GR ISO9001 ISO14001 UL ASTM RECYCLE KS

Environmentally Friendly Polyester Panel T-MAX®

Sound Block, Sound Absorption & Thermal Insulation

ENVIRONMENT INNOVATION

T-MAX®

Created by the combination of man, environment and technology

Environmentally Friendly Sound Absorption & Thermal Insulation Material, T-MAX®

Under the theme of "Environment Innovation", HUEINTEK, INC. is contributing to a clean environment through codeveloping 'Saeslon'-the first polyester made sound absorption and thermal insulation material-with Saehan Co., Ltd. and through producing T-MAX brand.
HUEINTEK, INC. is leading polyester sound absorption material markets by applying Environmentally Friendly Sound Absorption & Thermal Insulation Materials to various constructions and industry sectors such as soundproof walls, interior sound absorbing finishing materials, automobile interior materials, and exterior panels.
It's low-maintenance, stain-resistant surface makes wall fabric an ideal finish for school classrooms, office partitions, notice boards, pinboards, exhibition stands and a variety of commercial spaces.
Our extensive range of wall fabric colours and finishes, custom printed photographic image allow designers to create attractive, comfortable environments that look and feel unique.

Applications of BIO T-MAX

- Sound Absorption & Thermal Insulation Materials (internal & external) for buildings (e.g. walls, ceilings, floors)
- Sound absorbing materials for a movie theater, gymnasium, and church
- Internal filling materials for lightweight partition and for stud
- Sound proof & absorption materials for sound proof walls on railroad, or on road
- Sound proof & heat insulation materials for machine rooms, A/C rooms
- Heat insulation materials to prevent condensations in apartments, noise reducing materials between floors
- Sound absorption materials for interior art walls
- Using as substitute materials for M.D.F, plaster boards, rock wool, glass wool and mineral wool
- Heartwood of sandwich panel
- Inside materials for automobiles, ships and trains
- Internal and external insulation for ventilation air ducting

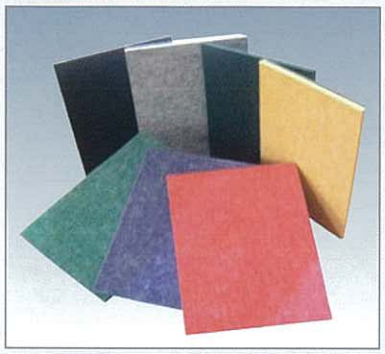
Special features of BIO T- MAX

- Excellent sound absorption and thermal insulation : 0.45 NRC (1/2"), 0.75 NRC (1")
- Outstanding antibiosis and anti odor effects due to 100% polyester made material
- 100% Recycling is possible and incineration is easy, Environment safe
- Fire retardant (self-extinguishing) and no toxic gas generated when burning : ASTM E-84 "A" grade
- No arsenic acid dust caused by weathering
- Harmless to human body since it is easy to handle and simple to apply
- Strong in Moisture, No Mold, No Order : Low water absorption and high water resistance
- Semi permanent life span due to excellent water drainage and superior shape stability
- Dust free, No Formaldehyde, Non-Allergenic, Non-Toxic : No risk of skin irritation or respiratory problems

T-MAX / T-BOARD / ARTBOARD product specifications

Classifications	T-MAX(Soft Type)	T-BOARD & ART BOARD(Hard Type)	Remarks
Density (kg/m³)	24~80	80~400	Various sizes and colors are available according to customer' s order.
Thickness(mm)	10~100	5-25	
Width(mm)	2,000	1,200	
Length(mm)	order made	2,400	
Type	plate / roll	plate	

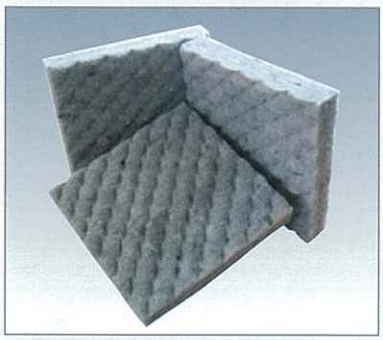
Environmentally Friendly Sound Absorption & Thermal Insulation Material, KS mark certified, Certified as an excellent product by the Public Procurement Service T-MAX®



