Beyond the Darkside

The ultimate Pink Floyd Spectacualr

Technical Specifications

012

Finger On The Pulse tour

🚺 SENNHEISER

Martin

BTDS Technical - Quick Reference Guide

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Beyond The Darkside. ®

Management: Show Producer: Show Director: Production Manager: Transport Logistics: DST Office Kevin Hunt Athol Sargood Michael Kitching +61 (07 3372 3932. +61 (0)413 616857. +61 (0)422 318360. +61 (0)435 108622.



management@beyondthedarkside.com www.beyondthedarkside.com

Australian / N.Z Technical details and other information.

Technical request: Can the venue please provide a cad drawing of venue in DWG format to the Artists Production manager Michael Kitching <u>michael@beyondthedarkside.com</u> one month prior to performance.

Transport. ANL Transport Logistics (arranged by BTDS)

- Equipment is delivered in the form of 2 x 40' containers on trailers. We can arrange for delivery whichever way the venue loading bay is able to accommodate.
- 1.2 metre high loading dock is required for unloading.
- Enough loading / car park area to manoeuvre 1 x 40' semi trailer/s
- Call Michael Kitching (07) 3373 3932 for any special transport enquiries or difficulties or <u>michael@beyondthedarkside.com</u>



Storage needed: – Either a Truck or Container is often left at the venue site as storage for the empty flight cases if needed – In some smaller venues with no storage area some of our cases such as the 4.5 Meter Circle cases (x 2) and pod cases (x 2) will need to be stored so a container must be parked close to stage/loading dock doors. Call Michael Kitching 0435 108622 if containers are not able to stay in loading area.

Load in / out: - It is extremely important to be notified of any lifting or stairs on load in or out as certain pieces of equipment are as heavy as 100kg and 2 meters long after being taken out of their protective cases.
6 Loaders are required for normal bump in and out. More would be required for stairs - (DST will supply).

Load in and set up can take from 8 to 10 hours depending on venue difficulties and restraints (i.e. small area in which to setup and work with the large amounts of equipment, or difficulties with loading into Venue.) 3–6 hour pull down and Load out depending on what show setup required – unless venue difficulties. **Note:** A large amount of high-tech delicate equipment has to be handled.

Rigging / Stage Requirements: - Australian / N.Z. Theatres / Entertainment Centres.

Staging: A level solidly constructed and reinforced stage measuring **18 m wide by 11m deep.** (minimum). The stage should be at least **1.2m high** (not to exceed 2m) and must be able to withstand weights between 480kg per square metre and 700kg per square metre. Stage must be free and clear of house equipment. **Stage risers**: 8 sections 2m x 1m @ 400mm – (Page 7) to form 8m x 2m riser - required from the venue.

BTDS will be using it's very own stand alone trussing system (All specs on Page 10) Minimum clear stage area requirements for Trussing system set up are 18m (w) x 11m (d) x 10m (h). Stage Floor rating sections where the 4 towers are to be placed are to be rated each to take 480kg spread over 2.2m sq each. Measurements for placement of towers are Front – centre of tower to tower = 13.7m. Side – centre of tower to tower = 8.7m. Outriggers x 4 for each tower base cover an area of 2.2m sq. Only very basic duty Technician is required whilst setting up of show, if required.

Main Power outlets requirements: -

- 1 x 200 amp set of 3 Phase Power lock outlets or mains power board for power lock tails.
- 1 x 32 amp. Wilco 3 Phase outlet. For Sound / Stage production.
- or
- 1 x 32 amp. Wilco 3 Phase outlet. For Sound / Stage production.
- 1 x 32 amp. Wilco 3 Phase outlet. For Lighting Pod Hoists and Mirror Ball
- 1 x 32 amp. Wilco 3 Phase outlet. Pig Dimmers, Pig Lights, House Lights and Work Lights.
- 1 x 63 amp. Wilco 3 Phase outlet. For Lighting / Lasers.

Please note: All equipment is currently electrically tested and tagged.

If power is to be supplied by 3 phase cable extensions, please place 3 phase at upstage prompt Alternatively – if the above cannot be supplied an electrician is required to wire us straight into the mains.

Laser Effects: 1 x 10 watt class 4 laser will be used during the show. (Laser procedures Page 19) 2 x 3 watt RGB ILDA laser scanners & 2 x 0.5 Watt RGB ILDA Laser scanners.

Pyrotechnics Note – we will not be using any pyrotechnics on this tour.

Smoke effects: 4 x smoke machines & 2 x hasers for lighting and laser effects throughout the show.

Pigs: 6m high 4m wide 3m deep on stage or side of stage.

Surround Rear Speakers: a secure space for rear speaker systems is required - sound is done in 5.1 surround sound mode (Page 6). Rear Speaker positions Minimum 3 seats per side (1.4m x1.4m).

Secure area for F.O.H Audio and Lighting control equipment and staff. (Area needs to be 2 rows of 8 seats) Front of house operation position must be between 17 metres and 25 metres from front of stage, an area of approx 4m x 2m in the middle of the auditorium.

Orchestra Pit (If theatre has such) is to be raised to 500mm below stage level for wall of Pinspot lighting. Orchestra Pit seats must not to be sold. This will push the audience back further from the stage giving them a better view of the show. – This will have been requested in initial contract.

Air-conditioning: The venue must insure that the venue air-conditioning (especially within the stage area) is to be switched off during the performance; it may be on preshow and during intermission but not during the performance. Air conditioning has a major impact on the BTDS singing performers during the show which badly affects their performance.

Technical Theatre staffing requirements: (setup schedule next page).

- Load in / Set up Basic Duty technician (Only 1 person same person) Split shifts if necessary – no overtime please.
- Show time Basic Duty technician
- Load out Basic Duty technician (Only 1 person same person) Split shifts if necessary no overtime please
- **BTDS Set up must commence 7:00 am**, 12-13 hours before show time to allow for technical problems.

Show Performance times consist of:

3 Hours show duration - Short break of 20 minutes in the middle. Please make sure any alarm to recall the people to the venue is sounded after 15 mins to allow people to get back in time for a prompt restart of the show after the 20 mins break.

Example: 7:30 pm - Start - Show Time. 9:10 pm - Intermission. 9:30 pm - Start of second show. 10:10 pm - Encores (up to 20 Minutes) 10:30 pm - Finish.

Show personnel consist of the following:

Band will consist of 10 players. Crew will consist of 4 - 5 people. 6 Loaders will be required for load in and load out. (This will be arranged by DST)



Beyond The Darkside ® - **Setup Schedule** Set up based on the average 2000+ seating theatre.

Based on set up with concert ground support trussing System.

