



**Australia Tianyu Pty Ltd**



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# **Company** **Profile**



TY Enterprise established in 1988, specializes in producing and selling high quality ceiling and wall products for both commercial and residential applications. Our range of products include: plaster ceiling, fiberglass plaster ceiling(composite)and fiberglass acoustic ceiling . All our products feature acoustic, fireproof, damp-proof, thermal resistance, high NRC, environmental friendly which are both durable and visually aesthetic.

Over the last two decades, TY takes pride in building a reputation of high quality that are recognized amongst our peers as the leaders in using only the high grade raw materials in manufacturing and using an efficient skilled workforce. Over time, we have won many award winning prizes and produced many patented products sold all over the world. By producing at high capacity and large scale we are able to maximize economies scale to obtain cost benefits and passing such benefits to our clients.

In 2008, we are proud to have established our first overseas company in Australia – Australia Tianyu Pty Ltd (ATY). Combining our developed experience and masterful technology, our “ATY” series products are targeting at Australian market demand and conform to Australian regulatory testing standards.

We are committed to focus product improvement and specialization to introduce innovative and high quality products to meet market demands. As we continue to develop our business globally, we will ensure our products continue to set and surpass world class benchmarks, endeavor in making ATY the world first class brand in the ceiling market.





## Product Series

### 一. ATY Calcium Silicate Plaster Ceiling

1. Characteristic: It is a new type of decorative material, made of gypsum power, fiber calcium and silicate with a reinforcing chemical formula.
2. Strength: With the unique intensity enhanced formula, ATY series have overcome the low intensity and the weakness of fragility of ordinary plasterboard. It possesses higher strength than the traditional paper surfaced plasterboard. In addition, it is tested that it does not smash while falling to the cement ground freely within one-meter high.
3. Fireproof: Class A incombustibility.
4. Waterproof: ATY calcium silicate plaster ceiling is made by the ATY unique waterproof chemical formula, possesses a well performed waterproof feature. The product does not distort after immersing in water. There is no water stain after drying.
5. ATY Calcium Silicate Plaster Ceiling Specification

Measurement	Edge	Width x Length x Thickness (mm)	Weight( kg/ m² )	Remark
Metric	Square	600x1200x6	4.9	Tile Actual Size: Width: 595mm Length: 595mm, 1195mm
	Square & Tegular	600x600x12	7	
	Square & Tegular	600x600x14.5	7.6	
	Square & Tegular	600x1200x15	7.6	
British	Square & Tegular	610x610x12	7.2	Tile Actual Size: Width: 603mm Length: 603mm, 1213mm
	Square & Tegular	610x610x15	7.6	
	Square & Tegular	610x1220x15	7.6	
Special specification can be customized				

### 二. ATY Fiberglass Plaster Acoustic Ceiling

ATY Fiberglass plaster acoustic ceiling is our newly developed patented product (patent no. 200520038888.4). It is a composite product combining the strengths of both plasterboard and fiberglass board, with the unique advantage of high strength and waterproof feature of plasterboard and sound absorption and fireproof feature of fiberglass board. It possesses its own intellectual property rights and wide market development prospects. It is the suspended ceiling decorative material which will be highly regarded and well selected in the future.

ATY Fiberglass Plaster Acoustic Ceiling (Composite) advanced feature:

1. Strength: The composited product combines the advantage of plasterboard and fiberglass board, with higher strengths than mineral wool ceiling.
2. Fire proof: Class A incombustibility.
3. Sound absorption: Higher than plasterboard and mineral wool ceiling.
4. Water resistance: The tile does not transform, distort, yellowing and discoloration while immersing in water.
5. Weight: Light weight, easy handling.
6. Design: Various designs can be applied on the surface, overcoming the shortness of single surface pattern of mineral wool ceiling.
7. ATY Fiberglass Plaster Acoustic Ceiling Specification.

