

# PLANET

*Acoustics & Architecture*



## *SoundWood*®

*Acoustic Wall / Ceiling panels*



**New Factory & Showroom.**

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# What is SoundWood Panel?

Soundwood wool cement panels are a series of green building materials that provide in acoustic solutions, thermal insulation and wide applications for constructions. SoundWood panel is made up of 60% long wood wool fiber and 40% Portland cement, with the latter serving as an excellent binder that holds the materials together. Produced in Taiwan since 1964, SoundWood wool panel has been developed by professional experts and have much many reference in government constructions and private buildings. Its continuous innovation and contributions to ecology also impressed designers, especially who are looking to achieve green star ratings



## Raw Materials

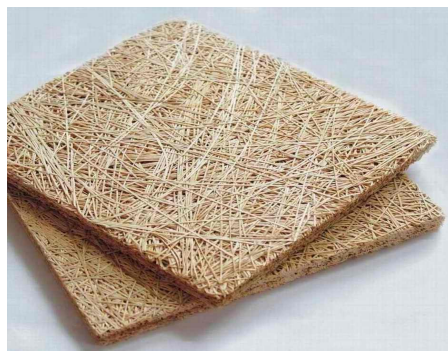
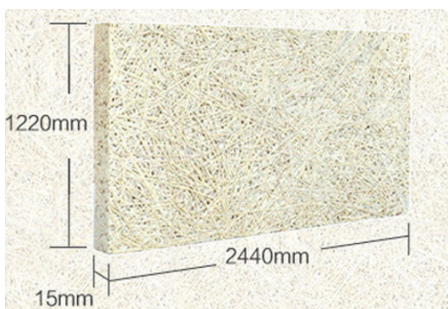
### 60% Hemlock Wood Wool

Hemlock is used as the raw material in SoundWood panels. A beautiful, strong tree species, also one of the most widely used wood types with an excellent quality. It is characterized by its high stability that resists shrinking, swelling, warping, and twisting. In addition, hemlock can be exposed to sunlight for many years but still keep its good characters and long lasting – almost many types of woods became dark due to sunlight UV, except hemlock. Plus, it has a great nail holding capacity and high strength, easy to paint over and also highly wear-proof. Hemlock is an ideal choice for both indoor and outdoor use, and this is why we choose Hemlock as the timber raw material.



### 40% Cement

Firstly appeared in 1824, cement is one of the most important building materials around the world today and one of the most commonly used raw materials in the construction industry. The mineralization of cement-bonded wood wool allows SoundWood panels to be rendered into an inorganic composite, thereby becoming highly durable and stable.



# WOOD WOOL ACOUSTIC PANEL

WOOD WOOL ACOUSTIC PANEL IS MADE OF WOOD FIBER, CEMENT AND MINERALS UNDER HIGH TEMPERATURE AND HIGH PRESSURE. THERE ARE COUNTLESS PORES INSIDE OF THE PANEL, WHICH CAN ABSORB NOISE. IT IS NOT ONLY WITH GREAT ACOUSTIC AND DECORATION PROPERTIES, BUT ALSO IS ENVIRONMENTAL FRIENDLY AND HUMAN FRIENDLY. DIFFERENT PAINTED COLORS ARE AVAILABLE BY REQUEST

## SPECIFICATION:

### STANDARD SIZE:

1220MMX2440MM.1200MMX600MM, 600MMX600MM

THICKNESS: 15MM/20MM/25MM

FIRE RETARDANT: B1

DENSITY(KG/M<sup>3</sup>): 300 ~ 330

THICKNESS EXPANSION (IMMERSION IN WATER 24HRS) <2%

THERMAL CONDUCTIVITY 0.108 Kcal/m x R x °C

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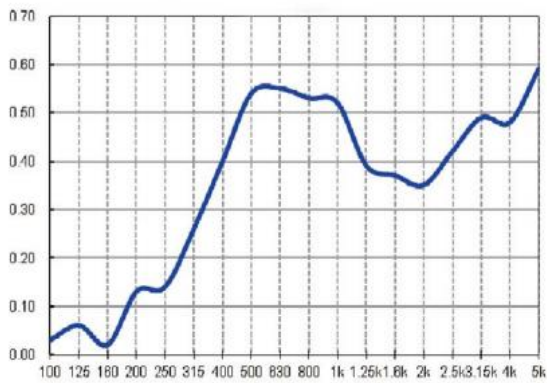
MOISTURE PROOF: CAN BE USED IN HUMIDITY UP TO 90%.

HEAT RESISTANCE: THE PRODUCT CAN BE USED IN TEMPERATURE UP TO 200 DEGREE.

IMPACT RESISTANCE: WITH GOOD PROPERTY OF IMPACT RESISTANCE, CAN BE USED IN ALL KINDS OF BALL ROOMS AND GYMNASIUMS.



## PERFORMANCE DATA



## WOOD WOOL ACOUSTIC PANEL

FREQUENCY(Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	NRC
SOUND ABSORPTION coefficient (α)	0.03	0.06	0.02	0.13	0.14	0.26	0.40	0.54	0.55	0.53	0.52	0.39	0.37	0.35	0.42	0.49	0.48	0.59	0.40

## CUSTOMIZED MODEL:

HEXAGON WOOD WOOL PANEL

## APPLICATION:

CONFERENCE ROOMS, OFFICES, HOTEL LOBBIES, GYMS, ETC.



Planet Acoustics & Architecture are manufacturers of Prefinished cladding, Acoustic/Decorative ceilings, Feature walls and on site solution providers based locally in Perth WA.

We offer a full service including installation, from project inception to completion, cradle to grave, Our team of consultants are interacting directly with your team to bring your vision to life

Ensuring quality and excellence throughout the entire build cycle and beyond working with building management/ owners to ensure continued satisfaction for you and your clients.

Please do not hesitate to contact us on 0433 486 499 for further information, samples or to book a tour of our facility.

## PAA Product Range:

- ThruColor® CFC
- LumiClad Graphics Range ® CFC
- LumiClad® CFC
- LumiLux® FC
- SonaBreak®
- PAA Timber Slats
- WoodEdge® Panels
- PAA Metals Range
- AluWood® ( Aluminum Wood Cladding)
- SoundWood® (woodwool panels)
- Alu Loop ®
- PolyPanel®( Acoustic Fabric)
- PAA Rockwool
- Anti-Flame® Sarking
- Rain Shield® (rain barrier)
- Flame Shield® (Non-combustable wall lining)



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