Note: The schedule below only applies if we have to set up on the day of the show. Set up the day before will be from 8:00am through to 5:00pm and show day 8:00am through to load out. (This will be arranged with management)

- 5:45 am Containers / Truck and crew arrive at venue.
- 6:00 am Containers / Truck is in place at loading dock, doors open unloading begins. Towers are unloaded and all help to erect towers.
- 6:00 am All equipment unloaded. Containers / Truck locked or removed.
- 7:00 am Truss system assembled at working height. Circle assembled and rigged.
- Also F.O.H Speakers placed into position and strapped down.
- 09:00 am F.O.H. Mixing position determined. Multi-cores run. Rear speaker stacks in place.
- 11:00 am Lighting rig flown to height. Monitors and stage equipment rigging begins.
- 12:00 pm Lunch.
- 12:30 pm Stage lighting, Monitors and Stage gear rigging continues.
- 2:00 pm Lighting and Laser focus.
- 3:00 pm Sound check.
- 4:00 pm Sound check finishes.
- 4:00 pm to
- 6:00 pm This time can be used for sorting any problems or maintenance.
- 6:00 pm Dinner for Band and Crew.
- 6:30 pm Show Call.
- 7:30 pm Show begins.
- 9:15 pm Intermission.
- 9:20 pm Second half of show.
- 10:30 pm Show ends.
- 10:35 pm Break down begins. Stage gear and stage lighting first.
- 10:50 pm Stage cleared. Stage gear and stage lighting road cases placed on loading dock.
- 11:30 am Container / Truck in place. Lighting and audio break down in reverse order of going up.
- 1:00 am Begin loading of containers / Truck.
- 3:00 am to 4:00 am Containers / Truck doors close containers / Truck loaded.
- Note the load out time gets to be brought forward by one hour by show night 4 as packing away gets quicker. i.e. 3:00am finished container / Trucks loaded.

BTDS Sound equipment breakdown (All equipment is privately owned & supplied by the show)

Sound Equipment listed below will suit up to 3500 Capacity Venue. 75'000 watts 5.1 surround sound system, 10 send in ear monitor system.

The Artist will supply the audio system which contains surround sound speaker stacks 1.4m x1.4m which will be placed at the discretion of the artist's audio engineer at or near the rear of the venue.

The PA system has a minimum height of 3.5m from the stage floor to the top speaker if the venue has side of stage seating

F.O.H. Speaker Cabinets and Amplification: - System runs in surround mode

Front - 2 x speaker stacks. Flash/ Flood light type System Left front & Right Front

- 12 Acoustic Technologies Show Stack cabinets
- 6 Ground Swells double 18" 4000 watt cabinets
- 4 Acoustic Technologies LG07 Stack cabinets (**Centre cluster**)
- 4 Acoustic Digital processors F.O.H
- 6 Acoustic Technologies E3500 watt power amps
- 8 Acoustic Technologies E1500 watt power amps
- 6 Q4 DE6000 watt power amps

Rear - 2 speakers stacks. Left Rear & Right Rear. (Main Auditorium Only)

- 4 Acoustic Technologies Show Stack cabinets
- 2 Acoustic Digital processors R.O.H
- 2 Acoustic Technologies E1500 watt power amps
- 2 Acoustic Technologies E2500 watt power amps



- 1 Yamaha DM2000 VCM 96 channel Digital mixing surround sound console
- 6 Yamaha DM2000 mini yagi cards MY16AT

128 way (x4) digital optical Multi-core system on wind up reel. (70 mtrs)

F.O.H. Drive rack:

1 1

1

- 1 4IRU drive / effects rack c/w case
- 1 RME 864 OPTICAL network interface
 - TC Electronics M1 Multi Effects Processor run digitally
 - TC Electronics D2 Multi Effects Processor run digitally
- 1 4 way headphone amplifier

Talkback systems – would prefer to use theatre in house systems where possible

- 2 Jands TBM Master stations
- 6 Jands TBS Talkback stations
- 2 Beyer DT 108 Single Muff headset
- 6 Beyer DT 109 Dual Muff headset











Microphone List

- 7 Sennheiser E945 Series,
- 6 Sennheiser E914 Series,
- 4 Sennheiser E906 Series,
- 13 Sennheiser E904 Series,
- 2 Sennheiser E901 Series,
- Sennheiser E905 Series,
 Sennheiser E845 Series.
- 4 Sennheiser E845 Series,1 Sennheiser E608 Series,
- 1 Sennheiser E602 Series,
- 1 Sennheiser Ew182 GS Series,
- 1 Sennheiser MD441 Series,
- 2 Sennheiser MD421 Series,
- 6 Shure SM57 Series,
- 1 Rode NT1a Series,
- r Roue in l'a Selles,
- + Other various effects, stands, cables and road cases etc



- 1 02R/96 56 Channel mixing console.
- 4 Yamaha mini yagi cards MY16AT

Other Audio:

- 3 10m 16 channel multi-cores cross stage looms Boxes
- 1 Audio Draws Case Lockable

Monitor Drive Racks:

- 1 16IRU drive / effects rack c/w case
- 1 RME 864 OPTICAL network interface
- 1 Moto 828 Mk3
- 1 M-Audio Firewire Delta 410
- 1 Sennheiser Ew182 GS Series receiver
- 6 SIEM- 111T / SIEM-111R in ears
- 2 Behringer Power Play Pro XL Headphone amps
- 6 Behringer ADA 8000 units

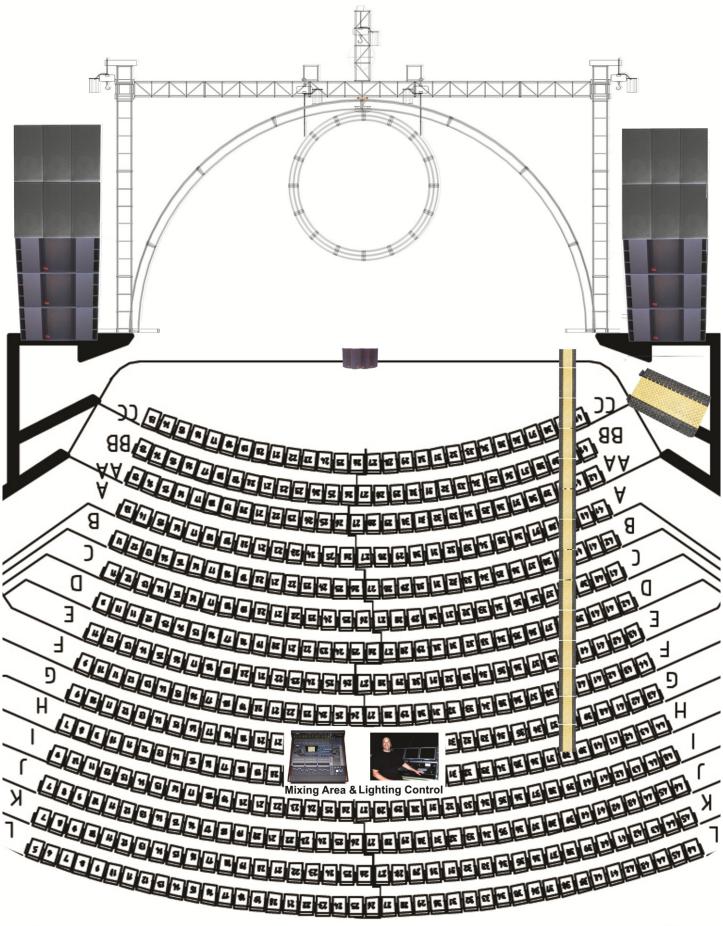
Others:

- 4 Draws cases
- 10 Leads Packers
- 100 XLR Microphone cables
- 26 Mic Stands
- 1 Mic Stands Case
- 1 Multi cores lead packer
- 6 Speakon cables







