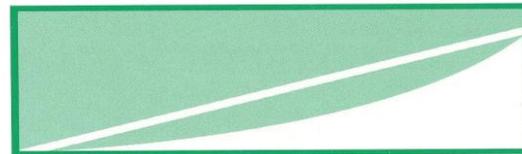


BARKERS Marquees

Fabric Engineering at its best



TRADITIONAL MARQUEE AND CLEARSPAN FRAME MARQUEES TECHNICAL SPECIFICATION AND CERTIFICATION

FIRE RETARDENCY CERTIFICATION

We use a wide variety of materials for tent manufacture, including PVC, canvas and polycotton for the roof and wall covers, polyester blends for the Linings, including Trevira CS and Fidion. PVC and lining materials are inherently Fire retardent, for canvas and polycottons' the treatment is included in the water and rot proofing stage of the manufacturing process; tests have shown that the fire retardency lasts as long as the useful life of the cloth.

Fire retardency Standards -

UK - BS 5438 test 2a and 2b

France - NFP 92503, Classification M2

Germany - DIN 4102 B1

USA - NFPA 701 test 5903

We have a current **MUTA CERTIFICATE** for fire retardency standards laid down in the code of practise for Marquee Hirers, Certificate No. 151/1996. This is recognised by UK fire officers as conforming to Home Office circular DCOL/14/1995 (copy of the 1996 certificate overleaf).

Fire retardency certificates are available for specific fabrics if required; for sales of tents these will be provided automatically.

All Marquee and Tent panels are marked with :

- Our fabric supplier's name and product specification.
- An internal production order number and date of production.
- The fire retardency standards attained by the panel
- The purchaser to fill in the first date of use, **it is from this time that the certification is valid.** The fabric panel or a section from the same batch must be retested after 4 years use to retain its' certification.

This is line with the **MUTA CODE OF PRACTISE** for Marquee and Tent fabric panels. _____



The Made-Up Textiles Association

Marquee Hire Stock Safety Certificate no: 151/1996

This is to certify that the hire stock of:

C F BARKER & SONS (MARQUEES) LTD

meets the standards laid down by the MUTA Code of Practice for Marquee Hirers and Home Office requirements expressed in circular DCOL/14/1995 to Chief Fire Officers.

Details of the above mentioned hire stock and current fire test certificates are recorded by the Association and are subject to inspection and verification.

The above mentioned company appears on a list of marquee contractors supplied to the Fire Safety Division of the Home office, Horseferry House, Dean Ryle Street, London SW1P 2AW Tel: 0171 217 3000

This certificate is valid from 1 January 1996 - 31 December 1996

M J Bunting
MUTA Safety Inspector

M P Skelding MA (Oxon.)
Secretary

This certificate remains the property of the Made-Up Textiles Association Ltd and must be returned on demand.

The Made-Up Textiles Association, 42 Heath Street, Tamworth, Staffordshire B79 7JH

C F Barker & Sons (Marquees) Ltd trading as BARKERS Marquees

Company No: 494781

Office Address - 1 St Katharines Road, Caterham, Surrey CR3 6ST

VAT No. 217 8275 50

Works address - deliveries / collections - Unit B5, Flower Farm, Oxted Road, Godstone, RH9 8DE

Tel 0044 (0)1883 337099 or 7798 904076

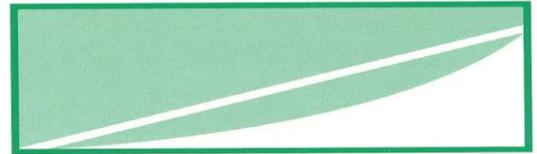
Fax 05601 136964

Email: sales@barkersmarquees.com

Website: www.barkersmarquees.com

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WINDLOADING CERTIFICATION

Existing standards

Europe - TC 152
UK - Generally accept a 30% amelioration off CP3 Building regulations
The local authority will usually have their own guide lines.

Wind speed

28m / second
35.5m / second

FRAME TENTS -

Analysis was undertaken by Buro Happold Consulting engineers, from 1989 to 1990, with the results summarised as follows:

Modulux / Standard Frame Tents- 3m to 12.3m wide

Wind speed

36m / second

Width

3m wide
4.5m wide
6.1m wide
9.2m wide
9.2m wide
12.3m wide
12.3m wide

Bay length

3m and 4.5m bays
3m and 4.5m bays
3m and 4.5m bays
3m bays
4.5m bay
3m bay
4.5m bay

32m / second

28m / second

Wide span Frame tent Structures 12.3m to 18m wide

36m / second

12.3m wide
15m wide
18m wide
18m wide

3m and 4.5m bays
3m and 4.5m bays
3m bays
4.5m bays

32m / second

Report No. 110/350/D4306 July 1991

Frame tents 3m- 12.3m wide (modulux and Standard) Section CFB6 - Summary is best resolved by " Using the accompanying graph to determine the design wind speed.... the bending moment is less than 12.8knm for the relevant windspeed" (see overleaf).

