

23 January 2009

Our Ref: J28290-2

Circus Royale
PO Box 1448
GEE LONG, VIC, 3220

Email: circus@circusroyale.com.au
Attention: Mr Damian Syred

Dear Madam,

**Re: Circus Royale
Place of Public Entertainment report**

Further to your recent discussions with the undersigned, please find attached our Completed reports prepared in respect of the aforementioned project.

Should you require any further information, please do not hesitate to contact me on the number provided.

Yours faithfully



Kate Howse
Senor Consultant
Trevor R. Howse & Associates Pty. Limited

Encl.

PLACE OF PUBLIC ENTERTAINMENT

PREPARED FOR

Circus Royale

REGARDING

*Circus Royale –
Temporary Place of Public Entertainment*

REPORT REGISTER

The following report register documents the development and issue of this report and project as undertaken by this office, in accordance with the *Quality Assurance* policy of **Trevor R Howse & Associates Pty Ltd.**

Our Reference	Issue No.	Remarks	Issue Date
J28290	– 1	Completed report issued to client	15.12.2008

The format, technical content and intellectual property associated with this report remain the property of Trevor R. Howse & Associates Pty Limited, and has been prepared and may only be used, for the development / buildings the subject of this report.

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ANNEXURES

- Annexure “A” – Alternative Building Solution**
- Annexure “B” – Emergency Evacuation & Management Procedures**
- Annexure “C” – Architectural (part) Plans**

1.0 INTRODUCTION

1.1 GENERAL

This “Place of Public Entertainment” report has been prepared at the request of Circus Royale, and relates to the proposed temporary Place of Public Entertainment structure, the Circus Royale.

This report is based upon and limited to, the information depicted in the documentation provided for assessment, and does not make assumptions regarding “design intention” or the like.

From this documentation, it is understood that the proposed development encompasses –

- (a) The erection of a temporary tent structure, incorporating internal demountable tiered seating

1.2 REPORT BASIS

The content of this report reflects –

- (a) Regulation 98C and Schedule 3A in the Environmental Planning & Assessment Regulation 2000 (EP&A Regulation);
- (b) The Building Code of Australia 2008 (BCA 2008);
- (c) Architectural documentation provided by Circus Royale (refer Annexure “C”).

1.3 EXCLUSIONS

It is conveyed that this report should not construed to infer that an assessment for compliance with the following has been undertaken –

- (a) Structural and services design documentation;
- (b) General building services (i.e. passenger lifts);
- (c) The individual requirements of service providers (i.e. Telstra, Sydney Water, Energy Australia);
- (d) The individual requirements of the WorkCover Authority;
- (e) Those provisions of BCA 2008 not relevant to temporary places of public entertainment;
- (f) Disability Discrimination Act 1992 (DDA).

1.4 REPORT PURPOSE

Temporary places of public entertainment must comply with the applicable provisions of Regulation 98C, as contained within the EP&A Regulation.

This report has been prepared to identify the extent to which the proposed design documentation complies with the relevant provisions of this Regulation, as also activates Schedule 3A from the EP&A Regulation and Parts B1 and H102 of BCA 2008.

Assessment of the proposed design considers each of the relevant requirements, and identifies such as either –

- (a) Being complied with; or
- (b) Not being complied with; or
- (c) Requiring the provision further detail; or
- (d) Not being relevant to the particular building works proposal.

The status of the design, in terms of these four (4) categories, is summarised within Part 3 of this report.

Where prescriptive non-compliance is identified, suitable recommendations to remedy the non-compliance shall be detailed in Part 4.

In instances where insufficient detail exists, summary of the information required from the project team shall also be outlined in Part 4.

2.0 BUILDING DESCRIPTION

2.1 GENERAL

In the context of the Building Code of Australia (BCA), the subject development is described within items 2.2 – 2.6 below.

2.2 RISE IN STOREYS (CLAUSE C1.2)

Having a rise in storeys of one (1)

2.3 BUILDING CLASSIFICATION (CLAUSE A3.2)

Being of single classification, namely: –

- (a) Class 9b – Assembly

2.4 EFFECTIVE HEIGHT (CLAUSE A1.1)

Having an effective height not exceeding 25 metres.

2.5 TYPE OF CONSTRUCTION (TABLE C1.1)

Based upon the rise in storeys and classification contained within the building, compliance is required with the fire rating requirements of Type C Construction.

2.6 FLOOR AREA AND VOLUME LIMITATIONS

- (a) The building is subject to the following maximum fire compartment floor area and volume limits for Type C Construction: –

□	Class 9b	–	Floor area	–	3,000 m ²
		–	Volume	–	18,000 m ³

3.0 POPE ASSESSMENT – SUMMARY

3.1 GENERAL

The tables contained within items 3.2 – 3.5 below summarise the compliance status of the proposed design in terms of Regulation 98C and Schedule 3A of the EP&A Regulation, and Parts B1 and H102 of BCA 2008.

For those instances of either “prescriptive non-compliance” or “insufficient detail”, a detailed analysis and commentary is provided within Part 4.

3.2 REGULATION 98C – CONDITIONS APPLYING TO USE OF BUILDINGS AS POPE

EP&A Regulation reference	Complies	Does not comply	Detail required	Not relevant
Sub-clause (1)				✓
Sub-clause (2)			✓	
Sub-clause (3)				✓
Sub-clause (4)			✓	
Sub-clause (5)				✓

3.3 SCHEDULE 3A – PLACES OF PUBLIC ENTERTAINMENT

EP&A Regulation reference	Complies	Does not comply	Detail required	Not relevant
Sub-clause 1 – dangerous entertainment				✓
Sub-clause 2 – stage management				✓
Sub-clause 3 – proscenium safety curtains				✓
Sub-clause 4 – projection suites				✓
Sub-clause 5 – marking of aisles and cross-overs				✓
Sub-clause 6 – seating in rows			✓	
Sub-clause 7 – seating in paths to designated exit	✓			
Sub-clause 8 – aisle lights to be on			✓	
Sub-clause 9 – locks				✓
Sub-clause 10 – rope barriers				✓
Sub-clause 11 – emergency evacuation plans	✓			
Sub-clause 12 – council may require fire safety info				✓
Sub-clause 13 – upholstery, curtains or blinds	✓			

3.4 PART B1 – STRUCTURAL PROVISIONS

BCA reference	Complies	Does not comply	Detail required	Not relevant
B1.1 – resistance to actions			✓	
B1.2 – determination of individual actions			✓	
B1.3 – loads			✓	
B1.4 – materials and form of construction			✓	

3.5 PART H102 – TEMPORARY STRUCTURES

BCA reference	Complies	Does not comply	Detail required	Not relevant
H102.3 – location of exits	✓			
H102.4 – exits to be provided			✓	
H102.5 – vertical clearances for exits			✓	
H102.6 – curtains across exits				✓
H102.7 – curtains and blinds	✓			
H102.8 – fabrics			✓	
H102.9 – guardrails			✓	
H102.10 – seating			✓	
H102.11 – sanitary accommodation			✓	
H102.12 – projection suites				✓
H102.13 – fireplaces and heating				✓
H102.14 – electrical services			✓	
H102.15 – artificial lighting			✓	
H102.16 – exit signs			✓	
H102.17 – fire-fighting services			✓	

4.0 POPE ASSESSMENT – DETAILED ANALYSIS

4.1 GENERAL

With reference to the “POPE Assessment Summary” contained within Part 3 above, the following detailed analysis and commentary is provided.