High density polyester sound absorption and thermal insulation material, T-BOARD & ARTBOARD

- **Product Information:** T-BOARD and ARTBOARD are the first developed hard board type interior sound absorption materials in the world.
- **Product specification:** Density _ 80~400(K) / Thickness: _ 5~25(T)

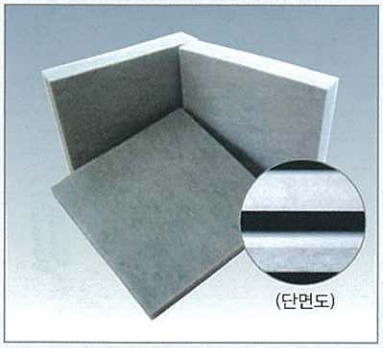
Applications Tower Palace in Samsung-dong, Megabox cinema, Banwol Church, APEC summit conference room, ASEM training room, gymnasium and tennis court of Woolsan College



Embo type polyester sound absorption material-T MAX Embo

- **Product Information:** T-MAX Embo has an excellent durability due to embossing processing on the upper layer part. Sound absorption, porousness and warmth have been improved by the expansion of air layers.
- **Product specification:** Density_ 32~80(K) / Thickness _ 10~100(T)

Applications Sound absorption and thermal insulation materials for outdoor concert hall of Children's Grand Park, Engineering Hall of Seoul National University, Mechanical A/C room in Korea Electric Power Corporation, sound proof walls for KTX & express high way



Double layer polyester sound absorption and thermal insulation material, T-MAX DOUBLE

- **Product Information:** T-MAX DOUBLE is used as an internal sound absorbing finishing material since it consists of low density layer for better adhesiveness and high density layer for adhesive finishing.
- **Product specification:** Density_ 40~80(K) / Thickness _ 10~100(T)

Applications KINTEX exhibition center, control room of World cup stadium, CGV cinema, MBC studio hall, POSCO Chamshil Star Park The Sharp, Songdo International Convention Center, Daewoo Jooam construction site (project of the Ministry of National Defense), Hyundai Motor combi bus

Finishing polyester sound absorption and thermal insulation material, T-MAX NET

- **Product Information:** Net finishing on the surface of T-MAX DOUBLE enables to finish without a process of fabric adhesiveness and to improve sound absorption.
- **Product specification:** Density_ 40~80(K) / Thickness_ 10~100(T)

적용사례 A/C room of Kyunghee Cyber University, mechanical room in Scientific hall of Yonsei University, mechanical room in Kumho Apartment, electrical substation of Korea Electric Power Co. in Joongkye-dong, mechanical room of Chonam National University Hwasun Hospital, residential-commercial building of Lotte Construction in Hwanghak-dong

T-MAX Sound blocking sheet

- **Product Information:** T-MAX sound blocking sheet is attached to steel plate, plastic plate, or plywood in order to reduce noise and vibration as well as to block efficiently the structure borne noise.
- **Product specification:** Thickness _ 1~4(T)

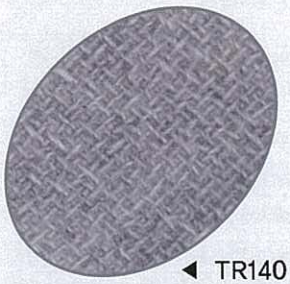
적용사례 EBS studio, Kangnam Uerim Oriental Hospital, Yoido Kosdak stock exchange room, KBS dubbing room etc.