Measurement	Edge	Width x Length x Thickness (mm)	Weight( kg/ m <sup>2</sup> )	Remark
Metric	Square	600x600x15	5.5	Tile Actual Size: Width: 595mm Length: 595mm, 1195mm
	Tegular	600x1200x15	5.5	
British	Square	610x610x15	5.6	Tile Actual Size: Width: 603mm Length: 603mm, 1213mm
	Tegular	610x1220x15	5.6	
Special specification can be customized				



## **ATY Calcium Silicate Plaster Ceiling and** **ATY Fiberglass Plaster Acoustic Ceiling(Composite) Surface Patterns:**



ATY-A01



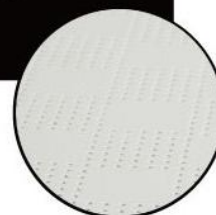
ATY-B01

Circle Hole Dia.1.8mm



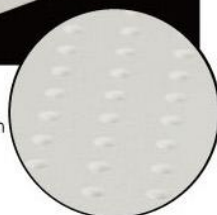
ATY-B02

Circle Hole Dia.1.8mm



ATY-B03-A

Circle Hole Dia.3.0mm



ATY-B15

Circle Hole Dia.5.0mm



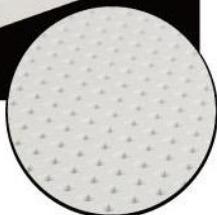
ATY-B09-B

Circle Hole Dia.18mm



ATY-C01

Square 4mmx4mm



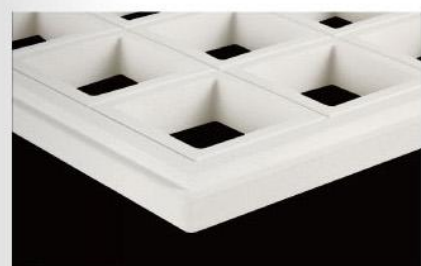
ATY-C03

Square 12mmx12mm



ATY-C08

Square 18mmx18mm



ATY-C05

Square 50mmx50mm



ATY-E01

Line Width: 3mm



ATY-E03

Line Width: 4mm



## ATY Fiberglass Plaster Acoustic Special Performance



### Fireproof

Class A incombustibility



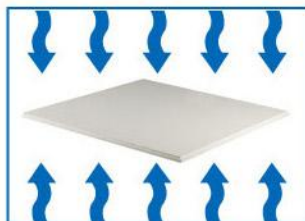
### Thermal Insulation and Energy Saving

Effectively block the diffusion of cold and hot air indoor. It has thermal conductivity  $TR \geq 0.4$  (m.K/W), reduces the external temperature on the impact of indoor temperature, balance the temperature difference, effectively save energy.



### Environmental friendly

Gypsum is a widely used building material with long history; the feature of white colour and environmental friendly is widely recognized in the industry.



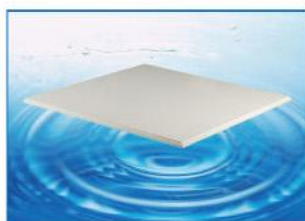
### Moist absorption

Gypsum absorbs the moist in the air, adjusting the indoor temperature, enjoys the reputation of "natural air conditioning" .



### Sound Absorption

The ATY perforated plaster board composed with fiberglass effectively improves NRC, attain Class A  $\geq 0.8$ .



### Waterproof

The product does not distort after immersing in water for 48hours; it can be used in the environment with above 95% humidity.



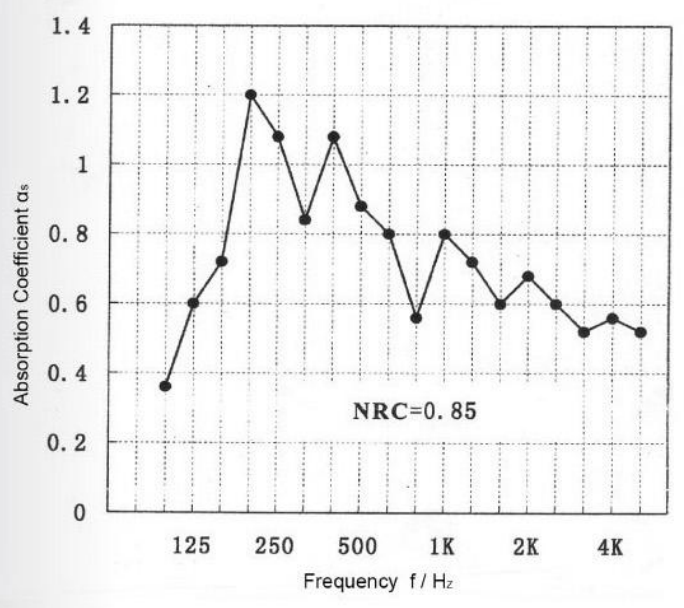


ATY Fiberglass Plaster Acoustic Ceiling – Sound Absorption Coefficient NRC

**Test Result**

Frequency/Hz	100	125	160	200	250	315	400	500	630
Absorption Coefficient $\alpha_s$	0.36	0.60	0.72	1.20	1.08	0.84	1.08	0.88	0.80
Frequency/Hz	800	1000	1250	1600	2000	2500	3150	4000	5000
Absorption Coefficient $\alpha_s$	0.56	0.80	0.72	0.60	0.68	0.60	0.52	0.56	0.52

