TEMPORARY TENT STRUCTURE – MANUFACTURING PLAN

1. DESIGN OF FACILITIES

Valaire & Associates
25 Darling Street
Balmain NSW 2041

Principal: Trevor Valaire **Tel:** (02) 9555 8756

2. DESIGN STANDARDS

All Hurricane Structures™ are designed to Australian Standards:

- AS1170.2 1989 Wind Loads
- AS1664.2 1997 Aluminium Structures Part 2

Pages Event Equipment™ are erected in accordance to the Building Code of Australia NSW Part H102 – Temporary Structures.

3. MATERIAL / PRODUCT SPECIFICATION

a. Aluminium Extrusion

Aluminium Grade:	6005A – T5
Raw Material:	Tomago Aluminium Co Pty Ltd (AS/NZS9002 : 1994)
Extrusion:	G James Extrusion Co Pty Ltd (AS/NZS1866 / ISO 209.1.1989)

b. Fabric:

- Tissage ET Enduction Serge (Supplied by Innova Aust.)
- Ferrari SA France
- Preconstraint 702 Blockout 830gsm
- Preconstraint 702 750gsm
- Both Polyester PVC Coating coated woven fabric.

c. Flammability

Tests for flammability of material to AS1530.2 1993 carried out by:

AWTA Textile Testing Laboratory
26 Robertson Road, Kensington Vic
Tel: (03) 9371 2126 Fax: (03) 9371 2102

- Test No 7-483405-BO 19/4/99 702 Blockout
- Test No 7-483404 – BO 19/4/99 702
- Both tests comply with Building Code of Australia, New South Wales H102.8

d. Structural Steelwork

- In accordance with AS4100
- Welding in accordance with AS1554
- All steelwork hot dip galvanised in accordance with AS1650
- Rectangular and circular hollow sections to AS 1163

e. Drawing Standards

All design, including shop drawings are carried out utilising AutoCAD.

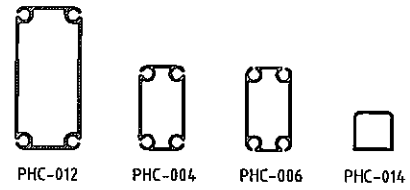
f. Quality / Inspections / Certification

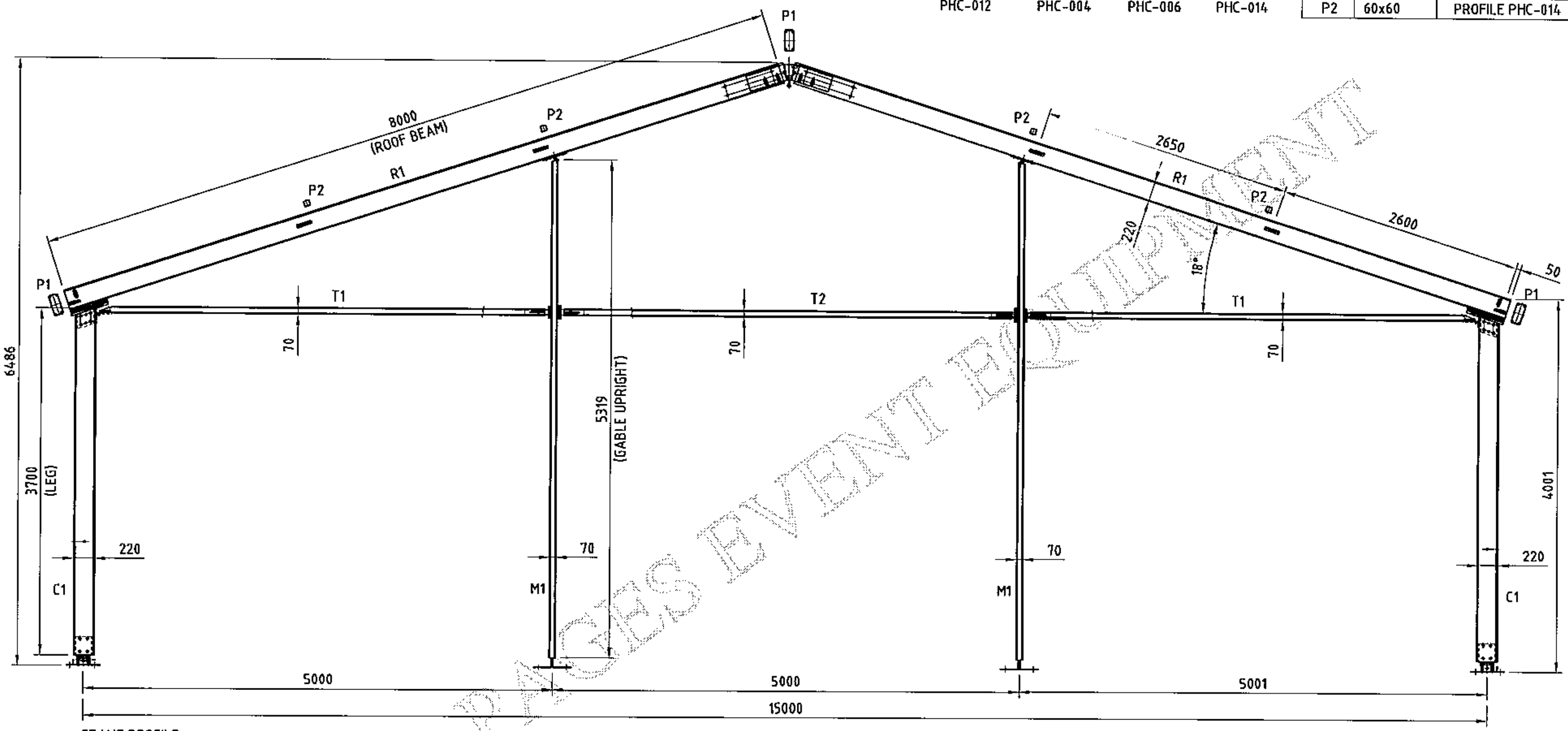
Conducted by: William Ryan B.E.M. Eng. Sc. M.I.E. Aust. C.P. Eng.
SRIV Engineering Pty Ltd
14 Weston Avenue
Beverly Hills NSW 2209