T-Fabric is interior fabric with outstanding fire retardance

Non-combustible

Flame Retardant

- Please contact us for various samples.
- There may be color differences between samples and actual products due to different dyeing LOT.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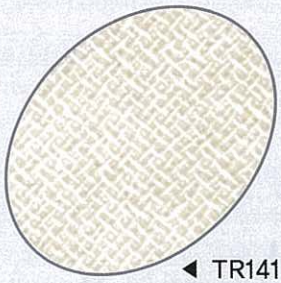
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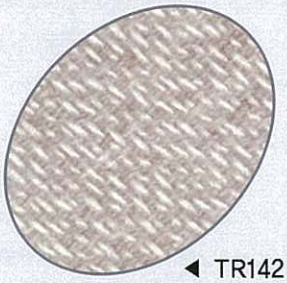
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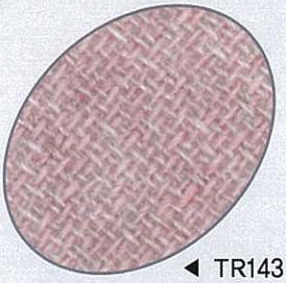
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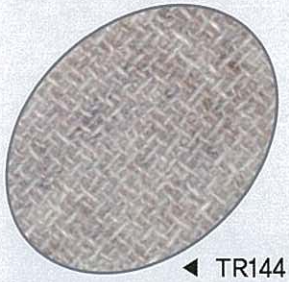
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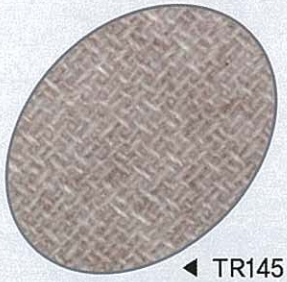
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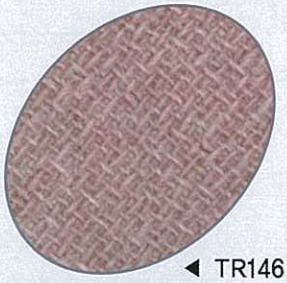
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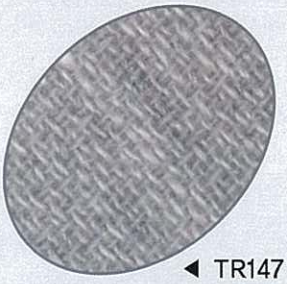
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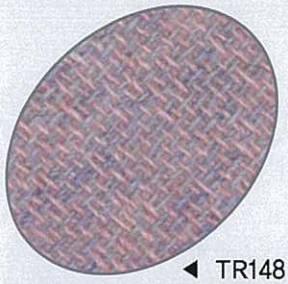
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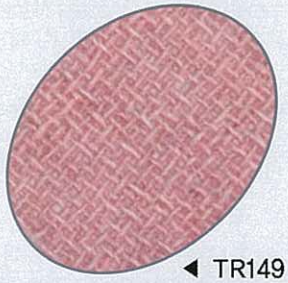
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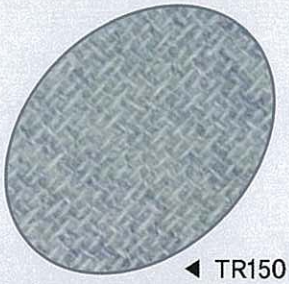
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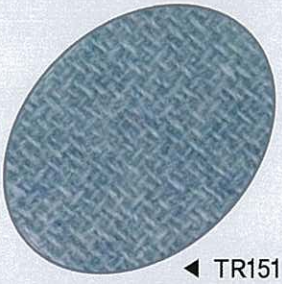
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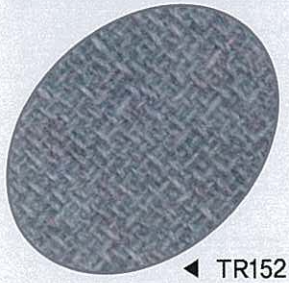
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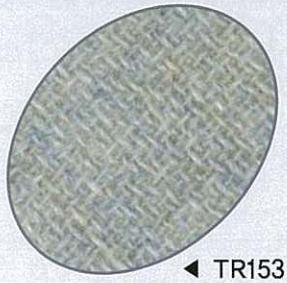
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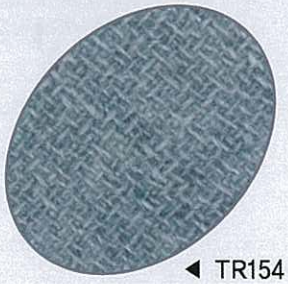
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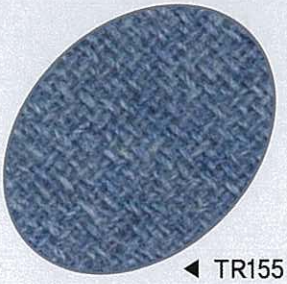
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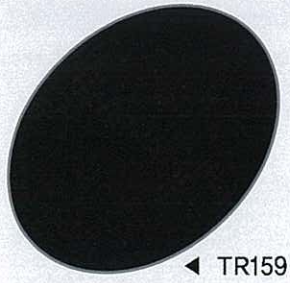
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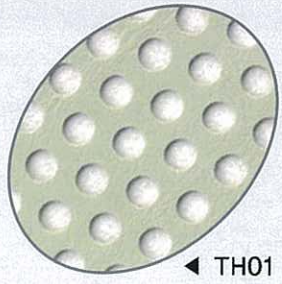
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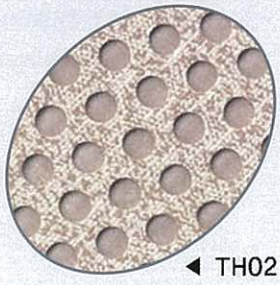
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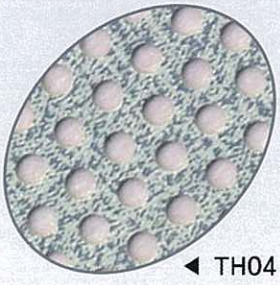

