

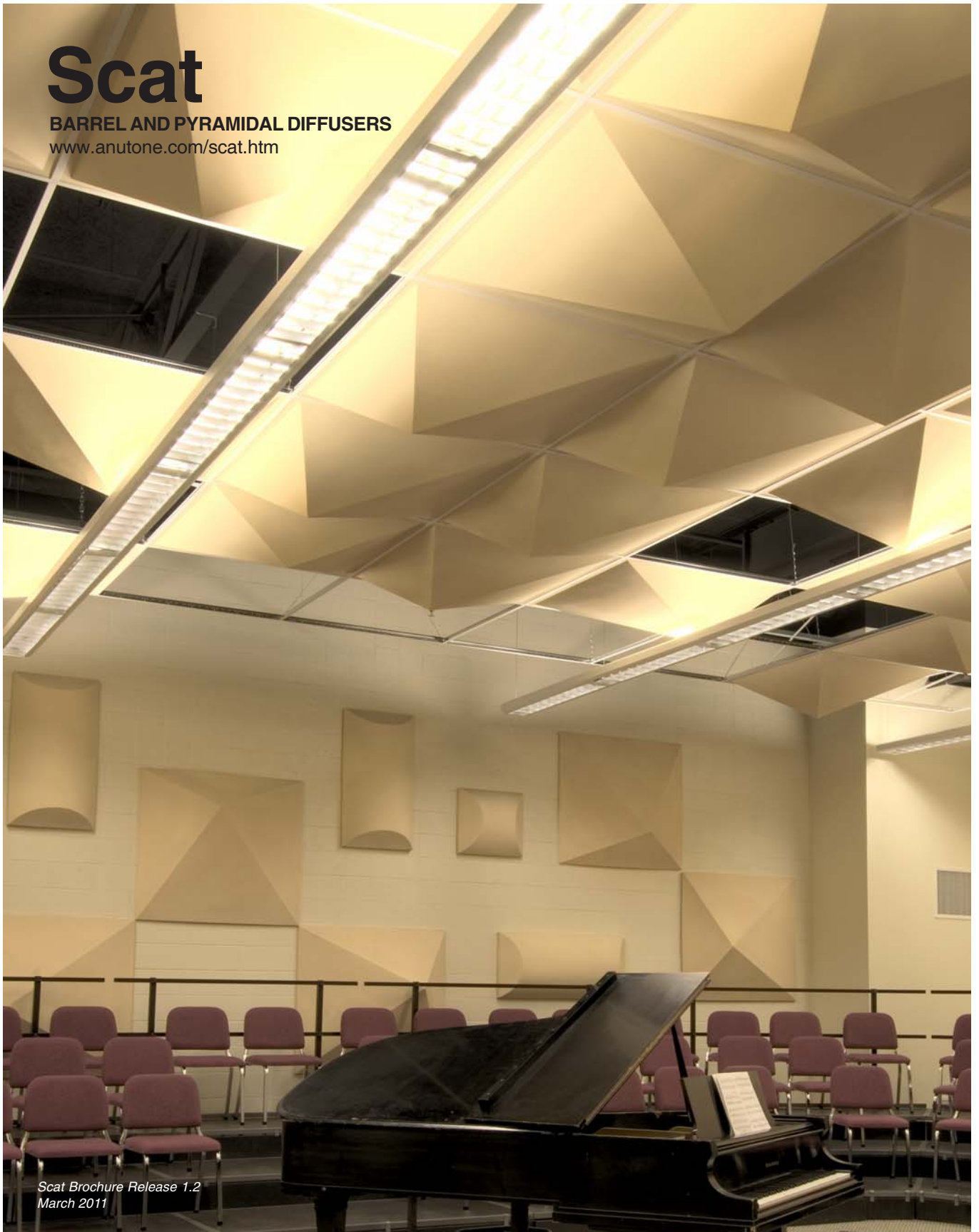
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Scat

BARREL AND PYRAMIDAL DIFFUSERS
www.anutone.com/scat.htm



*Scat Brochure Release 1.2
March 2011*

Scat

Key Attributes

Scat Diffusers are designed for use in performance areas, auditoriums, music rooms and other speciality facilities requiring enhanced quality and acoustical performance.

Scat scatter and blend sounds for a broad range of frequencies and improve the quality of music environments.

By reflecting and absorbing sounds, diffusers blend the sound field in a room resulting in a more pleasant listening experience.

These rugged and easy to install diffusers are supplied with hardware for either wall or ceiling applications.

Composition

Scat are constructed of 3mm thermoformed fire resistant plastic, and are moulded to a one-piece barrel or a special offset pyramidal shape.

The surface is white and lightly textured, or, fabric can be applied directly to the face forming a full finished edge with tailored corners. The internal portion can be lined with 38mm thick layer of core batts to enhance sound absorption.

Availability

Scat are offered in a white lemon peel texture, or are available with fabric coverings.