NRC =0.85





# ATY

## Product Series



### 三. ATY Fiberglass Acoustic Ceiling

1. Feature: ATY fiberglass acoustic ceiling use the high quality fiberglass as the base material, with the feature of high NRC, thermal insulation, fireproof, and decorative. It is widely used in environment has high sound absorption requirement, such as theatre, Cinema, Auditorium, Gymnasium, Library, School, Hospital, Office building, Shopping centre etc. With its high sound absorption features, it effectively improves the quality of people's working and living, assist people's psychological and physical well beings. It is a high class and novel suspended ceiling product.

2. Light weight: It is light weight, easy carrying and installation; minimize health hazard associate with carrying and reduces workload and labour cost during installation.
3. Fireproof: Meets Class A incombustibility.
4. Acoustic: Fiberglass Acoustic Ceiling NRC is around 1.0, sound waves do not produce reflections on the surface, which can effectively control and adjust the indoor reverberation time, reduce noise, the improve sound quality.
5. Damp-proof: Fiberglass can not absorb the moist in the air, good performance of moist resistance, maintain the overall shape in any humid environment.
6. Environmental friendly: It is an environmental friendly product, using the environmental friendly raw material to ensure people's health.

### ATY Fiberglass Acoustic Ceiling Special Performance



#### Incombustibility

Ceiling is made of glass fiber yarn, with fireproof coating on the surface and edge, achieves level A incombustibility standard.



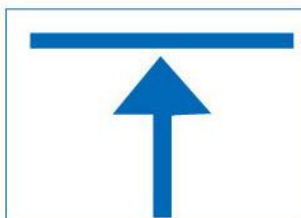
#### Thermal Insulation and Energy Saving

Effectively block the diffusion of cold and hot air indoor. It has thermal conductivity  $TR \geq 0.4 (\text{m}^2 \cdot \text{K}/\text{W})$ , reduces the external temperature on the impact of indoor temperature, balance the temperature difference, effectively save energy.



### Damp-proof

Fiberglass CANNOT absorb the moist in the air, good performance of moist resistance, maintain the overall shape in any humid environment.



### Anti-Sagging

90% dry felt resin bonded fiberglass wool, longer fiber compared with mineral fiber, tight structure, solid tissue, non-absorbent, ceiling keeps stable dimension and decorative effect, no sagging, wrapping .



### No Dust Fall

The paints are being high-pressure sprayed to the surface, high adhesion with sealed edge, no dust, effectively prevent absorption of airborne dust , maintain a clean indoor environment.



### Convenience and Safety

The surface of product does not have any fiber falling off, keeps the site clean and tidy. Both exposed and concealed grids can be applied for installation. Due to its light weight and availability of various dimensions, fiberglass ceiling are widely used in construction with large-spans in space, such as gymnasiums, airport, shopping mall and office etc. It is easy to install, repair and replace.



### Sound Absorption

Reverberation refers to the persistence of a sound after its source has stopped, that is the reason causes the noises in the indoor areas. Solving this problem is essential in places such as shopping centre, exhibition hall and offices; ATY fiberglass acoustic ceiling and partition attained above Class A standard of indoor reverberation noise reduction factor; they are the ideal solutions.



### Decoration

The surface of fiberglass ceiling is white, with a pure and gentle pattern, produces a comfortable feeling of the interior decoration.



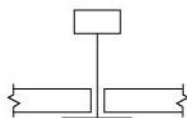
### Environmental Friendly

No radiation, no harmful substances.



## Fiberglass Acoustic Ceiling Introduction

Square



### Description

The tile is made of high-density dry felt resin bonded fiberglass wool, with well textured painted decorative glass tissue on the surface, plain fiberglass tissue on the back side, four square edges, tiles are parallel to the suspension system after installation, stable and elegant.