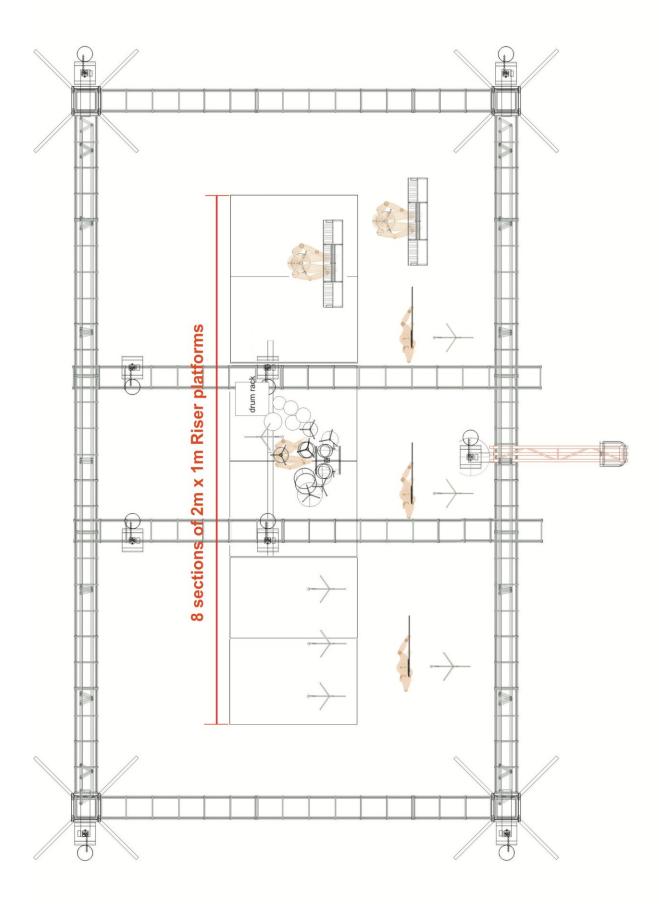




Beyond the Darkside show surround sound system layout

80'000 watts 5.1 Surround Sound System Darkside Trading Pty Ltd. Australia 2009.





Heyond the Darkside The Ultimate Pink Floyd Spectacular at Truss System 2

Scale 100:1

BTDS Lighting equipment breakdown

- 1 10-watt air-cooled Copper Vapour Laser + laser bench, 2 x scanners, multiple beams etc.
- 2 3 Watt RGB laser scanning systems.
- 2 0.5 Watt RGB laser scanning systems for scanning across the performers
- 2 Studio Due mirror deflectors + DMX controller
- 67 Martin Pro 518 scanners (Moving lights) 18 colours, Rotating gobos etc.
- 71 Martin 812 Scanners (Moving lights)
- 8 Martin Pro 400's
- 8 Geni OBY- 3 moving head fixtures.
- 22 DMX RGB Par 64 LED lanterns for lighting the 2 x 20foot inflatable pigs
- 9 Blocks of 25 Pin spots (225 Total) Front Floor lighting + Weiland cables.
- 3 Martin Light Jockey controllers Computers to control 200 fixtures & 6 lasers
- 1 Martin Fingers for light Jockey
- 1 Martin 2532 controller for light Jockey
- 1 Berringer 24 channel DMX Euro Lighting desk Laser bench control
- 4 Alpha 4 way DMX Splitters
- 1 DMX 32 Channel 0-10v control unit For Dynalite dimmers
- 1 Din Master 6 DMX Dimmer unit
- 2 Dynalite 12 pack Dimmer Racks
- 2 Martin Hasers.
- 2 Martin pro 2000 smoke machines
- 2 Jem ZR44 HI MASS Smoke Machines
- 1 2032 Martin computers controllers. (For testing)
- 2 Rigging packers contains rigging equipment
- 4 Cable packers contains all 240 cables, data cables and 3 phase cables.
- 4 Truss towers, carriages Truss towers can be 4m, 4.5m & 7.5m
- 10 4m sections of Quad Concert Truss, spigots and pins.
- 6 3m sections of Quad Concert Truss, spigots and pins.
- 2 2m sections of Quad Concert Truss, spigots and pins.
- 4 3m Sections of Tri Truss, spigots and bolts.
- 4 2m Sections of Tri Truss, spigots and bolts.
- 12 Curved sections of tri truss makes 1 x 13m circle or 2 x 13m arches
- 4 CM Loadstar 1 ton chain hoists + cases
- 5 Donati 250kg motorized Chain hoists + cases for the 2 x pods and opening mirror ball.
- 1 CM Loadstar controller
- 1 Donati Controller
- 1 4.5 meter circular video screen (Surrounded by 24 x Martin 812 lights)
- 1 Sony LCD Video Projector 2000 Ansi Lumens 4m circle
- 1 Hitachi CP-X1250 Video Projector 4500 Ansi Lumens 12m Arch syke
- 1 Video Draws / leads packer contains video cabling

Miscellaneous - Other Equipment - used in show.

- 1 24" mirror ball with motor.
- 2 Fan forced inflatable 20 foot pigs.
- 1 400amp Power lock system with 20m cables all flight cased.
- 1 PSA 631 3 Phase readout distribution Board
- 2 PSA 321 3 Phase readout distribution Boards
- 4 30 amp 3 Phase Distribution Boards
- 4 10m 32amp 3 Phase Cables extensions
- 1 10m 63 amp 3 Phase Cable extension

100+ XLR - Data cables.

- 1 3 Phase Leads packer case
- 1 3 Phase Chain Motor Leads packer case
- 12 3 Phase Chain motor leads













