

Sonofonic™

Acoustic Ceiling Panels



Product Description & Applications

Sonofonic Acoustic Ceiling Panels are part of the *Sontext* range of interior noise control systems. The systems are designed to allow flexibility in interior design, while at the same time significantly improving the sound quality of internal spaces by controlling reverberation.

Sonofonic Acoustic Ceiling Panels are designed to provide a quiet, visually pleasing environment for interior spaces that may be otherwise difficult to utilise fully, simply because: (a) noise levels may be unacceptably high, or (b) reverberation causes speech, music, etc, to be hard to hear clearly or is distorted. Sonofonic Panels consist of a lightweight fire resistant core with a cleanable, slightly textured paint finish. The panels are available with a variety of edge profiles to fit most available suspended ceiling grid systems. Typical applications include boardrooms, open plan commercial offices, lecture theatres and hospitality function rooms.

Panel Dimensions

Edge Profile	Panel Thickness		
	15mm	20mm	30mm
Square	600x600	600x600	
	600x1200	600x1200	
		1200x1200	
Tegular	600x600	600x600	
	600x1200	600x1200	
		1200x1200	
Concealed A		600x600	
		600x1200	
		1200x1200	
Concealed B		600x600	
		600x1200	
		1200x1200	
Concealed C		600x600	
		600x1200	
Direct Fix to Ceiling (see sep. Data Sheet)		600x600	
		600x1200	

Available Edge Profiles*

Square Edge	
Tegular Edge	
Concealed Grid	



*For more information on Sonofonic Ceiling Panels consult the Supplementary Data Sheet "Sonofonic Edge Details and Surface Finishes", available from Sontext (contact details shown on P.2)

Key Attributes of Sonofonic Panels

- **Sound absorption: Excellent (see P.2)**
- **Surface Finish: Textured, cleanable paint finish. Choice of three.**
- **Light Reflectance: High (standard finish is flat white)**
- **Humidity, Sag & Moisture resistant**
- **Choice of edge profiles**
- **Fire Resistance: Class 1 (BS476 Part 6&7)**
- **Lightweight (approx. 2.0 kg/m² for 20mm thick panel)**
- **Cleanable: Can be detergent cleaned.**



Available Surface Finishes

Sonofonic Ceiling Panels are coated with a durable finish called Tonasorb™. This finish is available in three grades, 700# Microporous, 600# Embossed, and S101# Textile — each of which provides a different combination of subtle textured appearance and sound absorption performance.

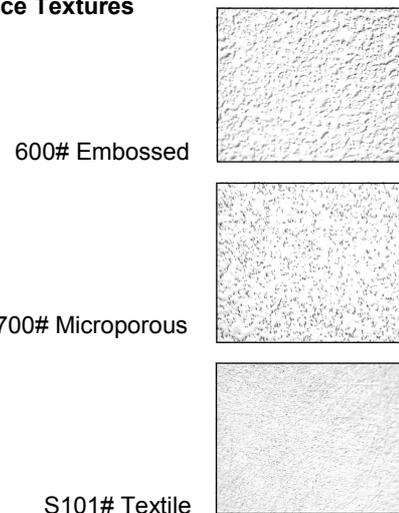
Tonasorb gives Sonofonic Ceiling Panels a high impact, cleanable surface but allows sound waves through to be dissipated by the sound absorbing substrate. Tonasorb has a very high light reflectance for both incident daylight and internal lighting systems.

Tonasorb finish is factory applied to the face and all exposed edges of the panels. The rear side of all Sonofonic panels is sealed with a non woven glass fibre scrim.

Colours

Sonofonic Acoustic Panels are available with either white or black as standard. Other colours are available on request, subject to minimum order quantities.

Tonasorb Surface Textures



Acoustic Performance

Surface Facing	Thickness (mm)	Frequency (Hz)	125	250	500	1000	2000	3150	4000	5000	NR C
			Sound Absorption Co-efficients								
700#	15		0.88	1.12	1.16	0.88	1.08	1.08	1.00	1.04	1.00
700#	20		0.45	0.80	1.00	0.90	1.00	1.03	1.02	1.03	1.00
600#	15		0.64	1.00	0.96	0.80	0.92	1.04	1.00	1.08	0.90
600#	20		0.72	0.92	0.92	0.80	0.92	1.00	0.92	0.96	0.90
S101#	12		0.68	1.04	1.00	0.72	1.00	1.04	1.08	1.12	0.95
S101#	15		0.48	0.96	0.92	0.70	0.80	0.96	0.88	1.00	0.90
S101#	20		0.55	0.80	0.90	0.85	0.95	1.01	1.03	1.01	0.90

Acoustic tests were performed to ISO354 (Measurement of Sound Absorption in a Reverberation Room). 20mm thick Sonofonic panels with 700# and S101# facing were tested by MULLER-BBM (Germany) mounted with a 180mm air gap. (Test Certificates available). All other panels were tested by Tongji University Institute of Acoustics (China), with a 200mm air gap behind.

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ACOUSTIC & TEXTURAL CREATIVITY

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