



Human Health

**TAIWAN GREEN
BUILDING MATERIALS**

Sustainable Development

Introduction of Taiwan Green Building Material Mark



TAIWAN GREEN BUILDING MATERIALS

The green building materials concept was first launched in the first international symposium on material science in 1988. In 1992, the international academic society give the definition of “Green Building Material”: the materials which have the minimum load on the earth environment and produce no harm to the human health in the process of raw material acquirement, product manufacturing use as well as the cycle of recycle and reuse are collectively called the Green Building Material. Since then, the EU countries have start to proactively promote Environmental Product Declarations (EPD), which evaluates the environmental impact from the building materials by using lifecycle analysis.

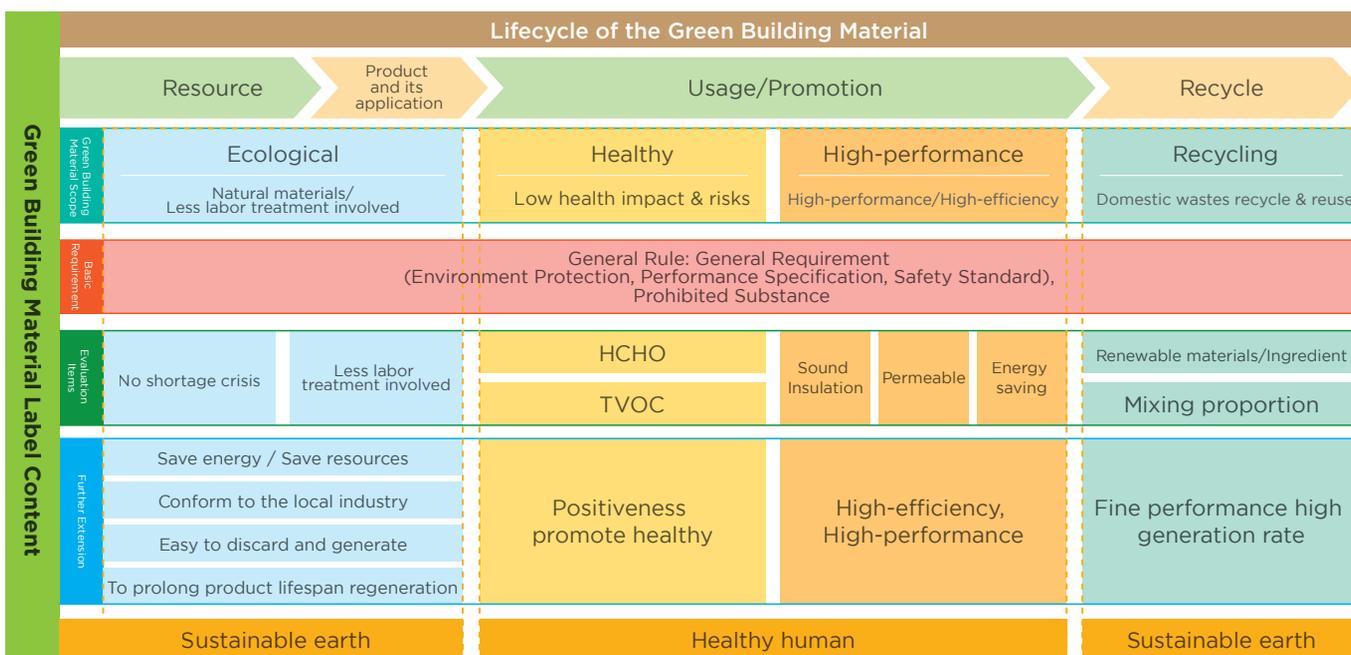
Ever since Germany introduced Blue Angel Ecolabel, certification relating to building and environment have been on the rise globally. Besides Blue Angel Ecolabel, other green material building labels have been erected, such as Finland’s Emission Class for Building Material, Denmark and Norway’s Indoor Climate Label, Germany’s environmental and building evaluation label, Northern Europe eco-friendly label, EU ECO-LABEL, US GREEN SEAL and GREEN GUARD/UA, Japan Eco Mark and Residential performance representation system, Canada EcoLogo, Korea Eco-Label mark, Singapore Green Labelling Scheme and Singapore Green Building Product Mainland China Environmental Labelling and Green Building Materials.



▲ Blue Angel Ecolabel

Taiwan currently is heading towards the trend of high rise building development, and have taken into account that the general public's living space are often over renovated. Furthermore, Taiwan also faced the challenges of climate change and resource shortage globally. With this in mind, the Taiwan Architecture and Building Research Institute proactively respond back by promoting the concept of "Healthy Humanism and Sustainable Earth", and established the "Green Building Material Label" standards in 2004. Under the united support and efforts across various sectors, the value of the Green Building Material Label have been widely recognized for its importance.

As of the end of March, 2019, 2177 Green Building Material Label have been issued, covering more than 15,000 kinds of products. Additionally, in regards to the building law and regulations, provisions have made to rules relating to the building designs and construction of green building materials of "Building Technical Regulations", which will be implemented on July 1st, 2002. These include that the interior green building materials utilization rate should be raised to 45% from the original 5%, 30%. Moreover, materials used in floors outdoors must utilize at least 10% of green building materials. The relevant laws have push for the trend of production and consumption of green building materials domestically.



origin : <https://smartgreen.abri.gov.tw>

The definition and evaluation standards of the green building material mark have indirectly given some guarantee for a healthy comfortable environment within buildings. Furthermore, it plays an important role in leading the development of green building materials industry sector. In order to respond to the challenges faced by Taiwan and the technological development of building materials, the Green Building Material Label is currently incorporating energy saving building materials into the criteria of high performance green building material label. In the future, there will be 6 types of energy saving green building materials that will fulfill the actual needs of the industry and consumers, these include "Energy Efficiency Glass", "Heat Insulation Materials for Buildings", "Window Film for Doors and Windows of Buildings", "Cold Roofing Materials", "Wall System and Structure" and "Roof System and Structure" least 20% of green building materials. This could lower the risk of health hazards for the general public and promote an industrial upgrade of the domestic building materials industry.

Moreover, the Construction and Planning Agency, Ministry of the Interior is planning on making provisions to the rules relating to the building designs and construction of green building materials of "Building Technical Regulations", which would require that the interior green building materials utilization rate should be raised to 60%, materials used in floors outdoors must utilize at least 20% of green building materials. This could lower the risk of health hazards for the general public and promote an industrial upgrade of the domestic building materials industry.



Source: Green Building Materials Industry Alliance

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Skylight Vent / Skylight Smoke Vent

The seamless dialogue between
wind and light, perfect daylight
breeze for buildings

佛司特金屬

FIRST METAL
PRODUCTS
INDUSTRIAL
CO., LTD.

佛司特[®] 採光通風天窗

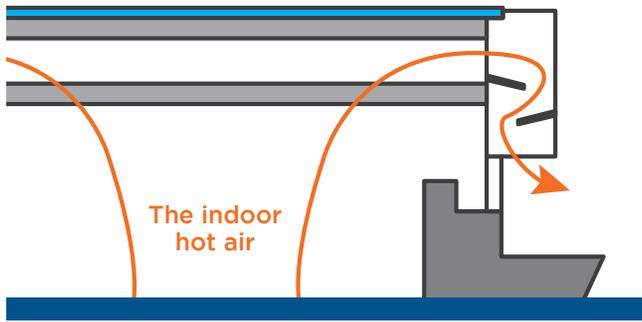
About First Metal

First Metal Products Industrial Co., Ltd. was established in 2015 and has been devoted to the research development of areas related to green products and environmental friendly building materials. In recently years, First Metal has been designing and doing research development on Skylight Vent/ Skylight Smoke Vent. The products' appearance not only has a modern look but also has great natural lighting. The unique patented design allows the surroundings to be well ventilated, watertight, having natural airflow and quick dissipation of heat, which achieves the goal of energy saving and carbon reduction. The superior technology allows First Metal to establish a foothold in Taiwan and able to globally expand its production.

Tel / +886-905-733-063 、 +886-905-337-063
Fax / +886-4-2472-0877
Address / No. 462, Sec. 1, Dongxing Rd., Nantun Dist., Taichung City 408025
service@firstmetalproducts.com

The 17th Business Startup Awards
Invention Patent No. I656307
US Utility Patent US 9,772,114 B2

▼ The design of the heat dissipation line allows indoors to achieve efficient ventilation



▶ Great Technology

The traditional ridge vent consists of a few imperfections which include poor natural lighting, complicated construction process, and high malfunction rate of turbine ventilator, therefore the Skylight Vent manufactured by First Metal will bring evolutionary transformation. Its advantages include the use of tempered glass to increase the light transparency lighting up the environment, apply the chimney effect to help drive natural ventilation indoors, which in turn subverted the general public's image regarding metal sheet houses which are usually dark and humid. Skylight Smoke Vent is mainly targeted at factories, it integrates the functions of smoke vents, maintain normal ventilation and could be linked with fire alarm systems, thus putting an end to the traditional natural smoke vents.

▼ Skylight Smoke Vent



Skylight Vent



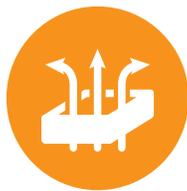
▶ Skylight Vent

Skylight Vent/Skylight Smoke Vent have modularized components and design that allows the product to be easily assembled, reducing the installation time. Moreover, it could be installed according to various roof types, providing options to install maintenance free "Skylight Vent" and "Skylight Smoke Vent" that could be linked to fire alarm systems. Additionally, the products have obtained numerous patents globally and the company received the 17th Business Startup Awards, which is recognized and well known within the related field.



