' 4"	2500 mm 8' 2"	4000 mm 13' 1"



Flexshade Tetra<sup>™</sup> can be designed to suit specific customer requirements for height and plan dimension.



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# Technical Specifications Tetra™ Range

## TETRA TWIN - T7, T6, T5, T4MC

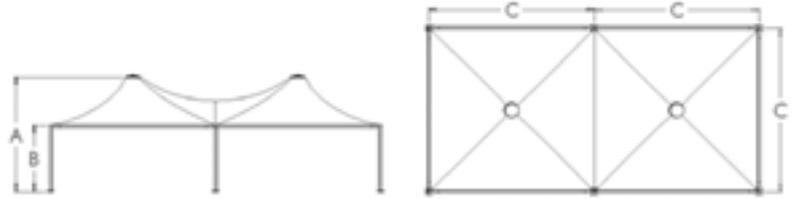
**Wind Rating** : 45m/sec (100mph)  
W45 to AS1170.2  
Exposure B to  
ASCE 7

**Point Load** : 1kN (225lbf) at  
Corner

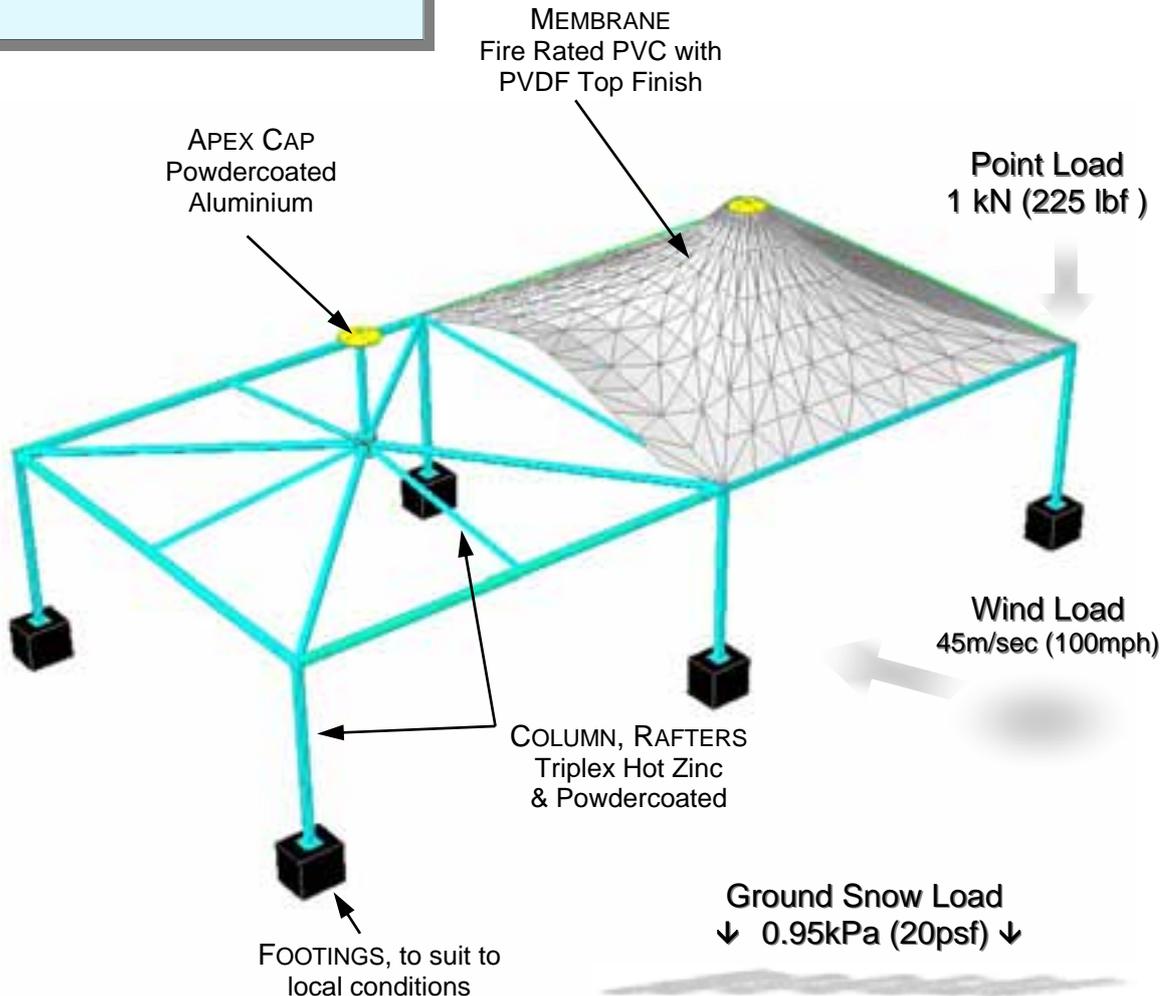
**Snow Load** : 0.95 kPa (20 psf)  
Ground Snow Load

