



寧靜空間的創造者
Creator of Serene Environment



南亞防音材料

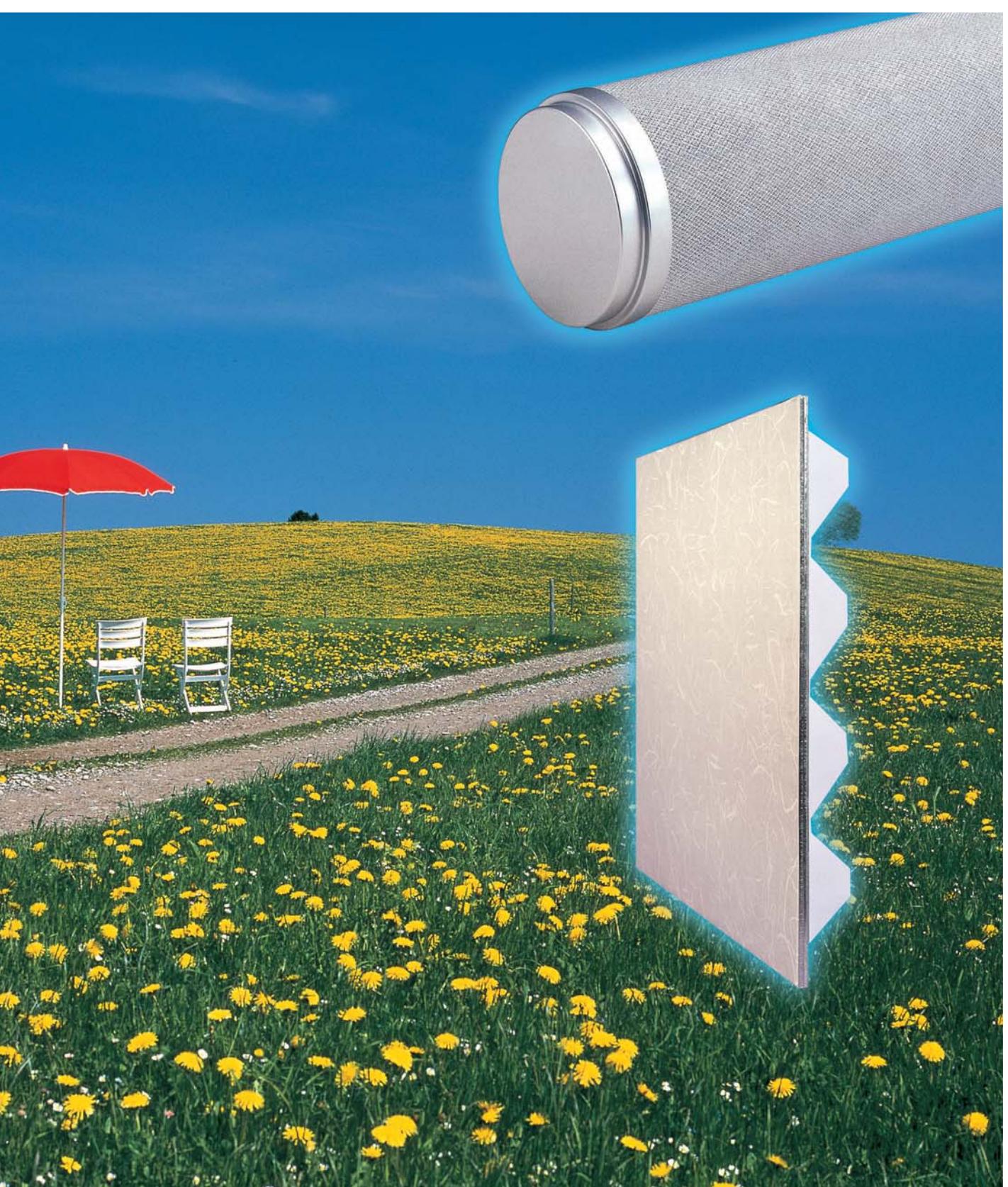
AN YA SOUNDPREOF
MATERIALS

寧靜，今天已成為人們對生活環境追求的品質之一。因此解決噪音方法逐漸為大家所重視，今天社會環境由於都市被高密度開發、工商業活動時間的延長及道路之興建緊鄰都會住宅區，均使噪音問題愈形嚴重。因此本公司特地研發出一系列防音材料，透過其優異之吸音、隔音性能，為人們在喧囂生活環境中創造出寧靜舒適的環境。