Natural Sunlight

Bring in natural light, and reduce the amount of electricity bills



Good Ventilation

Improve the air flow and achieve natural ventilation



Anti-Condensation

Ventilation design for normal condition and break away from the frost troubles



Modularized Rapid Assembly

Modularized design and shorten the installation time



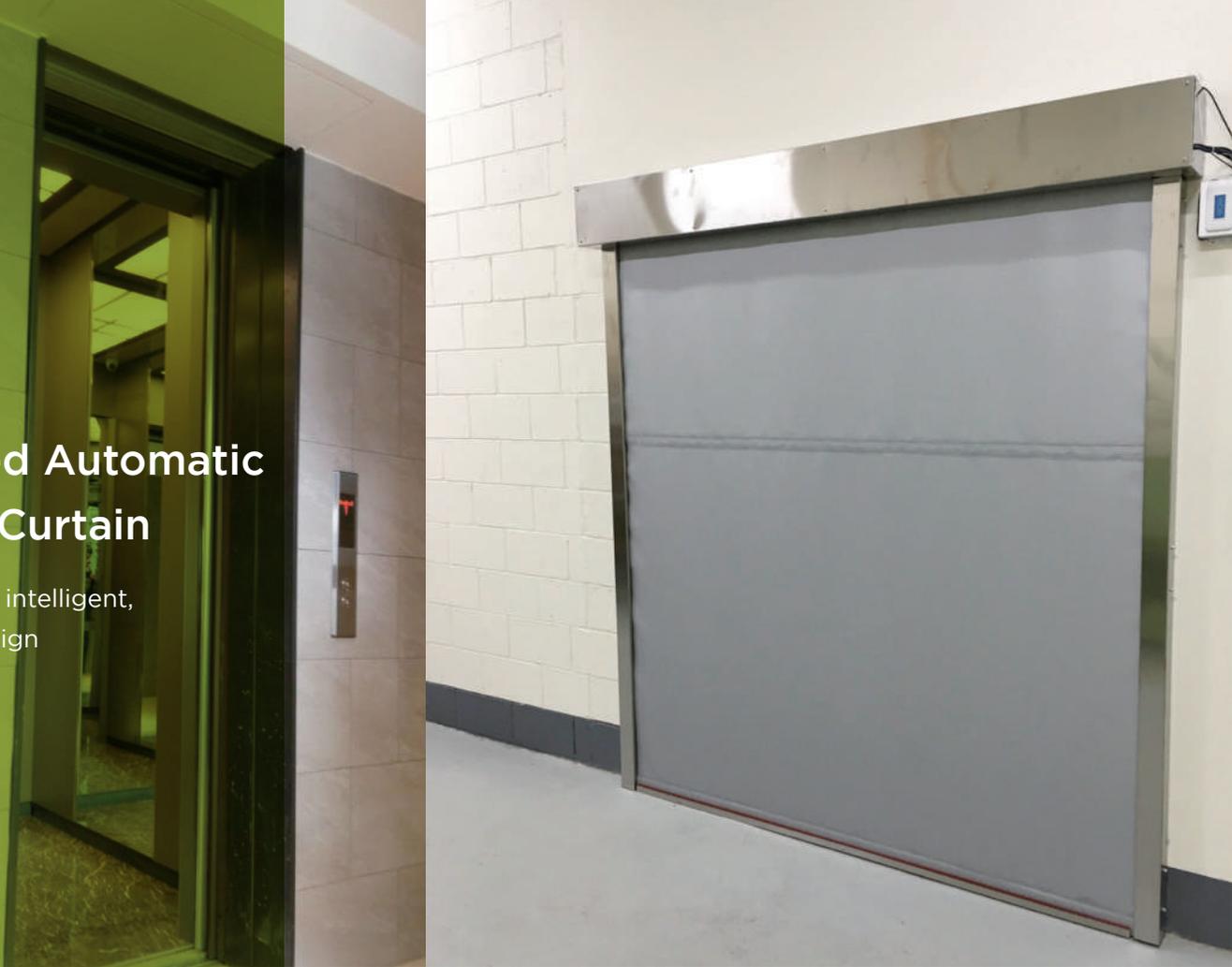
Patented Leak-proof Design

Overcome the imperfection of roofing sheet that water leakage happens easily



Patented Automatic Smoke Curtain

DC powered, intelligent,
patented design



長岡機電

NAGAOKA
MACHINERY
CO., LTD.



About Nagaoka Machinery

Nagaoka Machinery Co., Ltd. was established in July 2004, its main products include lift traction machine, component parts and industrial application products. The products have been supplied to well known elevator companies domestically and globally. The traction machine adopts a high efficient worm gear/shaft and helical gear design, which not only could lower the operating costs and fulfill the goal of energy saving and carbon reduction.

Nagaoka developed a fireproof rapid roller shutter in 2015 and upgraded the product, therefore the automatic smoke curtain was presented to the general public nowadays. The product break away the typecast impression that fireproof roller shutters could only be manufactured with iron, not only did it reduce more than half of the installation space used to be needed, but accomplish the goal of double protection, which satisfies the objectives of safety, aesthetics and durability.

Introduction Of Automatic Smoke Curtain

The automatic smoke curtain has a door rail clamp and motion door protection system, which is able to display function of blocking the smoke, when crisis occurs. This could also be used during electricity blackout. Furthermore, as this product was intelligently designed, therefore the automatic smoke curtains will be automatically lowered in order to extend time for onsite personnel to escape.

The automatic smoke curtain have fireproof and smoke control dual features. This could save 1/4 of the cost for establishing the fire prevention mechanisms and reduce 1/3 of the construction space. It is a good fireproof product that is able to enhance space aesthesis which is currently be applied to department stores, restaurants, factories, buildings...etc.



Product Features

The hose box and doorpost could be created by utilizing high quality 304 stainless steel or steel plates that were made for interior decoration. The box could be hidden within the ceiling, not only is it easy to construct, the exterior is simple yet elegant, therefore could be used in non fireproof areas. Old buildings is also able to apply for this kind of technology as well.



Simple Structure

Utilizing the imported high efficient fire resistant cloth, fireproof strip relevant mechanism for high efficient smoke control



DC Power

It is being put in use by DC motor, therefore it could be utilized by batteries even if there are electricity blackout.



Intelligent Design

It is linked with the fire alarm system, therefore the smoke curtains will be lowered when fire occurs.



Patented Design

Installation Notification

1. The maximum height and width of the automatic smoke curtain could reach up to 6x6(m)
2. The voltage of the power supply is single phase AC110V
3. The fire alarm receivers would need to provide dry contacts for signals



Pedot Smart Film

The thinnest, the most transparent,
the only smart film able to used
outdoors

力磐國際

FORCE
FOUNDATION
INTL.



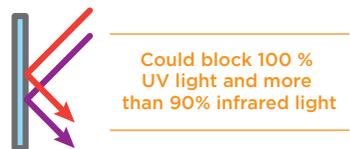
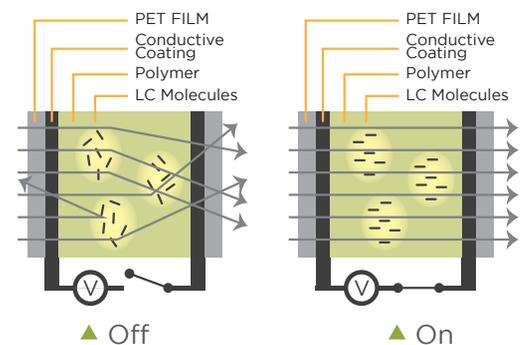
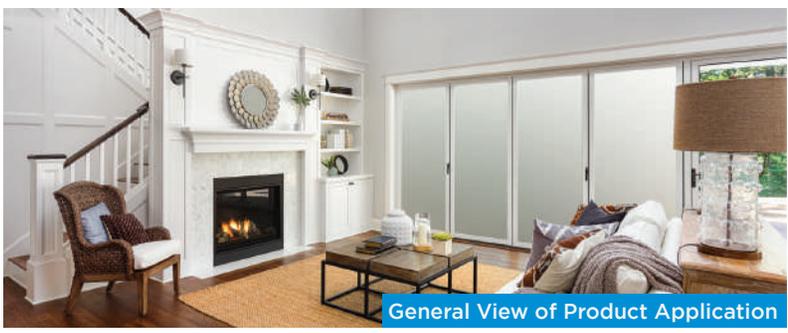
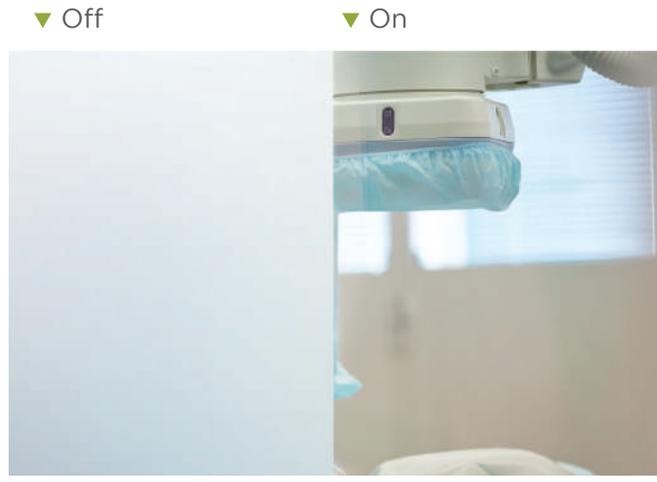
About Force Foundation

Force Foundation Intl. insist on promoting exceptional quality products to its clientele by holding integrity, professionalism, excellence and service as its business management principles. This in turn allows the company to developed into a transnational trading corporation across various different industries and develop diversified products.

The products are split into 2 categories, Smart Film light timing smart film and ferric chloride etching solution. Due to the direction of ongoing market trend, Smart Film light timing smart film have the most competitiveness from Force foundation's energy saving products.