This commentary is formulated to enable the design documentation to be further progressed, for the purpose of evidencing the attainment of compliance with the relevant provisions of Regulation 98C of the EP&A Regulation.

4.2 REGULATION 98C – CONDITIONS APPLYING TO USE OF BUILDINGS AS POPE

SubCl. (2) | Refer Items 4.4 and 4.5 of this report below.

SubCl. (4) | A sign must be displayed in a prominent position in the tent that specifies the following: –

- ☐ the maximum number of persons that are permitted in the tent; and
- ☐ the name, address and telephone number of the council of the area in which the tent is located.

4.3 SCHEDULE 3A – PLACES OF PUBLIC ENTERTAINMENT

Cl. 6 | Refer Item 4.5 of this report below.

Cl. 8 | Aisle lighting must be maintained in the on-position whenever the building is publicly occupied and the main lighting is dimmed

Cl. 11 | An emergency evacuation plan must be implemented during the use of the building, and must: –

- ☐ The location of exits and fire protection equipment
- ☐ The number of safety officers present during a performance
- ☐ Methodology for how the occupants are evacuated in an emergency

Safety officers must be appropriately trained.

Cl. 13 | Refer Item 4.5 of this report below.

4.4 PART B1 – STRUCTURAL PROVISIONS

Cl. B1.3 | Structural elements must accord with –

- ☐ Dead & Live Loads – AS 1170.1–1989
and Load Combinations
- ☐ Wind Loads – AS 1170.2–1989

Cl. B1.4 | Materials and forms of construction must comply with the following –

- ☐ Steel – AS 4100–1998

4.5 PART H102 – TEMPORARY STRUCTURES

- Cl. H102.4** | Based upon a peak occupant load within the tent structure of 750 persons, a total of five (5) exits with an aggregate exit width of 7,500-mm must be provided around the perimeter of the building
The temporary structure has been provided with four (4) exits with an aggregate exit width of 9,000-mm. A performance verification report has been prepared for this issue.
- Cl. H102.5** | A clear unobstructed height not less than 2000-mm must be maintained to the exits
- Cl. H102.7** | Curtains or blinds used within the tent structure must have a flammability index not greater than 6
- Cl. H102.8** | The tent fabric must have a flammability index not greater than 6
- Cl. H102.9** | Guardrails of minimum 750-mm height must be provided to the sides and rear of steeper platforms and seating areas
- Cl. H102.10** | The position and installation of seating must accord with NSW H101.11.
- Cl. H102.11** | Sanitary facilities must be provided in close proximity to the proposed tent, and be of a sufficient number to accommodate the proposed population
- Cl. H102.14** | Electrical installations must comply with local authority requirements, AS 3002, and AS/NZS 3000
- Cl. H102.15** | ☐ Artificial lighting switches must be accessible to members of the public, and instantly re-light via an override button if having a dimming capacity
☐ Emergency lighting must be provided and have a minimum 0.2 lux, and have a minimum 30-minute battery supply
- Cl. H102.16** | Exit signs must be provided above the exits
- Cl. H102.17** | AS 2444 compliant portable fire extinguishers should be provided throughout, in areas accessible to staff

Author



Kate Howse
Senior Consultant
Trevor R. Howse & Associates Pty Limited

ANNEXURE “A”

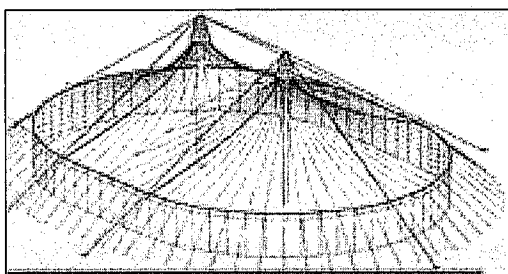
EMERGENCY EVACUATION PROCEEDURE

CIRCUS ROYALE

Circus Royale Big Top (Tent) Evacuation Procedure

Evacuation Plan as Victorian Building Commission Occupancy permits

Objectives



Eliminate risk of harm befalling people in big top tent, or on circus location

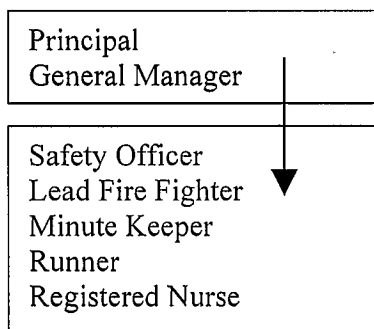
1. Ticket holding Patrons
2. Guests on invitation
3. Circus Employees & extended families
4. Circus Volunteers

Eliminate risk of harm befalling any animal on circus location

Eliminate risk of property damage

1. Circus tenting & equipment
2. Circus living compound
3. Circus transport & trailers
4. Patron cars

Chain of command



All Events
All Emergencies

Circus Director (Principal) will control and direct events

General Manager will control if Director absent

Safety Officer is Big Top Supervisor

Lead Fire Fighter established

Minute Keeper established

Runner established

Principal will decide when emergency is over.

All employees to remain on site until Principal states emergency is satisfactorily dealt with.

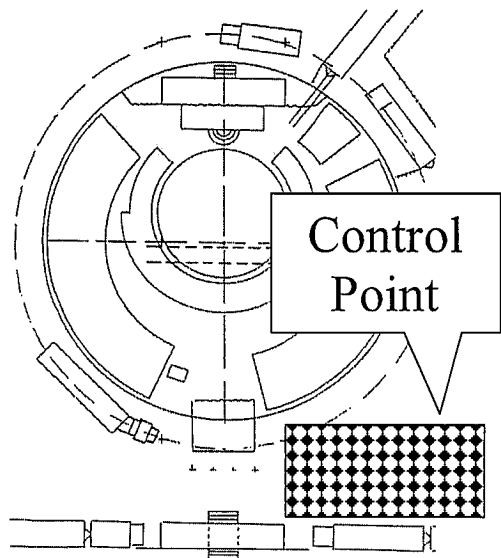
Alarm Raising

000

The alarm will be raised by means of a siren, which is located on light and sound operation station.

Any employee can raise the alarm
Alarm is tested at each location on set up day
(Police, Ambulance, Fire, Council notification of alarm test not undertaken as sound is restricted to boundaries of circus location)

Actions



On sounding of alarm Principal commences evacuation of big top procedures.