◀ TH04

Product quality comparison between existing items and T-MAX items

Classifications	T-MAX (Polyester)	Glass fiber	Rock wool	Urethane foam	Polystyrene
Recycle/ Environment	Easy recycling and incineration. No minute particles generated	Difficult reuse and incineration			
Easiness of Operation & Installation	No damage to products upon transporting and handling them. No need for protective outfits	Need for protective outfits upon transporting and handling.		Easy installation	
Harmfulness to human body	Using materials for clothes (harmless to human body)	Harmful to human body for prolonged use.		Toxic gas generated upon burning	
Water drainage/ Absorptiven-ess	Superior tensile strength and cohesiveness: Short draining time and sustainable sound absorption without deformation	Decreased sound absorption and heat insulation due to prolonged water drainage. Deformation occurs.		Close Cell Structure	
Heat-resistance	Self-extinguishing without the flame due to an organic material. Start to be deformed at about 260	Semi non combustible due to an inorganic material		Frail to heat	Very frail to heat
Weather Resistance	Weathering does not occur even in case of prolonged exposure to air due to strong cohesiveness	Weathering occurs in case of prolonged exposure to air		Almost unchangeable shape	Heat insulation will fade over time.
Environment -ality	No air pollution due to rare arsenic acid by weathering	Air pollution generated because of arsenic acid by weathering			Dispersed
Dynamic Stability	Excellence	Not available			

Physical Property comparison: existing materials vs. T-MAX

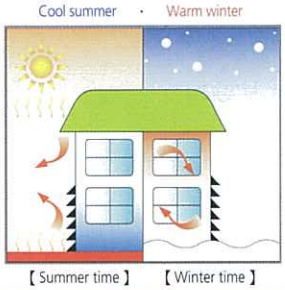
Classifications		T-MAX (Polyester)	Glass fiber	Rock wool	Urethane foam	Polystyrene
Production Methods		Compressed 100% of polyester with heat (self melting adhesion)	Produced through molding process of glass fibers (glue used)	Produced by molding process of mineral fibers(glue used)	Produced by polymerizing and foaming Lsocynte and Polyother	Foamy PS resin by polymerizing styrene monomer in the water
Physical Property	Material	Polyester organic substance	Sio_2 inorganic substance	$Sio_2 + Al_2O_3$ inorganic substance	Independent type organic substance	Organic substance
	Sound absorption rate (NRC)	0.75~0.80	0.75~0.80	0.75~0.80	0.75~0.80	
	Heat conductivity	0.030~0.039	0.028~0.043	0.034~0.039	0.035	0.028~0.039
	Density (kg/m^3)	10~400	32~120	60~200	16~40	15~30
	Thickness (mm)	10~100	25~75	25~100	25~100	10~100
	Withstand temperature (℃)	~260	~350	~400	~100	~80

T-MAX FOIL

T-MAX FOIL developed to have the maximum heat insulation effect by treating the polyester and aluminum unharmful for the human body with special adhesion keeps the sound absorption efficiency for inner and outer wall of building as well as heat insulation and dampproofing. Also, it is a heat reflection material cutting the construction period and cost thanks to easy construction.

