

Product Description of Antamine AH-8T

- Product description
- Specifications per Type
- Cost breakdown per Type



Antamine.net

Product description of Antamine AH-8T

1. **Product name** : Antamine AH8T (Hi-Top eco-friendly, non-molded, prefabricated, fire-resistant wall panel)
2. **Dimension**: 400×1200×8T(mm)
600×1200×8T(mm)
600 ×800 ×8T(mm)
800×1200×8T(mm)
600×2400×8T(mm)
150×2400×8T(mm) . Besides the above, split cutting according to user's requirement is available.
3. **Characteristics**: A_ Better performance than semi fire-resistant material
B_ Top class of eco-friendliness
4. **Application**: Wall for classroom of school, educational institute, auditorium, toilet, dining room, gymnasium, teacher's room, general commercial building, apartment wall, elevator hall, etc.

Specifications for Antamine AH-8T [B-Type: Wood furring strip + Mg Board Method]

Special specifications for Eco-friendly Hi-Top prefabricated fire-resistant wall panel (AH8T)

1. General outline

It is a product of which 4 corners are finished in shape of \square to assemble after passing through the processes of using Magnesium board 6T rated fire-resistance Class 1 as the heartwood, laminating with thermosetting resin high pressure laminate(HPL) or artificial marble + wood in size of 40 x 6ft on the four sides of edge, attaching fiber glass on it to improve durability and to prevent flection, and then attaching various colors of fire-resistant board rating Class 2 (0.6mm) on the full front side and backer board (0.6mm) on the backside to prevent flection. The product is made with new compound materials with excellent abrasion resistance, water resistance and thermal resistance which are strong against humidity and fire, and it is possible to install it simply by assembling and to install it in split standards according to the user's requirement.

2. Fire resistance standards

It must conform to KS F 2271 standards set forth by Korea Institute of Construction Materials

3. Eco-friendliness

Emission of formaldehyde less than 0.5mg/L – It must conform to KS F 3200 standards.

4. Chemical properties

A_ Abrasion resistance

Rate more than 200 (KS M 3803)

B_ Chemical resistance

No transformation by acid or alkali (KS M 3803)

C_ Dimensional change

Length direction below 0.7%, Width direction below 1.2% (KS M 3803)

5. Generals for installation

A_ Wear protective goggles and dust protective mask to protect the eyes and respiratory system from dusts generated when you cut Eco-friendly Antamine Hi-Top prefabricated fire resistant wall panel (AH BT) with a special saw .

B_ For ground work, use the well dried Oregon pine with size of 45*45 as the wood furring strip, and arrange it to be fitted to the size of fire resistance panel but ensure the width and length to be within 450mm.

C_ Apply the adhesives (KCC transparent acetic acid free silicone sealant and hot-melt) on the part of Oregon pine in order to attach the magnesium board easily on the surface.

D_ Use an electric saw or a grinder for cutting the panel at installation.

E_ Attach a layer of magnesium board (9mm) on the wood furring strip and make the base flat.

The magnesium board is stronger by 6 times than that of gypsum board and has an excellent water resistance, so it can act as the effective interior material in a small volume.

F_ Clean up the surface by removing foreign substances on the surface such as dust, oil stains, water, etc., for good application of the adhesives.

G_ Make horizontal and vertical marking accurately on the magnesium board to be fitted to the size of Antamine AHBT specified in advance by Shop-drawing.

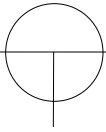
H_ Apply silicon sealant and hot-melt evenly on the defined application spots of the backside of each panel in the appropriate application method, and then press and attach it promptly before hardening of hot-melt on the magnesium board to be fitted to the marked joint line and fix them by driving tacker pins or screw nails (bis) on the protruded wood part or the thermosetting resin high pressure laminate.

I_ Assemble the fire resistant panel by inserting it into the corners of the attached panel , and then fix them by driving tacker pins or screw nails repeatedly on the right side of the protruded part of the assembled area.

J_ Peel off the protective film after completion of installation and finish the joint part by molding or caulking process.