General Manager telephones emergency services
Control Centre established on righthand side of big top entrance area

Minute keeper reports to Control Centre area to keep a record of date, time, and all pertinent information on event

Runner reports to Control Centre area to carry messages as directed by Principal

Staff Nurse to Control Point

Employees carry out rehearsed evacuation of big top tent procedure. Each usher is responsible for a portion of patrons in section of seating

Ushers report to Principal in Control Centre when all patrons have left section of seating

Ushers then undertake duties as given by Principal

Fire Fighting

In the event that the emergency is caused by a fire. The Lead Fire Fighter and designated fire crew will proceed to quell fire or continue to fight fire until arrival of fire services

Lead Fire Fighter liaises with Fire Services

Principal establishes a watching roster for as long as deemed necessary

Roll Call

All persons to remain in Control Area until Principal advises emergency is over

Roll Call - circus persons

Roll Call – animals

Debriefing



Principal convenes debriefing within 2 hours of emergency

Minute Keeper records details

1. The cause of emergency
2. Actions required to prevent reoccurrence
3. Any flaws / difficulties identified in evacuation procedures
4. Nominees role inadequacies

Minute Keeper to prepare a full written report for Emergency Services if required

Established Duty Officers

Safety Officer	<p>Safety Officer is employed full time Safety Officer is present on circus location</p> <ol style="list-style-type: none"> 1. 60 minutes prior to patrons arrival 2. Full duration of performances 3. 30 minutes after performance conclusion <p>Safety Officer ensures</p> <ol style="list-style-type: none"> 1. Ushers 2. Catering staff 3. Concessionaires 4. Stage hands <p>Regularly practice evacuation procedure and correct use of fire extinguishers</p>
Leading Fire Officer	<p>Leading Fire Officer will be</p> <ol style="list-style-type: none"> 1. Familiar with all fire equipment on site 2. Arrange regular servicing 3. Train new staff as necessary
Registered Nurse	<p>Registered Nurse is employed full time Registered Nurse is present on circus location</p> <ol style="list-style-type: none"> 2. 60 minutes prior to patrons arrival 2. Full duration of performances 4. 30 minutes after performance conclusion <p>Registered Nurse supervises all First Aid Fixed First Aid point located in Booking Office at main entrance to circus. Mobile First Aid kit located in big top tent.</p>

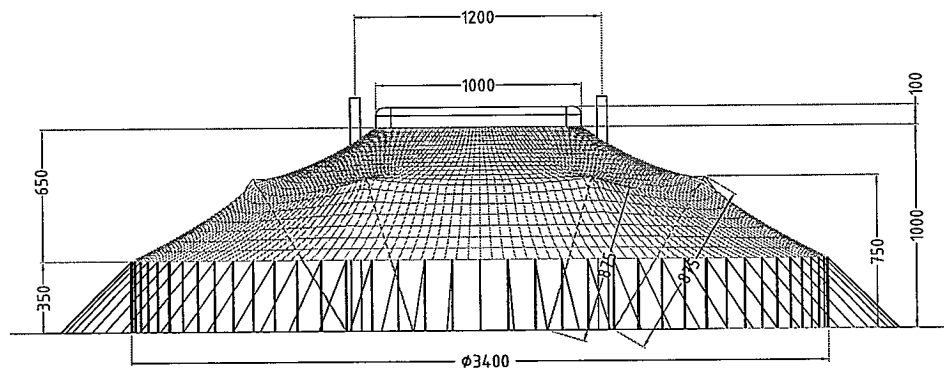
Established Routines

Catering Outlets	<p>Following the sounding of emergency alarm Catering Manager will commence closure of circus snack bar</p> <ol style="list-style-type: none"> 1. All electrical off 2. All gas off 3. Shutters closed and locked down
Animal Department	<p>Following the sounding of emergency alarm Animal Husbandry Manager and Groom will commence loading of livestock into semi stable trailer in preparation for evacuation</p>

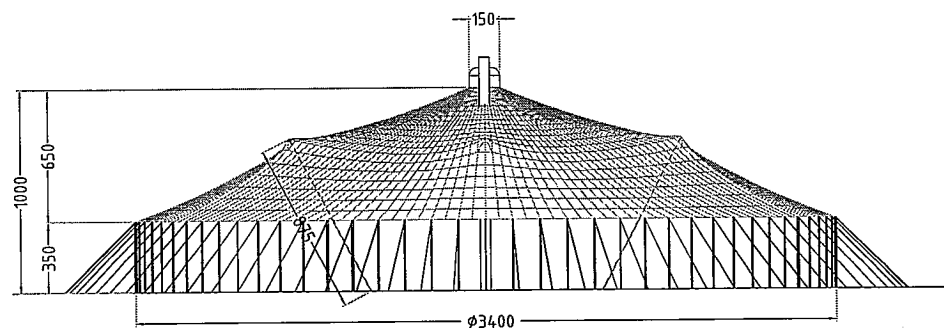
ANNEXURE “B”