Product Features

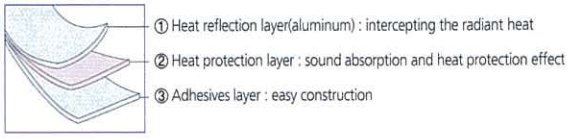
* Excellent heat insulation and freezing resistance
* Dew condensation-preventing effect in the inside of building
* Environmentlly-friendly material unharmful for the human body
* Non-occurrence of innocuous gas by flame retardant material
* Easy for treatment and construction
* Best heat insulation with low cost
* Capable of recycling



T-MAX FOIL is a new technology concept of heat reflection and insulation material having the maximum heat insulation effect with the minimum thickness.

Use of T-MAX FOIL

* Heat insulation in the building, housing, warehouse, knockdown building, piping, and duct line
* All industrial facilities such as automobile, refrigerator and freezer, boiler and drier
* All other industrial and building field needing heat insulation
* Soundproof and heat insulation between the floors or families



T-MAX FOIL type and size

Item	Thickness	Size	Thermal conductivity	Use	Strength
T-MAX FOIL	6mm	1m*50m (Roll)	0.029	Heat insulation of outer wall	Heat reflection, Heat insulation, dampproofing, sound absorption

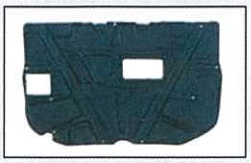
Applications

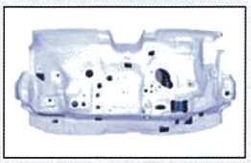
■ Automobiles

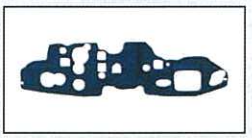
◆ Applied products :
T-MAX & T-BOARD

- Harmless to human body, Easy to handle, Excellent molding, Comfortable
- In terms of automobile weight, it is 30% less than the existing products. Product damages rarely occur due to its high durability.
- Outstanding sound absorption of car noise

- INSULATOR HOOD
- INSULATOR DASH
- HEAHLINING
- DOOR TRIM
- REAR SHELF
- SPATE WHEEL COVER
- INSULATOR DASH LOWER FRONT







■ Sound proof walls

◆ Applied products : T-MAX

- Sound absorption rate and Sound Transmission Loss are remarkable.
- There is no deformation with high durability
- It is easy to handle and install. Environmentally friendly because of no arsenic acid

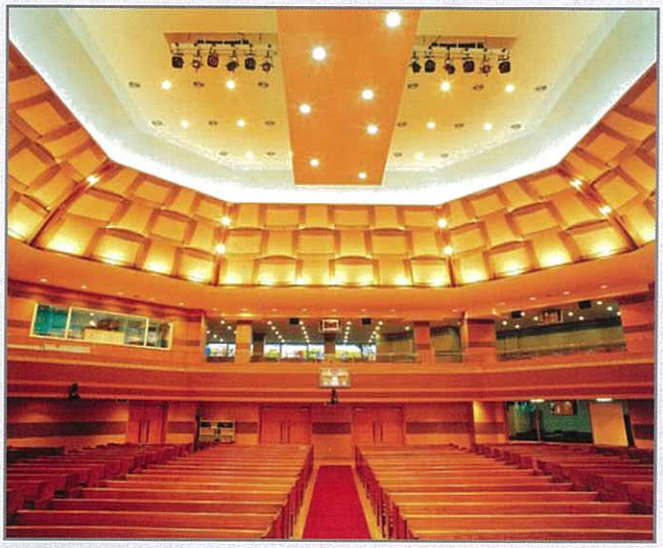
Applications

Conference rooms · Sound absorption materials for interior art wall

◆ Applied products: T-BOARD & ARTBOARD

◆ Usage:

- Sound absorption and thermal insulation materials for buildings (ceilings, walls, floors)
- Sound absorption materials for interior art wall
- Sound absorbing finishing materials for sound related places such as home theaters etc



Church • Concert hall

◆ Applied products:T-MAX DOUBLE & ARTBOARD

◆ Usage:

- Sound absorption and thermal insulation materials for convention halls, churches, auditoriums
- Sound absorbing finishing materials for class rooms, pre-schools, piano institutions (Outstandig antibiosis and anti odor effects)

Movie theater • Sound box

◆ Applied products: T-BOARD & T-MAX DOUBLE

◆ Usage:

- Sound absorption and thermal insulation materials for acoustic equipment
- Sound absorbing finishing materials for subway outer walls (Outstandig antibiosis and anti odor effects)

Lightweight partition

◆ Applied products: T-MAX

◆ Usage:

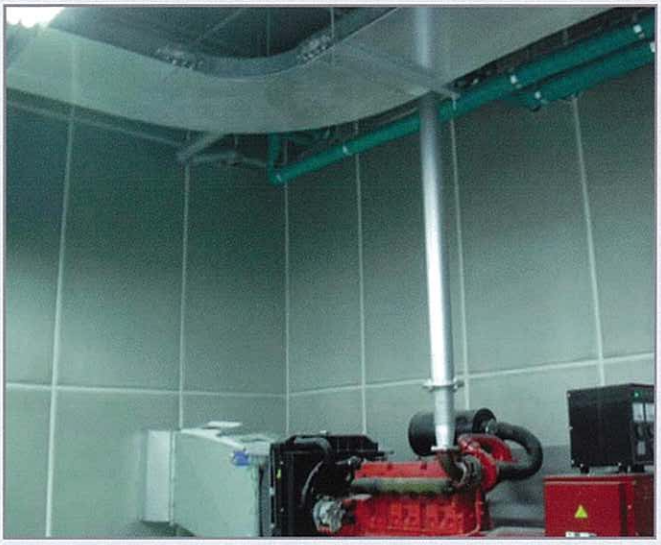
- Sound absorbing finishing materials for lightweight partitions
- Heartwood of sandwich panel
- Internal filling materials for metal made wooden molding

Gymnasium • Auditorium

◆ Applied products : T-MAX DOUBLE

◆ Usage:

- Sound absorbing finishing materials for auditorium, sports stadium
- Substitute material for imported sound absorption materials such as tree root made sound absorption materials



Mechanical rooms • A/C rooms• Noise & Vibration equipment

◆ Applied products:T-MAX NET & T-MAX DOUBLE

◆ Usage:

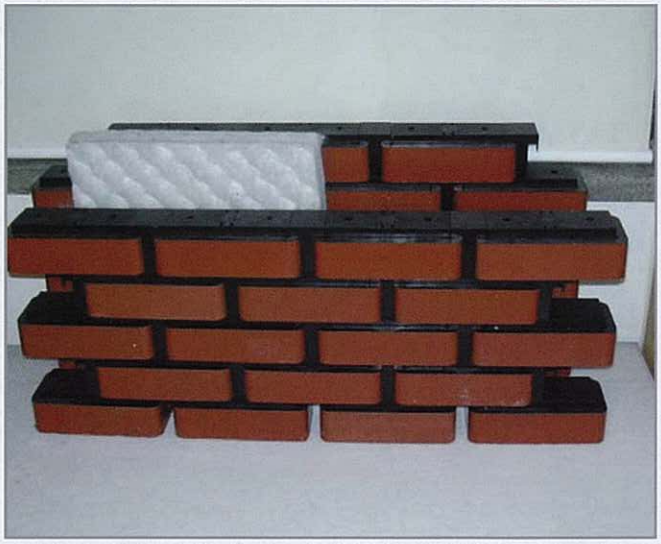
- Sound absorption materials for mechanical rooms and A/C rooms
- Sound absorption and thermal insulation material for duct and other facilities