### Installation Method

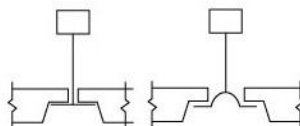
- Using exposed grids, grids width: 15mm, 24mm;
- Demountable;
- Both Metric and British Systems grids are available.

### Specification

size(mm)	thickness(mm)	packing(pcs/ctn)	kg/m <sup>2</sup>
600×600	15	20	1.7
600×1200	20	15	2.1
600×1800	20	10	2.25
1200×1200	25	10	3.24

Special specification can be customized.

Tegular



### Description

The four edges have grooves being tegular shape; the surface of tile is lower than the surface of suspension system after installation, making a three-dimensional effect.

### Installation Method

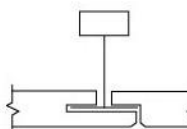
- Using exposed grids system, grids width: 15mm ,24mm;
- Demountable;
- Both Metric and British Systems grids are available.

### Specification

size(mm)	thickness(mm)	packing(pcs/ctn)	kg/m <sup>2</sup>
600×600	15	20	1.7
600×1200	20	15	2.3
600×1800	20	10	2.76
1200×1200	25	10	3.48

Special specification can be customized.

Concealed



### Description

The two edges have grooves being tegular shape, two square edges, the surface of tile cover the surface of suspension system after installation, concealed the exposed grids , demountable and replaceable.

### Installation Method

- Using exposed grids system, grids width: 15mm, 24mm;
- Demountable;
- Both Metric and British Systems grids are available.

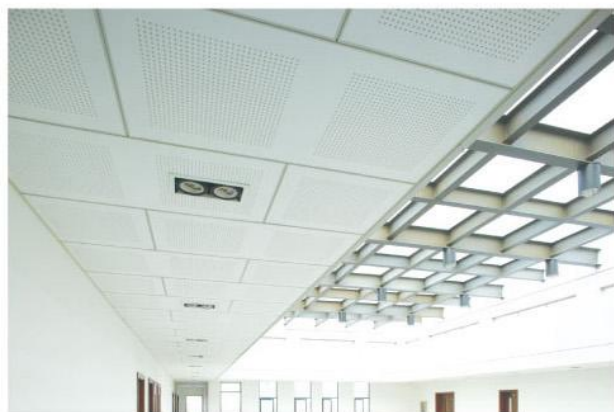
### Specification

size(mm)	thickness(mm)	packing(pcs/ctn)	kg/m <sup>2</sup>
600×600	20	15	2.2
600×1200			
600×1800	20	10	2.64

Special specification can be customized.



ATY ceiling tiles are your right choices  
in most interior ceiling applications.

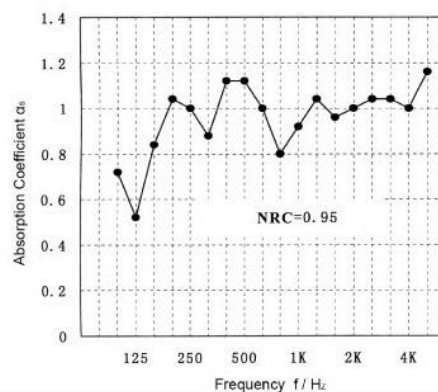


ATY fiberglass acoustic ceiling NRC

Test Result

Frequency/Hz	100	125	160	200	250	315	400	500	630
Absorption Coefficient $\alpha_s$	0.72	0.52	0.84	1.04	1.00	0.88	1.12	1.12	1.00
Frequency/Hz	8000	1000	1250	1600	2000	2500	3150	4000	5000
Absorption Coefficient $\alpha_s$	0.80	0.92	1.04	0.96	1.00	1.04	1.04	1.00	1.16

NRC = 0.95



VERIFICATION OF CPD COMPLIANCE



Certificate No. AC/0712002

**Applicant :** SHANGHAI TIANYU DECORATION BUILDING MATERIAL DEVELOPMENT CO., LTD.

**Address of Applicant :** NO.818 JIUXIN RD., SONGJIANG DISTRICT, SHANGHAI

**Product Description :** TYDA FIBRE GLASS CELLING

**Type and Model :**  
595mm×595mm×15mm, 595mm×595mm×20mm,  
603mm×603mm×15mm, 603mm×603mm×20mm,  
595mm×1195mm×15mm, 595mm×1195mm×20mm,  
605mm×1210mm×15mm, 605mm×1210mm×20mm

**Technical Construction File Referenced No./Rev :** STT(07)-C897-CPD

**Codes/Standards Applied :** EN 13964: 2004

**Date Of Issuance :** Dec 18, 2007

**Remarks :** This Certificate is Only Valid For The Equipment And Configuration Described, And In Conjunction With The Test Data Detailed Above.

