NWAA Labs

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SOUND SURFACE REFLECTION
TEST REPORT #: NWSR230621-09

Client: RealAcoustix LLC
2361 B Avenue.
Ogden, UT 84401

Test Date: 21 June 2023
Report Date: 29 June 2023
Test Specimen: RQS-500 Diffuser

INTRODUCTION

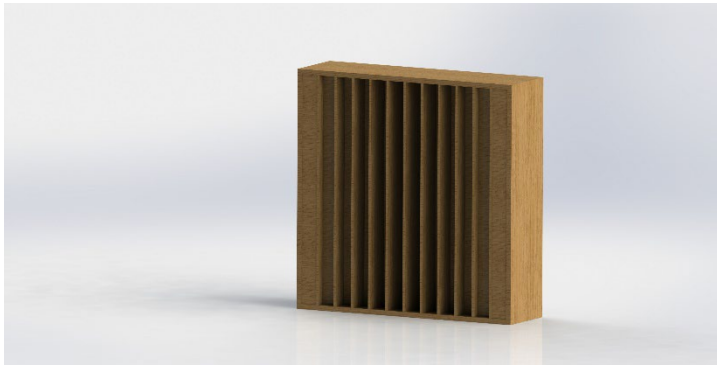
The methods and procedures used in this test conform to the provisions and requirements of ASTM Preliminary Procedure, *Standard Test Method for Surface Reflections by the Modified AES Standard AES-156.T*he test volume is a cuboid, 205.74 m (675.0 ft) long by 106.68 m (350.0 ft) wide by 18.29 m (60.0 ft) high, and volume is 401,391.3 m^3 (14,175,000.0 ft^3). There are six fixed surfaces in the test volume. There is a single source consisting of a SoundTube, 8inch speaker mounted in a pendant mount above the DUT on the microphone arc next to the #1 microphone about 3degree off to the side. We utilize nineteen Earthworks M-30 Omni directional microphones mounted in an arc, with the center of the arc located at the rotational origin of the DUT to gather the data. This test report relates only to the item(s) tested. Any advertisement that utilizes this test report or test data must not imply product certification or endorsement by NWAA Labs and must include all pages of the report.

DESCRIPTION OF TEST SPECIMEN

The test specimen consisted of one sample unit that is 60.96 cm (24.0 inches) long by 60.96 cm (24.0 inches) wide by 16.83 cm (6.625 inches) thick flat panel mounted in the DUT test position. These panel was made from wood material. (See Pictures).

DESCRIPTION OF BASIC TEST RESULTS

Rated Bandwidth (-6Db)	**1250Hz-8000Hz**
Coverage Angles (4.0KHz)	**150 deg H by 22 deg V**
Material Construction	**2 ft by 2 ft Wood**
Type of Surface Reflector	**Prime 11 Quadratic Residue Diffuser.**



Submitted by,
NWAA Labs Inc

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Ron Sauro
NWAA Labs Inc

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