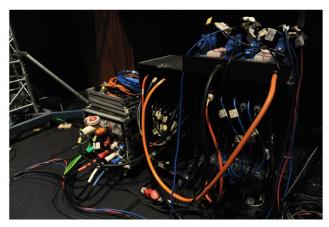




A collection of shots of the shows production

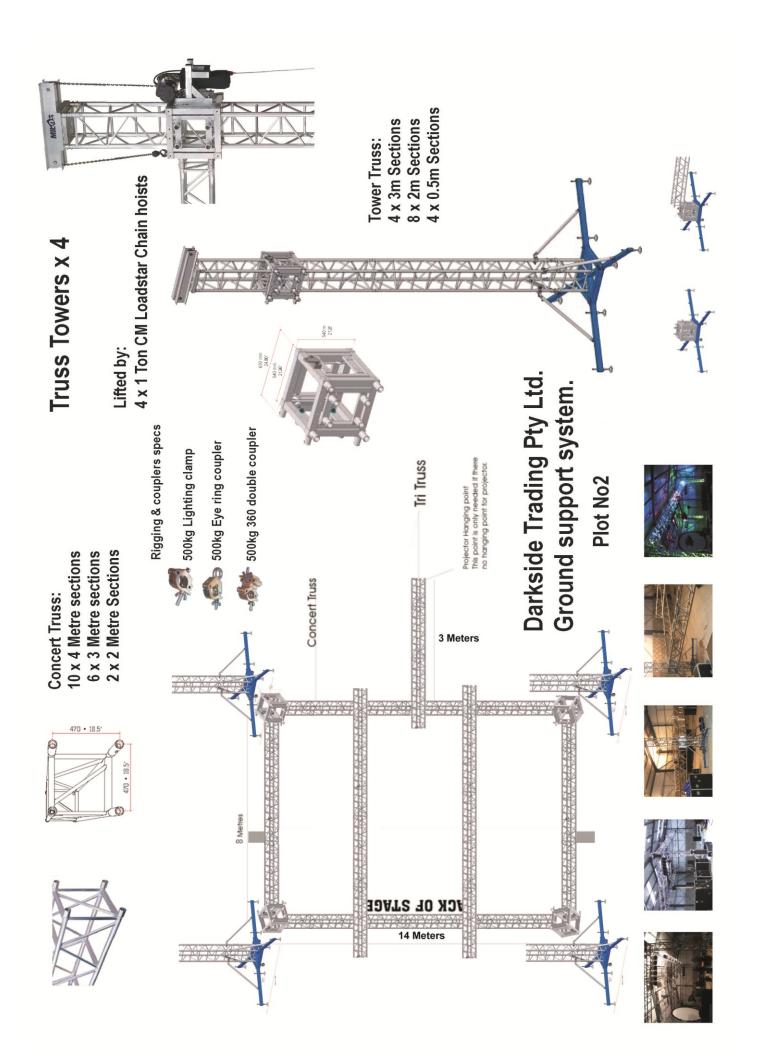


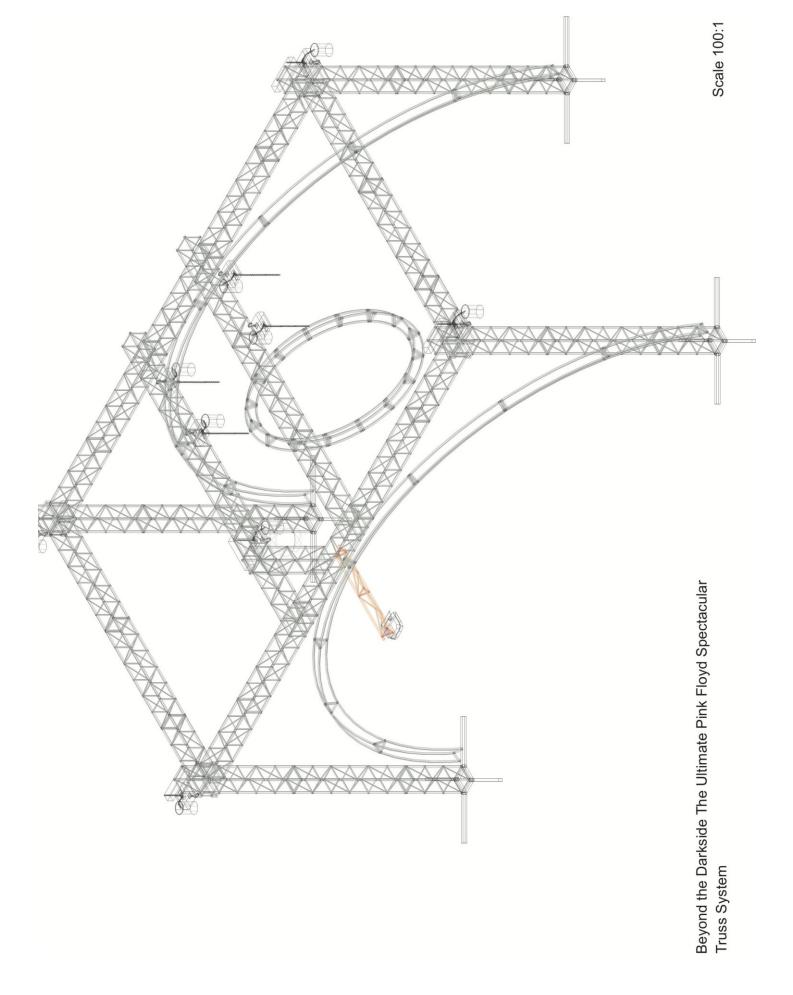


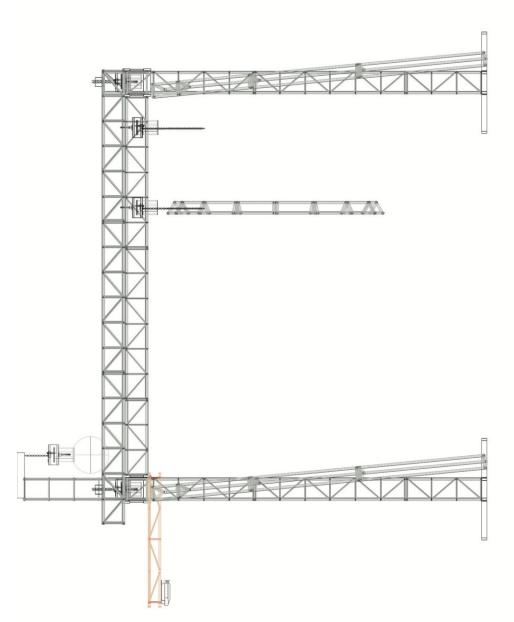




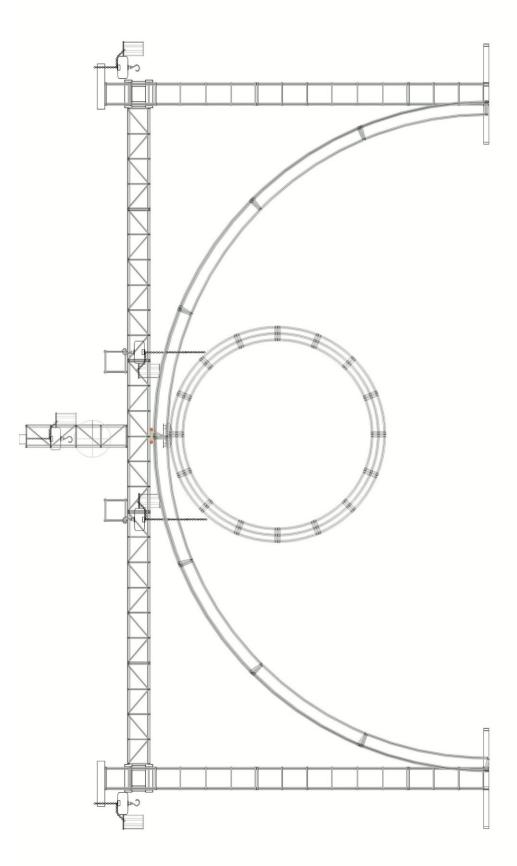






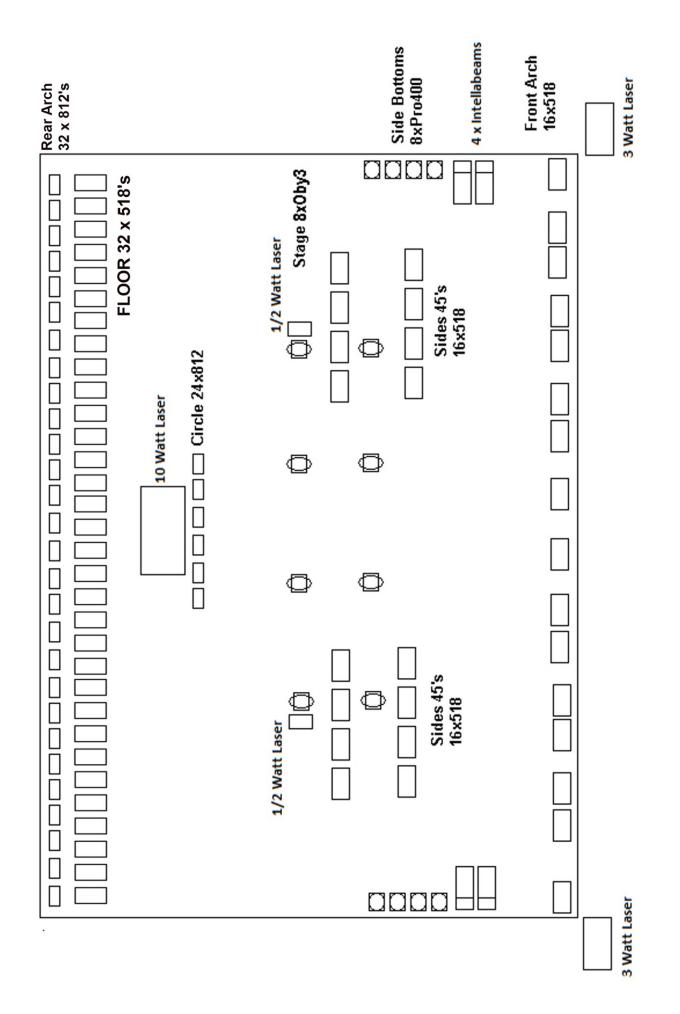


Beyond the Darkside The Ultimate Pink Floyd Spectacular Truss System





Scale 100:1



BTDS Stage equipment breakdown

- 1 7 x Shell drum kit with racks, Cymbals and Rotor toms.
- 1 Roland Electronic percussion + 16 trigger Pads, Alesis D4 & DM5 modules
- 1 Yamaha 0X1mixing console Electric Drums Mixer.
- 1 4 x 10" Ashdown Speakers Bass speaker Bass Player
- 1 1 x 15" Ashdown Speakers Bass speaker Bass Player
- 1 TC Electronics RH750 Bass amplifier
- 1 Roland Boss GTB 10 Bass Guitar effects processor
- 4 Bass Guitars
- 1 M-Audio Keystation Pro 88 controller
- 1 Roland VR 760 Synthesizer
- 1 Roland RD 300SX Piano
- 1 Casio VZ keyboard controller for Macpro notebook.
- 2 Mac pro notebooks 2.3 quad cores Music / Keyboard Computers.
- 2 PC Notebooks for Keyboard players
- 2 UPS Power supplies
- 2 75 watt Fender twin reverb guitar amplifiers
- 1 Boss GT 6 Guitar effects processor.
- 2 Roland GP 16 Guitar processor and foot controllers
- 1 Line 6 POD HD500 Effects / foot controller
- 3 Fender Stratocaster Guitars (modified)
- 1 Fender lap steel
- 1 Fender Telecaster
- 2 Line 6 Variax Acoustic Guitars
- 2 120 watt Fender twin reverb guitar amplifier Second Guitarist
- 2 Fender Stratocaster Guitar Second Guitarist
- 2 Roland GP 16 Guitar processor and foot controller Second Guitarist
- 2 Saxophones Alto & Tenor











Beyond the Darkside Show ®

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A Finger On The Pulse Tour Part 1 of Show - Time 1hr 35 mins

- Shine On Extended version 1
- **2** Astronomy Domine
- 3 Learning To Fly
- 4 What Do you Want From Me
- 5 High Hopes
- 6 Take It Back