ARCHITECTURAL DOCUMENTATION

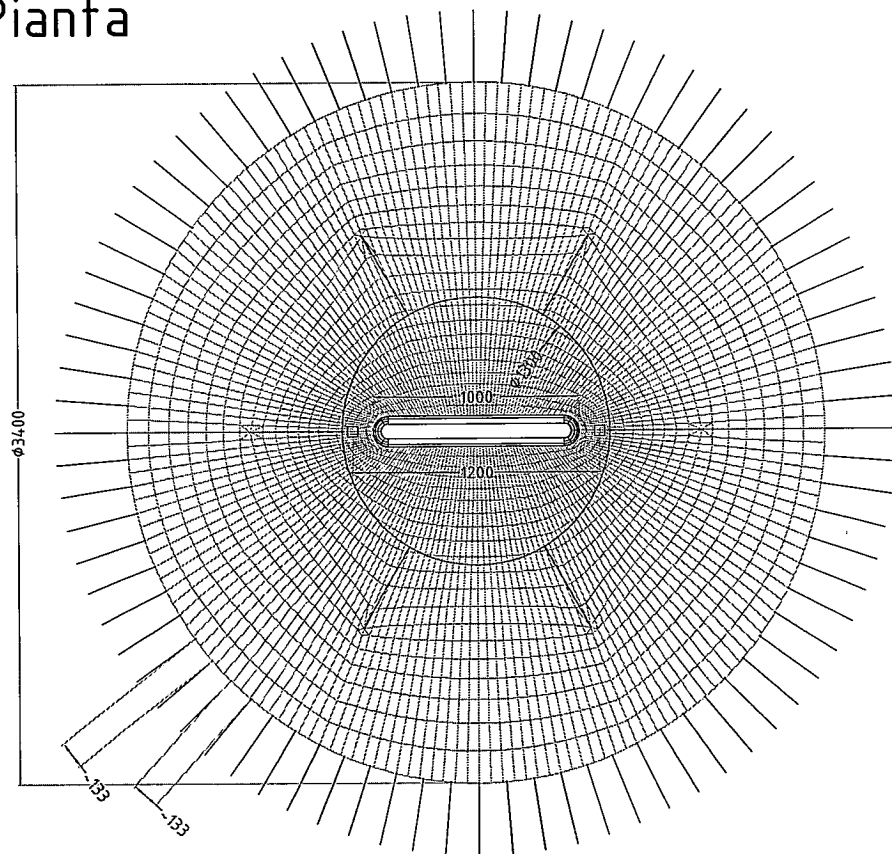
Vista frontale



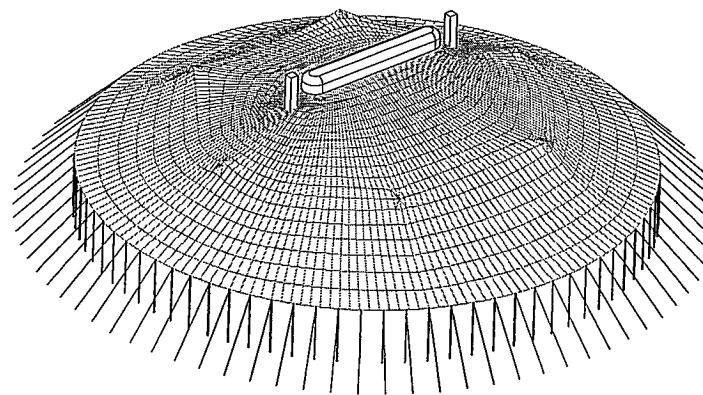
Vista laterale



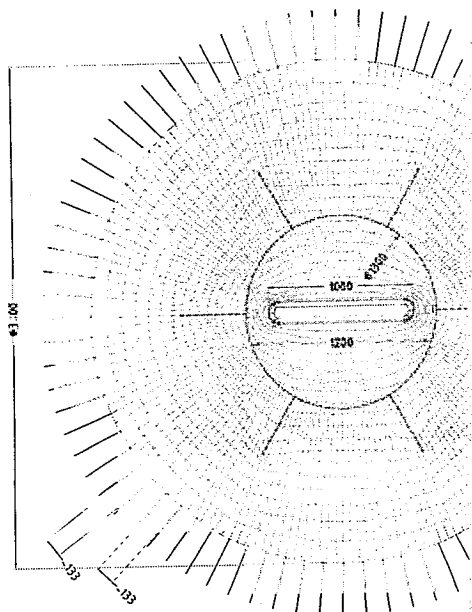
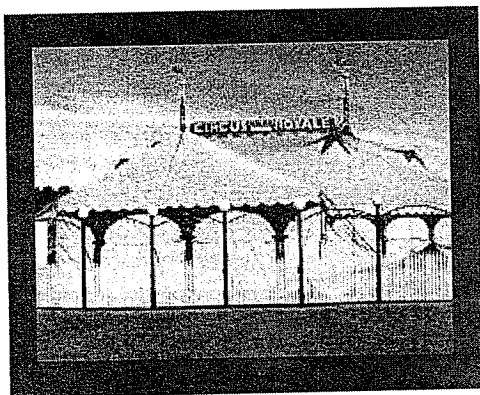
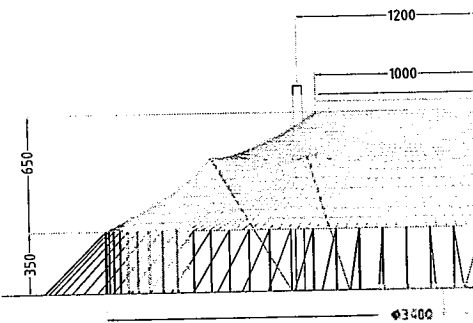
Pianta



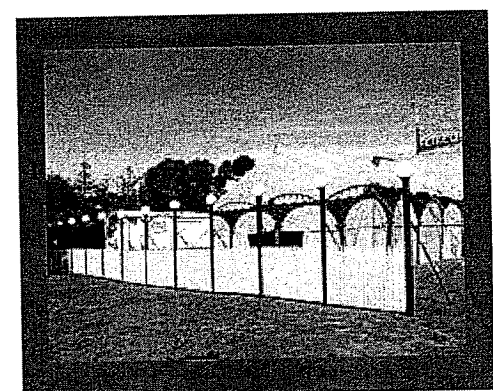
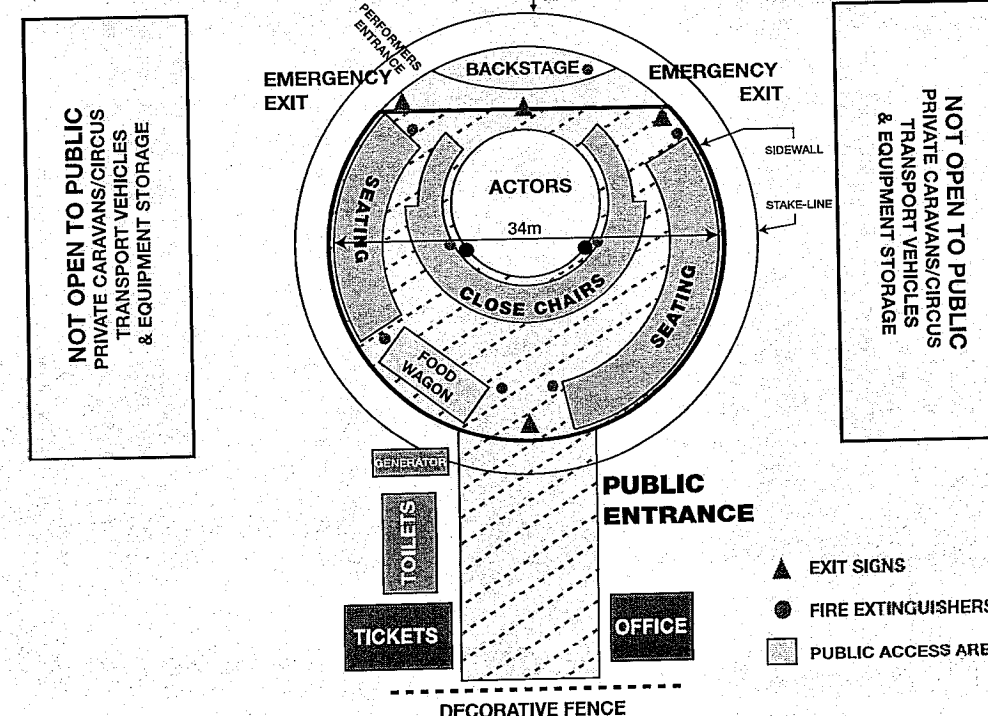
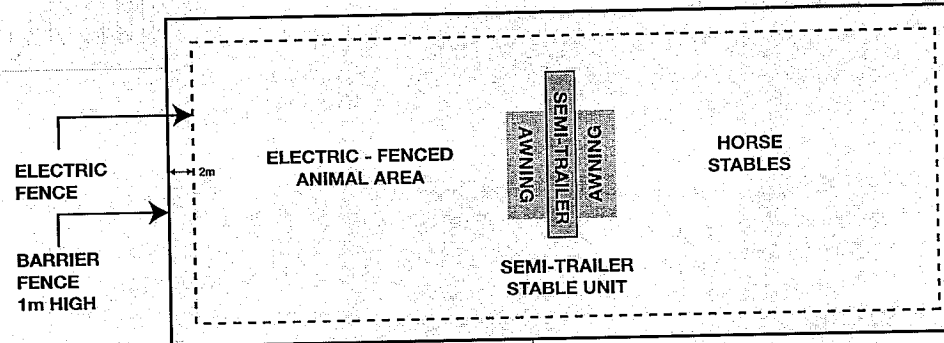
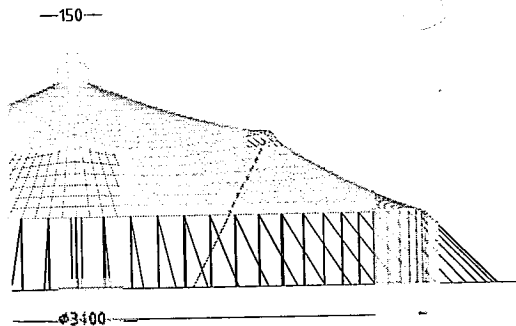
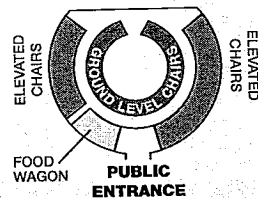
Vista assonometrica



