ecosil®
CRAFTING SILENCE. ENHANCING WELLNESS

ACP®

# ACOUSTIC

## CEILING PANEL

**By acting as a barrier that reduces heat transfer between spaces, enjoy tons of energy saving by reducing the need for excessive cooling or heating.**

# FEATURES & BENEFITS

Perfect for any setting, whether it's an office, house, cinema, or fitness center, our panels combine great sound and thermal performance. Check out the features and benefits listed below to see how they can enhance your space with both style and functionality.

- DO NOT CAUSE IRRITATION TO SKIN
- MOULDABLE TO CUSTOMIZE ARTWORK AVAILABLE
- HEAT INSULATOR (SUBSTANCE THAT ARE GOOD AT PREVENTING HEAT TRANSFER)
- ESG (ENVIRONMENTAL SOCIAL GOVERNANCE COMPLIANCE WITH SUSTAINABLE MATERIAL)
- LIGHT WEIGHT
- RIGID YET FLEXIBLE
- FIRE RETARDANT FELT
- EASY TO INSTALL
- GOOD SOUND ABSORPTION PERFORMANCE
- SOUND DAMPENING
- NON HEALTH HAZARD (RoHS COMPLIANCE)
- ECO FRIENDLY (70% ABOVE RECYCLE MATERIAL)

ELEVATE SPACE

INCREASE FOCUS

DIFFERENT SHADES CHOICES

# ACOUSTIC

## CEILING PANEL

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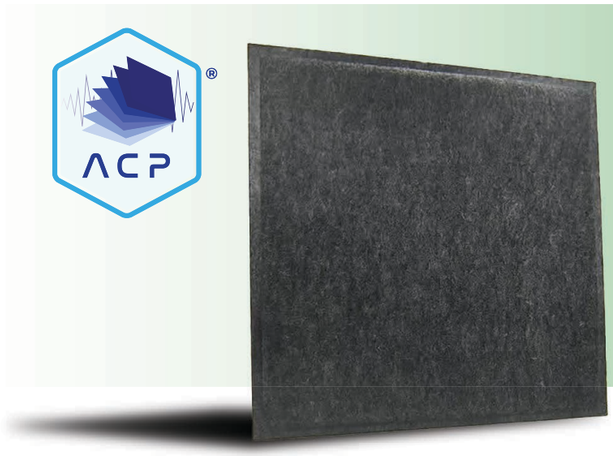
## CEILING PANEL



By changing the asbestos ceiling board to Acoustic Ceiling Panel (ACP) , the roofing heat from the afternoon hot sun and noise from heavy rain will be shielded. With less heat, it also helps to save air conditioning electricity, in addition to making the room more comfortable to stay in. It is easy to use and install.

## FELT

AVAILABLE IN

| Thickness (mm) | Density (gsm) | Dimension (mm²) |
|---|---|---|
| 20 mm | 1200 gsm<br>2000 gsm<br>2400 gsm | 300 x 300 mm<br>300 x 600 mm<br>300 x 1215 mm<br>600 x 1215 mm<br>600 x 600 mm |
| 40 mm | 1200 gsm<br>2000 gsm<br>2400 gsm | 300 x 300 mm<br>300 x 600 mm<br>300 x 1215 mm<br>600 x 1215 mm<br>600 x 600 mm |
| 60 mm | 1200 gsm<br>2000 gsm<br>2400 gsm | 300 x 300 mm<br>300 x 600 mm<br>300 x 1215 mm<br>600 x 1215 mm<br>600 x 600 mm |

**Note:**
**Custom made size (dimension & density) is available based on request.**

# PRODUCT APPLICATION

Our acoustic ceiling panels are perfect for offices, meeting rooms, classrooms, libraries, and recording studios—spaces where focus and clear communication matter most. They effectively minimize noise and echo, creating a calm, productive, and acoustically balanced environment.

They're also perfect for cinemas, auditoriums, and worship spaces, ensuring clear sound distribution and a comfortable acoustic environment.