Thermal insulation material for roof

◆ Applied products: T-MAX

◆ Usage:

- Thermal insulation material for roof
- Heat insulation materials to prevent condensations on outer walls in apartments



Heat insulation materials

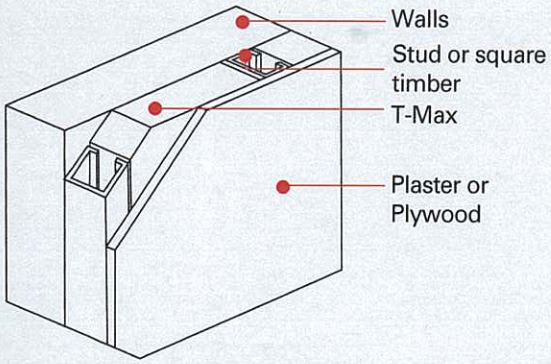
◆ Applied products : T-MAX

◆ Usage:

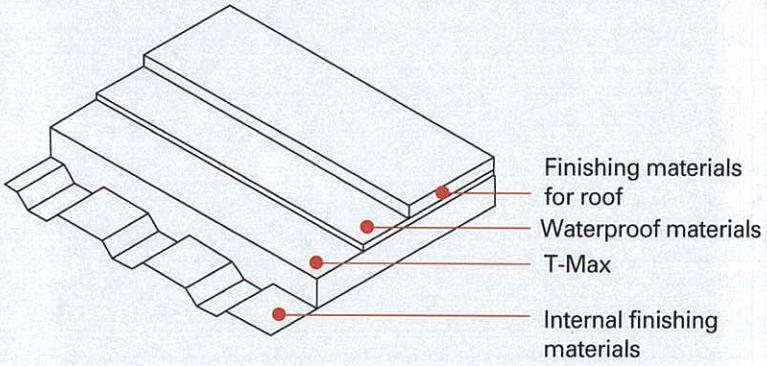
- Heat insulation materials in the buildings
- Internal filling materials for lightweight partitions
- Internal filling materials for stud

T-MAX Installation Methods

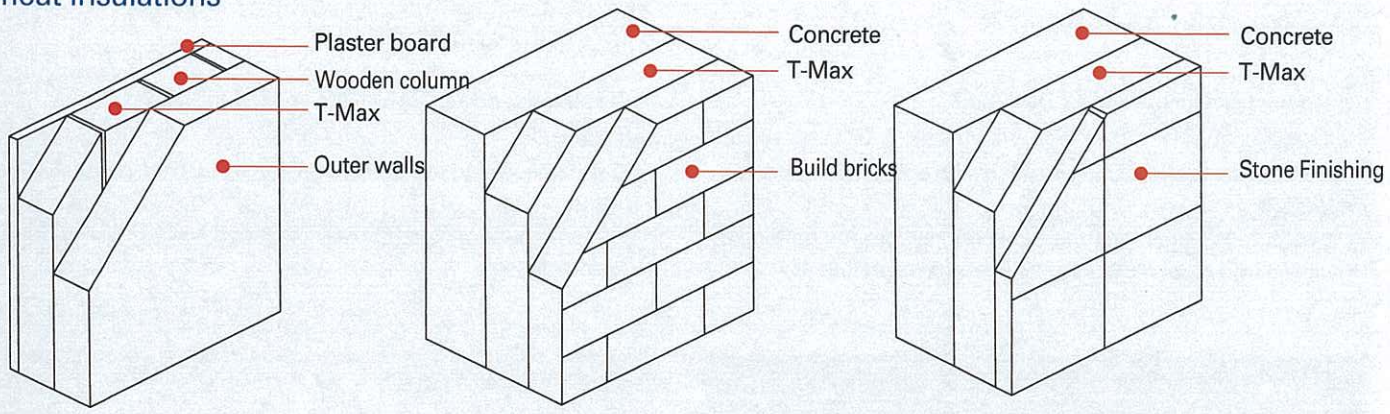
■ Method of construction for inner wall heat insulations