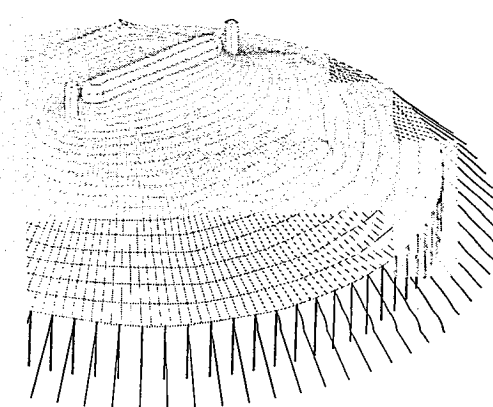
Circo $\phi 34$ 6 contropali
Bassano del Grappa 14/01/2008
TC-08-008-104



SEATING PLAN



ATRE
ALBAN



2009 - 2010
Layout Plan
34 Metre 2 Pole
Preconstraint
702 Fabric

CIRCUS ROYALE
Alban Tent



- ▲ EXIT SIGNS
- FIRE EXTINGUISHERS
- PUBLIC ACCESS AREAS

ANNEXURE “C”

STRUCTURAL DOCUMENTATION

COPY

FORM 13

Building Control Act 1990

BUILDING REGULATIONS 1994
Regulation 157 (2)

CERTIFICATE OF COMPLIANCE – DESIGN

To:

Building Supervisor
Postal Address:

Building Control Commission
1 Lansdale Street, Melbourne VIC 3000

From:

Building Practitioner
Category/Class:
Postal Address:

Tim Gurney & Associates Pty Ltd
Civil Engineer
2124 Rutland Road, Box 161 VIC 3128

Details:

CIRCUS TEMPORARY SEATING
"CONTINENTAL STYLE SEATING"

I have prepared the design and I certify that the part of the design described as
structural aspects only for the proposed fair fair temporary seating complies with the
following provisions of the Regulations" AS 1170 AS 1700 AS 4100

"S.C.A. Annex 1 Class 2 Seating AS 1700 AS 4100"

Design Documents:

Drawings:

Prepared by:
Date:

01/04 - page 1 rev 0
Tim Gurney
December 2002

Calculations:

Prepared by:
Date:

01/04 Page 115 3
Tim Gurney
December 2002

Signature:

Signed Building Practitioner:



Regulation No. EC-1024

Date:

27th November, 2002



COPY

Consulting: Structural &
Geotechnical Engineers

Suite 1
2nd Stamford Road
P.O. Box 1071
East Hill Victoria 3148

Phone: 0921 9193 0000
Fax: 0921 9193 0000

E-mail: enquiries@timgibney.com.au
Web: www.timgibney.com.au

DATE: 25th November 2002

PROJECT: CIRCUS TEMPORARY SEATING
"CONTINENTAL STYLE SEATING"

CLIENT: CIRCUS ROYALE

PROJECT REFERENCE: 02154

PROJECT ENGINEERS: Tim Gibney

DESCRIPTION OF PROJECT: Structural Computations

CODES USED:	AS 1170	Loading codes
	AS 1720.1	Timber Structures Code
	AS 4100	Steel Structures Code

COMMENTS:

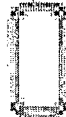


The diagram illustrates the experimental setup. A participant is seated at a table, looking at a video screen. A camera is positioned above the screen. A target is placed on the table. A light source is positioned to the right of the target. A scale bar is shown below the target.

[illegible]

13. **STREET NAME OF TEMPLAR ALLIANCE**
14. **IN CHARGE**

REMARKS:



FILED **U.S. DEPT. OF JUSTICE** **FBI** **RECEIVED** **MAY 10 1968**

[illegible]

1. THE STATE OF TEXAS, County of EL PASO, do hereby certify that JOSEPH A. GARCIA is the duly qualified and acting County Clerk of said County.

10-1-68 10:00 AM

2. **THE STATE OF TEXAS, COUNTY OF DALLAS, ss. I, _____, Clerk of the County Court, do hereby certify that the foregoing is a true and correct copy of the original of the same as the same is on file in my office.**

[illegible]

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

RESEARCH

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Figure 1

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11. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

2000年12月29日

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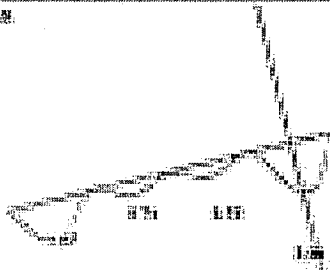
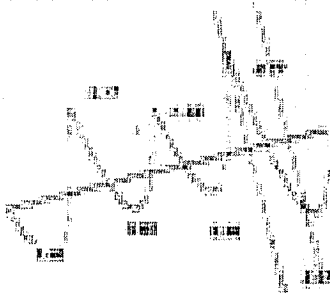
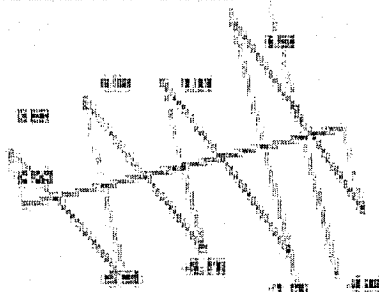
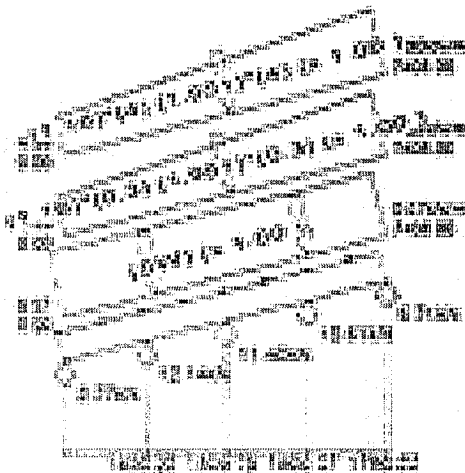
Figure 1

