



CEILING SYSTEMS

Between us, ideas become reality®

SOUNDSCAPES
Acoustical Canopies



Armstrong®

SOUNDSCAPES Acoustical Canopies



Key Selection Attributes

- Enhance acoustics with spot absorption
- Aesthetically define spaces and enhance acoustic in open plenum spaces with spot sound absorption
- Curved panels can be used as 'Hill' or 'Valley'
- Six standard colors; custom colors available
- Adjustable to special heights
- Energy-efficient, high light-reflectant surface
- Easy to use hardware system for fast/easy installation
- Color co-ordinate with SoundScapes shapes



SoundScapes Canopies 1220 x 1830 mm Hill and Valley panels in White
Steelcase University Learning Center, Grand Rapids, MI



Color Selection

Due to printing limitations, shades may vary from actual product.



Traffic White
RAL9016



Light Ivory
RAL1015



Pale Green
RAL6021



Pastel Blue
RAL5024



Traffic Grey
RAL7042



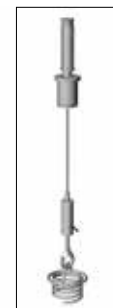
Pale Brown
RAL8025

NOTE: Special care in installation and handling must be taken with color canopies to avoid surface damage to the paint finish.

Detail



Matching paint finish
on all sides and edges



Embedded hardware in
back of panel

Cover photo:
SoundScapes Canopies 1220 x 1830 mm Hill panels in White
One Kendall Square, Cambridge, MA

Acoustical Performance

Sound Absorption in Sabin

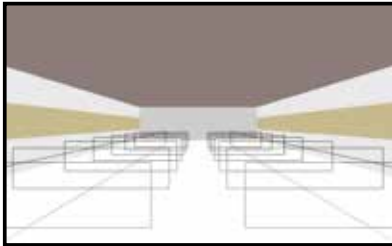
The Sabin is the unit of total sound absorption provided by an object. This is the preferred metric for “space absorbers” such as clouds, canopies or baffles installed within an architectural space. Total acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC while “space absorbers” are directly measured. SoundScapes Acoustical Canopies provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces. The installation of canopies

in a reverberant space can significantly reduce the background noise and reverberation time, enhancing speech intelligibility.

Factors that may affect the installed acoustical performance relative to the published results are:

- Size and shape of canopy
- Number of canopies and their layout/location
- Suspension distance below exposed deck or finished ceiling

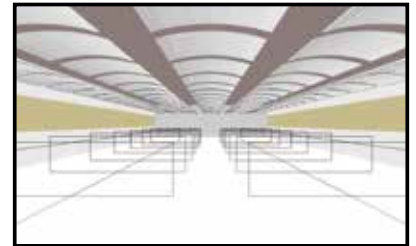
EXPOSED STRUCTURE



25% SOUNDSCAPES CANOPIES



50% SOUNDSCAPES CANOPIES



5,000 SF Exposed Structure (15240 x 30480mm), 4572mm to deck, drywall with windows two sides, commercial carpet

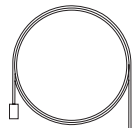
Acoustic Solution	None	SoundScapes Canopies @ 25% of ceiling	SoundScapes Canopies @ 50% of ceiling
	Exposed Structure		50 Canopies (1870x1180mm)
Reverberation Time (sec)	3.4	1.5	0.9
RT reduction (%)	ref	57%	73%
SPL reduction (dB)	ref	-3 dB	-4 dB
Sound Absorption in Sabin (metric) for Coverage Area	ref	50 canopies @ 2.44 Sabin/panel = 122 Sabin	100 panels @ 2.44 Sabin/panel = 244 Sabin