Nowadays, Tranquility has become the most people's pursuit quality of living environment. Noise pollution problems become worse than ever due to high density developed cities, extended working hours and short distance between the roads and resident regions. Therefore, we provides an series of newest Sound Absorber and Soundproof Wall products, which is able to create a noiseless living environment for you through its high sound absorption performance.



ironment and Farewell to Noise Problems





南亞防火吸音板

Nan Ya

Sound Absorber II

南亞防火吸音板是由玻纖布與刺孔鋁箔所組成之高性能吸音材並配合鋼鐵材質之框架所構成之吸音天花板，內外材質全部採用不燃材質且玻纖布表面提供多款優美印刷圖案，特別適合於需兼顧吸音、防火、裝飾之各種場合。

「南亞防火吸音板」提供以下優點：

- 價格合理
- 高吸音性能
- 不燃性
- 優美圖案且多樣化
- 重量輕
- 無污染公害
- 十年保固
- 十年保固

NAN-YA SOUND ABSORBER II is consisted of fiberglass cloth, slitted aluminum foil and steel frame. All materials within the product are incombustible. Moreover, beautiful and varied pattern can be printed on the surface of fiberglass cloth. With its excellent sound absorption performance, incombustibility and decorative function, Therefore it is suitable to apply to ceiling or wall panel.

NAN-YA SOUND ABSORBER II offer:

- Low cost expense
- Incombustibility
- Variety of surfaces
- Light weight
- Without environment pollution
- Ten-year warranty



主要用途

Main Application

南亞防火吸音板主要應用在室內天花板及壁面來降低室內噪音及控制殘響時間，在降低室內噪音方面常見之應用例有噪音工廠、學校、室內體育館、銀行、會議廳、辦公室、醫院、餐廳等室內嘈雜聲響無法散出之封閉空間；而在控制殘響時間之應用例則以演講禮堂、音樂廳、議事廳等要求具有準確殘響時間之場合為主。

Our products are used for ceiling, panels and barriers. They serve both decorative and functional purposes in sound control. It is specially effective for controlling reverberant sound within large spaces such as halls, swimming pools, offices, schools, factories, sound studios, gyms, conference rooms, hospitals, restaurants and etc.



◆ 基本物性
PHYSICAL DATA

材質 Material	玻纖布,鋁箔及鍍鋅鐵框[可選用烤漆]。 Fiberglass cloth,aluminum foil and steel frame [Painting is optional].
尺寸規格 Size	[明架:603x603x10mm],[半明架:603x603x10mm]。 [GRID SYSTEM:603x603x10mm],[GRID SYSTEM II :603x603x10mm].
重量 Weight	[明架:0.6kg],[半明架:0.7kg]。 [GRID SYSTEM:0.6kg],[GRID SYSTEM II :0.7kg].
表面處理 Surface Finish	圖案印刷。 Pattern Printed.
顏色 Color	標準印刷圖案,顏色請參閱本目錄所提供之圖片,客戶可指定印刷之圖案,顏色,唯最低訂購量需再與我方營業人員協議。 Standard printed patterns and colors see the Pattern Palette within this catalogue, Customers are allowed to assign but minimum order quantity must contact with our sales department.
懸吊系統 Suspension	可分別適用於明架及半明架之輕鋼架系統。 It can be applied to GRID SYSTEM and GRID SYSTEM II suspension.
吸音率 Sound Absorption	125~4000 Hz 平均吸音率0.8以上,吸音率測試報告詳見音響特性表 [背空層20+40mm+70mm+40mm數量各1/4組合情況之吸音率]。 Its average sound absorption coefficient is 0.8 during frequency 125 Hz to 4000 Hz [Detailed please confer to Acoustic Characteristic Table].
防火等級 Fire Resistance Rating	玻纖布、鋁箔及鐵框等材料全為不燃材質,並已通過 CNS 6532 耐燃試驗耐燃一級之測試。 It is a incombustible ceiling, It has already passed CNS 6532 STANDARD class one.
腐蝕性 Corrosion Resistance	玻纖布、鋁箔及鍍鋅鐵框均為不易腐蝕材質,相當適合本省海島型之潮濕氣候。 It is consisted of fiberglass cloth,aluminum foil and steel frame, All those materials are durable. Especially, it is corrosion resistant when used in Taiwan with its marine and tropical climate.
公害問題 Environment Pollution	玻纖布,鋁箔及鍍鋅鐵框等材料不會產生任何細屑落塵,絕不危害人體之健康,且其均屬可回收材質,不會對環境造成任何污染問題。 It will not create any floating dust to damage human health, and all materials within the product are recycle so will not pollute earth's environment.

