



ISO 9001:2008 CERTIFIED
DEFORMULATION
MATERIALS IDENTIFICATION
FAILURE ANALYSIS
LITIGATION SUPPORT
CONSULTING

Testing Results for Sonacoustic International BV

November 30, 2017

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**SUMMARY OF TESTING DATA AND RESULTS FOR
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November 30, 2017

Purpose of Testing: The purpose of this testing was to evaluate the whiteness of the sample identified as 8 x 13cm Power Acoustics, glasswool + plaster using ASTM E1331.

Results: The Stensby whiteness index for the overall average of this material was determined to be 98.7. The index ranges from 97.03 to 99.31 using the minimum and maximum values as shown in Table 1 below. The average light reflectance value of the product was determined to be 95.06 on a scale from 0 (no reflectance, black) to 100 (pure reflectance, white).

Color: The as-received sample was analyzed using an X-Rite spectrophotometer. The analysis conditions consisted of three measurements per side plus a center area. The results of the analysis have been summarized in Table 1 below.

Table 1. Color Results for the Power Acoustics Panel (S1)

READING LOCATION	L - LIGHT REFLECTANCE	A - RED/GREEN	B - YELLOW/BLUE
Center	95.20	+0.84	-0.84
Center	95.12	+0.76	-0.44
Center	95.06	+0.57	+0.26
Left	95.00	+0.81	-0.68
Left	94.84	+0.79	-0.63
Left	95.14	+0.63	-0.17
Right	95.08	+0.85	-0.83
Right	95.04	+0.87	-0.92
Right	95.10	+0.58	0.05
Overall	95.06	+0.74	-0.47

Color Test Description: Using an X-Rite SP62, absolute and difference measurements are obtained for the following colorimetric systems, including: $L^*a^*b^*$, $\Delta L^*\Delta a^*\Delta b^*$, $L^*c^*h^\circ$, $\Delta L^*\Delta C^*\Delta H^*$, ΔE^*ab , $\Delta ECMC$, $\Delta E CIE94$, XYZ, Whiteness and Yellowness per ASTM E313. Primarily used for $L^*a^*b^*$ measurements, which is a measure of lightness, green/red and yellow/blue properties of the sample. ASTM methods for this include D1544.