# SPECIFICATION

## ELEVATE SPACE

Transform interiors with sleek, modern ceiling designs that enhance aesthetics while improving overall acoustic comfort and functionality

## INCREASE FOCUS

Reduce distractions with superior sound absorption, creating quieter, more focused environments ideal for work, study, or collaboration.

## COLOUR RANGE

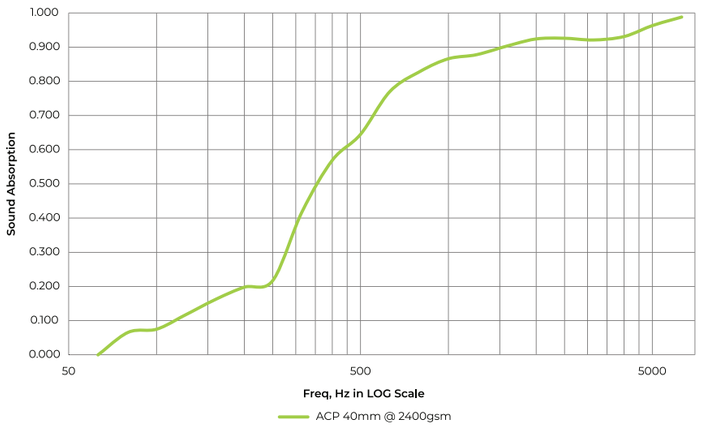
MULTIPLE COLOR RANGE SUBJECT TO AVAILABILITY

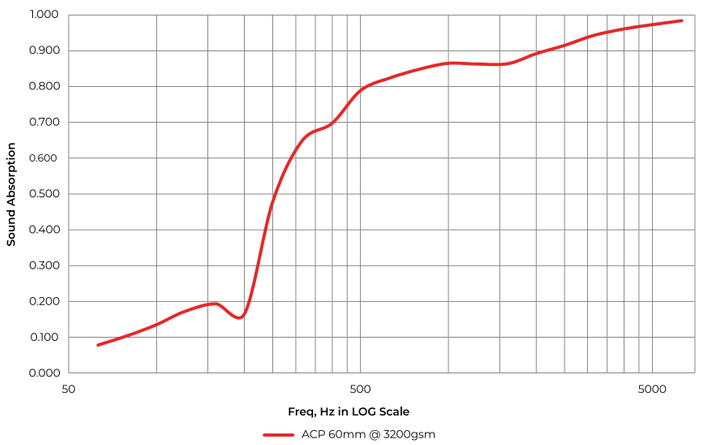
"Actual product colour may vary from the images shown"

Available in various colour and finishes, our panels blend seamlessly with any interior style, offering both beauty and performance.