◆ 型式規格

Standard sizes and specification:



Fig.1



Fig.2

◆ 配件

Accessories



波浪型背面板(鍍鋅鋼板)
Back Box (Steel)



波浪型背面板(PVC塑膠)
Back Box (PVC)

名稱 Model	成品規格 (長×寬×厚) Specificatio (LXWXH)	實物相片 Figure	重量 (Kg) Weight
明架防火吸音板 GridSystem	603×603×10mm	Fig.1	0.6
半明架防火吸音板 GridSystem II	603×603×10mm	Fig.2	0.7
明架防火板 GridSystem	603×603×10mm	同Fig.1	1.2
半明架防火板 GridSystem II	603×603×10mm	同Fig.2	1.2

◆ 音響特性

Acoustic Characteristic

吸音率 Absorption Coefficient	0.26 0.46 0.78 1.01 0.62 0.86 0.97 1.01 0.99 1.13 1.11 1.02 0.92 0.76 0.83 0.79
頻率 (Hz) Frequency	125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000



1/3八音度帶域中心頻率 (Hz)
1/3 octave center frequency (Hz)

試驗材料
Test sample

南亞防火吸音板
Sound Absorber II

試樣面積
Sample Area

8.64m²

餘響室溫度
Temperature

18°C

餘響室濕度
Humidity

70%

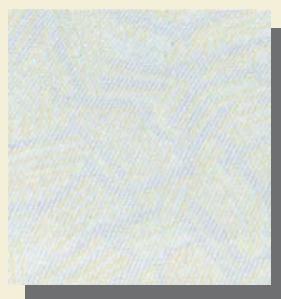
測定日期
Date

12 / 17 / '95

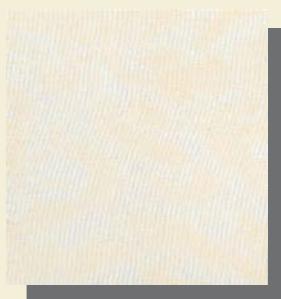
◆ 印刷圖案及顏色 Patterns Palette



TL3BF



CLB10



CDB10



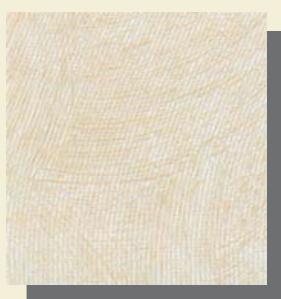
TL8AO



CL8AO



CDO23



CVB10



JGB10



AK3BF



CV023

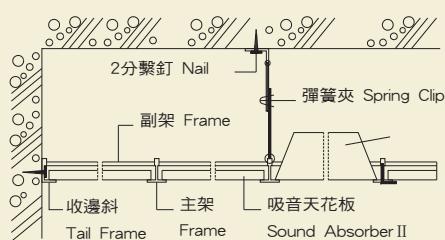


JG023

▲以上色樣之標示供參考，若與實品之色澤有差異時，應以實品為準。

The above color swatches are for reference only, if their colors differ from the products, the colors of the taken as the standard.