**Plan Areas** :

T7MC - 97.4 sq.m (1048 sq.ft)  
T6MC - 71.5 sq.m (769 sq.ft )  
T5MC - 49.5 sq.m (532 sq.ft )  
T4MC - 31.5 sq.m (339 sq.ft )



TYPE	A	B	C
T7MC	4500mm 14' 9"	2500 mm 8' 2"	7000 mm 22' 11"
T6MC	4400mm 14' 5"	2500 mm 8' 2"	6000 mm 19' 8"
T5MC	4000mm 13' 1"	2500 mm 8' 2"	5000 mm 16' 5"
T4MC	3765mm 12' 4"	2500 mm 8' 2"	4000 mm 13' 1"

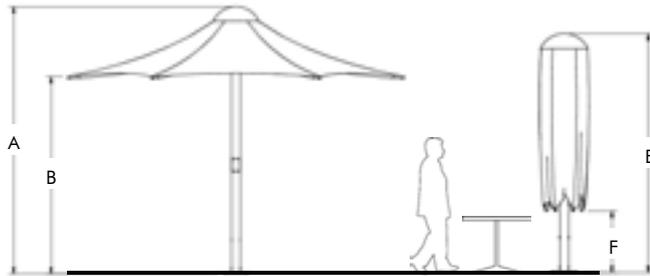
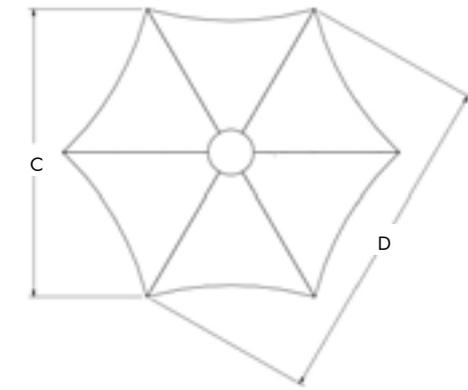


Flexshade® Tetra™ can be designed to suit specific customer requirements for height and plan dimension.

Introducing



## Retractable Shade



#TYPE	*A	*B	*C	*D	*E	*F
Solarflex *45RT	3740	2680	3950	4560	3140	815
Solarflex *45R	3310	2328	3950	4560	2710	385
Solarflex *50R	3310	2302	4330	5000	2710	168
Solarflex *55R	3490	2456	4763	5500	2890	98
Solarflex *60R	3722	2582	5198	6000	3122	80

All dimensions in mm



♦ The SLX45RT model retracts above standard table height.

The Solarflex™ retractable solar powered shade, is a superb advancement in sun and weather protection.

Engineered by experts in shade structure technology, Solarflex™ combines innovative design with robust field tested components.

Solarflex™ is completely solar powered and self-contained. It needs no mains power to open and close at the touch of a remote control button.

In less than 2 minutes, Solarflex™ can be fully extended or retracted to control sun and weather in the daytime; or provide night lit spaces using optional solar powered LED lighting.

The solar power unit is modular and interchangeable, and the tubular drive motor a standard of the industry.

Solarflex™ is a true "plug and play" solution. Fully assembled and tested, each unit is ready to install on a suitable deck, slab or footing.

A 10 year structural warranty is standard.\*

### Colours

Frame: All RAL/Dulux powdercoat colours  
Membrane: Up to 40 standard colours

# Custom sizes can be engineered to client requirements.

\* Manufacturers warranty on tubular motors (5 years) and modular power unit components (1 year).



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Email: sales@flexshade.com Web: www.flexshade.com



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Web: [www.tensionspan.com](http://www.tensionspan.com)