Product Introduction

The new generation of Smart Film uses the exclusive patented PEDOT material, in which the conductive polymer could be commercially produced, yet the only raw material that is able to simultaneously maintain high transparency and low resistivity. In addition, it has strong weather resistance and the only smart film in the world is able to be used outdoors. Another unique feature is that it is able to effectively resist heat rays and has passed through numerous strict weathering tests during the manufacturing process. Unlike the smart films generally shown on the market, the Smart Film do not need to use a transformer, therefore it is quite stable in regards to quality, application aspects. Smart Film displays a foggy state when it is not charged with electricity, when alternating current, the internal liquid crystal molecules will appear in an orderly manner, at this time, the Smart Film will turn transparent from its original foggy state. Through the on and off switch on the alternating current makes it easy to quickly transform the state of the Smart Film from transparent to opaque.



Could block 100 % UV light and more than 90% infrared light

Smart Film develop exclusive technology patents that is able to surpass the limitations of the smart timing film regarding its material structure, providing a stability unseen before. Due to this, it is suitable to be used in surroundings with long term sun exposure and in environments with high heat and humidity. Additionally, Smart Film is able to block 100% of UV light and more than 90% of infrared light.



When the weather gets hot, it automatically becomes a scattered state, which is effective in shielding the sun and radiation up to 95% protecting its privacy successfully. When combine with light detect sensors, it could automatically adjust the indoor brightness using the sun, which can fulfill the needs of energy saving and environmental protection.

Malleability and Flexibility

Smart Film is the thinnest smart timing film, not only does it improves the overall transparency, simultaneously it also has malleability and flexibility. This overcomes the flaw that most ITO Smart Film faces, which is resistance continues to build after flexing, sometime up to the point where conductivity breaks. It is suitable for curved glass surfaces and able to twist itself around a 20mm radius stick for more than 1000 times. The flexibility greatly increases the application of the products in various sectors, such as outdoor billboards, architectural design, industrial products, public art installations, presale house, entertainment room...etc.



LOFANS Energy Saving Heat Insulation Brick / Moisture Adjustment Brick

Heat insulation, energy saving,
creating a cozy life



鉦翰陶瓷

ZHENG HAN
CERAMICS INC.



About Zheng Han Ceramics

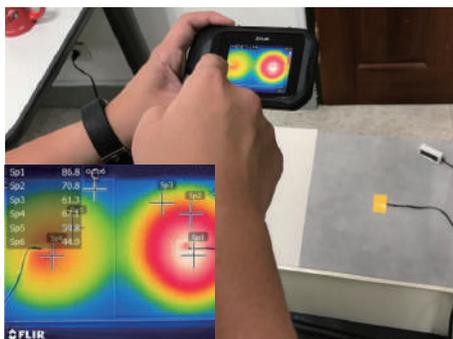
Since its establishment, Zheng Han Ceramics Inc. started getting involved in the traditional ceramic tile business and deeply committed to the research development of environmental green building materials and products, due to its emphasis on eco-friendly values, hoping to make a contribution to earth's ecology.

Reverse the use of traditional tiles, using natural insulation minerals to manufacture heat insulation and energy saving tiles, creating porous ceramics which have heat insulation, energy saving features that could deodorize and are quite durable. Not only could this product adapt the greenhouse effect, but also maintains aesthetic design, which break away from the traditional tile framework, generating unlimited value. Furthermore, the manufactured goods also pass through the standards of Taiwan Green Building Material Mark.

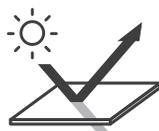
Energy Saving Heat Insulation Brick

Layering a protective cover for the house

Blocking heat during the summertime, improving the "thermal bridge / heat bridge" effect. Preserve heat during the wintertime, preventing the "thermal bridge / cold bridge" effect.

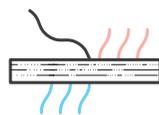


▲ By conducting actual experiment, heating LOFANS energy saving brick (Left) and normal generalized brick (Right) for 100 minutes, the temperature difference could be up to 15 degrees Celsius, which could effectively reduce the indoor temperature within the building.



Reflection

The product will not absorb too much heat when it is used under scorching sun.



Blocking effect

Tiny particles within the ceramics have the characteristics of numerous air gaps, which is effective in blocking energy from conducting a path.



Weather resistant (long term)

After undergoing high temperature sintering process, the product is resistant towards long term exposure to sunlight and rain.



Waterproof and stain proof

The surface is easy to clean and has characteristics of stain proof and weathering.



▲ There are various types and specification.

Moisture Adjustment Brick

Taking care of your family members

The moisture adjustment brick absorbs the moisture when the humidity is too high indoors. The moisture adjustment brick releases the moisture when the humidity is too low indoors.

▼ There are various types and specification.



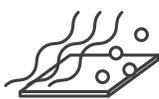
The function of adjusting the humidity

It has the function of storing and releasing water molecules to adjust the humidity of surroundings.



Keep away from harmful substances

Could absorb and reduce the harmful substance that are lingering around within the atmosphere.



Absorb unpleasant odor

Able to absorb unpleasant component of the odor, which could greatly eliminate the appalling odor of the living surroundings.



Simple maintenance

Vacuum cleaner could be used to suck the dust off the brick, which makes it easy to clean.

Sustainable Environment

Zheng Han Ceramics is able to maintain sustainable and eco-friendly friendly earth and create a carbon reduction and energy saving living environment with the energy saving heat insulation brick. The enterprise is committed to combat against global warming with practical actions, creating the first ever product able to reduce carbon within the tile industry sector, which leads to lowering the temperature for Taiwan, creating a low carbon lifestyle.



T70 Excellent
Window Film/
G50 Ultra Heat
Rejection Glass Film/
TC50 Green Building
Laminated Glass

Heat Rejection between
us and sun



東鏘工業

TOP COLOUR FILM LTD.



TOP COLOUR

About Top Colour Film

Top Colour Film Ltd. is established in 1985, and is the first pioneer to manufacture energy saving film in Taiwan. The production line of Top Colour have already fulfilled ISO9001: 2015 Quality standards. The enterprise not only introduce state of the art machines and equipment, but through the collaboration with industry, academic and research sector, it produces excellent quality high performance energy saving green building material glass film, top of the line insulation paper and energy saving laminated glass by applying globally unique manufacturing technologies. Top Colour's green building material glass film, which is sold across the global market, creates you energy saving, heat rejection and more safety.



Product Energy Saving Result

“TopCool T70 Excellent Window Film” is a multi-layer sputter film that adopts a dry vacuum plasma process which is a new world’s first development. The product won the 2017 National Innovation Awards and the 2018 Taipei AMPA Innovative Product Bronze Award. In addition, the building material insulation performance testing laboratory of National Cheng Kung University conducted a one-year full scale energy saving experimental house experiment to prove that by applying “TopCool T70 Excellent Window Film” or “TC50 Green Building Laminated Glass” on the building windows, which leads to the result of saving more than 20% of the air conditioning. If combined with raising up the temperature setting to maintain the indoor comfort, it could save more than 40% of the air conditioning. (According to the testing, the indoor temperature will lower to 26°C from 31°C, and the human body temperature will lower at least 5°C).

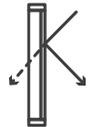


T70 Excellent Window Film

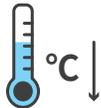
Fulfill Singapore SGBP Green Building Material Certificate Level 3 (current undergoing application)



Patent and technology: The world's first composite process coating technology, the production process fulfills green environmental requirement.



High visibility: The reflectivity of the visible light is low, with clear visibility, blocking the harmful UV rays.



Reflect the daylight heat, which would have quick and lasting effects, raise the efficiency of air conditioning and reducing the energy loss.



High C/P Value: High performance insulation paper, economical and C/P value is higher than other brands.

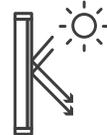
G50 Ultra Heat Rejection Glass Film



The world's first! There is no need to change windows, by only combining a single glass, it could be upgraded to high performance energy saving safety glass window.



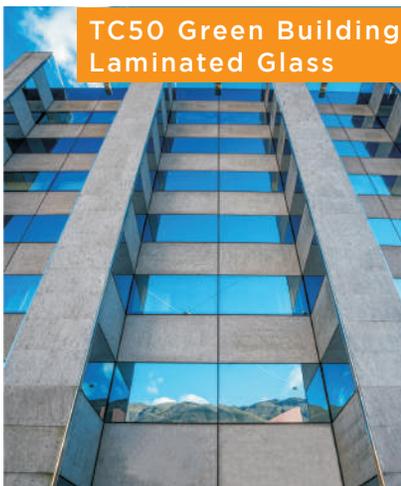
The efficiency of energy saving glass film is far better than multi-layer glass, as the shielding coefficient is only **0.31**, combine with low reflective technology inside and outside.



Reflect and block 98.83% of infrared rays and combat against sun exposure and block 99.9% harmful UV light.



Present natural color to protect eyes and blocks harmful blue light.



TC50 Green Building Laminated Glass

TC50 Green Building Laminated Glass

Fulfill the evaluating standards of high performance energy-saving class green building materials



SAFE

High safety building material



SC=0.32

Energy saving carbon reduction



No water absorption, anti-degumming, anti-yellowing



UV Block

Blocking the UV rays



Soundproof +



Raise the aesthetics of buildings



Anti-Sun Glare Signs (ASGS)

The world's only efficient
solution to completely solve
sun glare problems in traffic



新晟光電

SUNMADE INC.

About Sunmade

Sunmade Inc. is a company in Taiwan whose professional expertise is on the research development of solar system, solar energy LED signs and optical lens (Sunmade Dots). Among the products, the solar system and LED have been widely used on highways and expressways, which in turn place Sunmade as the largest supplier for solar LED traffic signs.

Currently the R&D team is focusing on "SUNMADE Dots", which is the optical lens that are able to shine without electricity. SUNMADE has successfully developed Anti-Sun Glare Signs (ASGS) and has applied the technology onto traffic signs to completely resolve sun glare problems. ASGS becomes the answer to solve sun glare difficulties in traffic.