Tel/Fax: (02) 9153 6672

FRAMING MEMBER SCHEDULE

MARK	SIZE	REMARKS
C1	220x100	PROFILE PHC-012
M1	130x70	PROFILE PHC-004
R1	220x100	PROFILE PHC-012
T1	130x70	PROFILE PHC-006
T2	130x70	PROFILE PHC-006
P1	130x70	PROFILE PHC-004
P2	60x60	PROFILE PHC-014





FRAME PROFILE

PAGES EVENT EQUIPMENT

INFORMATION

No	Revision Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date
A	INFORMATION	SN	SN		

design: TREVOR JOHN AND ASSOCIATES PTY LTD
trevor g john
civil eng
building practioner
367 glen osmond road
south australia 5064
tel: 08 379 6862 fax:08 338 1762

certifier: SRIV ENGINEERING PTY LTD
structural
william fryan
b.e.m.eng.sc
m.i.e.aust. cp.eng
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Sydney, AUSTRALIA

Pages Hire Centre (NSW) Pty Ltd
26-38 Belmore Road, Punchbowl NSW 2196
T 02 9533 9400 F 02 9533 9811
E shantn@bigpond.net.au

Scale: AS SHOWN
DO NOT SCALE
Cad: S.NERCESSIAN
Checked: S.NERCESSIAN
Approved:
Date: JUNE 2005
This Drawing must not be used for Construction unless signed as Approved

Title: 15m PORTAL FRAME WITH 4.0m LEGS AND 5m BAYS

Original Size: A3
Drawing No: 15M5-4.0
Rev: A

Cad File No: C:\Hurricane Structures TMHS-STRUCTURES\15M5-4.0.dwg
Plot Date: 07 June, 2005 - 11:31 AM

valaire + associates

structural engineers

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A B.N. 66-001-920-976
20/08/03
Pages Event Hire,
26-38 Belmore Rd.,
Punchbowl. N.S.W.,2196

TO WHOM IT MAY CONCERN

Valaire and Associates have been associated with Pages Event Hire for some years and during this time have been involved in the structural analysis of many of their projects.

In more recent times we have been undertaking the structural design of tents of their own manufacture and are at present designing tents in 30, 40 and 50 m span configurations.

The most significant challenge in the design of these tents when compared with those of European origin is the much more onerous wind loading conditions experienced in Australia as evidenced in the load requirements of our codes compared with european codes. In Australia the climate varies from fully tropical to sub-tropical with the commensurate high wind velocities which reach cyclonic conditions in many locations. The other significant wind loading condition in the Australian context is that of exposure with much more of our structures exposed to more demanding terrain than that experienced in Europe. Many of our locations are next to the oceans, large fetches of water and flat undeveloped plains and this coupled with the higher wind velocities place vastly higher demands on these lightweight structures than their European counterparts.

Valaire and Associates Engineers are Post Graduate qualified structural engineers and are Chartered Members of the Australian Institution of Engineers.

All of our design is in accordance with the following Australian Standards:

A.S. 1170.0 General Principles of Design
A.S. 1170.0 Permanent, Imposed and other actions.
A.S. 1170.0 Wind Loading.
A.S. 1664.1 Aluminium Structures Part 1 Limit State Design.
A.S. 4100 Steel Structures.

Yours Faithfully

T. Valaire.

Trevor Valaire.

SRIV ENGINEERING PTY LTD
ABN 73 091 345 017

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BEVERLY HILLS
NSW 2209

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STRUCTURAL, WATER and CIVIL ENGINEERING

24 FEB 2004

Project: Pages Hire Centre
Tent & Floor Systems
Certification & Inspection

STRUCTURAL CERTIFICATE

This is to certify that SRIV Engineering Pty Ltd has been retained by Pages Hire Centre and their clients to independently check the designs of tents and floor systems provided by Pages Hire Centre and to inspect the work carried out by their employees in the erection of tents and floor systems to ensure that they comply with the requirements of the Australian Standards and that they will support the design loads.

Design checks and inspections are carried out by Accredited Certifiers on the National Professional Register for Structural Engineers.

SRIV Engineering Pty Ltd has been actively carrying out this work since June 2000 and during the Sydney Olympics inspected over a thousand tents.

W L Ryan MIEAust CPEng NPER
Director SRIV Engineering Pty Ltd