- 7 Wearing The Inside Out
- 8 A great Day For Freedom
- 9 Keep Talking
- 10 Sorrow
- 11 Coming Back To Life
- 12 Hey You
- **13** Another Brick In The Wall Pt2
- 14 One Of These Days

Dark Side of the Moon show Part 2 of Show - Time 0hr 40 mins

- 15 Breathe / Speak To Me
- 16 On The Run
- 17 Time / Breathe Reprise
- 18 Great Gig In the Sky
- 19 Money
- 20 Us & Them
- 21 Any Colour You Like
- 22 Brain Damage
- 23 Eclipse

Part 3 Encores - 35 mins

- 24 Wish You Were Here
- 25 Comfortably Numb
- 26 Run Like Hell



Beyond the Darkside – The Animals Tour

Hits of the Decades show Part 1 of Show - Time 1hr 30 mins

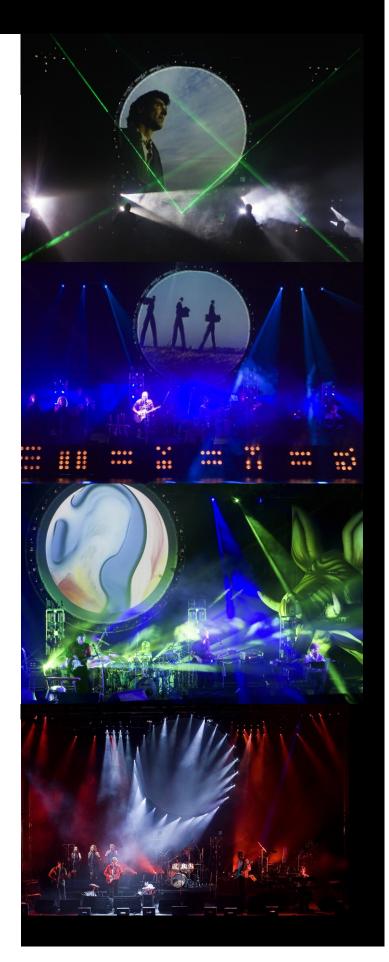
- 1 Shine On You Crazy Diamond 1 5
- 2 Welcome to the Machine Learning to Fly
- 4 High Hopes
- 5 Time
- 6 Breathe Reprise
- 7 Great Gig In the Sky
- 8 One Slip
- 9 What Do You Want From Me
- 10 Money
- 11 Wish You Were Here
- 12 On the Turning Away
- 11 Brain Damage
- 12 Eclipse
- 13 One of These Days

Animals show Part 2 of Show - Time 40 mins

- 14 Pigs on the Wing Pt 1
- 15 Dogs
- 16 Pigs 3 Different ones
- 17 Sheep
- 18 Pigs on the Wing Pt 2

The Wall – Best of Part 3 Encores - 35 mins

- 19 In the Flesh
- 20 Mother
- 21 Happiest Days of our Lives
- 22 Another Brick in the Wall Pt2
- 23 Comfortably Numb
- 24 Run Like Hell



Beyond the Darkside – From A Wish to the Moon & Beyond Tour

Wish you were here show Part 1 of Show - Time 1hr 35 mins

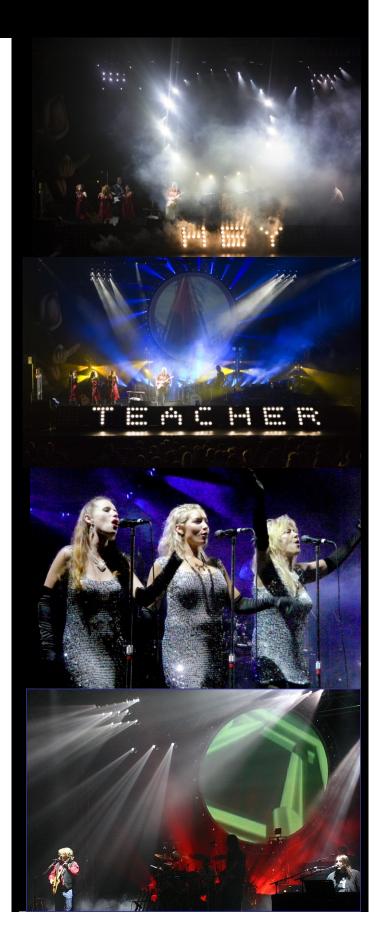
- 1 Shine On You Crazy Diamond 1 5
- 2 Welcome to the Machine
- 3 Have a Cigar
- 4 Wish You Were Here
- 5 Shine On Pts 6 & 7
- 6 Dogs
- 7 Learning to Fly
- 8 Sorrow
- 9 Dogs of War
- 10 What Do You Want From Me
- **11** On the Turning Away
- 12 One of These Days

Dark Side of the Moon show Part 2 of Show - Time 0hr 40 mins

- 11 Breathe / Speak To Me
- 12 Time
- 13 Breathe Reprise
- 14 Great Gig In the Sky
- 15 Money
- 16 Us & Them
- 17 Any Colour You Like
- 18 Brain Damage
- 19 Eclipse