 **SUNMADE**

Tel / +886-4-2375-7259

Fax / +886-4-2375-7275

Address / 2F., No. 10, Ln. 51, Huamei St., West Dist., Taichung City 403011

info@sunmade.com.tw

▶ Anti-Sun Glare Signs (ASGS)

It is not LED, nor is it solar energy

The luster of ASGS comes purely from sunlight and light itself. The technology turns the sun glare interference into an assisting force which lets the original sun glare to refract and penetrate the signs which not only lights up the traffic signs, but also allows the information on it to be seen clearly.



World's unique Sunmade Dots



The traditional signs become unclear when they encounter sun glare.

The signs are visibly lit when using the ASGS.

▶ Product Features

Expert on anti-sun glare, the missing piece to the solution of traffic safety

By adopting the anti-sun glare solution, ASGS allows drivers to have the ability to identify the roads ahead and to obtain information from the traffic signs when facing with sun glare challenges. This could effectively resolve the traffic accidents caused by sun glare and provide a safer driving environment for drivers, thus improve traffic safety.



▲ Anti-Sun Glare Delineators

With the advantage of small and light, SUNMADE Dots is available on materials that are commonly used on traffic signs. The installing process is just as easy as traditional signs.



**No electricity
No wire**

Borrow light to shine,
economic,
environment friendly



**0 lumens
depreciation,
no maintenance**

No missing dots like LEDs.



**Specification for
national highways**

Waterproof,
durable,
5 year warranty



**Sustainable
environmental
protection**

Sustainable energy saving
innovative material



Various specifications

Fully equipped for
indoor and outdoor use.



Heat Insulation
Paper / Insulation
Film / Insulation
Acrylic Resin /
Insulation Film (Glass) /
Flame Retardant
Foam

Out with old traditions, in with
new energy saving options

加美嘉華

KAMIKAWA
PHOTONICS
& MATERIALS
LIMITED



KAMIKAWA
PHOTONICS&MATERIALS

About Kamikawa Photonics & Materials

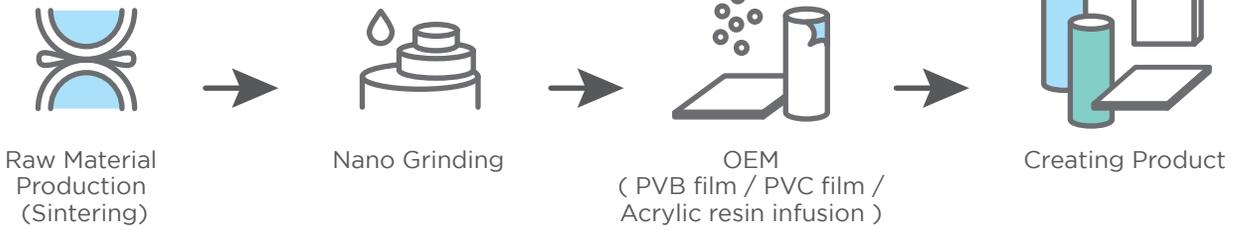
Kamikawa Photonics & Materials Limited is a production plant that is invested by Sungiant Chemicals Corp. that is dedicated to the development of heat insulation materials and wishes to contribute to the environment. With this in mind, Kamikawa applies the liquid slush with heat insulation features onto different materials, not only to increase economic value for the diverse products but also develop heat insulation paper/insulation film/insulation acrylic resin/insulation film (glass) that is able to have high transparency and block high infrared rays. This could reducing air-conditioning and provide well lit environment eco-friendly needs, achieving a win win situation for both economic and environmental sides.

Tel / +886-2-2268-7998

Address / No. 7, Chenggong St., Tucheng Dist., New Taipei City 236043

service@kamikawa.com.tw

Product Technology



Product Introduction

Ruishi Heat insulation paper	Ruishi Insulation film	Mingmei Insulation film (glass)	Mingmei Insulation acrylic resin	Mingmei Flame retardant foam
<p>Applied not applied</p>	<p>*Have various style</p>	<p>*Various color to choose from</p>		
<p>It uses precision coating to apply nano heat insulation coating onto the heat insulation paper, which is able to block infrared and ultraviolet rays, have high heat insulation yet still maintains high light transparency. Furthermore, it does not interfere with electronic equipment signals (ETC GPS). From raw materials to production to finished goods, the whole process is made in Taiwan (MIT).</p>	<p>The nano heat insulation is mixed into the PVC particles and the nano heat insulation liquid slush could block the heat insulation and maintain the light transparency by absorbing the infrared light (800-2000nm). In addition, as it uses atmospheric pressure and electrostatic fundamental principles to stick onto glass, it allows it to be DIY in homes, which is convenient to use and able to be pasted multiple times. Moreover, it not only have high resilience to heat but retains high light transparency, but also a non-reflective material that will not cause reflection or glare phenomenon, allowing it suitable to home use.</p>	<p>Heat insulation laminated glass means that there is a layer of nano heat insulation film in between 2 sheets of glass. It has a better heat insulation effect than just multi-layer glass, and able to help lower the temperature indoors, reduce air conditioning and lighting expenses, therefore achieve the main goal of energy saving, carbon reduction and cutting down on expenses.</p>	<p>Heat insulation acrylic resin that is added with nano insulation liquid slush which absorbs the infrared light (800-2000nm) is able to achieve the effect of insulating the heat source. This allows it to lower the indoor temperature in the summer and raise it up in the winter, reducing air conditioner. In addition, it has high transparency, high heat insulation, good performance in processing, great weather resistance and chemical resilient features. Furthermore, when comparing with glass, it is only half its weight, is resistant 7-18 times more when facing fragmentation and can endure 10 times more impact. Therefore, it could be widely used in building materials, lighting, product display, industrial use, transportation...etc.</p>	<p>Using the original foam material as its basis, the product is being upgraded to achieve the features of high durance, fireproof and soundproof. This could replace the traditional partition walls, the exterior building stone walls, fireproof doors...etc.</p>

*Various data regarding the product is provided, for details please go to the official www.kamikawa.com.tw

Product Features



Break away from the traditional concept of "the darker it is the colder it gets, the brighter it is the hotter it gets"



Lowers the consumption and reduce the burden of indoor air-conditioning



It blocks the ultraviolet light and heat from the sun rays, letting only the needed sunlight indoors.



Nano-tech heat insulation technology, energy saving, UV resistant, high light transparency



Prevent direct exposure to UV light that will cause furniture to age quickly



Using atmospheric pressure and electrostatic fundamental principles, it is easy to stick onto any smooth and flat surfaces instead of using adhesive tape.



Design Planning Of Renewable Energy Power and Micro Grid System

The best solution when used
along with sunlight, and create
mutual benefit

節能屋能源

ECOLOHAS ENERGY
TECHNOLOGY
CO., LTD.



Tel / +886-7-215-4567
Fax / +886-7-215-6999
Address / 7F-6, No. 211, ZhongZheng 4th Rd.,
Quianjin Dist., Kaohsiung City 801647
kevin@ecolohas.com.tw

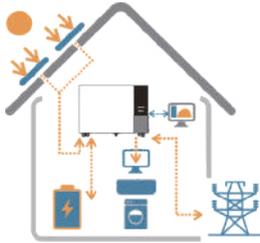
About Ecolohas Energy Technology

Ecolohas Energy Technology Co., Ltd was established in 1998, focuses on integration of renewable energy system and power storage system and owns a strong energy communication and power configuration technology team. Recently, they place emphasis on the research development of solar energy system and power storage system. By investing heavily on the design, planning and installation of these system, they are proactively integrating, coordinating and managing the products in order to build an array of energy network and decentralized energy and smart microgrids that fulfills the needs of the community. This could raise the efficiency of generating power from the renewable energy as well as its consumption, thereby minimizing and lowering the problem of excess carbon emissions, which would lead to the creation of a green sustainable, environmental friendly, and energy saving world.



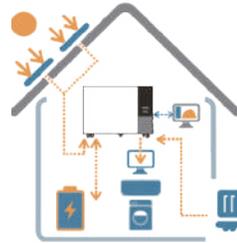
Smart Energy Storage System

The smart renewable energy storage system is a product that is specially developed for indoor and outdoor electricity use. The product is strong, durable, waterproof and dustproof. Furthermore, it has remote monitoring features that is able to monitor the solar energy power generating status, the battery storage status through the internet anywhere anytime. The cost for maintenance is quite low, and all the components are made in Taiwan, therefore it is the best mobile energy storage system that could be used indoors and outdoors.



Hybrid energy storage system

- Able to provide electrical load from sunlight or electric grid
- Able to store solar photovoltaic into the batteries or onto the electrical grid
- Become the emergency backup power during power outage

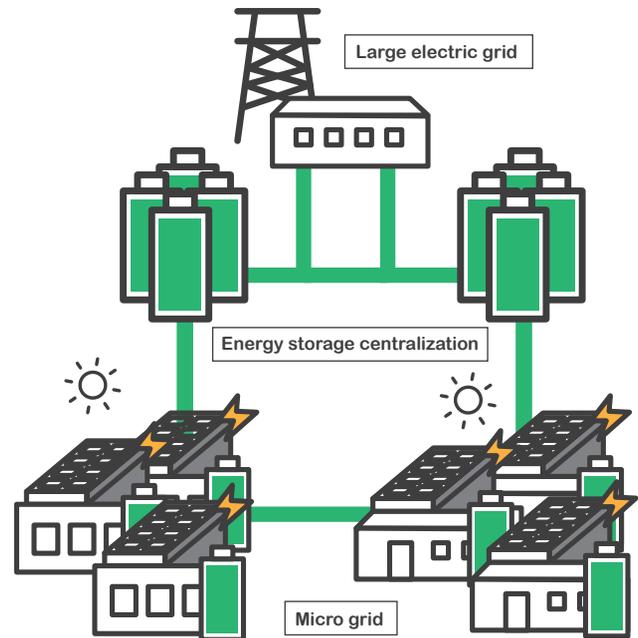


Off grid type energy storage system

- Able to provide electrical load from sunlight or full cell
- Able to store solar photovoltaic into the batteries
- The fuel cell is used as a backup power

Smart Microgrid System

The home based smart microgrid system integrates renewable energy system, energy storage system, solar energy power converter, 2 way charging and discharge battery device and smart energy management system (SEMS). By utilizing SEMS, and combine the solar energy power generator system and the energy storage components, it is able to achieve the goal of maximizing the usage of solar energy. The product could also provide electricity for household appliances and equipment, such as electric lights, computers, air conditioners, refrigerators...etc. After years of testing, the system have been verified in island areas and disaster zones within Taiwan. By combining distributed energy storage facilities and centralized energy storage control, it could truly achieve the goal of smart microgrid, in which the utility power substitution rate can reach 80%.