Dimensions

Pyramidal 600 x 600, 600 x 1200, 1200 x 1200 mm

Barrel 600 x 600, 600 x 1200, 600 x 1200, 1200 x 1200, 1200 x 2400 mm

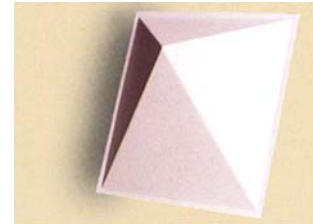
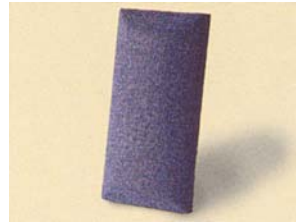
Barrel diffusers normally have faceted ends; alternately, long dimension facets can be specified in all sizes.

Architectural Specs

Specifications for Scat Barrel & Pyramidal Diffusers

Part 1 Scope

- 1.1 Work in this section shall be subject to drawings, general conditions, schedules, addenda and other contract documents.
- 1.2 The extent of the acoustic diffusers is shown on the drawings and in the schedules.
- 1.3 Submit samples of each type of acoustical panel as shown on the drawings and in schedules and include appropriate technical information including test data and maintenance instructions. Where specified, submit fabric selector cards from manufacturer's standard finishes, or designer specified finishes.
- 1.4 Building shall be properly enclosed and under standard occupancy conditions prior to installation.
- 1.5 Substitutions or changes will only be permitted by prior approval by the architect.



Fire Performance

Surface burning characteristics

Components have been tested in accordance with ASTM E84* and determined to have a Class I/A rating.

Acoustical Performance

The NRC value for each product was determined in conformance with Test method ASTM C423, using the D5 mounting (5mm airspace)

Pyramidal	NRC
1200 x1200 mm Thermoformed	0.10

Barrel	NRC
1200 x1200 mm Thermoformed	0.10

Data is also available upon request for fabric covered, insulated interior and other mounting configurations.

Installation

Scat Wall Diffusers, which have a straight edge, mount using a combination of L-angles and hook and loop fasteners.

Scat Ceiling Diffusers normally come in a flanged configuration to fit standard-sized ceiling grid. Note that internally lined diffusers require heavy-duty grid. Optionally, Ceiling Diffusers can be supplied with straight edge and L-angles for direct mounting to solid surfaces.

Warranty

Scat panels have a limited 3 year warranty when used on walls and 1 year on ceilings, starting from the date of purchase. The panels are warranted to be free from defects in material and workmanship.

Part 2 Materials

- 2.1 Scat Pyramidal Diffusers shall be constructed of: 3mm Thermoformed plastic: 600 x 600 mm, 600 x1200 mm and 1200 x 1200 mm Pyramidal. Actual wall mount sizes are 28mm less, 572mm and 1172 mm. The diffuser is moulded in one-piece special offset pyramidal shape. If required, the internal pyramidal portion of the diffuser shall have (38 mm thick layer core batt adhered to it) or (fire resistant gypsum board). Sizes shall be nominal (600x600), (600x1200), (1200x1200).
- 2.2 Scat Barrel Diffusers shall be constructed of: 3mm thermoformed plastic: 600x600, 600x1200, 1200x600, 1200x1200, 1200x240, mm. Actual wall mount sizes are undersized 28 mm (example: 600x1200 mm is actually 572 and 1172mm. The diffuser is moulded in

one-piece special barrel shape. If required, the internal concave surface of the diffuser shall have 38mm thick layer core batt adhered.

2.3 Panel finish shall be (white, lightly textured), (woven polyester fabric). Fabric finish shall be applied directly to the face and edges of the panel and returned to the back of the panel to provide a full finished edge; all corners to be fully tailored.

2.4 Edges shall be (flanged) for laying into grid, or (straight) for wall and some ceiling applications.

2.5 Where ceiling diffusers with internal liner are specified the grid shall be rated heavy duty. All grid shall be 24mm width.

2.6 Diffusers shall be mounted utilising concealed L-Angle / Hook and Loop for wall application.

2.7 Diffusers shall have a Noise Reduction Coefficient of ____, and sound absorption coefficients of ____ at 125 Hz, ____ at 250 Hz, ____ at 500 Hz, ____ at 1000 Hz, ____ at 2000 Hz, and ____ at 4000 Hz. (Select from Technical Bulletin "Application & Performance of Acoustic Wall & Ceiling Diffusers")

2.8 All components utilized in the construction of the Respond Diffusers shall meet a Class A rating as tested per ASTM E-84, Surface Burning Characteristics of Building Materials.

Part 3 Execution

3.1 Installation of all Scat Diffusers shall not begin until all wet work, such as plastering, concrete, etc. is completely dry. The panels are designed for installation under standard occupancy conditions from 20 to 40 degrees C and at not more than 80% RH in an enclosed building.

3.2 The contractor shall be responsible for the examination and acceptance of all surfaces and conditions prior to panel installation.

3.3 All Scat shall be installed in accordance with the manufacturer's specifications and recommendations.

3.4 All necessary hardware and accessories for the complete job installation are to be furnished by the contractor.

3.5 Protection – Protect installed work from damage due to subsequent construction activity on the site.





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