**Conclusion of Assessment :**

We Hereby Confirm That, The Technical Construction File And Manufacturing, Inspection And Testing Processes For Above Mentioned Equipment Comply With The Essential Safety Requirements Of EU Construction Products Directive 89/106/EEC & Applied Codes And Standards.

**Chief Assessor:** [Signature]  
**Auger Certification & Testing Service LTD.**



AUGER CERTIFICATION & TESTING SERVICE LTD.  
SUITE 8525, 16-18 CIRCUS ROAD, 27 JOHN'S WOOD, LONDON, NW8 8PG  
info@augeruk.org



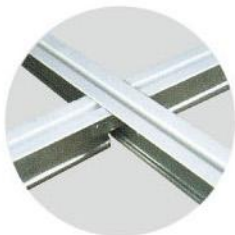
# ATY Series Suspension System Coating Grid



ATY-T-38×24



ATY-T-30×15



ATY-U-30×16

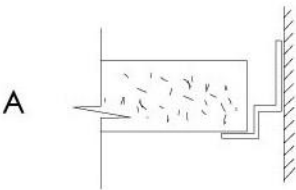


ATY-C-35×15

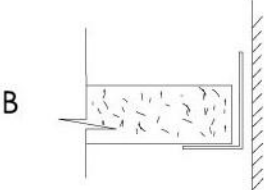
## ATY Series Suspension System

Grid Type	Grid Specification	Grid and Ceiling Structure Drawing	Remark
ATY-T-38×24 ATY-T-30×15			The match of ceiling and suspension System can be chosen according to customer's requirements. Metric System: 600×600 600×1200 British System: 610×610 610×1220 Or special type matching etc.
ATY-U-30×16			
ATY-C-35×15			
ATY-LSeriesW-45×15			

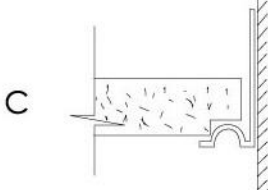
## The rectangular connection joint of wall surface and suspended ceiling:



ATY-W wall angle grid connects the wall surface



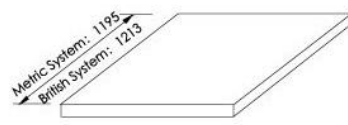
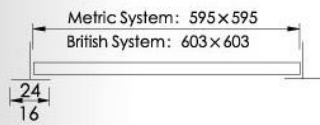
ATY rectangular wall angle grid connects the wall surface



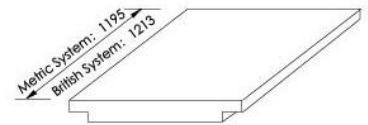
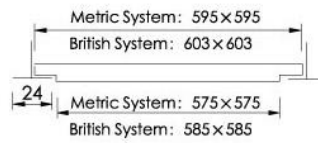
ATY-U wall angle grid connects the wall surface

## Different specification ceiling tile:

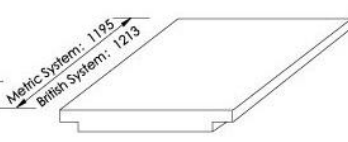
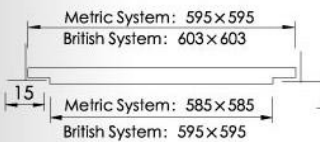
### 1. square



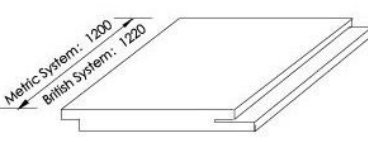
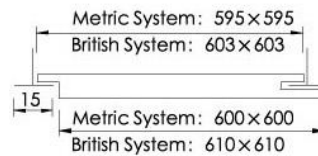
### 2. 24mm grid tegular type