The Wall – Best of Part 3 Encores - 35 mins

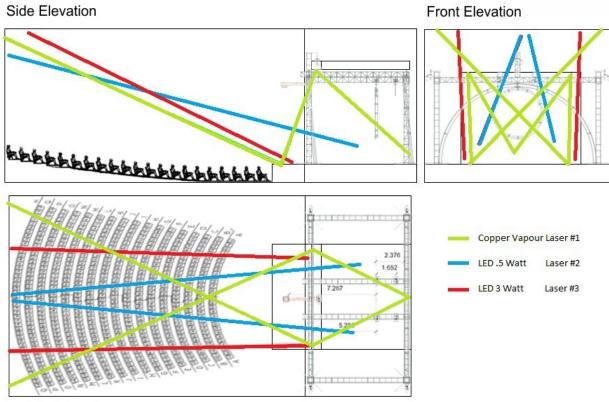
- 20 In the Flesh
- 21 Mother
- 22 Happiest Days of our Lives
- 23 Another Brick in the Wall Pt2
- 24 Comfortably Numb
- 25 Run Like Hell



BEYOND THE DARKSIDE LASER SETUP

Beyond The Darkside uses a Spectronika Ltd. CV Laser 10 watt Copper Vapour Laser, 2 x 3watt RGB Laser scanner systems and 2 x 500mw RGB Laser scanning systems.

- The Laser Bench is positioned Prompt Side of Stage
- All Lasers are equipped with an emergency shutoff and a beam shutoff.
- The control desk also allows for the beams to not be sent out over the audience.
- The Laser Bench is fitted with a physical beam stop, which is bolted into position on the bench.
- Beams are split on the bench and focused out over the audience onto a hard surface.
- Beams Focused over the audience maintain a minimum separation of 6 m in height and 2.5 m laterally from any surface upon which spectators can stand as per AS NZS 2211.3:2002
- There are physical barriers in place on the Laser Bench and on the stage to prevent a stray beam from ever being able to strike anyone on stage or in the audience.
- No audience scanning will be done.
- We use a Lead Crystal to scatter the beam as an effect. These scattered beams will not be on the audience.
- The Laser System is tagged and tested and all scattered beams meet European Specs.
- The Production also uses six (2 x 10watt, 2 x 3watt & 2 x 500 mw) ILDA LED laser scanners.



Top Elevation

Diagram of laser beams positioning. Note all beams are terminated above crowds. We do not fire at or scan the crowds with beams.

Beyond the Darkside show. Darkside Trading Pty Ltd

BEYOND THE DARKSIDE

PYROTECHNICS MANAGEMENT PLAN 2012 - Brisbane Only.

- The Show Director located at the Front Of House mixing position calls the Pyro ques. The Pyro Operator is located upstage centre.
- The Show Director and the Pyro Operator are in constant contact via talkback headsets.
- The Show Director has a clear view of the firing area and the pyrotechnic devices.
- The pyrotechnic devices are located between stage effect lighting on the orchestra fore stage and the stage monitor wedges in front of the performers. These act as a physical barrier to stop performers stepping into the firing area.
- The devices are no less than two (2) metres from performers and no less than three (3) metres from the audience. This area is also marked with laser designators so people know that it is an off limits area.
- No devices are detonated if the Show Director sees any person on the fore stage area or within the safety area.
- This area also has laser target mirrors located in it and we have made it very difficult for any person to gain access to this area during the show.
- The Show Director gives a talk to all persons in the show about the laser and pyro area showing them the laser designators. He physically walks the area to show them the boundaries and test fires pyros so that each person knows what it is like when the pyros are fired.

Bob Robinson

Australian Pyrotechnics and Explosives

414 Airforce Rd, Helidon, QLD [PO Box 40 Helidon Qld 4344] Ph. 0421 189694 Manufacturer of Fireworks and Pyrotechnics (Manuf. Lic. 0402379, Sell Lic. 0403854) Shopgoods, Display and Close Proximity Fireworks Testing (Lic. 0501237)

Certificate of Conformity 050022

The following fireworks were sampled by Rapid Action Fireworks and submitted for assessment by R. L. Robinson.

Lot No.	ID	Manufacturer	Туре	Size	Effect
	Smoke-Flash	Safex Chemie GMBH	Flash Pot (indoor)	N/A	Flash & report
	Silver Jet A1	Safex Chemie GMBH	Gerb (indoor)	12	Silver sparks

Samples submitted 26/10/07

Testing completed 02/11/07

The fireworks described above have been:

- 1. Inspected for labelling,
- 2. Inspected for structural and visible design defects,
- 3. Tested for safety performance,

according to the stipulations of the Queensland Fireworks Product Safety Sampling and Test Standard and no critical defects have been found.

ISSUE DATE 02/11/2007

R.L. nol

R. L. Robinson Testing Licence No. 0501237 (exp 18/11/07)

Indoor Pyrotechnics Testing Record

Name of pyrotechnic. Silver Jet Al Ar	Nr. 9139800
Manufacturer/Brand Safex Chemie CMBH (C	amet)
Description Indoor gerb 1 Stage Jet	Size (mm)1.2
Supplier Kapid Action Fireworks	Date of supply. 7.6/.10/07
Batch/Lot No. RAF 11/12 Lot size. 11.9.9.	Sample size
Name & signature of tester R. Robinson R.L. Nalouin	Date tested 2. /. 11. 1.97.
Temperature	

Description	Result	Comments
Labelling		German label on each article.
Border (or equivalent)	Pass /-Fail-	Instruction sheet in box
English language	Pass / Fail	man set ten anset in our
Contrasting print	Pass / Fail.	Warning Dangerous Explosive
Warning [eptopnal]	Pass / Fail	Fireworks 1.4G UN 0336 TUP
Description	Pass / Fail	Rapid Action Fireworks
Instructions	Pass / Fail-	SILVER JET Emits hot sparks. Safety distance 2m around, 6.5m
UN Number	Pass / Fail	above. Use on fire-resistant surface
Manufacturer & Supplier	Pass / Fail	2mx2m
Font size	mm	Manufactured by Safex Chemie GMBE
Dimensions		
NEQ	2.40	
Internal Diameter (Av)	11.8 mm	
Number of firing tubes	1	
Tube wall thickness (Av)	3.3 mm	
Tube length	47 mm	
Structural	Pass + Fait	damage, leaks, structural integrity, fuse attachment
Performance		
Noise Level @ 5m	- dB(A)	
Noise Level @ 10m	- dB(A)	
Noise Level @ 20m	- dB(A)	
Noise Level @ m	- dB(A)	
Burns on Floor	Pass / Fail	Tissue paper set alight, Holes in paper 20 mm
Burns above item @ 2.8 m	Pass / Fail	Tissue paper set alight, Holes in paper mm
Burns above item @ m	Pass / Fail	Tissue paper set alight, Holes in paper mm
Effect height (max)	7-9 m	
Function duration	1-5" sec	
Burst/Effect diameter	2 m	
Debris Projected m	Pass / Fait	case fragments, plugs/caps, molten plastic, smouldering debris
Malfunction	Pass+Fail	misfire, hang-fire, erratic flight, tube failure
Effect type	gerb	deserver have a second s
Effect colours	Silver	

Notes 2 hales in base paper from 5 tests sparks not capable of burning paper 2 12 recommended clearance. Batch numbers needed on boxes