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

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1. DATE 11/11/1964



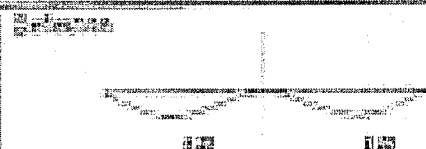
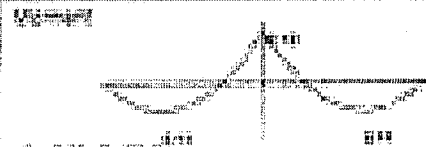
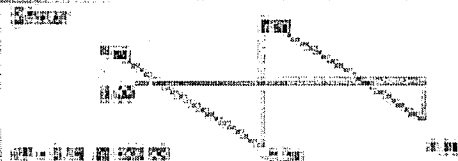
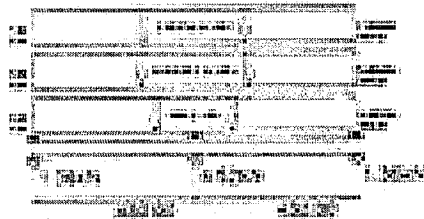
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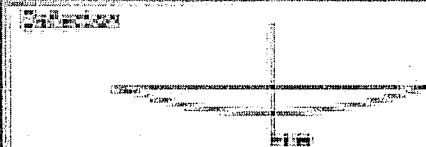
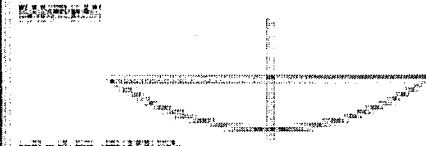
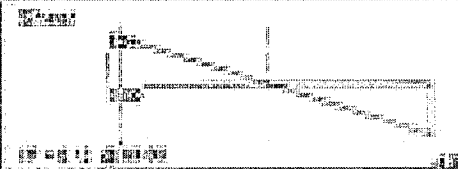
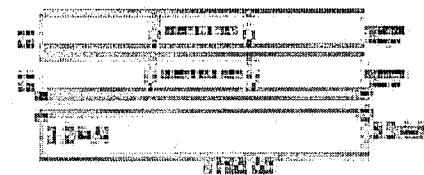
Job: STRUCTURAL DESIGN OF TEMPORARY BRACING
 & SHORING

SECTION 1: FLOOR BOARD SUPPORT BEAM



SECTION 1: FLOOR BOARD SUPPORT BEAM

SECTION 2: FLOOR BOARD SUPPORT BEAM



SECTION 2: FLOOR BOARD SUPPORT BEAM

SECTION 3: FLOOR BOARD SUPPORT BEAM

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
 Reg. No.: 001-10004 (10/101 Bunnings Lane) Suite 101

Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

SECTION 4: FLOOR BOARD SUPPORT BEAM

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
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SECTION 5: FLOOR BOARD SUPPORT BEAM

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SECTION 6: FLOOR BOARD SUPPORT BEAM

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Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

SECTION 7: FLOOR BOARD SUPPORT BEAM

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Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
 Reg. No.: 001-10004 (10/101 Bunnings Lane) Suite 101

Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

SECTION 8: FLOOR BOARD SUPPORT BEAM

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
 Reg. No.: 001-10004 (10/101 Bunnings Lane) Suite 101

Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
 Reg. No.: 001-10004 (10/101 Bunnings Lane) Suite 101

Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

By: 01/03/12 (10/101 Bunnings Lane) Suite 101
 Reg. No.: 001-10004 (10/101 Bunnings Lane) Suite 101

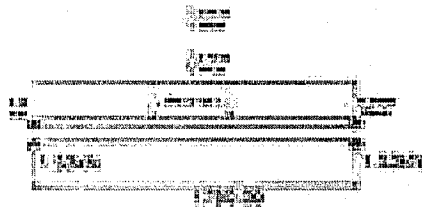
Reinforcement Properties
 20M: 300MPa yield strength
 10M: 300MPa yield strength
 12M: 300MPa yield strength
 16M: 300MPa yield strength

TIM GIBNEY & ASSOCIATES Pty. Ltd. Page 3

Consulting Structural Engineers
 Suite 1.125 Burswood Plaza 1800 HILL St. W. 6170
 Phone: (08) 9438 2000 Fax: (08) 9438 2001
 Email: info@timgibney.com.au
 www.timgibney.com.au
 AS 1 - STRUCTURAL DESIGN OF TEMPORARY STRUCTURES
 AT 1:10000

Date: 01/03/2011
 Engineer: Tim Gibney
 Reg. No. 25-1132
 Reference: CR104
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12-125 BURSWOOD PLAZA



WITH 125L FLOOR BOARD

The 125L FLOOR BOARD is a temporary structure used for the construction of the 125L FLOOR BOARD.

Location: Burswood Plaza
 Date: 01/03/2011
 Reg. No. 25-1132
 Reference: CR104

125L FLOOR BOARD

125L FLOOR BOARD LOCATION

125L FLOOR BOARD LOCATION
 125L FLOOR BOARD LOCATION
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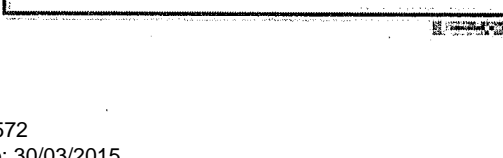
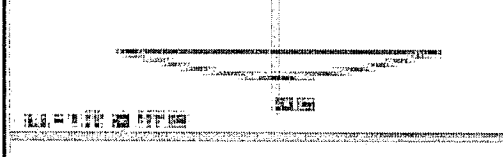
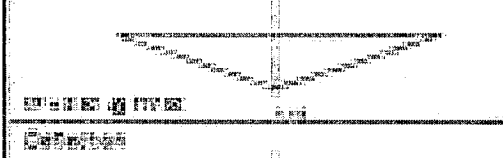
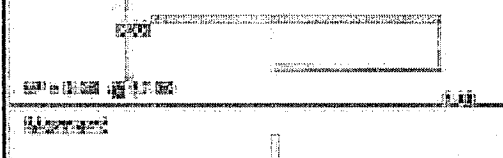
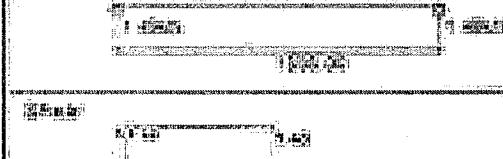
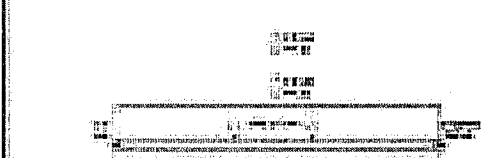
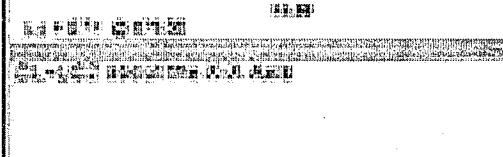
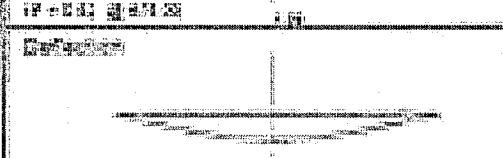
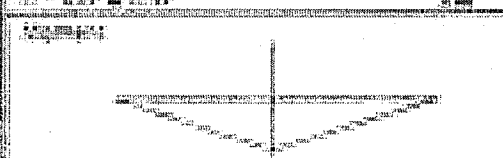
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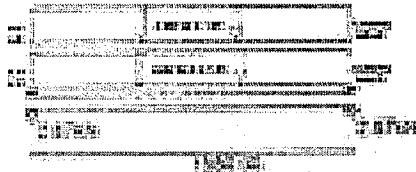