K_ Stop the work of adhesion when the room temperature is below 5°C because the use of the adhesive at low temperature may cause the defect in adhesion, and ensure that the work is performed after keeping the room temperature at 15 °C ~ 25 °C , if you continue to work.

L_ For the storage of Eco-friendly prefabricated fire resistant panel (AH8T prefabricated panel), it must be placed to maintain the level and stored on the pallet, etc., away more than 20cm from flat ground after packing with vinyl not to be exposed excessively to moisture. For transportation, you should handle it with care not to cause damage to the surface or corners.

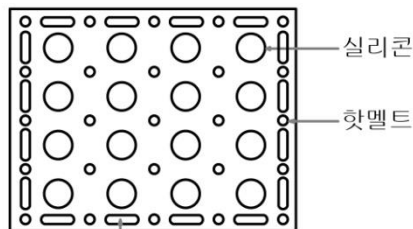
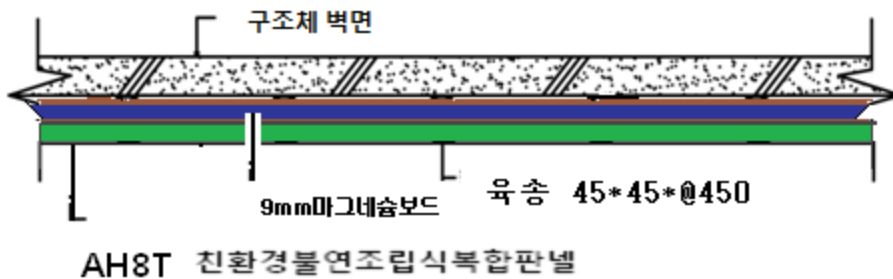


AH8T Eco-friendly fire resistant prefabricated compound panel[B-TYPE(Wood furring strip + Mg board method)]

B - Type 목재띠장 + Mg보드 공법



Plane figure of the installed Hi-Top fire resistant Panel (AH 8TS)



가장자리에서 10mm이내 도포

Spots for applying the adhesives

■ Cost-breakdown for Antamine Hi-Top prefabricated fire resistant panel (per M2) : **B-Type Wood furring strip + Mg board method**

Name	Spec.	Unit	Q'ty	U/price	Amount	Remark
Oregon pine	45*45*@450	pc	2.97			
Nail		kg	0.03			
Installation of furring strip	Carpenter	person	0.05			
Tacker pin	F30	Box	0.17			
Magnesium board	9T*900*1800	M2	1.05			
Adhesives (Silicon)		Kg	0.27			
Tacker Pin	ST 38	Box	0.08			
Screw nails (bis)	3.0x23	pc	12.00			
Installation of magnesium board	Carpenter	person	0.04			
Installation of magnesium board	Normal Worker	person	0.01			
Prefabricated fire resistant compound panel	AH8T	M2	1.05			
Adhesives (Hot-melt)		Kg	0.29			
Installation of prefabricated compound panel	Carpenter	person	0.22			
Installation of prefabricated compound panel	Normal Worker	person	0.17			
Molding		M	0.11			
Loss of tools	3% of tools	set	1.00			

**For the unit price
Please refer to the
price list**

Wall

Total
Labor cost
Material cost

Specifications for Antamine AH-8T [C-Type(Metal Stud Method)]

Special specifications for Eco-friendly Hi-Top prefabricated fire-resistant wall panel (AH8T)

1. General outline

It is a product of which 4 corners are finished in shape of \square to assemble after passing through the processes of using Magnesium board 6T rated fire-resistance Class 1 as the heartwood, laminating with thermosetting resin high pressure laminate(HPL) or artificial marble + wood in size of 40 x 6ft on the four sides of edge, attaching fiber glass on it to improve durability and to prevent flection, and then attaching various colors of fire-resistant board rating Class 2 (0.6mm) on the full front side and backer board (0.6mm) on the backside to prevent flection. The product is made with new compound materials with excellent abrasion resistance, water resistance and thermal resistance which are strong against humidity and fire, and it is possible to install it simply by assembling and to install it in split standards according to the user's requirement.