Kit Components

- Pre-curved SoundScapes Canopies
- Hardware and aircraft cables included



Cable Adjuster



Aircraft Cable



Locking Gate Hook



Spiral Anchor

Panel Selection

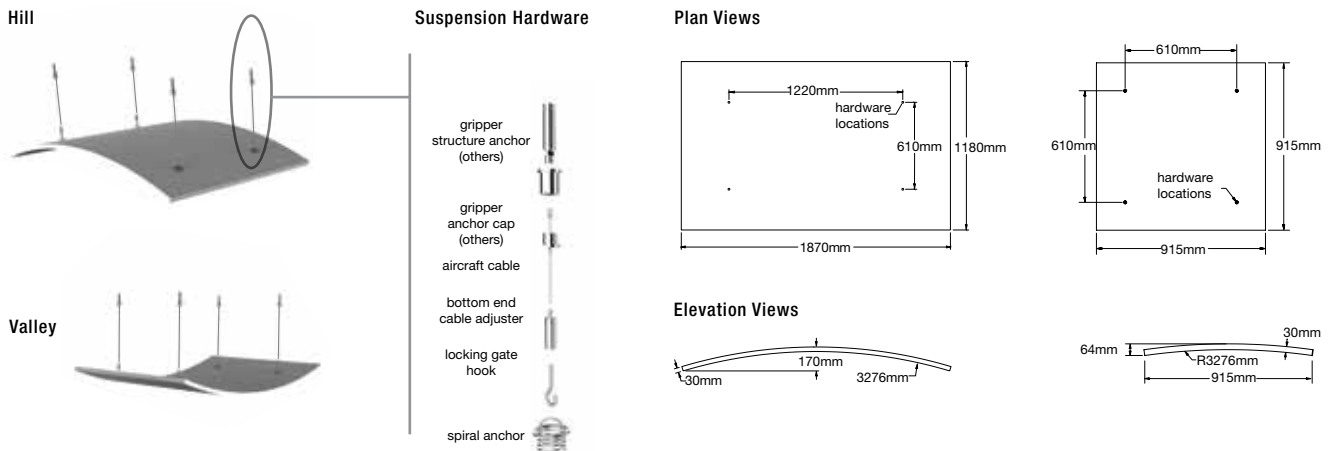
Item No.*	Description	Dimension (mm)			Sabins (Metric)/Panel
		Length	Width	Thickness	
187018130S	Large Hill	1870	1180	30	2.44
	Large Valley	1870	1180	30	2.44
94194130S	Small Hill	915	915	30	0.95
	Small Valley	915	915	30	0.95

* Add 2-letter color suffix to item number when specifying or ordering (ex: 6258 L M) * Exact dimensions for each canopy are shown on page 4 inside.

Item No.	Description
625530	Deck Hanging kit (Cable Adjuster+Aircraft Cable+Locking Gate Hook+Spiral Anchor)
7006	Escutcheon Kit – Used when hanging canopy below an existing ceiling; 2 kits needed per SoundScapes panel.

SOUNDSCAPES Acoustical Canopies

Installation Options and Details



Physical Data

Material

Curved canopy 30mm thick fiberglass with DuraBrite® scrim on face and back, painted sides.

Surface Finish

DuraBrite with factory-applied paint on face and back, painted sides. Standard White has energy-saving, high light-reflective finish (LR 0.90).

Design Considerations

Special care in installation and handling must be taken to avoid surface damage to the paint finish. Due to slight thickness and paint system variations, do not mix SoundScapes Canopies with other SoundScapes products.

Fire Performance

SoundScapes Canopies panel material is A STM E84 Class A : Flame Spread 25 or under and Smoke Developed 50 or less.

SoundScapes Canopies, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

ASTM E1264 Classification

Type XII, Form 2, P pattern E

Acoustical Performance

Acoustical performance differs based on panel size. See chart above for more information.

Recommended Suspension Systems

SoundScapes Canopies ships with the recommended installation components.

Seismic

SoundScapes Canopies must be installed to allow for 457mm of movement in each direction. Two panels must be installed a minimum of 915mm from each other.

Panel Weight

Large Canopy - 23 Kgs./Panel
Small Canopy - 8.5 Kgs./Panel

Warranty

One (1) year limited warranty.



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