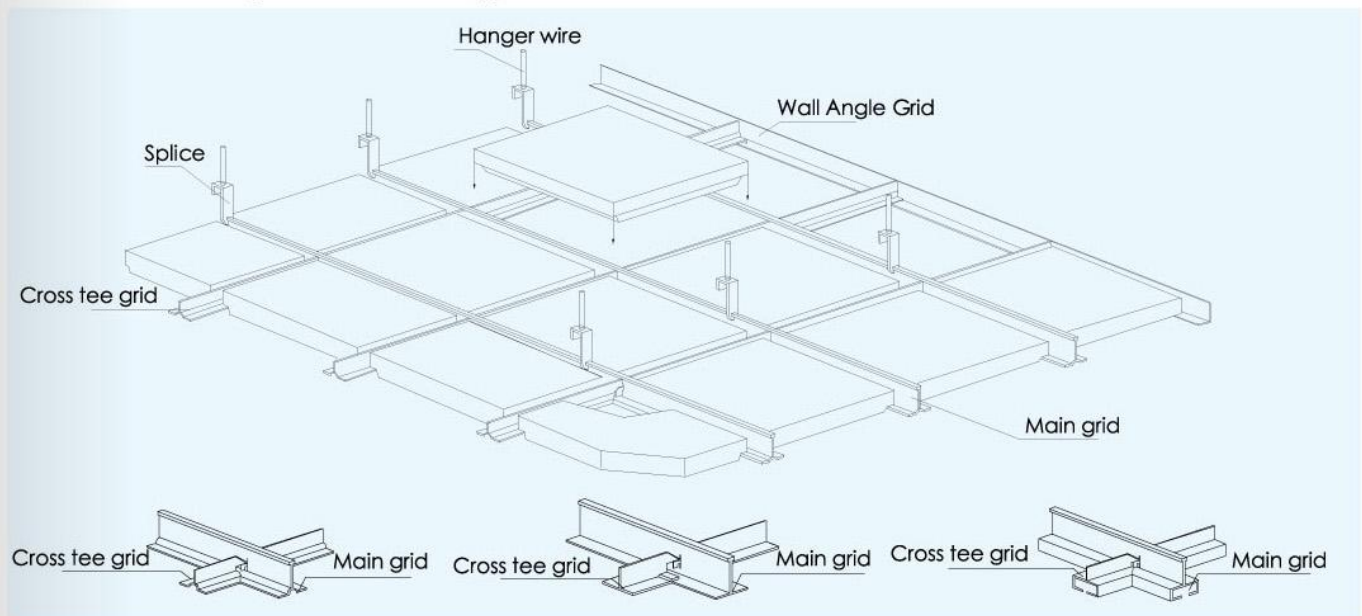
### 3. 15mm grid tegular type



### 4. 15mm concealed grid, demountable concealed type



## ATY series suspension ceiling:



### Suspension Ceiling Installation Instruction:

1. Suspension system can be categorized into non-people supported and people supported series. The non-people supported series(single layer aluminum alloy grid system)only consider the tile weight, light fittings, audio devices and ceiling fans. The people supported series considers 80-100kg of concentrated live load during repairing of the grid system; it adds one layer of light-gauge steel based suspension system from the non-people supported series.
2. During installation, firstly mark the horizontal lines around according to the request of the suspension system, then arrange the grids in # form, with 900-1200mm space of splice according to the installation drawing, the impalers and crews are put into the tile, fix the main grid with the suspender and splice, adjust the grids level, fix the cross tee grid on the main grid with the connector.
3. When installing the wall angle grid, drill in the position with the electricity hammer firstly, put into the chock, fix the wall angle grid on the wall by screws after finding the correct position. It also can be impaled directly into the wall by steel impaler.
4. Position the tiles on the grid after the grid system being installed. When installing the edges, the tile can be cut into suitable shape according to the edge.

### Notice:

1. Wear white gloves during installation to keep the tile clean, avoid dirtying the tile surface.
2. When carrying the tiles, avoid colliding the edges, avoid stacking high and stacking in empty outdoor areas or moist places.



# ATY

## Product Series



### 四. ATY Fiberglass Acoustic Wall Panel

#### Description

ATY fiberglass acoustic wall panel is made with high density fiberglass as the base material, with fireproof fabric on the surface; four edges are securely glued. Suitable for the indoor wall panels of public place, such as the meeting room, school, studio room, cinema and theatre etc, effectively reduce the noise level. It is an excellent sound absorption product.