Frame tents 12m - 18m wide, Section CFB5 - We can conclude that the Frame is suitable for 36m/ sec wind speeds for 15m width with 4.5m bays.

Buro Happold

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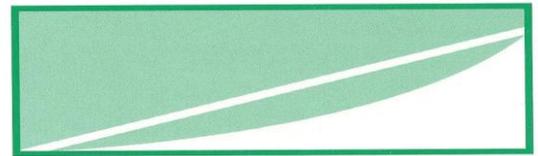
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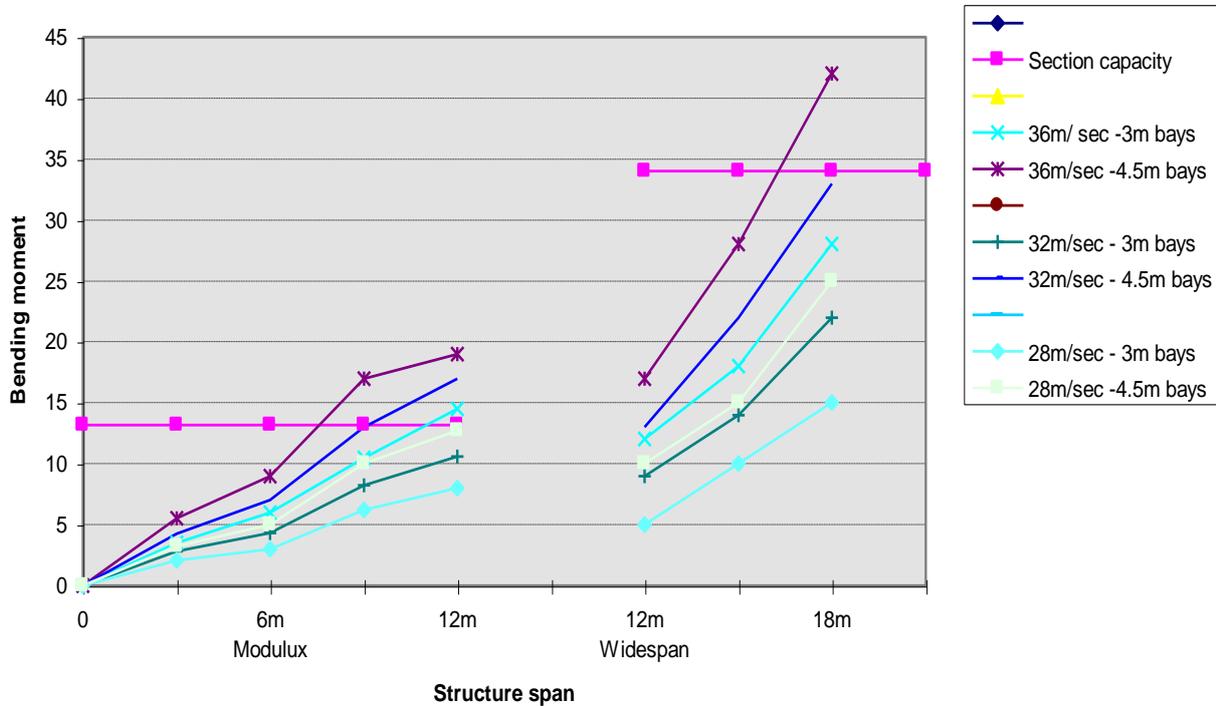
Website: www.barkersmarquees.com

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Barkers Marquees' Frame tent Windloading - Section capacity vs Windspeed



WINDLOADING CERTIFICATION

TRADITIONAL MARQUEES

Work was undertaken by Buro Happold in 1992, firstly for a 40' Marquee being tested and certified, the first Company in the UK to achieve this for a "Pole Tent"; the 20' and 30' wide Marquees were tested and approved the following year.

36m / second windspeed	6.1m wide	3m, 4.5m and 6.1m bays
	9.2m wide	3m, 4.5m and 6.1m bays
	12.3m wide	3m, 4.5m and 6.1m bays

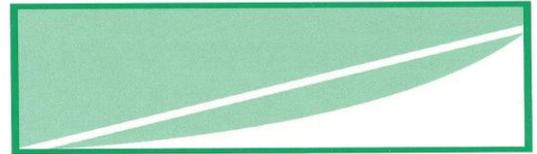
Report No.- BH3131 Mo1 29/6/93

6.1m Marquee - "all the components of the 20 foot marquee are suitable to withstand the design loads recommended by British standard CP3.....I might add that the 20' marquee is over designed to some extent"

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9.2m Marquee - "all the components of the 30 foot marquee are suitable to withstand the design loads recommended by British standard CP3"

Report No. - BH2525/MO1 14/01/93

12.3m Marquee - "The design submitted for the 80'x 40' Marquee has been analysed to loads resulting from 36m/sec wind speed...The elements have been shown to withstand the forces generated from these loading conditions with an adequate factor of safety"

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