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ACMI Screen Lounges Progress report on construction

From **Crowd Productions**: A report on progress of research, design and construction work to 16.07.03

01.] Report on construction progress: Fabrication of the inflatable ceiling

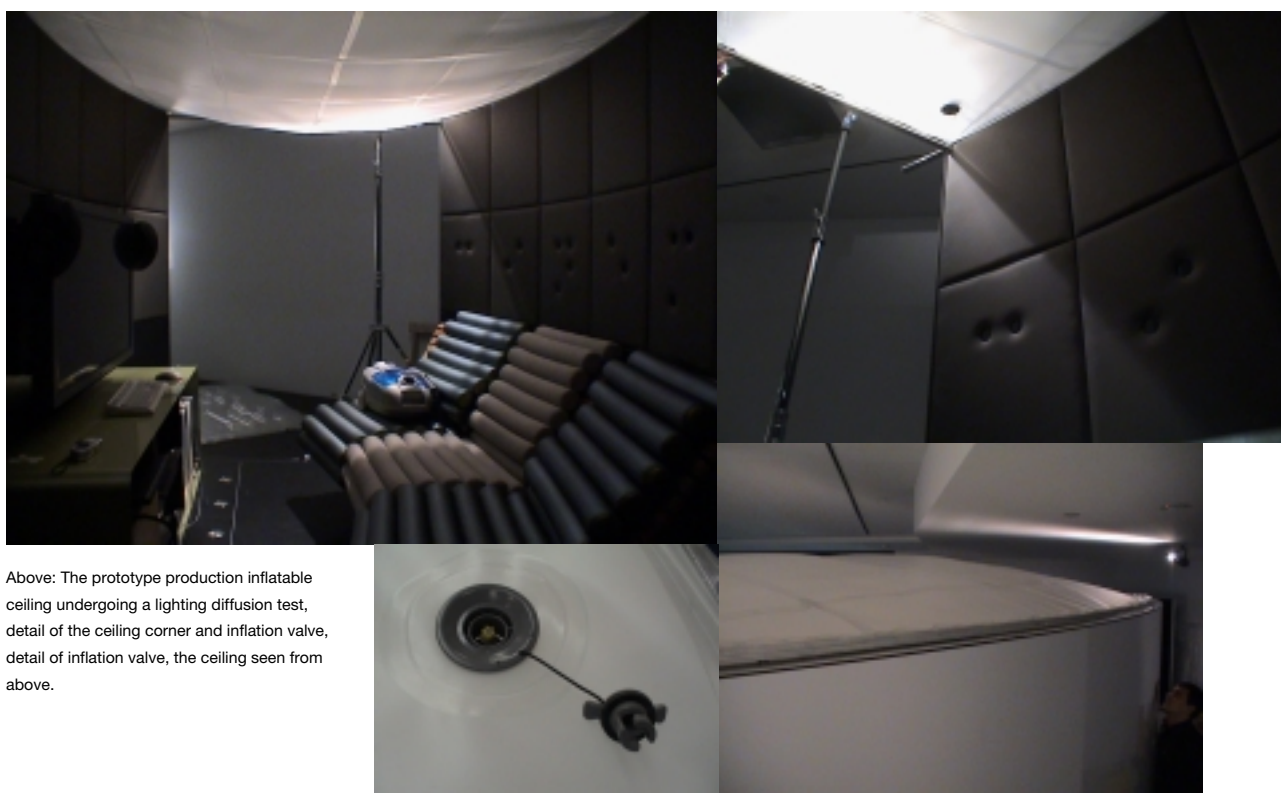
05.07.03. On Friday 05 July Bedggood Canvas took delivery of the pattern cut polyurethane material for the first inflatable ceiling. On Saturday 06 July Peter Bedggood commenced fabrication of the first prototype inflatable ceiling. Peter anticipates the principal fabrication will be finished on Monday 07 July. Crowd will travel to Bedggood Canvas in Bayswater to review the work with the intention of taking the ceiling to ACMI at Federation Square to check fit and performance details. It is expected that the ceiling will then be returned to Bedggood Canvas for adjustments and final detailing in readiness to fix it to Screen Lounge pod 01.



Above: The prototype production inflatable ceiling at Bedggood Canvas.

02.] Report on construction progress: fitting the prototype inflatable ceiling

09.07.03. On Wednesday 07 July Crowd Productions with Tensys Engineering fitted the first production prototype inflatable ceiling to Screen Lounge 01 at ACMI. The ceiling fitted perfectly and the connection system of aluminium extruded rope track and Keder



Above: The prototype production inflatable ceiling undergoing a lighting diffusion test, detail of the ceiling corner and inflation valve, detail of inflation valve, the ceiling seen from above.

interlocked without difficulty. The addition of the polyurethane ceiling membrane and the entrapped air mass had a significant impact on the internal acoustic properties of the Screen Lounge pod. The Screen Lounge pod now feels much more intimate and the internal acoustic environment is much less reflective and significantly damped. The internal ceiling height is approximately just below 2000mm under the centre of the inflatable ceiling. The ceiling is designed to visually suggest the casual relaxation of a lounge space. As indicated in the accompanying photos, the most dramatic impact the ceiling has on the space is its ability to diffuse top light to create a softly glowing interior while reducing the glare that impedes watching a television screen. The installation of this first ceiling prototype has highlighted the need for three modifications. Firstly we need to re-introduce the interior restraining baffles to reduce the overall ceiling depth by approximately 70mm. These baffles will re-introduce the segmented and taut profile of the original ceiling designs. Secondly all the seams will be reconfigured as internal seams so as not to interrupt the translucent surface texture of the material and to neaten its appearance. Thirdly, restraining Velcro straps will be added to both front and back edges of the ceiling to stretch it between the front and back ceiling cross bars to further secure it.