#### Product Features

Excellent performance of sound absorption, effectively reduce noise levels; Various decorative fabric and colors can be applied, produces an effect of luxury and elegant; Stable dimension under the high temperature and humidity; Good thermal insulation performance, energy saving; Easy installation and adjustment.

#### Specification

Size	600mm×600mm	600mm×900mm	600mm×1200mm
	600mm×1500mm	1200mm×1200mm	600mm×2700mm
Thickness	20mm	25mm	30mm 40mm 50mm 75mm 100mm
Surface Material	Fabric Anti-impact glass fiber cloth		
Special size can be customized			

#### Product Data

**Material:** Dry fiberglass substrates

**Surface:** Textile fabric

**Environment friendly:** Product and package can be recycled

**Fire proof:** Raw material has Class A incombustibility, surface fabric incombustibility can be customized

**Thermal Insulation:**  $\geq 0.5$  ( $m^2 \cdot k/w$ )

**Damp-proof:** Max 90% R/H at 40°C

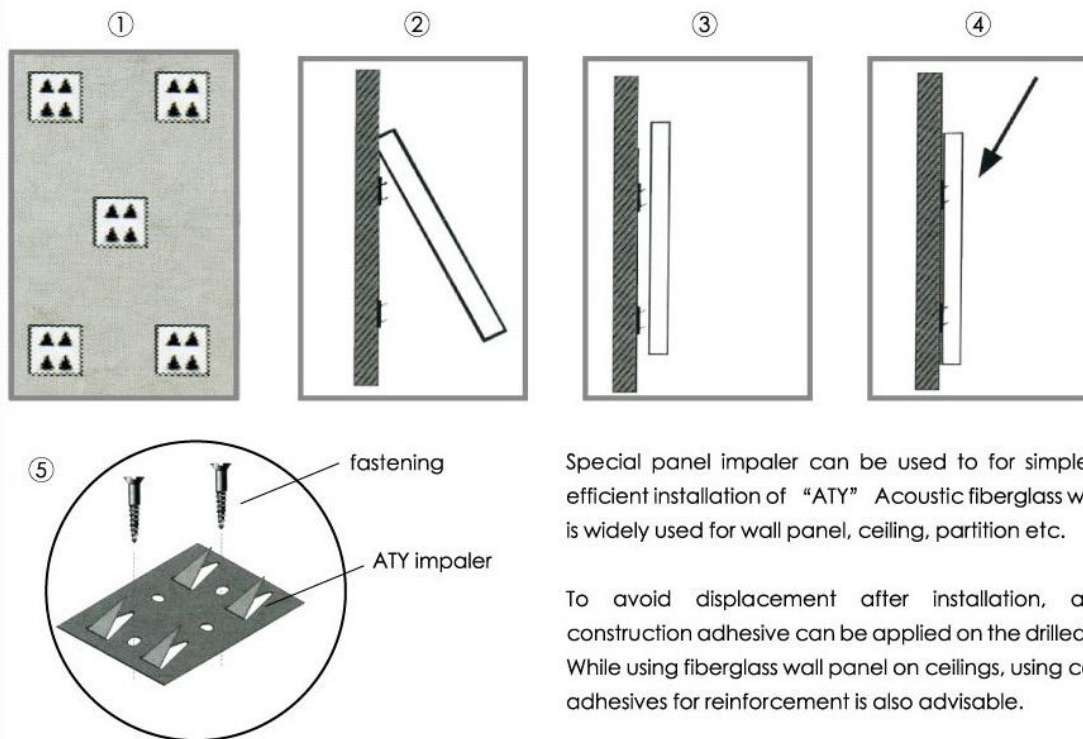
**Moisture content:**  $\leq 1\%$  (JC/T670-2005)

**Clean:** Wipe with soft fabric

#### Installation Method

According to the wall panel size and installation requirement, mark the line on the wall, confirm the impaler and location, fix the impaler on the wall by fastening, (can also apply adhesives on the drilled nails area for reinforcement), press the panel into the splice.

## Installation:



Special panel impaler can be used to for simple, fast and efficient installation of “ATY” Acoustic fiberglass wall panel. It is widely used for wall panel, ceiling, partition etc.

