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ACMI Screen Lounges: Progress report on construction

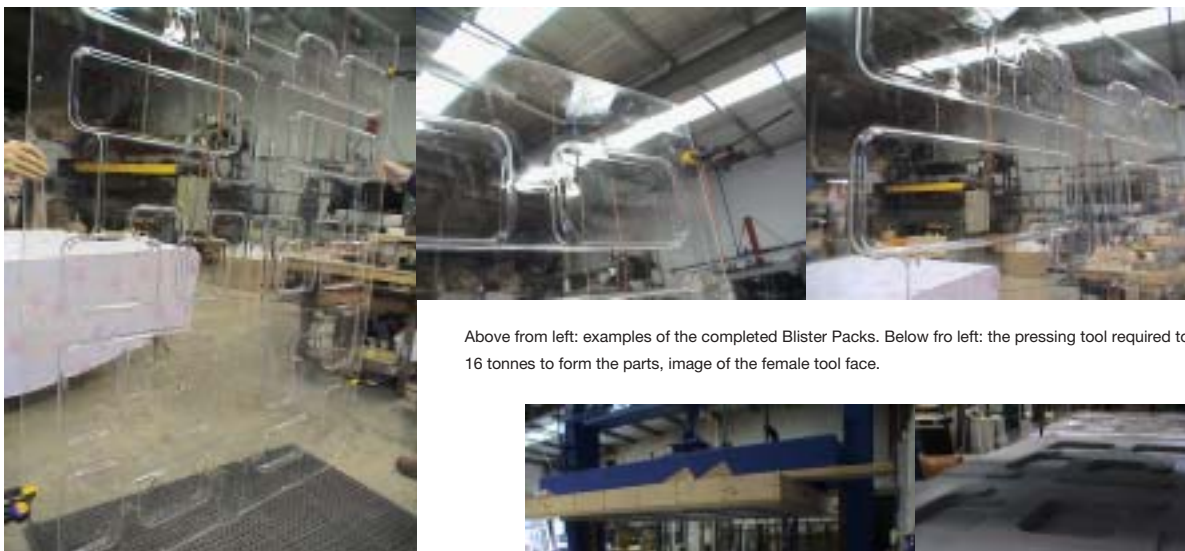
From **Crowd Productions**: A report on progress of research, design and construction work to [18.06.03](#)

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

04.06.03 On Wednesday 04 June Crowd met with ACMI stakeholders, PIVoD and CMR to discuss design and construction progress of the Screen Lounge pods. Crowd confirmed again that the forth wall, the Blister Pack will be installed shortly and that the inflatable ceiling will not be not arriving for the opening of Remembrance Two. Discussion ensued about delivery of the next two pods, potential onsite storage and exhibition space conflicts. Crowd anticipates delivery of the next two pods in late June. Gael offered temporary storage space within the Memory Grid area. A timetable for commissioning and onsite storage will need to be developed via discussion between PIVoD, Crowd and ACMI.

02.] Report on construction: Fabrication completion of the Blister Pack acrylic panels.

17.06.03. On Tuesday 17 June Crowd reviewed fabrication of the Blister Pack acrylic panels by Skytec Plastics. All Blister Packs have been fabricated. This particular process has been much more fraught and complex than first imagined. The completed Blister Packs will be delivered to ACMI at Federation Square on Wednesday 18 June



Above from left: examples of the completed Blister Packs. Below fro left: the pressing tool required to deliver the 16 tonnes to form the parts, image of the female tool face.

03.] Report on Construction: Supply of the Scissor Arm knuckle connectors for the LCD control screens.

Crowd has taken delivery of all the remaining required Spacedec ball jointed knuckle connectors required to connect the stainless steel Scissor Arms to the LCD control screens. The particular unit has been selected carefully from the Spacedec range. As with the prototype the Spacedec unit is heavily modified to interface it to the Scissor Arm.



04.] Report on design progress: Assembly of the Plasma Screen monitor support system

10.06.03. On Tuesday 10 June Crowd and Matthew Mulcahy, from ACMI, installed the first Plasma Screen support bracket system within the Screen Lounge pod 01. Matthew has detailed a universal bracket system using AME extrusions to connect all of ACMI's Plasma monitors to the different support structures required. This bracket includes extensions to support the speakers required additionally to the monitor. Crowd has developed a simple AME bracket to interface with Matthew's system. As a result of the speaker extensions we have had to redesign this bracket. It has been installed for testing. Max Goode has proposed further modifications to reduce the profile and visibility of the system.



From left: The wall mounted AME support bracket, the wall mounted support bracket and Plasma Monitor, the bracket and monitor with Electrovoice speakers attached.