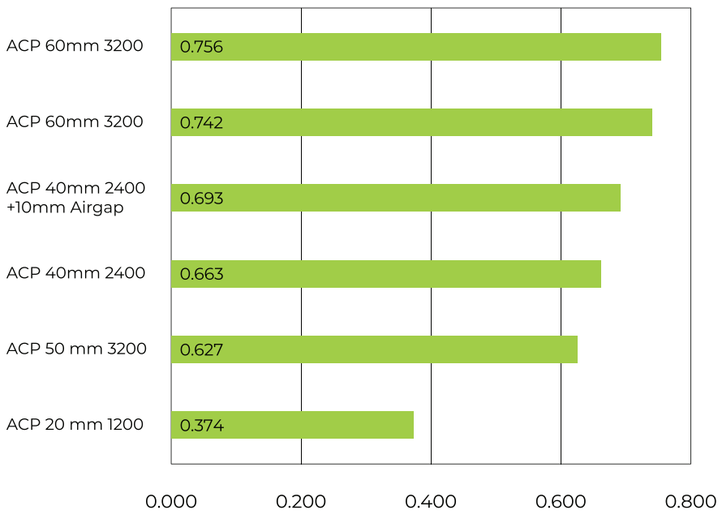
# SOUND ABSORPTION

P E R F O R M A N C E  C H A R T




**Noise Reduction Coefficient, NRC**

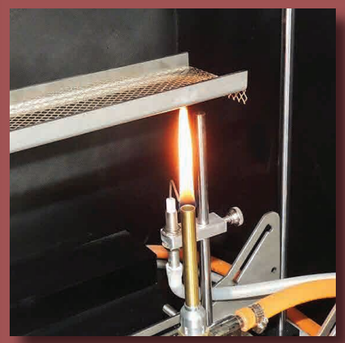



# HIGH QUALITY *AND* SOUND PROOFING

At Ecosil, we prioritize quality and safety in all our products. Our soundproof panels are thoroughly tested to ensure they provide top-notch noise reduction and meet the highest fire safety standards.

We've put our panels through rigorous noise reduction tests to show how effectively they block out sound, and we didn't forget about safety—our fire testing ensures they're as safe as they are effective.

For detailed test results, check out the information further in this brochure. Choose Ecosil for soundproofing that truly makes a difference!



## UL94 VERTICAL FIRE TEST RESULT

The UL94 Vertical Burning (V) test assesses a material's flammability in a vertical orientation. It measures the material's self-extinguishing time after removal of a flame source, whether it drips flaming particles, and if it exhibits afterglow. The test classifies materials into V-0, V-1, and V-2 ratings, with V-0 being the most flame-retardant.

| Sample | Time | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Flaming Time | 1st Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2nd Test | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Flaming Time | | 0 | | | | | | | | | |
| Burn Up To Holding Clamp | | X | X | X | X | X | X | X | X | X | X |
| Dripping Flaming Particle | | X | X | X | X | X | X | X | X | X | X |
| Glowing Time | | 9 | 8 | 9 | 9 | 10 | 9 | 8 | 8 | 9 | 9 |
| Judgement | | PASS | | | | | | | | | |
| Class | | V-0 | | | | | | | | | |

## HEAT INSULATION TEST RESULT

A heat insulation test evaluates a material's ability to resist heat transfer, typically by measuring its thermal resistance or conductivity. Methods include using a heat flow meter for materials like aerogel, a guarded hot box to test full wall systems, and thermal imaging to spot cold spots or areas of poor insulation

**Starting Temperature: 30°C  Test Duration: 375 minutes**

| Time | Heater Temperature | Plaster Board Thickness: 10 mm Weight: 1090 g | Insulation Felt Thickness: 20 mm x2 (40mm) Weight: 465 g [With Aluminium foil] | Temperature Difference | Remarks |
|---|---|---|---|---|---|
| | | Box 1 | Box 2 | | |
| 9.15 | Off | 26.7°C | 26.8°C | N/A | |
| 9.45 | 58°C | 30.3°C | 27.1°C | 3.2°C | |
| 10.15 | 60°C | 36.0°C | 28.5°C | 7.5°C | |
| 10.45 | 60°C | 38.1°C | 28.8°C | 9.3°C | |
| 11.15 | 60°C | 39.9°C | 29.5°C | 10.4°C | |
| 11.45 | 60°C | 39.5°C | 29.9°C | 9.6°C | Box Opened |
| 12.15 | 60°C | 39.5°C | 30.2°C | 9.3°C | |
| 12.45 | 60°C | 39.7°C | 30.4°C | 9.2°C | |
| 13.15 | 60°C | 39.8°C | 30.7°C | 9.1°C | |
| 13.45 | 60°C | 40.1°C | 31.0°C | 9.1°C | |
| 14.15 | 60°C | 40.2°C | 30.9°C | 9.3°C | |
| 14.45 | 60°C | 40.8°C | 31.1°C | 9.6°C | |
| 15.15 | 60°C | 41.4°C | 31.1°C | 10.3°C | |
| 15.45 | 60°C | 41.8°C | 31.1°C | 10.7°C | |
| 16.15 | 60°C | 41.8°C | 31.1°C | 10.7°C | |
| 16.30 | 60°C | 41.8°C | 31.1°C | 10.7°C | |

# INTEREST ?

**Drop by our offices or get in touch.**

**Ecosil Solution Sdn Bhd**

# CONTACT US

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