2. Fire resistance standards

It must conform to KS F 2271 standards set forth by Korea Institute of Construction Materials

3. Eco-friendliness

Emission of formaldehyde less than 0.5mg/L – It must conform to KS F 3200 standards.

4. Chemical properties

A_ Abrasion resistance

Rate more than 200 (KS M 3803)

B_ Chemical resistance

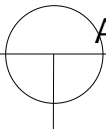
No transformation by acid or alkali (KS M 3803)

C_ Dimensional change

Length direction below 0.7%, Width direction below 1.2% (KS M 3803)

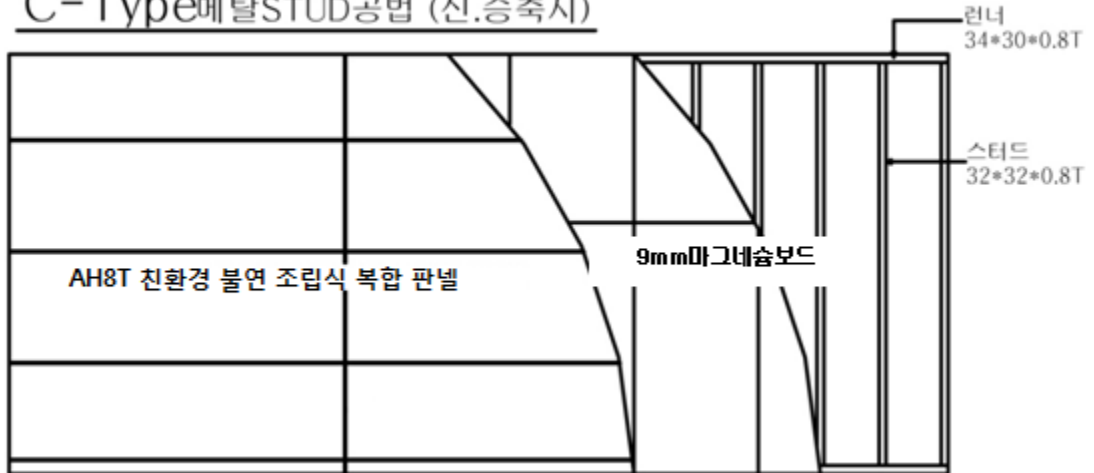
5. Generals for Installation

- A_ Wear protective goggles and dust protective mask to protect the eyes and respiratory system from dusts generated when you cut Eco-friendly prefabricated fire resistant wall panel (Antamine Hi-Top AH8T) and Magnesium board (900*1800*9T) with a special saw .
- B_ First of all, fix the size 34*30*0.8mm of runners on the ceiling and ground of structural wall side , stand the size 32*32*08mm of Metal Stud vertically at interval of 405mm and connect them to the runner, and then fix them with tacker nails for concrete to keep vertical and horizontal.
- C_ Attach a layer of magnesium board (9mm) on the Metal Stud and make the base flat.
The magnesium board is stronger by 6 times than that of gypsum board and has an excellent water resistance, so it can act as the effective interior material in a small volume.
- D_ Clean up the surface by removing foreign substances on the surface such as dust, oil stains, water, etc., for good application of the adhesives.
- E_ Make horizontal and vertical marking accurately on the magnesium board to be fitted to the size of Antamine AHBT specified in advance by Shop-drawing.
- F_ Use an electric saw or a grinder for cutting the panel at installation, and if necessary, use a corner type of molding.
- G_ Apply silicon sealant and hot-melt evenly on the defined application spots of the backside of each panel in the appropriate application method, and then press and attach it promptly before hardening of hot-melt on the magnesium board to be fitted to the marked joint line and fix them by driving tacker pins or screw nails (bis) on the protruded wood part and the thermosetting resin high pressure laminate.
- H_ Assemble the fire resistant panel by inserting it into the corners of the attached panel , and then fix them by driving tacker pins or screw nails repeatedly on the right side of the protruded part of the assembled area.
- I_ As for the adhesives, use KCC transparent acetic acid free silicone sealant and hot-melt, but before application, make sure that the surface is not contaminated with water or other diluents, which may cause to lower the physical property of the adhesives.
- J_ Peel off the protective film after completion of installation and finish the joint part by molding or caulking process.
- K_ Stop the work of adhesion when the room temperature is below 5℃ because the use of the adhesive at low temperature may cause the defect in adhesion, and ensure that the work is performed after keeping the room temperature at 15 ℃ ~ 25 ℃, if you continue to work.
- L_ For the storage of Eco-friendly prefabricated fire resistant panel (Antamine Hi-Top AH8T), it must be placed to maintain the level and stored on the pallet, etc., away more than 20cm from flat ground after packing with vinyl not to be exposed excessively to moisture. For transportation, you should handle it with care not to cause damage to the surface or corners.