TIM GIBNEY & ASSOCIATES Pty. Ltd. Page 4

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Suite 11, 111 Market Street, Melbourne, VIC 3000
Phone: (03) 9600 0000 Fax: (03) 9600 0000
Email: info@timgibney.com.au
Web: www.timgibney.com.au
A STRUCTURAL ENGINEERING COMPANY
IN VICTORIA

Engineer: Tim Gibney
Reg. No.: EC-0004
Reference: 00104
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WALL AND SLAB DETAIL

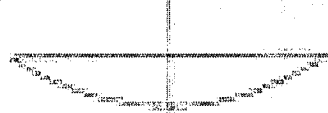


WALL



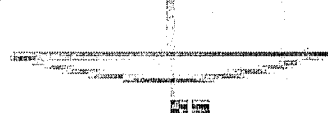
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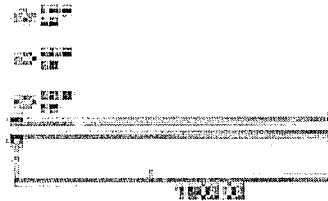
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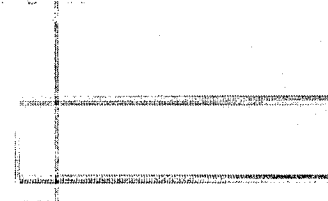


WALL

WALL AND SLAB DETAIL



WALL



WALL

WALL: FLOOR BOARD

By: [Signature] Date: 01/03/04
For: [Signature] Date: 01/03/04

Reinforcement:
WALL - 100mm dia bars
SLAB - 100mm dia bars
WALL - 100mm dia bars
SLAB - 100mm dia bars

WALL AND SLAB DETAIL

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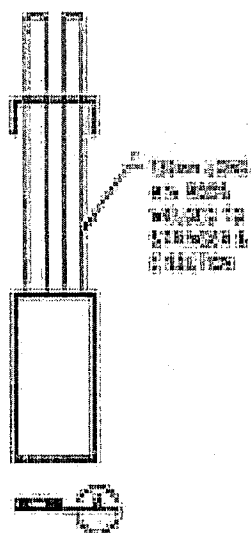
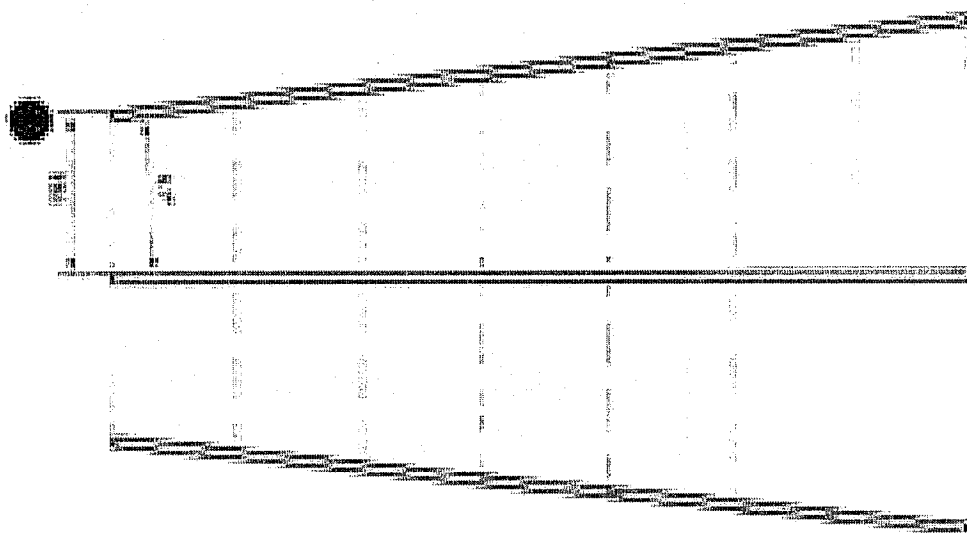
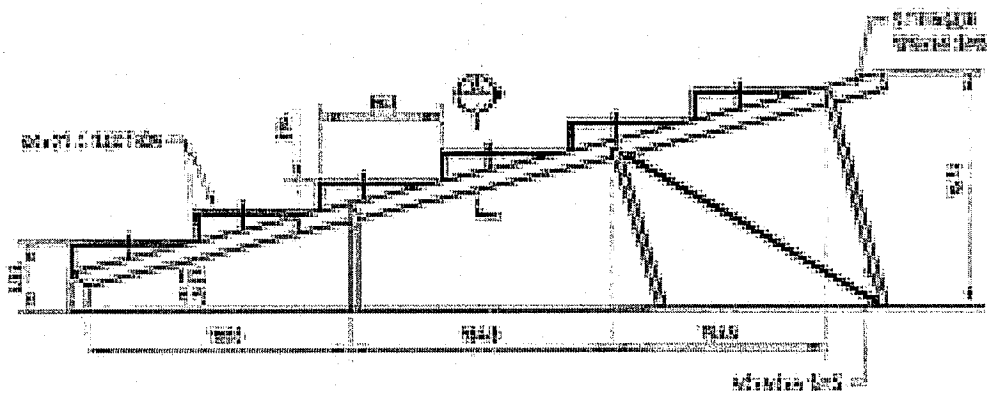
WALL AND SLAB DETAIL

WALL AND SLAB DETAIL

Page 2
 0100
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MEMBER SCHEDULE			
Mark		Qty Required	Description
F01		33x550 BT Australian Pine	FLOOR BOARD Floor boards must be supported by joists/battens
F02A		33x550 BT Australian Pine	FLOOR BOARD
F03A		37x540 BT Australian Pine	FLOOR BOARD
F02		37x550 BT Australian Pine	FLOOR BOARD
F01		40x40x2 Grade 300 Plus	FLOOR BOARD SUPPORT BEAM Continuous over 2 spans.
P01		100x50x1 RHE Grade C45.0	PLATFORM STRUTTER Continuous over 4 spans. Platform struts supported at 1 end, and 3 intermediate points.
SP1		40x40x2 SHS Grade C150.0	SUPPORT POST Support struts are made up of two 40x40x2 SHS. Support struts are bolted together and are 1000 mm high.