Above: Images of the prototype inflatable ceiling fitted the Screen Lounge pod 01 including the rope track temporary mounting.

03.] Report on construction progress: Meeting with ACMI stakeholders, CMR and PIVoD

02.07.03 On Wednesday 02 July Crowd met with ACMI stakeholders and CMR to discuss design and construction progress of the Screen Lounge pods. Crowd stated that the Scissor Arms have now all been produced. Crowd will liaise with Michael Parry from PIVoD to install the full production Scissor Arm into Screen Lounge pod 01. Crowd confirmed that the anticipated delivery date for the second and third open seater Screen Lounge pods will still be July 20. We anticipate delivery of the two Memory Grid pods to be in August. John Smithies, ACMI CEO, suggested that the Mantle Boots of the Screen Lounges may not need doors to the LCD control screen compartment. John also requested that we place a door over the opening to the top left tray compartment, as this area is expected to be used to store games control units. Crowd reported that completion of the Blister Pack exhibition wall and Fibre optic lighting system is anticipated in two weeks time.

04.] Report on construction progress: Fabrication of the Woven Navigation partition screen

01.07.03. On Tuesday 01 July, Crowd delivered the completed and painted frame for the Woven Navigation partition screen to Wendy Golden, the Australian Fibre Artist, who will weave the partition from natural fibre material as seen in report 20 [07.10.02]. The design

and execution of this partition, based on the woven navigation devices of the Micronesian navigators crossing vast distances of ocean, is designed to resonate with the Screen Lounge control interface designed by Jane Ellery that weaves animated pathways between ACMI resources and locations for Screen Lounge users.

05.] **Report on construction progress: Final detailing of the first Scissor Arm**

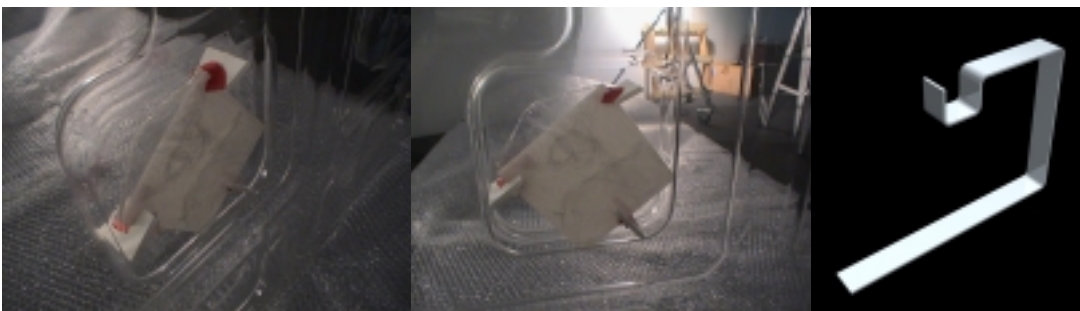
06.07.03. On Saturday 06 David Poulton completed the final finishing details for the first production Scissor Arm in readiness to fix it into the Screen Lounge pod 01 at ACMI at Federation Square. Polyethylene glides were attached to the Scissor Arm to provide a slippery base for it to swing out on. The Spacedec ball joint was attached to the head of the arm to receive the LCD control screen. This Scissor Arm will be installed in the week of the 7th July.



Above: the first production Scissor Arm showing the attached Spacedec head and the Polyethylene glides in place.

06.] **Report on construction progress: Designing and sourcing stainless steel clips for the Blister pack.**

The Blister Pack Memory Wall contains 18 images, each suspended within its own acrylic blister. These images are held in place with 4 stainless spring steel clips that centre each image within its blister and hold the image to its optical fibre light guide. After extensive research and consultation a final design has been chosen for the clips and tenders have been sought for their manufacture. A render of the proposed clip is shown.



Left: Simple foam core spacers inserted into a blister in the Blister Pack wall around a sandwich of acrylic to contain an image, testing the required width for the final image clips to suspend the image sandwiches, render of stainless spring steel clip.

07.] **Report on construction progress: Completing fabrication of the open seater Screen Lounge pods.**

The two open seater Screen Lounge pods are internally lined and externally skinned at Crowd Productions studio in Prahran. We are expecting completion of these units shortly. Shown, is one of the pod chassis units coupled with the transport wheels demonstrating the nomadic design detailing embedded in the overall design strategy.



08.] **Report on construction progress: Consultation with Tensys on the inflatable ceiling.**

11.07.03. On Friday 07 July Tensys prepared CAD sections of the inflatable ceiling that will be used as a basis for developing the baffles used to constrain the ceilings form. Crowd will prepare one to one scale drawings of the ceiling sections at the principal seams. In discussion with Peter Lim from Tensys, Crowd will then prepare full scale baffle patterns for Bedggood Canvas to copy in polyurethane and insert into the ceiling prototype.



09.] **Time line /Job Schedule for ACMI Screen Lounges 01 to 03 as at 12.07.03**

NB: All dates subject to change based on client approval and subcontractor availability.

01.] Crowd to install preliminary Blister Pack image sandwiches in Lounge 01: Thursday 17.07.03

02.] Crowd to deliver Screen Lounges 02 + 03: Friday 18.07.03

03.] Crowd to further refine Scissor Arm in Screen Lounge 01: Tuesday 22.07.03

04.] Crowd to reinstall prototype inflatable ceiling with modifications to Lounge 01: Tuesday 22.07.03

05.] Crowd to install Fibre Optic Loom and Blister Pack: Thursday 25.07.03