■ Method of construction for roof heat insulations

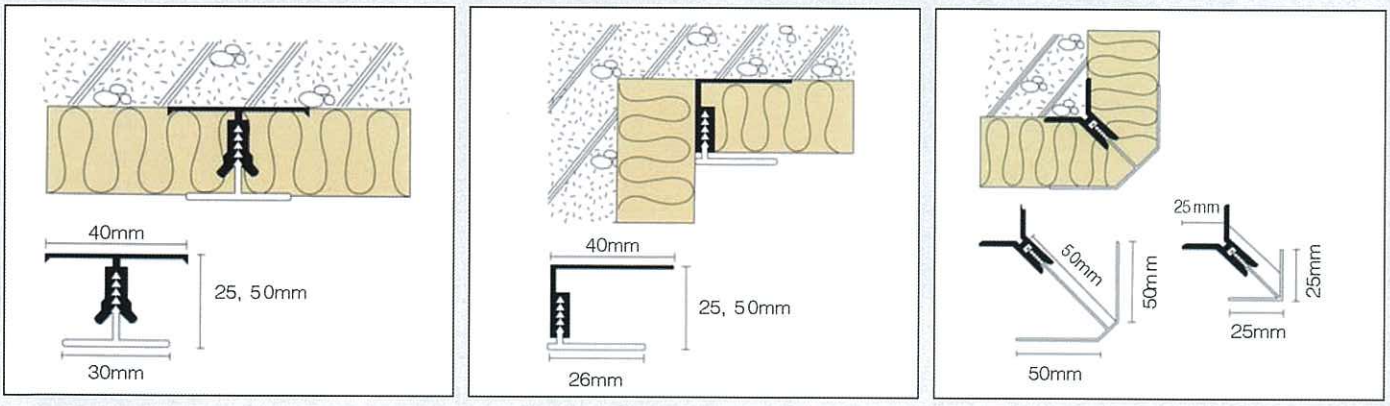


■ Method of construction for outer wall heat insulations



Wooden building | Build bricks | Stone building

■ Molding for interior finishing



Line type (L type) | End type (E type) | Corner type (C type)

※ ※ *All T-Max series items are easy to work by gluing*

T-MAX certification and testing results

Good Recycled Product

KS Mark Certification
(Korean Standards Association)

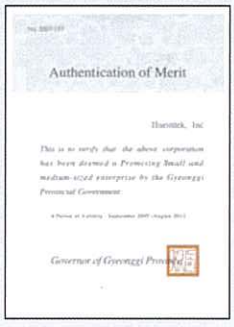
ISO 9001

ISO 14001

UL Mark (Underwriters
Laboratories Inc.)

Excellent Product
(The Public Procurement
Service)

Environmental Building Material
(Korea Air Cleaning Association)



Promising Small and medium-
sized enterprise
(Governor of Gyeonggi Province)

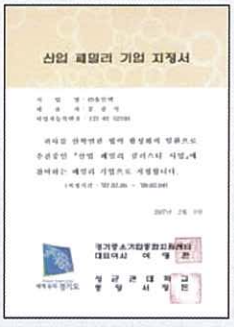
Promising Export Firm
(Small & Medium Business
Export Center)

Eco-labeling Certificate
(Korea Eco-Products Institute)

Environment-Friendly
Management Prize
(The Ministry of Commerce,
Industry and Energy)

INNO-BIZ, nominated as a
small & medium sized
company with Innovative
Technology

MAIN-BIZ, nominated as a small
& medium sized company with
Innovative Management



Industrial Family Enterprise
(Gyeonggi Small & Medium
Business Center)

Research & Development
Department
(Korea Industrial Technology
Association)

Patent License
(Korean Intellectual Office)

Thermal Conductivity Testing
(Korea Testing & Research
Institute)

Sound Absorption Testing
(Korea Institute of Construction
Technology)

Gas Toxicity Testing
(FITI Testing & Research
Institute)

Harmfulness Test to
Human Body
(Huntington Lab in U.K.)

ENVIRONMENT INNOVATION

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