◆ 施工說明 INSTALLATION DIAGRAM



剖面詳圖 Cross Section

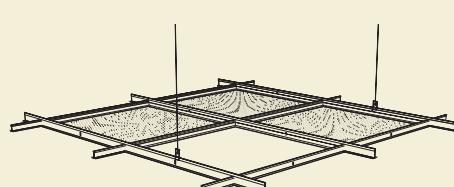


示意圖 Installation Diagram



南亞鋁纖維吸音板

Nan Ya Sound Absorbing Materials

南亞鋁纖維吸音板是由鋁擴張網、鋁纖維不織布與刺孔鋁箔所組成之高性能吸音材料，內外材質全部採用防腐蝕可回收鋁材，特別適合於需兼顧吸音、防火、防腐蝕之各種場合。

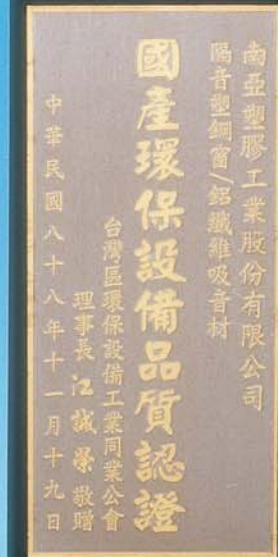
「南亞鋁纖維吸音板」提供以下優點：

- 高吸音性能
- 重量輕
- 耐蝕性
- 不吸水
- 可回收
- 無污染公害
- 十年保固。

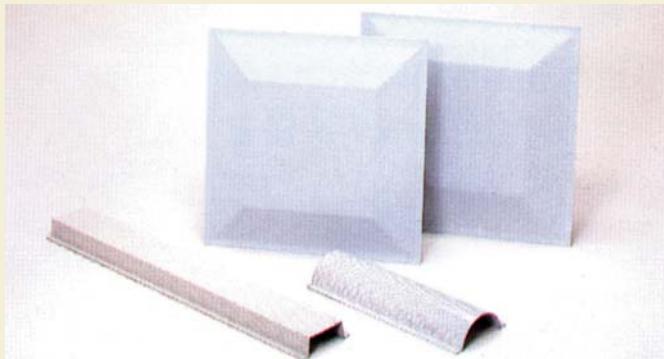
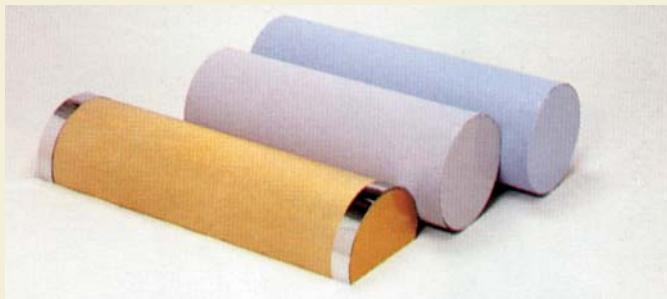
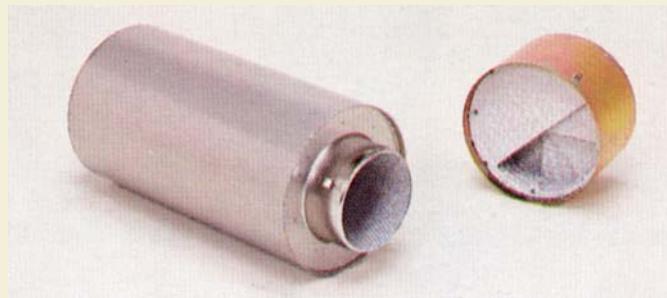
NAN-YA SOUND Absorbing Materials are consisted of aluminum expaned net, aluminum non-woven fiber and aluminum foil. All materials within the product are erosion resistant and recycled. With its excellent sound absorption performance, incombustibility and erosion resistant. Therefore it is suitable to apply to ceiling or wall panel.

NAN-YA SOUND Absorbing Materials offer:

- Incombustibility
- Light weight
- Erosion resistant
- Not water absorbent
- Recyclable
- Without environment pollution



主要用途 Main Application



南亞鋁纖維吸音板主要用途可分為：一般吸音壁材料、吸音管道、吸音板吸音箱內襯材、各種機械噪音對策用吸音材、防音壁及地下鐵用通風道等，其優越的吸音特性為您創造出快適的生活空間。

Nan Ya's fiber acoustic board is suitable for the following purposes General acoustic wall material Acoustic tunnel material Inner lining material for acoustic boards and cases Acoustic material for mechanical noise reduction strategies Soundproof walls Underground railway ventilation pipes With its superior sound-absorption qualities, Nan Ya's fiber acoustic board offers you a more comfortable living space.