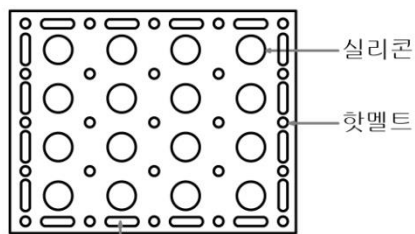
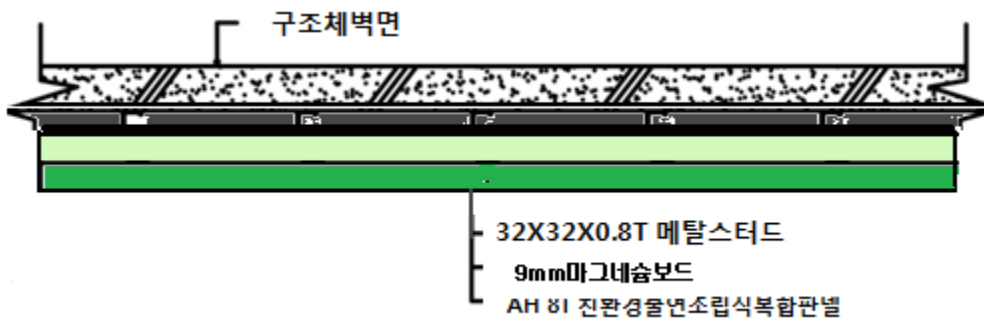


AH8T Eco-friendly prefabricated fire resistant compound panel [C-TYPE Metal Stud method (for new or extension building)]

C-Type메탈STUD공법 (신.증축시)



Plane figure of the installed Hi-Top fire resistant Panel (AH 8TS)



가장자리에서 10mm이내 도포

Spots for applying the adhesives

■ Cost-breakdown for Antamine Hi-Top prefabricated fire resistant panel (per M2) : **C-Type Metal Stud Method (For new or extension building)**

Name	Spec.	Unit	Q'ty	U/price	Amount	Remark
C-Stud	32*32*0.8	M	2.52			
C-Runner	34*30*0.8	M	0.72			
Anchor Bolt	NK-27	pc	1.24			
Screw nails	3.5*32	pc	40.00			
Installation of lightweight steel-frame	ironworker	person	0.07			
Magnesium board	9T*900*1800	M2	1.05			
Adhesive (Silicon)		Kg	0.27			
Tacker pin	F30	Box	0.08			
Screw nail (Bis)	3.0x23	pc	12.00			
Installation of magnesium board	Carpenter	person	0.04			
Installation of magnesium board	Normal worker	person	0.01			
Prefabricated fire resistant compound panel	AH8T	M2	1.05			
Adhesives (hot-melt)		Kg	0.29			
Installation of prefabricated fire resistant compound panel	carpenter	person	0.22			
Installation of prefabricated fire resistant compound panel	Normal worker	person	0.17			
Molding		M	0.11			
Loss of tools	3% of tools	set	1.00			

**For the unit price
Please refer to the
price list**

Wall

Total
Labor cost
Material cost

Specifications for Antamine AH-8T (D-Type: Repairing the existing wall with water resistant plywood)

Special specifications for Eco-friendly Hi-Top prefabricated fire-resistant wall panel (AH8T)

1. General outline

It is a product of which 4 corners are finished in shape of \square to assemble after passing through the processes of using Magnesium board 6T rated fire-resistance Class 1 as the heartwood, laminating with thermosetting resin high pressure laminate(HPL) or artificial marble + wood in size of 40 x 6ft on the four sides of edge, attaching fiber glass on it to improve durability and to prevent flection, and then attaching various colors of fire-resistant board rating Class 2 (0.6mm) on the full front side and backer board (0.6mm) on the backside to prevent flection. The product is made with new compound materials with excellent abrasion resistance, water resistance and thermal resistance which are strong against humidity and fire, and it is possible to install it simply by assembling and to install it in split standards according to the user's requirement.