Solar energy + Small energy storage

▲ Operating the smart grid and micro grid integration system



Innovative technology

Solar energy is a ready to be used energy



Low malfunction rate

Exquisite intelligence control



Double support

Automatic adjustment of solar energy and city power



Convenient installation

Small sized quick coupling



Great efficiency

Control the maximum power point tracking (MPPT)



Mom-N-Baby RO Dispenser / CFK4 Purifier

Comprehensive solution for
water purification



凡事康流體科技

FLUXTEK
INTERNATIONAL
CORP.



About Fluxtek International

The core of Fluxtek International Corp. product development is to develop more efficient water purifiers, and expand research on relevant materials and components. For example, the research development concept of household model for direct output comes from the improvement of shortcomings of traditional water purifiers. Additionally, the product is designed to be energy saving and new models are promoted to fulfill the new market needs. The core technology of Fluxtek is the constant technology innovation related to filter materials, product structure, aesthetics and operational efficiency in order to satisfy the customers demand.

Based on stable and pragmatic management concept, Fluxtek holds the ultimate aim of "Having everyone receive safe and healthy drinking water". The company sees the earth's sustainable development and its surroundings as the main principle and therefore strive that these goods are able to fulfill the concept of energy economy and green development.

In addition to import high quality raw materials abroad, Fluxtek collaborates with local coconut farmers, and integrate the resources, and establish a coconut food and carbonization factory. Through activate the carbonization process, high quality activated carbon is manufactured, furthermore the heat created during the carbonization process is utilized on the coconut processing factory. In addition, Fluxtek's recycling facility in Kaohsiung could effectively reuse the resources, for example, once the recycled household activated carbon filters are reactivated, it could be put into rivers or waste incinerators to absorb dioxin and other toxic substance. Fluxtek hopes to enhance the value of locally grown products, eco-friendly towards the resident land and create new economic benefits through the growth of its brand. Furthermore, it seeks to create a low pollution, green circular economy chain that could effectively use the resources and give back to the society and the land.



Local agricultural resources



Filters are recycled for reactivation and reuse



High efficient products

Mom-N-Baby RO Dispenser



Size: H42.4 x W21.9 x D49.5 (cm)

Keep babies safe and cherished

- Sterilization in one touch.
- Guardian for safe and healthy drinking water.
- Luminescence design for easy positioning at night.
- No installation needed, suitable for any place at home.
- Quick and simple filter change.
- Multiple temperature design, convenient for baby formula or any drinks.

Filter components - Polypropylene (PP) filter



Carbon block filter (CTO)



Reverse-osmosis (RO) membrane

CFK4 Purifier

Patented revolving filter design that is easy for replacement

- Patented rotatable filter design, easy to change and may prevent water hammer.
- Block water flow during filter replace by built-in automatic shut-off.
- Lifiable filter cartridge, convenient for filter replacement.

Filter components - Polypropylene (PP) filter



Granular activated carbon (GAC)



Carbon block filter (CTO)



Ultrafiltration membrane



Size: H37 x W9 x D37 (cm)



Golden Armor SJ-39 Inorganic Waterproof Protection Repellent / Golden Armor SJ-107 Insulation Paint

The expert of environmental
friendly waterproof coating
material



無機善護宅

WU JI
SHAN HU ZHAI
INC.



About Wu Ji Shan Hu Zhai

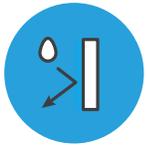
Wu Ji Shan Hu Zhai Inc. has been committed to the development of “inorganic nano technology” on the application of coating material. Testing have been done to develop features such as waterproof, film coating, anti-rust, cement concrete reinforced curing, anti - chlorine ion and anti-cracking, so that the product is able to achieve long lasting waterproof, acid-resistant and weather resistant effects.

Wu Ji Shan Hu Zhai emphasizes that the use of non-destructive construction methods is able to provide stronger waterproof performances than just simple “destroy and rebuild” methodology. Wu Ji Shan Hu Zhai owns the core professional techniques and is one of the few that could guarantee a waterproof warranty for more than 5 years’ time. They are experts and considered as model enterprises within the field that focus on water leakage and wall mold.

With more than 20 years of experience, the self owned brand Golden Armor nano inorganic coating agent have reached the same level with other well known brands.

Golden Armor SJ-39 Inorganic Waterproof Protection Repellent

This product is an alcohol soluble nano inorganic material with effective long-lasting waterproof, non-yellowing, anti fouling, damp proof, anti corrosion, able to withstand positive and negative hydraulic pressure, acid and alkali resistant, weather resistant, salt spray resistant, pollution resistant, able to endure high and low temperature, scratch resistant, increase its solidity and anti UV ...etc. At the same time it has a great IPN (Internet Penetration Network) film on the surface which repairs effectively slight crack, and a permanent mineral crystalline waterproofing layer inside the concrete. It's a non-destructive waterproofing method and the best waterproof repellent ever seen.



Nondestructive waterproof material



Anti dirt and damp proof



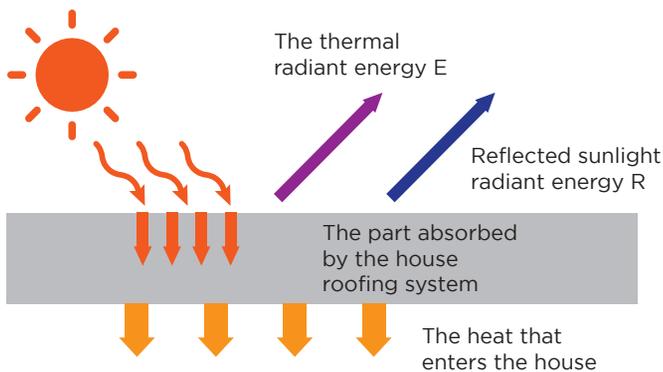
Non yellowing



Weather resistant

It is often used on nondestructive waterproof and protection construction work such as tile, hang tiles, pebble stones, washed stones, building stone, stone paint, stone imitation pain, heat insulation paint, façade, and flat surface of exterior walls...etc.

Golden Armor SJ-107 Insulation Paint



SJ-107 Insulation Paint is made of acrylic resin and hollow insulating powder that have quite low heat conductivity. This allows the product to have a high sunlight reflection rate, yet maintain waterproof, leakproof, heat insulation simultaneously. It could effectively disperse the thermal radiation into the surrounding atmosphere by not storing the heat, efficiently raising lifetime usage of the roof.

Additionally, it could lower the island heat effect and reduce the usage rate of the indoor air conditioners, thereby achieving the goal of carbon reduction and energy saving.

* Meets the Cold Roof Coating of US and World Standards.

Effectively reflect sunlight : SRI 107

Tested and Certified by Research Center for Energy Technology and Strategy, National Cheng Kung University

The coating is easy to operate, and can use spraying equipment in large scale construction site to speed up construction progress and reduce labor cost. Suitable for new or old buildings: roof floor, exterior wall. With special base agent, it can be attached to any material. Use with SJ-39 as surface protection layer can achieve anti-fouling, anti-UV, non yellowing, non shelling, self-cleaning, acid and alkali resistance, wear resistance, and etc..



Faux Stone Coating ADDSTONE

Creating the most realistic
stone like texture



亞伯丁

ABERDEEN
DECORATION
CO., LTD.

About Aberdeen Decoration

The origin of the company name came from Aberdeen, the Granite City of Scotland, also known as Silver City. Not only is the name beautiful, it also represent the direction of the company's development.

Faux Stone Coating ADDSTONE comes from years of granite paint production technology. Not only does it integrate the market demands of the building industry, it also developed environmental friendly water based, high degree of imitation, easy process and weather resistant stone like texture coating system. Aberdeen Decoration Co., Ltd. simultaneously developed professional stone like texture paint spraying technology and provide various composite materials for consumers to completely achieve their imagination towards granite stone.

Aberdeen will inherit the spirit of the granite stone which are perseverance and gentleness. With environmental friendly, high degree of imitation, easy to operate as the indicators for research development, Aberdeen will continue to develop various granite surfaces and or colors to achieve your imagination towards granite stone.



Tel / +886-7-721-6037

Address / No.81, Sanshang St., Fengshan Dist., Kaohsiung City 830047

add@aberdeco.com

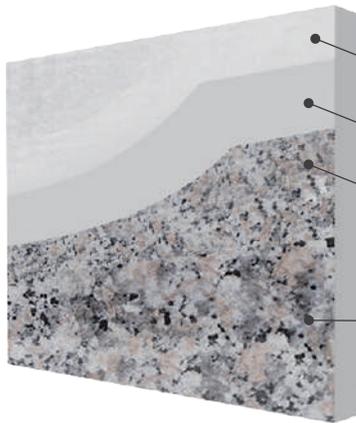
About Faux Stone Coating ADDSTONE

Faux Stone Coating ADDSTONE is a composite material high stone like texture coating system, complete water based eco-friendly building material that could be cover on the various surface materials such as GRC, tile, brick wall, cement, Styrofoam, metal plastic, wood and calcium silicate boards. It could realistically present stone like texture and quality that could be applied onto various flat and curved surfaces of outer wall decorations, interior wall, ceiling, gardens and products, fulfilling the market demand.