To avoid displacement after installation, appropriate construction adhesive can be applied on the drilled nails area. While using fiberglass wall panel on ceilings, using construction adhesives for reinforcement is also advisable.

### Minimum Number Of Impalers Per Panel

No.	Length	Width	No. of Impalers Needed
01	305mm	305mm	1
02	610mm	610mm	3
03	1219mm	305mm	3
04	1219mm	610mm	5

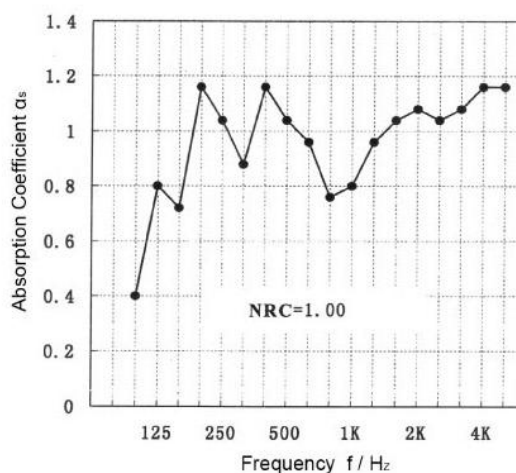
### Specification

Material	1mm galvanized steel
Size	50mm x 60mm
Stable Quantity	2pcs use an appropriate fastener for wall surface
Load Limit	5.4KG
Quantity	100PCS/Box

### Test Result

Frequency/Hz	100	125	160	200	250	315	400	500	630
Absorption Coefficient $\alpha_s$	0.40	0.80	0.72	1.16	1.04	0.88	1.16	1.04	0.96
Frequency/Hz	800	1000	1250	1600	2000	2500	3150	4000	5000
Absorption Coefficient $\alpha_s$	0.76	0.80	0.96	1.04	1.08	1.04	1.08	1.16	1.16

NRC=1.00







**ATY Quality Acoustic  
Wall Panel**



# ATY

## Textile Fabric

### ATY-LC/HF/H Series



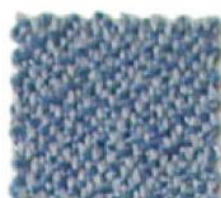
ATY-LC-35



ATY-LC-36



ATY-LC-37



ATY-LC-38



ATY-LC-40



ATY-LC-46



ATY-LC-47



ATY-LC-48



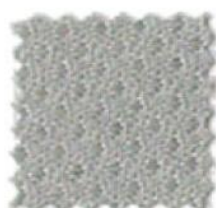
ATY-LC-49



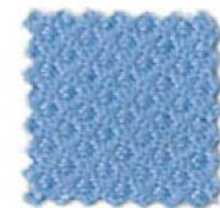
ATY-LC-51



ATY-HF-7033



ATY-HF-7037



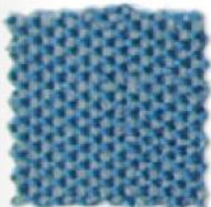
ATY-HF-7038



ATY-HF-7041



ATY-HF-7043



ATY-H-2016



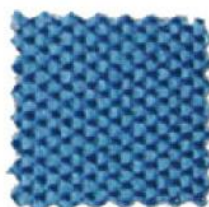
ATY-H-2017



ATY-H-2020



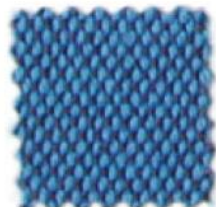
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ATY-H-2023



ATY-H-2026



ATY-H-2027



ATY-H-2030



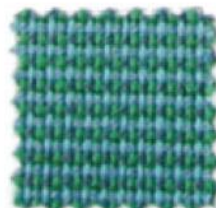
ATY-H-2032



ATY-H-3035



ATY-H-3036



ATY-H-3037



ATY-H-3045



ATY-H-3046



ATY-H-3047

Address: 4/22 Norman Street, Peakhurst, NSW, Australia, 2210  
Phone: 0061-(0)2 95703382  
Mobile: 0061-425 769 792  
Fax: 0061-(0)2 95703382  
[Http://www.a-ty.com.au](http://www.a-ty.com.au)  
Email: [info@a-ty.com.au](mailto:info@a-ty.com.au)