05.] Report on construction progress: Meeting with Mitchell Plastics on the Fibre Optic Light Guides.

02.06.03. On Monday 02 June Crowd met with Mitchell Plastics to discuss products for possible use in the Blister Pack fibre optic light guides for the image display units. Mitchell Plastics specialise in designing and fabricating low profile light boxes. They manufacture a sandblast finished 10mm deep acrylic sheet for edge lit light boxes. We examined and tested this product against the trial sandblasted acrylic light guide we had prepared. Our unit out performs the pre-prepared product. Mitchell Plastics advised us on other fabrication procedures to undertake to enhance the performance of our units such as reflective edge taping and edge polishing. This was very valuable advice. We have sourced two other products from Supply One, a frosted crystal finish vinyl sheet and an etched glass finish vinyl sheet, both for use in edge lit light box design. Both have been tested in relation to our proposed design and do not perform as well as our sandblasted prototype. Additional performance from our light guides has been achieved by reversing the orientation of the sandblasted guide in relation to the image plane.

06.] Report on construction progress: Finishing the partition frames

The partially assembled partition frames and tripod leg units have been delivered to Checca Spray painting for surface finishing. When painted, the parts will be forwarded to the different final finishing fabricators selected for each partition type. The Woven partition frame will be sent to Wendy Golden. The acoustic partition frames will be assembled by David Poulton and the acrylic partitions will be assembled at Crowd's studio in Prahran.



07.] Report on construction progress: Production of the identification stickers for the Screen Lounge pods and Memory Grid pods

Crowd has produced a number graphic system to identify the different pods and incorporated the Memory Grid logo where appropriate. This graphic strategy was presented in Report 23 and approved. The number system is based on the television screen pixel matrix.

21.05.03. On Wednesday 21 April Crowd Productions met with Super Screen to discuss fabrication of the identification stickers. Durability and crispness are key issues in determining the appropriate techniques for producing the stickers. CNC cut vinyl letterforms will be used for the text and adhesive transparent digital printing will be used for the Memory Grid device. Examples of the numbers and their relationship to the Memory Grid logo are shown. In consultation with Natasha Dwyer, Graphic designer with ACMI Public Programs, it was agreed that the current printed brochure produced by ACMI should be the colour index against which Crowd reference our printing colours for the Memory Grid stickers. This was determined as the Memory Grid logo was designed for screen based use and we needed to create an agreed print reference.



08.] Report on construction: Meeting with Tensys Engineering on details of the Inflatable Ceiling

06.06.03 On Friday 06 June Crowd met with Peter Lim from Tensys Engineering to discuss fabrication details for the Inflatable Ceiling. We have agreed on the typical seam details, outer edge seam details and rope track edge details. We have opted to use overlap seams along the leading edge to retain a curved form along the leading edge. Tensys have determined that the polyurethane will require seams of 20mm to 25mm in depth to maintain the required seal. To accommodate these along the rope track edges we will connect the rope track chord directly to the polyurethane seams. We determined the overlap details for the seams at the corners and additional strength seams around the pressure valves. Peter Lim will cost CNC plotting of the pattern that Tensys has produced. Crowd will organise rope track fabrication tests by Bedgood canvas to test our seam and corner seam details. We have also had confirmation that the polyurethane fabric will arrive in Australia on 15 June.

09.] Report on construction: Preparation of CAD drawings for the production Scissor Arms.

The CAD drawing patterns for laser cutting the production Scissor Arms have been completed. These CAD patterns are being laser cut at MTM to create the stainless steel patterns ready for forming up in a sheet metal brake press.

10.] Report on construction: Review of construction of Screen Lounge/Memory Grid pods 02 and 03

13.06.03. On Friday 13 June Crowd reviewed progress on construction of the Screen Lounge pods and Memory Grid pods at Riva Fab. All four remaining chassis have been fabricated. The skeletons of the next two pods are half way through complete assembly. The principle sub assemblies for all pods have now been prepared. The fibreglass external seat and all coving components have been fabricated and delivered to Riva for final assembly. All aluminium skins for the remaining pods have been measured and trimmed and delivered to the spray painter for surface coating in silver along with the mild steel frame for the Woven Partition. Crowd will travel to

Riva Fab in the week of June 23 to oversee finishing assembly and delivery of the pods to Melbourne for attaching final trims.



Above from left: Fibreglass seat shells at Crowd awaiting pick up to Riva Fab, The upper skeleton frame elements of the next Screen Lounge and Memory Grid pods, the chassis and lower skeleton frames of the Screen Lounge pods, the completed sub frame fabrication of the skeleton elements for the final two Screen Lounge pods. Below: Riva Fab.