General View of Product Application

Coating Process System



Primer	✓	✓	✓	✓
Elastic Coating	✓	✓	✓	✓
Main Material			✓	✓
Sealer	✓	✓	✓	✓



Environmentally water based



High degree of imitation



Dirt proof and easy to clean



Good weather resistant



Do not contain toxic material



General View of Product Application



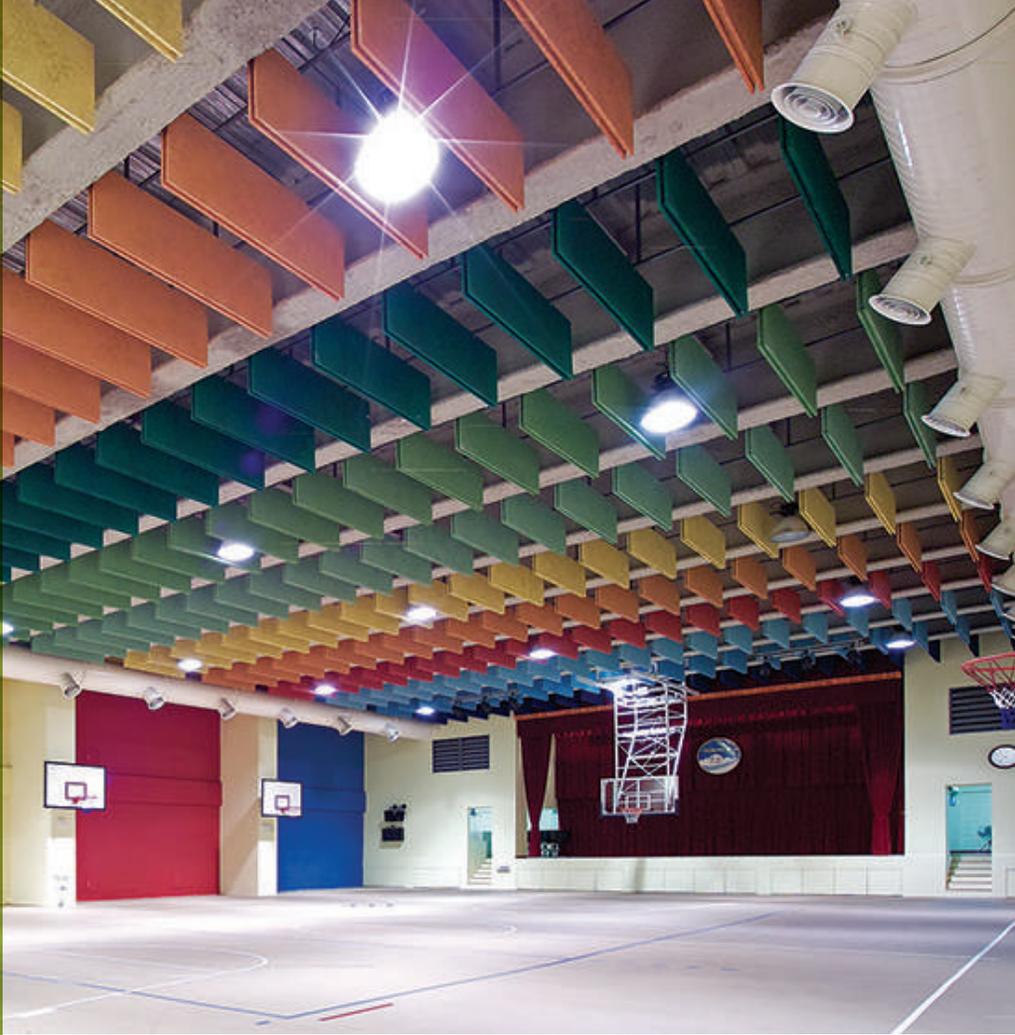
One Stop Service

Quick and professional high quality services, from quotation to shipping. Aberdeen Decoration also provide tutoring services, and secondary processing services...etc.



Diacrete Wood Wool Cement Board

Eco Design All in One



朋柏實業

POMPLUS CORP. LTD.
DIACRETE WWCB GROUP



About Pomplus

Pomplus Corp. Ltd. Diacrete WWCB Group - The first manufacturer of wood wool cement board in Taiwan with more than 50 years of experience in the manufacturing and developing the system of wood wool cement board.

Since 1964, Diacrete WWCB Group manufacturing facilities is accredited with ISO 9001 and ISO 14001 certifications and has obtained Green Building Label and Green Product Certification in both Taiwan and Singapore. Diacrete WWCB Group produces environmental friendly building material with natural wood fibers combined with inorganic cement minerals in the production process integrating innovative ideas in the concept of "Less is More". Choose a long lasting natural raw material where production is in Taiwan's excellent climate condition with bright sunlight and strong wind. A friendly ambience achieving a well balance between man-made architecture and natural environment. Factory production is located in Pingtung County, Taiwan ; headquarters based in Taipei, Taiwan, and Southeast Asia sales office is in Singapore.

Tel / +886-2-2704-7217
Fax / +886-2-2704-6196
Address / 3F, No. 100, Sec. 2,
Dunhua S. Rd., Da'an Dist., Taipei City 106103
www.pomplus.com.tw



TAIWAN
GREEN LABEL



SINGAPORE
GREEN BUILDING
PRODUCT
SGBC
LEADER



SINGAPORE
GREEN BUILDING
PRODUCT
SGBC
EXCELLENT



SINGAPORE
GREEN LABEL



SINGAPORE
COC LISTING

Product Introduction



General View of Product Application

A series of eco green building materials originated in Taiwan that has notable acoustic solutions and aesthetic designs to many applications that is made up of the 2 main important ancient materials - wood log and cement.

The wood log is from replanted wood in the perennial plantation forest and is shredded into long wood wool fibers where cement is the only adhesive substance that binds with the long wood wool fibers forming high density strength of the board transforming into a sturdy, durable board that has many key advantages.

It creates a sense of warmth, calm and safe to use for interior ambience, even in outdoor coastal or complex climate environment .

65% wood wool



35% cement

Product Features



Fire resistance



Heat insulation



Sound absorption



Humidity balance

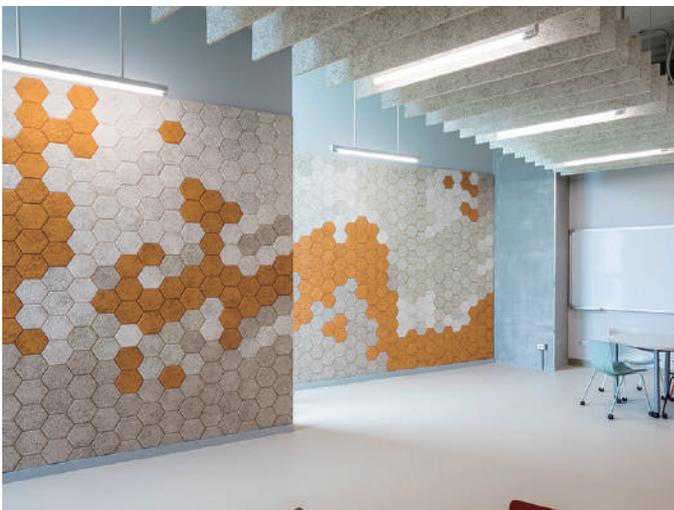


Anti-termite



Anti-mold

Product Application



General View of Product Application

Diacrete wood wool cement board have been welcome by the building industry continuously for more than 50 years. The product have been widely used abroad on the exterior, interior and roof heat insulation of buildings, moreover the applications used for spaces designed for acoustic field are effective in resolving the problems of echoing and noise. Furthermore, it is also recognized by the building industry as an energy-saving building green material.



Thermal Insulation & Resistance



Sound Insulation & Absorption



Damp Insulation & Humidity Control





The Original MIT Taiwan Sugarcane Fiber Straw

Let us buy back yesterday's earth



台灣先盟

TAIWAN PLANTS
FIBER TECH
ALLIANCE CO., LTD.

About Taiwan Plants Fiber Tech Alliance (PFTA)

Taiwan Plants Fiber Tech Alliance Co., Ltd. (PFTA) is a group of research team that focus on the application of natural plant fiber, mainly regarding on various properties of its natural fiber material. After years of research, zero plastic green material was developed that could replace 60% of traditional product application made from petrochemical thermoplastic materials and thermoset materials. PFTA's goal is to provide more eco-friendly zero plastic green materials. With this in mind, the company has numerous biomass conversion technologies that takes on various plant fibers for high quality applications. The production process does not contain toxic substance emission and does not use any chemicals or involve in environmental destructive methodology. The company will continue to work with private sectors, government and academia, in order to promote Taiwan's high quality biomass technology globally, so the world is able to see Taiwan's soft power and its efforts towards the environment.



Green Materials and Products

PFP-No.02 Plant fiber polymerization material - other plants fiber

SugarCane Fiber Straw (SCFS) # Extrusion process thermoplastic material

Sugarcane straw raw material particles

- Cold resistant -20°C / heat resistant 75°C, able to extract plant fiber composite thermoplastic material
- Constituent: Natural organic sugarcane fiber + plant based biomass pure material



Fully decomposed within 6 months under a compost environment
Fully decomposed within 3 months under a compost kitchen waste environment



Fully combustible, non-toxic, and does not leave behind any industrial slag.

