

Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
 TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779

Risk Assessment – Construction of Marquee Frame

| | |
|------------------------------------|--|
| Specific Legal Requirements | Health & Safety at Work Act 1974 Provision and use of Work Equipment 1999 Workplace Regulation 1992 Construction (Health, Safety & Welfare) Regulations 1996 Work at Height Regulations 2005 |
| Frequency of Work Activity | Daily |
| Staff Involved | All construction staff |

| Nature of Hazard | Persons at Risk | Potential Outcome | Current Precautions | Residual Risk |
|---------------------|---|-------------------|--|---------------|
| Collapse of ladders | Staff | Major Injury | Ladders supplied to conform to BS EN131 Ladders regularly inspected to ensure they are free from damage and defects Ladders provided with stabilisers Step ladders only used when fully open | LOW |
| Fall from height | Staff | Major Injury | Selection of staff to ensure they are confident of working at height Training of staff in safe use of ladders (carrying, using etc) Planning of work to ensure that ladders are the most appropriate means of access, if work involves extensive handling of materials, or working for a long period aloft, then a tower scaffold will be used. Ladders properly erected (one out for every four up) Ladders tied off or footed to prevent slippage Ladders should only be used when there are two people on site Where it is required that ladders will be used on traffic routes they will be positioned to prevent collision or people being struck by falling materials At least three rungs should clear above the highest point used for work Over reaching from ladders will be avoided | LOW |
| Fall of materials | Staff Other Contractors Public | Major Injury | Planning to prevent ladders being used above traffic routes. If necessary to prevent injury, erect barriers or post someone to prevent persons entering the area of work. Keep materials which have to be carried to a minimum. | LOW |

Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
 TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779

| Nature of Hazard | Persons at Risk | Potential Outcome | Current Precautions | Residual Risk |
|--------------------------|-----------------|-------------------|--|---------------|
| Manual handling of loads | Staff | Major Injury | Aluminium extrusions delivered to a point as close as practicable to the installation point to reduce handling and carrying Large aluminium lengths to be carried by two people Lifting and handling of ladders when repositioning | LOW |

| | | | | |
|--------------------------|------------------|-----------------------------------|--|-----|
| Tensioning of wires | Staff | Major Injury | Bracing wires will be properly secured to structure either at points designed for attachment or using properly designed fittings. Tensioning work carried out by trained staff Ladders will be positioned so that tensioning work can be carried out without over reaching. Wires sufficiently tensioned to provide structural support but not over tensioned, which may distort the structure. | LOW |
| Electrical hazards | Staff | Major Injury Fire | Planning of work to avoid electrical services (lighting, cabling) Location of ladders to prevent cables being trapped between ladders and structure | LOW |
| Injuries to hands & feet | Staff | Minor Injury | Personal Protective Equipment issued to all staff. First Aid Box available | LOW |
| Slips & trips | Staff Public | Minor Injury | Area surrounding marquee should be kept free of debris. Equipment to be put away when not in use. | LOW |
| Underground Services | Staff Clients | Major Injury & damage to property | Underground services to be identified with clients' help/knowledge. Use utility companies to detect if client unsure. (To discuss at site visit) | LOW |
| Movement of vehicles | Staff Public | Major Injury | High Visibility clothing to be worn when necessary. Reversing to be avoided, but if necessary to be overseen by a Banksman. Sensible speed limits to be adhered to on site. Traffic routes kept clear from obstructions. | LOW |

Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779

Potential Outcome

Major injury – An injury which would be reportable, ie a fatality, fracture or an injury which resulted in the injured person being off work for more than three days. Also included is significant damage to property.

Minor injury – A cut, bruise or minor property damage.

Residual Risk

High – Imminent danger exists and the work activity should be stopped immediately.

Medium – Additional action to control hazards is required.