優越的吸音特性

Excellent sound absorbing qualities

從低頻至高頻均有極好的吸音性能
Can absorb both high and low frequency sounds.



薄、重量輕

Thin and lightweight

比重為鋁的2/3，重量輕，施工時免再加裝骨架
Product is 2/3 aluminum, so light you do not need a platform during installation.



耐蝕性、耐熱性

Erosion resistant, heat resistant

表面處理具有優良耐蝕性、耐熱性
Surface treatment has erosion resistant and heat resistant characteristics.



吸水性

Water absorbent

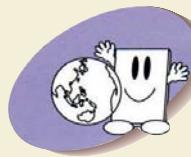
鋁纖維吸音板本身不吸水若水滴潑灑在板上容易流失剩下之水珠容易乾燥
Aluminum fiber acoustic material is basically not water absorbent. However, water on the panel easily flows off, leaving water droplets which can easily be absorbed.



可回收

Recyclable

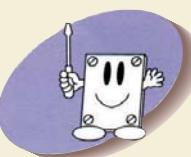
材質為純鋁金屬製作可回收再利用
Material is pure aluminum metal which can be recycled.



加工及施工簡單

Easy processing and construction

固定、裁切及彎曲加工容易
Easy to nail down, cut, and bent.

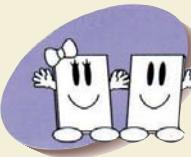


豐富的變化及寬廣的用途

Dynamic and wide range of usage

控制殘響內裝吸音材及噪音防止用防音壁，另外表面可塗裝各色顏料或貼覆裝飾材

Material can control and absorb echo and noise. Paint or other wallpaper material can also be applied on it, making it more delightful to the eye.



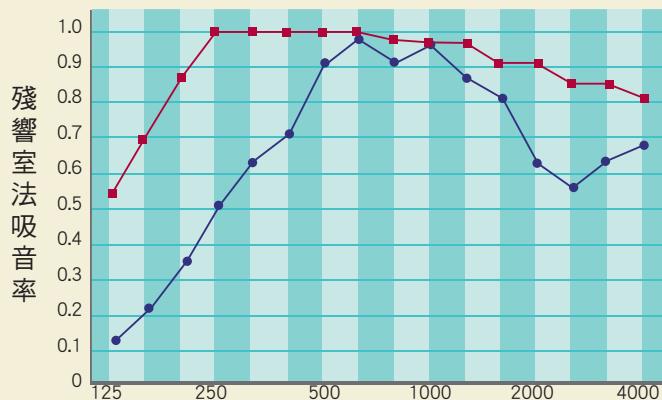
◆ 試驗特性

Characteristics:

試驗項目 Test methods	試驗方法 Test items	結論 Conclusion
耐候試驗 Weatherproof	2000Hr (等於10年) 2000 hrs(equivalent to 10 years)	
耐水試驗 Waterproof	流水中500Hr 500 hrs in running water	
煮沸試驗 Boiling test	煮沸4Hr後，在100°C下乾燥20Hr (重覆二次) 4hours, drying for 20 hours in 100 degrees Celsius heat (repeated twice)	沒有任何異常現象 No abnormality observed
寒熱試驗 Cold-heat test	80°C保持2Hr乾燥後，在-20°C 2Hr(重覆二次) 2 hours drying in 80 degrees Celsius heat and then 2 hours in -20 degrees Celsius cold air (repeated twice)	
防火試驗 fire resistant test	依照CNS 6532耐燃試驗方法 The CNS 6532 STANDARD test.	通過CNS 6532 耐燃試驗耐燃一級之測試 It has already passed CNS 6532 STANDARD class one.
持水性 Water holding property	滲透性 Water permeability	用水管直接灌水，但幾乎從鑄板的氣孔流失掉，而不會殘留在上面。 Water was pumped directly via a pipe, however, almost all the water flowed off the aluminum panel through its air ducts and water is not retained on the surface.
	吸水率 Water drainage	通過ASTM D570 吸水率測試，平均吸水率小於1.5% It has already passed ASTM D570 STANDARD. The average displacement is under 1.5%.