R. L. Robinson - Australian Pyrotechnics and Explosives 26/10/07

Stage Dimensions and Safety Distances	For reasons of safety for both stage workers and the audience The marked safety distances are required for the use of pyrotechnics.	16 METRES Pyrotechnics Line		First Row of seating or People barrier.
8 Metres		2 Mtrs	3 Mtrs	_



1	11	6	Salator /D	9. Commons/II. J				
1.		Identification of the Substance/Preparation & Company/Undertaking 1. Identification of the substance or preparation:						
	1.			paration:				
		Name:	Pro Haze Fluid					
		Synonyms:	Technohaze Fluid					
	2.	Use of the sub	ostance/preparation:					
		Fluid for use in	n the creation of smoke e	ffects using a dedicated smoke machine.				
	3.	Company/und	dertaking identification:					
		Martin Manuf	acturing (UK) Plc.	Tel: +44 (0) 1507 604399				
		Belvoir Way,		Fax: +44 (0) 1507 601956				
		Fairfield Indus	strial Estate,					
		Louth,						
		Lincolnshire,						
		LN11 0LQ						
		UK						
2.	Compo	sition/Inform	ation on Ingredients					
2.	Contains		ation on ingrements					
		ade glycols						
		Polyglycols CAS Registry Number: 57-55-6						
	De-mine	De-mineralised water.						
		as no substances in Part 1 of the Approved Supply List, or with a maximum exposure <i>I</i> (<i>E</i> L) specified in Schedule 1 of COSHH.						
		ains monopropylene glycol, for which an occupational exposure standard has been set						
	Contains	s monopropylen	ie glycol, for which an oc	cupational exposure standard has been set				
3.	Hazard	ous Informati	ion:					
	No signi	ficant hazard to	man or environment und	er normal conditions of handling and use.				
	Ingestion	n: low toxicity.						
	Eye/skin	: low toxicity						
	Inhalatio	n: low concentr	ration of hazardous substa	nces in vapour. Undiluted vapour should not				
				omponents in the final product is below the				
	OES und	ler normal opera	ating conditions)					
Revisio	n No.: C	Date:07/	/06/2007					
	SDS No		-05/01/2005					

Replaces SDS No.:114B Date:05/01/2005

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First Aid Measures 4.

Expo	sure Route Inhalation	Symptom Mild irritation of	Treatment
	Innalation	nose & throat	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention
	Skin Contact	Mild irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large areas of the skin are damaged or if irritation persists seek medical attention
	Eye Contact	Mild irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention
	Ingestion	Mild irritation of gastro-intestinal tract	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.
5.	Fire Fighting	g Measures	
	Suitable Extin	guishers	Alcohol-resistant or all-purpose-type foam. Use carbon dioxide or dry powder for small fires only
	Unsuitable Extinguishers Hazardous Combustion Products		Do not direct a solid stream of water or foam into hot burning pools; as this may cause frothing and increase the intensity of a fire
			Oxides of carbon including aldehydes
	Special Equipment for fire Fighting		Self contained breathing apparatus
6.	Accidental F	Release Measures	
	Safety Precaut	tions	Wear appropriate PPE when handling - see section 8
	Environmental Precautions		Prevent entry into drains and water courses
	Clean up Proc	edure	Bund or absorb material with sand, earth or other suitable absorbent material. If possible, transfer to a salvage tank, otherwise absorb residues and place in suitable labelled containers and hold for waste disposal - see section 13
7.	Handling an	d Storage	
	Safe Handling	5	Avoid prolonged skin contact. Avoid contact with eyes. Ensure good general ventilation of area. Avoid creating spray. Do not breathe undiluted vapour
	Storage		Store in original closed containers
			Store at ambient temperature
			Store away from materials listed in section 10
	Specific Use(s	\$)	Only for use in designated smoke machine for the production of smoke as a special effect

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8.	Exposure Controls and Person	al Protection		
	Exposure Limit Values	Does not exceed 10mg/m ³ for particulate suspension and 474mg/m ³ for total vapour plus particulates.		
	Exposure Controls:			
	Respiratory	Type approved RPE for organic vapours and mists, if required		
	Hand	PVC coated or rubber gloves		
	Eye	Goggles or face shield		
	Skin	Overalls and boots		
	Hygiene Measures	Always wash thoroughly after handling chemicals		
9.	Physical and Chemical Propert	ies		
	Appearance:	Colourless Liquid		
	Odour:	Mild		
	pH	Neutral		
	Boiling Point/Range:	101.6 - 201.6 °C		
	Melting Point/Range:	< -20 °C		
	Flash Point:	> 78 °C (test flame extinguished at 78 °C)		
	Flammability Limits:	2.9 - 18.1 v/v (estimated)		
	Vapour Pressure:	2.67 kPa at 20°C		
	Relative density:	1.050 at 20 °C/20 °C		
	Solubility in water:	Completely miscible		
10.	Stability and Reactivity			
	Stability	Stable in normal conditions		
	Known hazardous reactions	Possibility of explosive decomposition if combined with strong acids or bases at elevated temperatures		
	Conditions to avoid	Elevated temperatures		
	Materials to avoid	Strong acids and bases; strong oxidisers		
	Hazardous decomposition products	Oxides of carbon, including aldehydes		
11.	Toxicological Information			
	OES for monopropylene glycol set at 150 ppm (total vapour and particulates) for 8-hour TWA, and 10 mg/m ³ (particulates) for 15-minute STEL.			
	LD ₅₀ for monopropylene glycol: 21000 - 33700 mg/kg oral - rat, >10000 mg/kg skin - rabbit.			
	May cause slight irritation to skin, eyes and mucous membranes. Large doses may produce adverse effects on liver, kidneys and central nervous system.			
	No evidence in developmental toxic	ity studies for either embryotoxic or teratogenic effects.		

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12.	Ecological Information			
	Mobility	Liquid with l in soil	ow volatility, soluble in water, predicted to have high mobility	
	D 1111		ion is largely biodegradable: gO_2/g ; ThOD = 1.68 gO_2/g ; COD = 1.63 gO_2/g D = 86%	
	Bio accumulative Potential	Low		
	Short and long- term effects		minnow = 4600 - 54900 mg/l a magna = 4850 - 34400 mg/l	
	Other			
13.	Disposal Conside	erations		
	Substance		Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations	
	Container		As for substance. Used containers must not be cut up or punctured until completely purged of product residues	
14.	Transport Inform	mation		
	No special precautions for transport			
15.	Regulatory Info	rmation		
	Supply label details	S	In accordance with CHIP 2, Regulation 9.	
	Label Name		Regular DJ	
	Symbol)		
	Risk phrases	}	No risk or safety phrases stipulated	
	Safety phrases	,		
	E.E.C. Number			
			ned by the following regulations:	
	COSHH, HSWA, N	MHSW		
		ata sheet does r	regulations for further information. The information not constitute an assessment of workplace risk as required by	

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16. Other Information

No special training is required for handling this preparation other than normal precautions for safe handling of chemicals

This material is usually used for the production of synthetic smoke in an appropriate JEM smoke- machine. The concentration of smoke components is below the OES under normal operating conditions.

It must not be used for any other purpose, or in any other equipment

Further details may be available on request from the supplier, whose address and telephone number are given in section 1.