Sheet
One of
16



<p>FIGURE 1</p> <p>RELOCATABLE PUBLIC SEATING</p> <p>CIRCUS ROYAL</p>		
<p>Consulting Structural & Geotechnical Engineers</p> <p>Since 1960</p> <p>7000 Highway Road</p> <p>Box 1611 Van. 3123</p> <p>P.O. Box 301</p> <p>Box 1611 Van. 3123</p> <p>ph. 9500 0900</p> <p>fax. 9500 1623</p> <p>www.timgibney.com</p>		
PROJECT NO.	100	<p>07154</p>
DATE	10/10/00	
BY	10/10/00	<p>0</p>
DATE	10/10/00	

Certificate of Assessment

HF07ANK4933

No. 666

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without written authorisation from CSIRO is forbidden.

This is to certify that the specimen described below was tested by the CSIRO Division of Manufacturing and Infrastructure Technology in accordance with Australian/ New Zealand Standard 3837, Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter, 1998, at 50 kW/m², on behalf of:

Tissage Et Enduction Serge Ferrari
Zone Industrielle - BP 54
38352 la Tour du Pin Cedex
FRANCE

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNK 0331.

SAMPLE

IDENTIFICATION: Precontraint 702

DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as polyester yarns coated with PVC on both sides and varnished. The PVC contained flame-retardant additives.

Nominal total thickness: 0.60mm Colour: White
Nominal total mass: 750 g/m²

SAMPLE

CLASSIFICATION: Group Number: Group 1
(In accordance with Specification A2.4 of the Building Code of Australia.)

Average specific extinction area: 391.8 m²/kg
(Refer to Specification C1.10a section 3(c) of the Building Code of Australia.)

Testing Officer: Joanne Hofstadler Date of Test: 9 May 2005

Issued on the 18th day of May 2005 without alterations or additions.

Garry E Collins
Manager, Fire Testing and Assessments



This laboratory is accredited (Accreditation No. 3632) by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation.



Improving the Built Environment

Building, Construction and Engineering

14 Julius Avenue, Riverside Corporate Park, Delhi Road, North Ryde NSW 2113 AUSTRALIA
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555

Certificate of Test

QUOTE No.: HF07ANF4225

REPORT No.: FNF1182

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TEST FOR FLAMMABILITY OF MATERIALS IN ACCORDANCE WITH AS 1530.2-1993

TRADE NAME: FERRARI 702S BLOCKOUT FABRIC 8103

SPONSOR: Innova International Pty Ltd
36-40 Sunmore Close
MOORABBIN EAST VIC

DESCRIPTION OF SAMPLE: The sponsor described the specimen as a PVC coated polyester fabric with carbon interlayer.

Nominal total thickness: 0.65 mm
Nominal mass: 830 g/m²
Colour: white

TEST PROCEDURE: Six (6) samples were tested in accordance with Australian Standard 1530 Part 2 - Test for Flammability of Materials - 1993.

RESULTS: The following were obtained for the specimen:

	Maximum Flame Height	Time for Flame to Reach Top (t)	Area Under Curve (°C.min)
Mean	3.3	n/a	3.8
Coefficient of Variance (%)	12.87	n/a	14.94

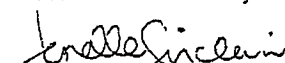
From which the following Indices were obtained:

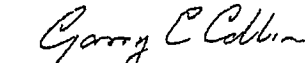
SPREAD Factor	SPEED Factor	HEAT Factor	FLAMMABILITY INDEX
1	n/a	1	2

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of test, and are not intended to be the sole criterion for assessing the potential fire hazard for the material in use.

DATE OF TEST: 20 October 2004

Issued on the 20th day of October 2004 without alterations or additions.


Janelle Sinclair
Testing Officer


Garry E Collins
Manager, Fire Testing and Assessments



This laboratory is accredited (Accreditation No. 3632) by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation.



CSIRO Manufacturing & Infrastructure Technology
14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555

AWTA TEXTILE TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Textile Testing
A.B.N. 43 006 014 106

26 Robertson Street, Kensington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2126 Fax (03) 9371 2102

TEST REPORT

CLIENT : TISSAGE ET ENDUCTION SERGE
FERRARI SA
Z.1-BP54-38352 LA TOUR DU PIN
CEDEX FRANCE

TEST NUMBER : 7-516909-BO
DATE : 21/02/2003

SAMPLE DESCRIPTION: CLIENT'S REF: PRECONTRAI NT 702 OPAQUE (BLACKOUT)
ARCHITECTURAL COATED PLASTIC COLOUR: WHITE
END USE: TEXTILE ARCHITECTURE

THESE RESULTS MUST BE CONSIDERED IN CONJUNCTION
WITH THE COMMENTS ON THE FOLLOWING PAGE(S)

MATERIAL SPECIFICATION PROVIDED BY CLIENT:

NOMINAL COMPOSITION: PES YARNS COATED WITH PVC FLAME RETARDANT ON BOTH SID
ES AND VARNISHED
NOMINAL MASS: 830 g/m2 NOMINAL THICKNESS: 0.63mm

AS/NZS
1530.3 - 1999

SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME
PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

RESULTS:

FACE TESTED: BOTH SIDES

	MEAN	STANDARD ERROR
IGNITION TIME	3.25 min	0.11
FLAME PROPAGATION TIME	NIL s	NIL
HEAT RELEASE INTEGRAL	49.5 kJ/m2	9.0
SMOKE RELEASE, LOG D	0.1055	0.0457
OPTICAL DENSITY, D	1.3091 /m	

NUMBER OF SPECIMENS IGNITED: 6

NUMBER OF SPECIMENS TESTED: 6

REGULATORY INDICES:	IGNITABILITY INDEX	17	RANGE 0-20
	SPREAD OF FLAME INDEX	0	RANGE 0-10
	HEAT EVOLVED INDEX	1	RANGE 0-10
	SMOKE DEVELOPED INDEX	8	RANGE 0-10

COMMENTS:

THESE RESULTS ONLY APPLY TO THE SPECIMEN MOUNTED, AS DESCRIBED IN THIS REPORT.

THE RESULTS OF THIS FIRE TEST MAY BE USED TO DIRECTLY ASSESS FIRE HAZARD,
BUT IT SHOULD BE RECOGNIZED THAT A SINGLE TEST METHOD WILL NOT PROVIDE A FULL
ASSESSMENT OF FIRE HAZARD UNDER ALL FIRE CONDITIONS.

124090

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(CONTINUED NEXT PAGE)

PAGE 1

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- Chemical Testing of Textiles & Related Products : Accreditation No. 883
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985
- Heat & Temperature Measurement : Accreditation No. 1356

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0204/8/01

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc. (Hons)
MANAGING DIRECTOR