◆ 吸音特性

Sound Absorbing Characteristics



- 鋁纖維板+玻璃棉 Aluminum fiber panel + Glass fiber
- 鋁纖維板+空氣層 Aluminum fiber panel + atmosphere

鋁纖維不織布 Nonwoven fiber	550g/m ²
鋁擴張網 Aluminum expand metal	3-4 / 4-8
鋁箔 Aluminum foil	7um
玻璃棉 Glass fiber	75mm, 32Kg/m ³
空氣層 Air space	75mm

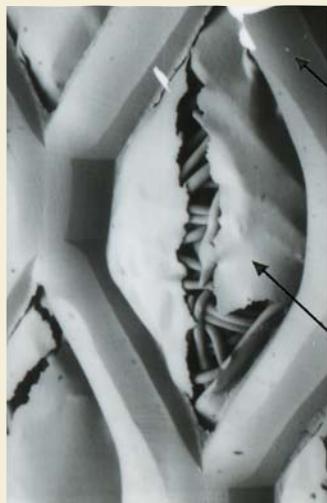
◆ 產品組織成份

Product Components

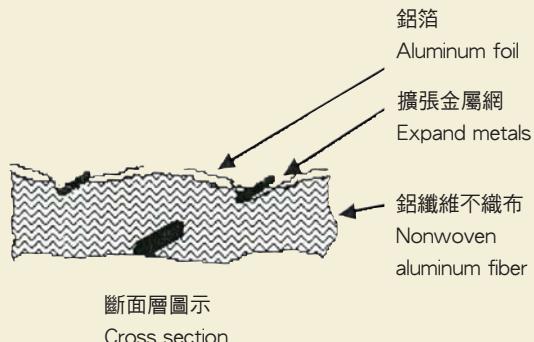
吸音材料 Sound absorbing material	金屬擴張網 Expand metal	製品板厚(mm) Thickness	抗拉強度(kg/m ²) Tensile Strength	拉伸率(%) Elongation
鋁箔(7um)及鋁不織布(550g/m ²) Aluminum foil and Non-woven aluminum fiber	3-4/4-8 or 5-10	0.8 ~ 1.5	80 ~ 125	約12