This datasheet updated to meet Commission Directive 2001/58/EC

Sources of information:

Suppliers' Safety Data Sheets for substances used as raw materials in the preparation. EH 40/97

NFPA 325M

Legal Disclaimer:

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality of the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

If you have purchased the product for supply to a third party, it is your duty to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet. If you are an employer it is your duty to tell your employees and others who may be affected by any hazard described in this sheet and of any precautions that should be taken.

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1.	Identi	ification of the Substance/Preparation & Company/Undertaking			
	1.	Identification of the substance or preparation:			
		Name: Pro Smoke SUPER Fluid			
		Synonyms: ZR Fluid			
	2.	Use of the substance/preparation:			
		Fluid for use in the creation of smoke effects using a dedicated smoke machine.			
	3.	Company/undertaking identification:			
		Martin Manufacturing (UK) Plc. Tel: +44 (0) 1507 604399			
		Belvoir Way, Fax: +44 (0) 1507 601956			
		Fairfield Industrial Estate,			
		Louth,			
		Lincolnshire,			
		LN11 0LQ			
		UK			
2.	Compo	sition/Information on Ingredients			
	Contains	s:			
	Food gra	ade glycols			
	Polygly	cols CAS Registry Number: 57-55-6			
	De-mineralised water.				
		ins no substances in Part 1 of the Approved Supply List, or with a maximum exposure			
		IEL) specified in Schedule 1 of COSHH.			
	Contains	s monopropylene glycol, for which an occupational exposure standard has been set			
•					
3.		lous Information:			
	-	ificant hazard to man or environment under normal conditions of handling and use.			
	-	n: low toxicity.			
		n: low toxicity			
		on: low concentration of hazardous substances in vapour. Undiluted vapour should not ed. (Note: The concentration of smoke components in the final product is below the			
		der normal operating conditions)			
		1 5)			
	n No.: C				

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4. **First Aid Measures Exposure Route** Symptom Treatment Inhalation Mild irritation of Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek nose & throat medical attention Mild irritation Drench the skin with plenty of water. Remove Skin Contact contaminated clothing and wash before re-use. If large areas of the skin are damaged or if irritation persists seek medical attention Eye Contact Mild irritation Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention Ingestion Mild irritation of Wash out mouth with water. Do not induce vomiting. If gastro-intestinal patient is conscious, give water to drink. If patient feels tract unwell seek medical attention. 5. **Fire Fighting Measures** Suitable Extinguishers Alcohol-resistant or all-purpose-type foam. Use carbon dioxide or dry powder for small fires only Unsuitable Extinguishers Do not direct a solid stream of water or foam into hot burning pools; as this may cause frothing and increase the intensity of a fire Hazardous Combustion Products Oxides of carbon including aldehydes Special Equipment for fire Self contained breathing apparatus Fighting 6. **Accidental Release Measures** Safety Precautions Wear appropriate PPE when handling - see section 8 **Environmental Precautions** Prevent entry into drains and water courses Clean up Procedure Bund or absorb material with sand, earth or other suitable absorbent material. If possible, transfer to a salvage tank, otherwise absorb residues and place in suitable labelled containers and hold for waste disposal - see section 13 7. Handling and Storage Safe Handling Avoid prolonged skin contact. Avoid contact with eyes. Ensure good general ventilation of area. Avoid creating spray. Do not breathe undiluted vapour Store in original closed containers Storage Store at ambient temperature Store away from materials listed in section 10 Specific Use(s) Only for use in designated smoke machine for the production of smoke as a special effect

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8.	Exposure Controls and Personal Protection			
	Exposure Limit Values	Does not exceed 10mg/m ³ for particulate suspension and 474mg/m ³ for total vapour plus particulates.		
	Exposure Controls:			
	Respiratory	Type approved RPE for organic vapours and mists, if required		
	Hand	PVC coated or rubber gloves		
	Eye	Goggles or face shield		
	Skin	Overalls and boots		
	Hygiene Measures	Always wash thoroughly after handling chemicals		
9.	Physical and Chemical Propert	ies		
	Appearance:	Colourless Liquid		
	Odour:	Mild		
	pH	Neutral		
	Boiling Point/Range:	101.6 - 201.6 °C		
	Melting Point/Range:	< -20 °C		
	Flash Point:	$>78~^{\rm o}{\rm C}$ (test flame extinguished at 78 $^{\rm o}{\rm C})$		
	Flammability Limits:	2.9 - 18.1 v/v (estimated)		
	Vapour Pressure:	2.67 kPa at 20°C		
	Relative density:	1.050 at 20 °C/20 °C		
	Solubility in water:	Completely miscible		
10.	Stability and Reactivity			
	Stability	Stable in normal conditions		
	Known hazardous reactions	Possibility of explosive decomposition if combined with strong acids or bases at elevated temperatures		
	Conditions to avoid	Elevated temperatures		
	Materials to avoid	Strong acids and bases; strong oxidisers		
	Hazardous decomposition products	Oxides of carbon, including aldehydes		
11.	Toxicological Information			
	OES for monopropylene glycol set at 150 ppm (total vapour and particulates) for 8-hour TWA, and 10 mg/m ³ (particulates) for 15-minute STEL.			
	LD ₅₀ for monopropylene glycol: 21000 - 33700 mg/kg oral - rat, >10000 mg/kg skin - rabbit.			
	May cause slight irritation to skin, eyes and mucous membranes. Large doses may produce adverse effects on liver, kidneys and central nervous system.			
	No evidence in developmental toxic	ity studies for either embryotoxic or teratogenic effects.		

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12.	Ecological Information		
	Mobility	Liquid with le in soil	ow volatility, soluble in water, predicted to have high mobility
	Persistence and Degradability		on is largely biodegradable: gO_2/g ; ThOD = 1.68 gO_2/g ; COD = 1.63 gO_2/g D = 86%
	Bio accumulative Potential	Low	
	Short and long- term effects		minnow = 4600 - 54900 mg/l a magna = 4850 - 34400 mg/l
	Other		
13.	Disposal Conside	erations	
	Substance		Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations
	Container		As for substance. Used containers must not be cut up or punctured until completely purged of product residues
14.	Transport Inform	nation	
	No special precauti	ons for transpo	ort
15.	Regulatory Infor	mation	
	Supply label details	5	In accordance with CHIP 2, Regulation 9.
	Label Name		Regular DJ
	Symbol)	
	Risk phrases	}	No risk or safety phrases stipulated
	Safety phrases)	
	E.E.C. Number		
	Use of this material	l may be gover	ned by the following regulations:
	COSHH, HSWA, N		
		ta sheet does r	regulations for further information. The information not constitute an assessment of workplace risk as required by

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16. Other Information

No special training is required for handling this preparation other than normal precautions for safe handling of chemicals

This material is usually used for the production of synthetic smoke in an appropriate JEM smoke- machine. The concentration of smoke components is below the OES under normal operating conditions.

It must not be used for any other purpose, or in any other equipment

Further details may be available on request from the supplier, whose address and telephone number are given in section 1.

This datasheet updated to meet Commission Directive 2001/58/EC

Sources of information:

Suppliers' Safety Data Sheets for substances used as raw materials in the preparation. EH 40/97

NFPA 325M

Legal Disclaimer:

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality of the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

If you have purchased the product for supply to a third party, it is your duty to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet. If you are an employer it is your duty to tell your employees and others who may be affected by any hazard described in this sheet and of any precautions that should be taken.

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"One of these days I am going to cut YOU into little pieces"



6 Metres (20 feet) tall

Beyond the Darkside Inflateable Pig Prop (2 of)

Production Supplied by Darkside Trading Pty Ltd www.beyondthedarkside.com

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