CSIRO ACOUSTIC MEASUREMENT REPORT

Commonwealth Scientific and Industrial Research Organisation, Infrastructure Technologies Acoustics Testing Laboratory, Gate 5, 2 Normanby Road, Clayton, Vic 3168 Australia

Woven Image Pty. Ltd. Client:

37-39 Chard Road, Brookvale, NSW 2766 Australia

Measurement Type: Sound Absorption

AS ISO 354–2006 "Acoustics–Measurement of sound absorption in a reverberation room" AS ISO 11654–2002 (ISO 11654:1997) "Acoustics–Rating of sound absorption–Materials and systems"

Test Specimen [Specimen area: 3.60 x 3.01 m = 10.82 m²]

Name: Woven Image Corrugated 3d Thermoform Wall Panel - Tested with no air gap and no

insulation in the underside cavity

Test Specimen Details: · Specimen composition:

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- Top Layer: 100% PET (60% recycled), thickness: 1.90 ± 0.25 mm, surface density: 350 gsm - detail image of sound-incident face at right; 2 colours comprised the test sample: 'Vanilla' (Woven Image ref. 908 – bottom image at right) and White base w/ Dark fibres (Woven Image ref. 501 – Top image at right)
- Bottom Layer: 100% PET (70% recycled), thickness: 2.50 ± 0.25 mm, surface density: 1000 gsm; charcoal coloured
- Binding agent: Laminated with low melt scatter glue @ 25 gsm
- Infill installed in cavity @ underside of panel: none
- Supplied for testing as discrete panels of individual dimension nom. 900 x 500 x 25-50 mm Installation:
- The reverberation chamber was swept and vacuumed to remove dust.
- The test specimen was installed directly on the concrete floor of the chamber with no insulation installed in the void under the thermoformed panel.
- The specimen for testing consisted of 24 complete panels and were arranged in a rectangle of dims
- 3.600 x 3.005 m (6 x 4 array), at an angle of 9° with the walls of the chamber (as per AS ISO 354). The perimeter edges of the test specimen were covered with a skirt of 1 mm thick folded steel
- angle, 50 mm high. Skirting members were pushed against the edges of the panels; pushing the
- panels against each other and minimising gaps at the skirt. Specimen installation was carried out by laboratory staff.
- **Measurement Details & Results**



Test specimen installed in laboratory



Front and underside of the 3d Corrugated Thermoform Wall Panel



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