Application extended products



Sugarcane fiber toothbrush



Sugarcane fiber knife, fork, spoon



Sugarcane fiber blister stone patterned plate



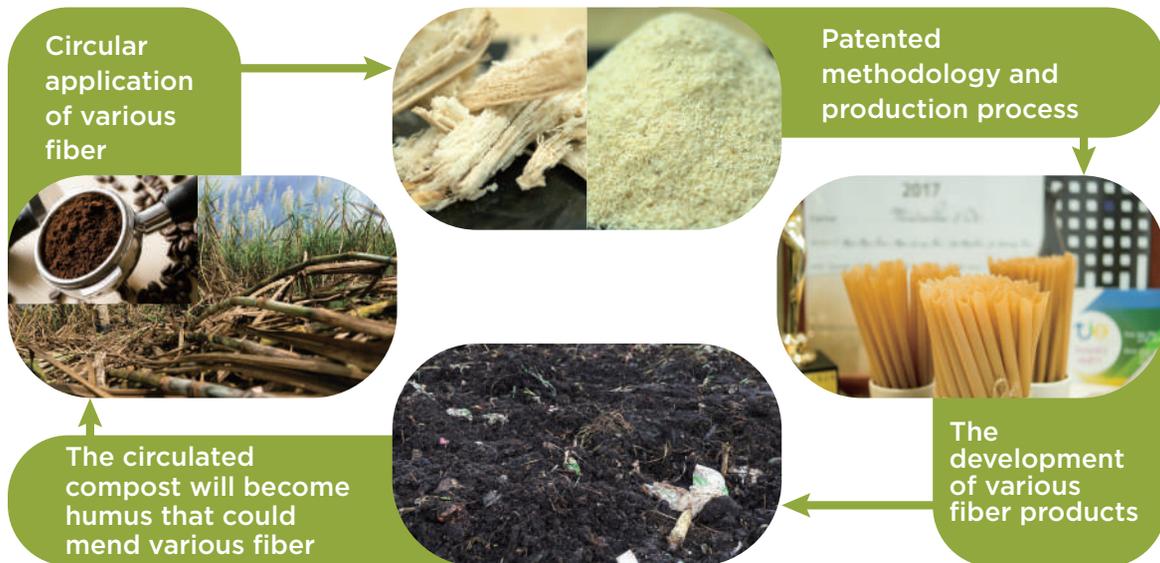
Sugarcane fiber blister cup, sauce cup

↑ PFP-No.03 Injected material

↑ PFP-No.04 Vacuum blister material

The Circular Application of Agricultural Materials

The natural materials that could be used are able to replace traditional Petrochemical plastics through the patented production process in a “circular application cycle”



PFTA hopes to start from circular agriculture and heads towards circular economy + block chain + integration of shared economy, ultimately aiming for a new comprehensive value.



Dresden Glass / Dresden
Sheet / Cero Wood /
Indoor / Outdoor Mineral
Wall & Quick Assembly
Floor / Wall System /
Heat Insulation
Coating Material

Heartwarming Temperature,
wondrous light



佳東綠能

ORIENTAL GREEN
ENERGY TECHNOLOGY
INC.

About Oriental Green Energy Technology

Oriental Green Energy Technology Inc. is a subsidiary company of Nam Liong Group, with 40 years of material professional research. The company follows the core value of the Nam Liong Group, "Respect life, love and protect the environment". The goal is to achieve carbon reduction, energy saving and lowering the use of natural resources by research and promote green environmental building materials and recycled goods as the main direction. Additionally, the enterprise seeks to implement the 6 principle demands which are "environmental protection, health, safety, energy saving, soundproof and comfort". The brand and products of Oriental Green Energy Technology include "Dresden Glass - Heat Insulation Energy Saving PVB Film", "Heat Insulation Coating Material", "Dresden Sheet", "Cero Wood", "Indoor / Outdoor Mineral Wall & Quick Assembly Floor/Wall System", Oriental Green Energy Technology hope to insist on green circular economy and develop more "green miracles".



真愛
TRUE LOVE

佳東綠能科技



DRESDEN GLASS
綠晶玻璃
Daily green living



森檜木
CERO WOOD



DRESDEN SHEET
晴能板
Daily green living

Tel / +886-4-2236-0100

Fax / +886-4-2236-1183

Address / Rm.5, 12F., No. 238, Jinhua N. Rd., North Dist., Taichung City 404508

oriental-dg@namliong-group.com

Dresden Glass / Dresden Sheet / Cero Wood / Indoor / Outdoor Mineral Wall & Quick Assembly Floor / Wall System / Heat Insulation Coating Material



Dresden Glass

Utilizing nano heat insulation technology and technique to block the solar radiation especially heat from near infrared rays away from glass, this not only block the heat yet ensure that there is light, lowering the power consumption of the air conditioner, leading to a better and more comfortable home environment.

*This Dresden glass technology have obtain the Taiwan high performance energy saving glass green building material mark (certificate number GBM0100695)



Great light transparency



Blocks 97% of the thermal radiation



General View of Product Application

Dresden Sheet



General View of Product Application

By combing and utilizing the heat insulation nano technology and the acrylic manufacturing techniques, Dresden Sheet perfectly shields the solar radiation, increase the natural lighting transparency, and reduce the heat from entering. Dresden sheet light transparency, high heat insulation, lightweight, stretch resistant and shock proof features, while the surface could also obtain other functionalities, such as dirt proof and durability.



Lightweight



High transparency



Shockproof

Cero Wood

Better material than natural wood, made from 100% recyclable plastic, do not contain wood cellulose, reducing the earth's burden. The product simultaneously is 100% reusable, acid and alkali resistant, formaldehyde free, anti UV, and have excellent insulation and water resistant.



100% recyclable material



Could be used as an adhesive, painted or engraved...etc.



General View of Product Application

Indoor/Outdoor Mineral Wall & Quick Assembly Floor/Wall System



General View of Product Application

This product could be used in the application of floor and wall panel decorations. There is a safety buckle lock design that provides rapid assembly which could effectively reduce labor hours. It is a great decorative material for design matching, as it not only have various colors, with life-imitating design, but it also contains waterproof, damp proof, anti bacterial, dirt free features.

Heat Insulation Coating Material

This product is a nano sized porous and 3D dimensional web structured material, which is solvent free, air accounts for more than 80% of the volume, with extremely low density, therefore it is the lightest solid object in the world. It has characteristics such as low heat conductivity, good waterproof features, great adherence, weather resistant, chemical resistant, and wear resistant with high elasticity.



General View of Product Application



AH Lightweight Insulation Block

Professional recycling
of discarded glass

春池玻璃

SPRING POOL
GLASS INDUSTRIAL
CO., LTD.



About Spring Pool Glass

Spring Pool Glass Industrial Co., Ltd. is the largest recycling corporation of discarded glass and committed to raising the value of resource recycling. Currently, the enterprise span across multiple fields, such as industrial raw material, technological building materials and cultural arts sector, and manage tourism factory. Spring Pool Glass recycles and processes more than 100,000 tons of discarded glass each year and adheres to the corporate concept of "Sustainable Management, Green Innovation". Furthermore, the enterprise reserves the belief of "Deepening its roots in Taiwan and expanding its production worldwide", therefore receives "Golden Root Award" of Taiwan in 2015. President Tsai Ing-Wen personally visited the Spring Pool Glass tourism factory in September of 2016, and gave high praise to the enterprise, marking Spring Pool Glass as a model enterprise of Taiwan's "Circular Economy".

Glass Recycling

Brightly Colored Glass

Spring Pool Glass have been recycling various discarded glass for numerous years, with an annual volume of 100,000 tons. Spring Pool Glass relies on its years of experience to transport discarded glass into the factory and undergoes manual classification, color separation process and removal of impurities. Various diverse products is finally developed and produced after enduring mechanical grinding and glass kiln melting manufacturing processes. Spring Pool Glass is considered one of the best in the world within the field of building construction or exquisite glass crafts.



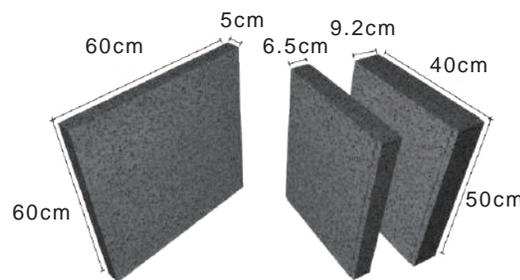
Product Introduction

AH Lightweight Insulation Block



安新輕質節能磚
AH Lightweight Insulation Block

The glass sand recovered by Spring Pool Glass from panels, contains aluminum oxide and silica. The alumina crystal is the main component for rare gems such as ruby and sapphire and has a solid structure. Silica has a low expansion coefficient, and as it is not sensitive to temperature, thus have a very low thermal conductivity, allowing it an exceptional component for thermal insulation. AH Lightweight Insulation Block is created by mixing glass sands from panels with cement and then micronized into foam at room temperature, forming a honeycomb structure which is then applied onto building materials, sound insulation supplies, and fireproof provisions. The product has 6 major characteristics, which are fireproof, sound insulation, heat insulation, environmental protection, non-toxic and shock absorption, enhancing the quality of construction and family life to a whole another level.



 120min	 ±12°C	 15kg/m ³	 40dB		
Fire Protection	Heat Insulation	Light Weight	Sound Insulation	Environmental Protection and Non-Toxic	Easy Application



Natural Wood Veneer

Co-exist with nature,
making green building
materials simpler

茂森木業

EVER GREEN
TIMBER CO., LTD.