2. Fire resistance standards

It must conform to KS F 2271 standards set forth by Korea Institute of Construction Materials

3. Eco-friendliness

Emission of formaldehyde less than 0.5mg/L – It must conform to KS F 3200 standards.

4. Chemical properties

A_ Abrasion resistance

Rate more than 200 (KS M 3803)

B_ Chemical resistance

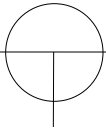
No transformation by acid or alkali (KS M 3803)

C_ Dimensional change

Length direction below 0.7%, Width direction below 1.2% (KS M 3803)

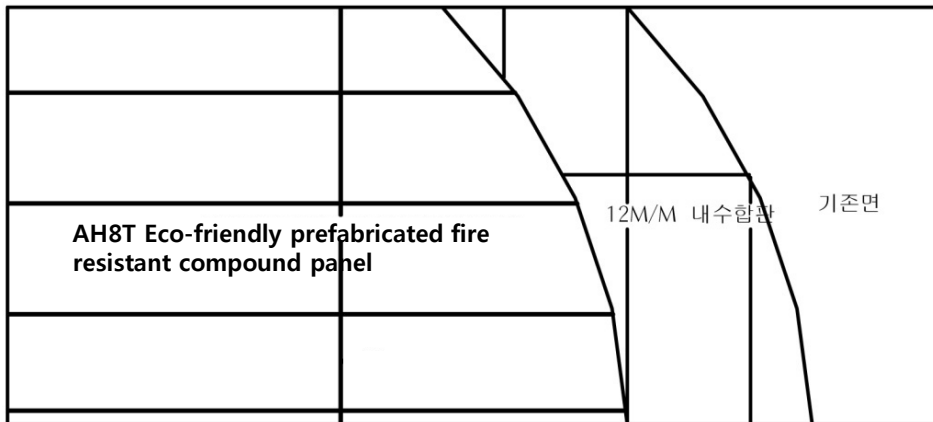
5. Generals for Installation

- A_ For installation of finishing material on the surface of existing tile, the attachment status of the tile should be good with right verticality and horizontality, and for installation on a new wall, apply a premier plastering and then attach a layer of water resistant plywood (12T) with tacker nails and adhesives as controlling verticality and horizontality with pieces of plywood.
- B_ Clean up the surface by removing foreign substances on the surface of the plywood such as dust, oil stains, water, etc., for good application of the adhesives.
- C_ Wear protective goggles and dust protective mask to protect the eyes and respiratory system from dusts generated when you cut the eco-friendly fire resistant panel (Antamine Hi-Top AH8T) with an electric saw .
- D_ Make horizontal and vertical marking accurately on the surface of the base according to Shop -drawing , apply the adhesives (silicon sealant and hot-melt) evenly on the backside of Eco-friendly fire resistant panel (Antamine Hi-Top AH8T) at interval of @200*200, and then press and attach it promptly before hardening of hot-melt and fix it by driving tacker pins or screw nails (bis) on the edge of wood part and the thermosetting resin high pressure laminate.
- E_ Assemble the fire resistant panel by inserting it into the corners of the attached panel , and then fix them by driving tacker pins or screw nails (bis) repeatedly on the right side of the protruded part of the assembled area.
- F_ Peel off the protective film after completion of installation and finish the joint part by molding or caulking process.
- G_ Stop the work of adhesion when the room temperature is below 5°C because the use of the adhesive at low temperature may cause the defect in adhesion, and ensure that the work is performed after keeping the room standard temperature at 15 °C ~ 25 °C, if you continue to work.
- H_ As for the adhesives, use KCC transparent acetic acid free silicone sealant and hot-melt, but before application, make sure that the surface is not contaminated with water or other diluents, which may cause to lower the physical property of the adhesives.
- I_ For the storage of the eco-friendly fire resistant panel (Antamine Hi-Top AH8T), it must be placed to maintain the level and stored on the pallet, etc., away more than 20cm from flat ground after packing with vinyl not to be exposed excessively to moisture. For transportation, you should handle it with care not to cause damage to the surface or corners.