◆ 細部結構圖

Detailed drawings



擴張金屬網
Expand metal
鋁箔
Aluminum foil



鋁箔
Aluminum foil
擴張金屬網
Expand metals
鋁纖維不織布
Nonwoven aluminum fiber

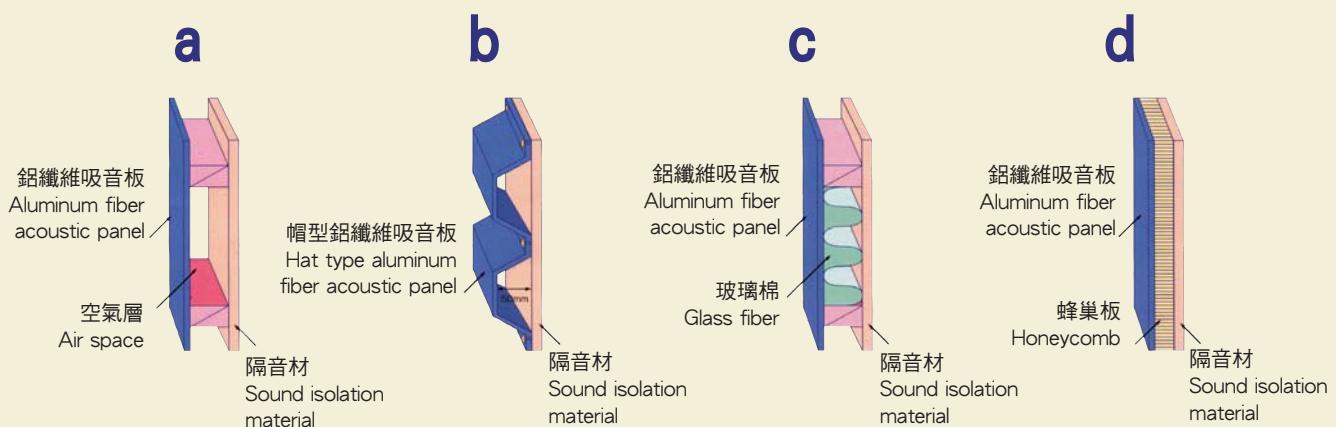
斷面層圖示
Cross section

◆ 吸音壁面施工構造圖例

Structural drawing of construction of acoustic wall

鋁纖維吸音板具有優越的吸音特性，正確的施工以確保吸音效果，下圖為四種標準之施工構造圖例

The fiber acoustic panel has excellent sound absorbing qualities. Proper construction procedures must be observed to get good results, below are the four standard construction drawings.





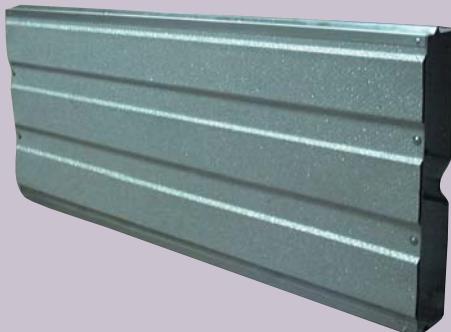
鋁纖維道路隔音牆

Road Soundproofing Wall

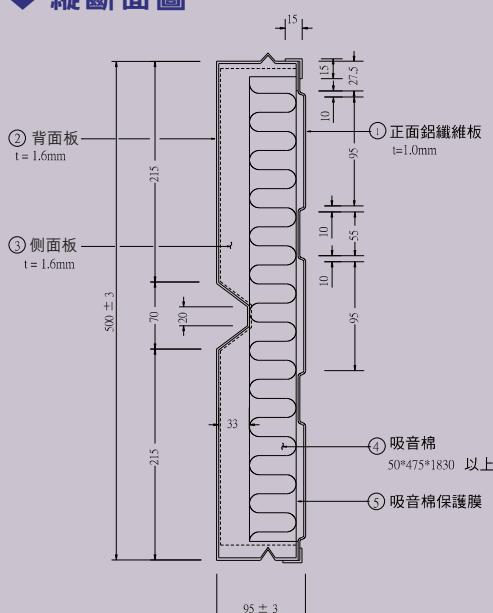
南亞鋁纖維隔音牆是由正面鋁纖維吸音板、鍍鋅鋼背面板與側面板、吸音棉與氟化膜所組成之高性能道路隔音牆。特別適合於需兼顧吸音與隔音之各種場所。



◆ 正面



◆ 縱斷面圖



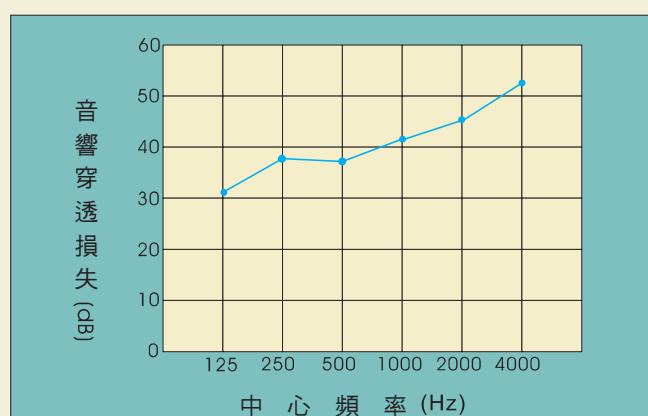
◆ 產品特點：

- ・優良的吸音性與隔音性
- ・為耐候性耐久之不燃材質
- ・抗風壓力達 390kg/m^2
- ・重量輕施工容易

◆ 吸音率(NRC=0.97)



◆ 穿透損失(STC=44)