Low – Hazards are controlled and provided the measures stated are implemented the risk of injury is low

Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779



Wine House
West Park Ring Road
Leeds, LS18 6QJ,
England

Tel: +44 (0)113 259 1999
Fax: +44 (0)113 278 0308
Web: <http://www.bttg.co.uk/bolc>
Email: CSLeeds@bttg.co.uk

Our Ref: 27771A/3/04
Your Ref:
Order No:

22 April 2004
Page 1 of 3

Client: Mehler Haku GmbH
Edelzeller Str 44
D-36043 Fulda
Germany

Job Title: BS 7837 on One Sample of Material

Material Received: 17 March 2004

Description of Sample: One sample of material labelled ref.: FR650-2

Brief: Fire Technology Services were requested to carry out a fire test on the sample of material supplied to BS 7837

UKAS Accreditation: Our Laboratories are UKAS accredited. However, it should be noted that tests marked * are not UKAS accredited in this report. They are not included in the UKAS Accreditation Schedule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it being outside the scope of our accreditation, or subcontracted.

Testing Atmosphere: Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN 20139:1992) of 65±2% r.h. and 20±2°C.



This report is incomplete without all the pages specified above
FTS is a business centre of Advanced Materials Services Ltd. Company No. 4500550
Registered Office: Wine House, West Park Ring Road, Leeds, LS18 6QL, England.
The supply of all goods and services is subject to our conditions of sale, copies of which are available from our web site - www.bttg.co.uk/GeneralDocs/Terms&Conditions.pdf

1065
Group

Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779



Date: 22 April 2004
Our Ref: 27771A/3/04
Your Ref:
Order No:
Page 2 of 3

Mehler Haku GmbH

**FIRE TESTS ACCORDING TO BS
7837:1996**
Specification for Flammability Performance
for Textiles Used in the Construction of
Marquees and Similar Tented Structures

Date of test: 13/4/04

Conditioning

Prior to testing commencing the sample was water-soaked and then conditioned for 48 hours in an atmosphere having a temperature of $20 \pm 2^\circ\text{C}$ and a relative humidity of $65 \pm 5\%$.

Procedura

The test was carried out in accordance with the above standard. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard. Three length and three width specimens were tested.

Test 2B (bottom edge ignition) of BS 5438:1989 was used together with a flame application time of 10 seconds, as specified.

In addition, a piece of filter paper with specified characteristics was placed 55mm below the specimen to detect flaming debris.

The following parameters were measured :-

1. Duration of flaming
2. Extent of damage
3. Filter paper ignition, if applicable

Performance

The sample shall be deemed to perform satisfactorily (pass) if, for at least five of the six test specimens:

- (a) the duration of flaming does not exceed 5s after removal of the igniting flame; and
- (b) the lowest boundary of any flame does not reach the upper edge or either vertical edge; and
- (c) the filter paper does not smoulder or flame.

This report is incomplete without all the pages specified above.



Tents & Events.

AMERICA FARM, GLYNDWR ROAD, NERCWYS, MOLD, FLINTSHIRE, CH7 4AU
TEL: 01352 757278 FAX: 01352 757597 MOBILES: 07966 465944 07855 945779



**FIRE
TECHNOLOGY
SERVICES**

Date: 22 April 2004
Our Ref: 27771A/3/04
Your Ref:
Order No:
Page 3 of 3

Mehter Haku GmbH

The sample shall be deemed not to conform to BS 7837:1996 if more than two test specimens show any of the effects listed in (a) to (c) above. If two test specimens show any of the above effects then a further six specimens shall be tested. In this case, the sample shall be deemed to pass if five of the second set of six specimens performs satisfactorily.

Results

| Duration of flaming(s) | | Edge reached (Yes or No) | | Filter Paper Ignition (Yes or No) | |
|------------------------|-------|--------------------------|-------|-----------------------------------|-------|
| Length | Width | Length | Width | Length | Width |
| 0 | 0 | No | No | No | No |
| 0 | 0 | No | No | No | No |
| 0 | 2.0 | No | No | No | No |

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Comments

The results indicate that the sample met the above performance requirements.

The information contained on page no's 1/3 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by Fire Technology Services on the materials referred to.

Signed B. Mersden Date 22/04/04

Mrs. B. Mersden
Fire Technician

Signed M. N Date 22.4.04

Mr M Nunney
Group Manager

This report is incomplete without all the pages specified above.



1066
Group