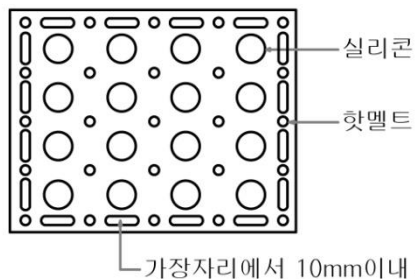
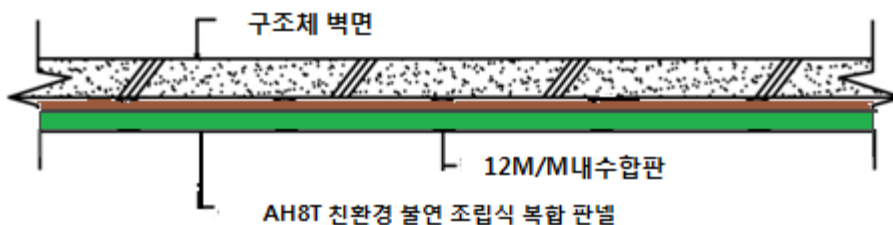


AH8T Eco-friendly prefabricated fire resistant compound panel[D-TYPE for repairing the existing wall]

D-Type 기존벽면 보수시



Plane figure of the installed Hi-Top fire resistant Panel (AH 8TS)



Spots for applying the adhesives

■ Cost-breakdown for Antamine Hi-Top prefabricated fire resistant panel (per M2) : **D-Type for repairing the existing wall with water resistant plywood**

Name	Spec.	Unit	Q'ty	U/price	Amou	Remark
Water resistant plywood	12T*1220*2440	M2	1.05			
Adhesives (silicon)		Kg	0.27			
Tacker Pin	ST38	box	0.08			
Screw nail (Bis0	3.0x23	pc	12.00			
Installation of water resistance plywood	carpenter	person	0.04			
Installation of water resistance plywood	normal worker	person	0.01			
Prefabricated fire resistant panel	AH8T	M2	1.05			
Adhesives (Hot-melt)		KG	0.29			
Installation of prefabricated fire resistant panel	carpenter	person	0.22			
Installation of prefabricated fire resistant panel	Normal worker	person	0.17			
molding		M	0.11			
Loss of tools	3% of tools	set	1.00			

**For the unit price
Please refer to the
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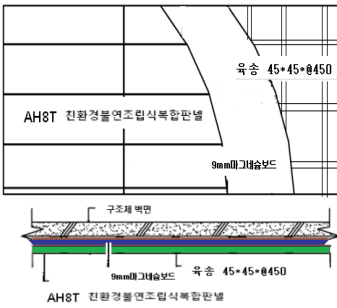
Wall

**Total
Labor cost
Material cost**

[Working drawing for each type]

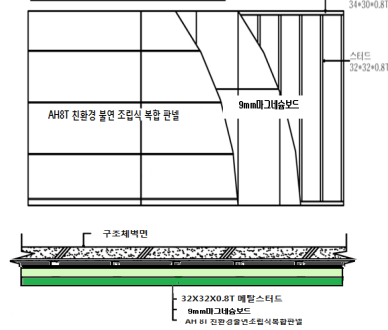
[B-TYPE wood furring strip + Mg Board method]

B - Type 목재띠장 + Mg보드 공법



[C-TYPE Metal Stud method(for new or Extension)]

C-Type 메탈STUD공법 (신,증축시)



[D-TYPE for repairing the existing wall]

D-Type 기존벽면 보수시