名稱	規格及材質
正面板	鋁質纖維吸音板 t=1.0mm
背面板	鍍鋅鋼板
側面板	鍍鋅鋼板
吸音棉	32K玻璃纖維棉 CNS A2140
保護膜	氟化膜 t=21um
鉤釘	鋁合金 3.2mm
填縫料	合成塑膠 t=2mm, w=30mm
固定片	彈簧鋼，熱浸鍍鋅

◆ 材料規格

名稱	規格及材質
正面板	鋁質纖維吸音板 t=1.0mm
背面板	鍍鋅鋼板
側面板	鍍鋅鋼板
吸音棉	32K玻璃纖維棉 CNS A2140
保護膜	氟化膜 t=21um
鉤釘	鋁合金 3.2mm
填縫料	合成塑膠 t=2mm, w=30mm
固定片	彈簧鋼，熱浸鍍鋅

◆ 標準尺寸/重量

500 x 1960 x 95mm 21kg/組

◆ 使用例

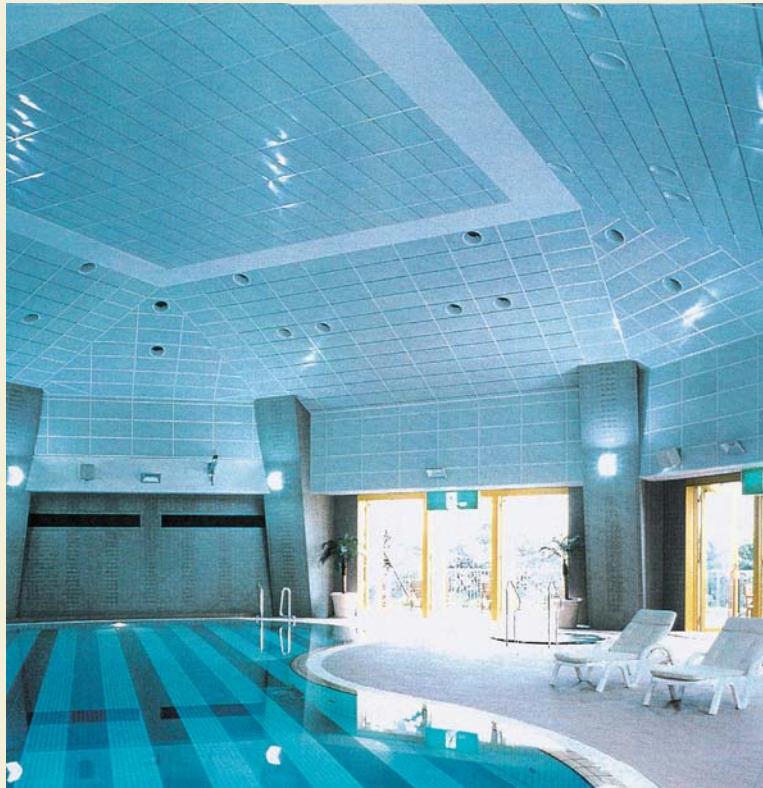
Usage:

一般吸音壁材料

Regular acoustic material

無塵室、引擎實驗室、溜冰場壁面、天花板、游泳池壁面、天花板、會議廳內裝吸音材

Dust free room, engine testing room, skating rink wall surface, ceiling, swimming pool wall surface, meeting room interior.



吸音管道，吸音板吸音箱內襯材

Sound absorbing pipe,
sound absorbing panel material

各種換氣管道、交通噪音用吸音板
Every type of ventilation ducts, sound absorbing panel for transportation noises.



各種機械噪音對策用吸音材

Sound absorbing panel for each type mechanical noise

機械箱內消音材、引擎室內襯材、冷凍機、壓縮機之吸音材、風扇馬達消音材吸音器

Sound absorbing material for the inner walls of machines, engine room lining, freezer, sound absorber for compressor and fan motor; sound absorbing machine.



隔音壁及地下鐵用通風道

Acoustic wall and underground railway station air ducts

一般交通機關之隔音壁通風道

Acoustic wall in the air duct of the regular mode of transportation.



經銷商：



南亞塑膠工業股份有限公司
NAN YA PLASTICS CORPORATION

塑膠第二事業部 · PLASTICS 2nd Div.

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電話：(02)27122211~5763, 8169

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