About Ever Green Timber

Ever Green Timber Co., Ltd. was founded in 1965, and has been deeply involved in wood decorative materials in Taiwan for more than 50 years. The enterprise purchases wood from green resources that is FSC certified. After undergoing processing procedures, wood decorative materials are then supplied to domestic and foreign markets. Ever Green Timber also cooperated with government laws and regulations and fulfilled international environmental standards. From the early production of wood boards which contains formaldehyde, to providing low formaldehyde and non-formaldehyde plywood and first grade fire resistant boards, Ever Green Timber continues to protect family safety by enhancing safeguards. Facing the future, Ever Green Timber will not only introduce the ISO quality management system, but also supply high quality environmentally friendly wood decorative materials to the domestic and foreign markets with an innovative notion.

Product Introduction

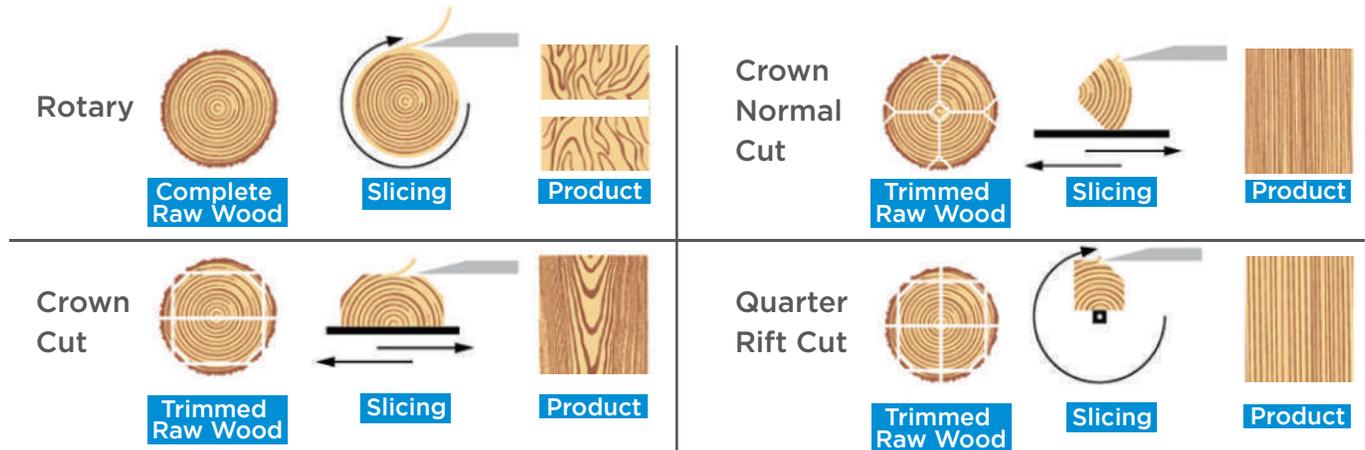
Since the establishment of Ever Green Timber, their products are mainly natural wood veneers from environmental wood material. Till now, Ever Green Timber have developed new water dyed veneer and special veneer. As the color and texture of the veneer is naturally formed, therefore it would be quite unique visually as decoration.



Professional Technique

Slicing Technique

Ever Green Timber uses environmentally friendly and sustainable wood material and applies various slicing techniques to fulfill the diverse decorative pattern needs of clientele worldwide



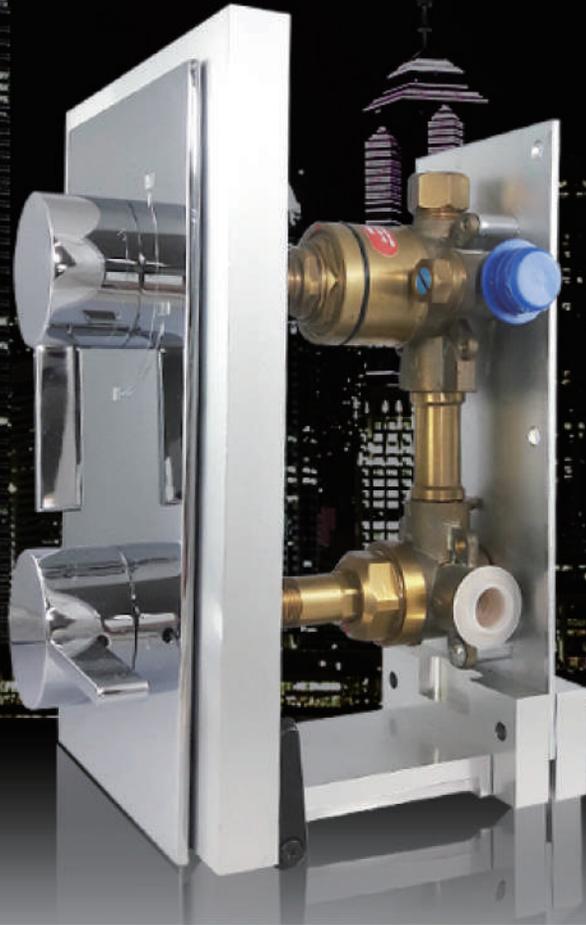
Jointing Technique

The designated environmentally friendly wood veneer is laminated on specialized lining paper, and wood veneer is integrated into a sheet after undergoing the hot-press process.



Thermostatic Mixing Valve / 2-Handle Pressure Balancing Valve with 2 Way Diverter

The constant temperature of bathroom water supply makes water usage efficient and resource-saving.



鉅門企業

SEAMAN
ENTERPRISE
CO., LTD.



About Seaman Enterprise

Seaman Enterprise Co., Ltd. was established in 1978, and is a bathroom fixtures precision manufacturer with deep technological and development capabilities. The company owns 5 core control technologies, which are water volume, water pressure balance, water diverter, water temperature and water metering control; and by combining a complete production line and strict product inspection system, it provides OEM and ODM products for global marketing. Seaman Enterprise is committed to the field of green building materials, Thermostatic Mixing Valve & Pressure Balancing Valve produced by the company could stabilize the water temperature thus reducing waste of water resources. Seaman Enterprise will continue to improve mechanical equipment, raise testing and production standards, using its professional domestic experiences to respond to the constant changing demands of the international market.

Product Introduction

Thermostatic Mixing Valve, which could stabilize the supply of hot water by controlling the water heater, reduces the frequency of temperature adjustments and thus avoid the waste of water resources. In regards of temperature control, there is a protection mechanism preventing user from scalding burns when cold water fails to supply. The function not only guarantees safety but also save energy and reduce carbon.

Thermostatic Mixing Valve

Could be applied in various types of water storage containers, water heaters and infrared sensor faucets. The product could control the optimal temperature by itself, and ensure that the mixed water could be distributed throughout the whole water supply system.



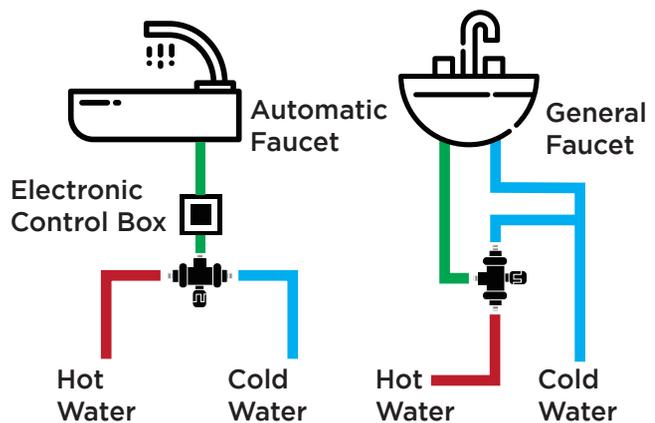
Temperature Stabilized



Resource-Saving



Installation Diagram



2-Handle Pressure Balancing Valve with 2 Way Diverter

Pressure Balancing Valve is suitable for showering equipment in high water pressure buildings, that would automatically balance the pressure of water supply and stabilize the temperature that is needed within the target range. This design could greatly reduce the frequency of manual temperature adjustments, so that clientele does not waste water resources, thereby achieving energy saving and environmental protection.

The products are suitable for shower installation, which contains (pressured) Thermostatic Mixing Valve, that could quickly adjusted to suitable showering temperature by turning the shower handle.

2-Handle Pressure Balancing Valve with 2 Way Diverter



Stability of water pressure

As the product is made from strong and durable forged brass, it could withstand high water pressure and stabilized the water temperature.



Freely choose the temperature

Multi-function trim for temperature and diverter provides temperature control, ensuring that the temperature remains constant.



Hot and cold faulty protection

The maximum delivery temperature is restricted by regulator. If the hot and cold water supply malfunctions, the valve will automatically close due to the control of the regulator.



ASME A112.18.1 /CSA B125.1



ASSE 1016



NuStone: Granite and Marble Like Coating Solution

Innovative non-toxic liquid stone to "green the world"

紐華生技

NUSTONE CO., LTD.



About NuStone

NuStone Co., Ltd. is dedicated to bringing innovative next-generation building materials. Its main product "NuStone" is a stone-like coating, which is made of resin and sand. Its water-based, eco-friendly components make it ideally green. With a simple spray gun or a trowel, NuStone creates granite and marble-like textures that are almost identical to real stones. The application can be on any surface, whether exterior or interior. By using stone-like coating materials, NuStone can reduce the excavation of stone mining and help contribute to the sustainable development of the environment. Furthermore, NuStone's superior properties, such as being waterproof, excellent in durability, resistant to cracks, UV, fire, and corrosion, plus being more economical and eco-friendly compared with real stone, make it a bright star in both the international building industry and the DIY market, in more than 10 countries worldwide.

Tel / +886-958-780-302
Address / No. 14-1A, Ln. 557, Mingshui Rd.,
Zhongshan Dist., Taipei City 104048
vip@nustonediy.com



Product Introduction

NuStone has 3 customizable series of texture and a special 4-layered structure. Not only is the coating waterproof, resistant to weather, cracks, and easy-to-use, but it is also 100% water-based, eco-friendly, and non-toxic. NuStone can be applied to any surfaces, whether they are indoors or outdoors, walls or floors, flat or curved, creating high-quality stone-like textures.

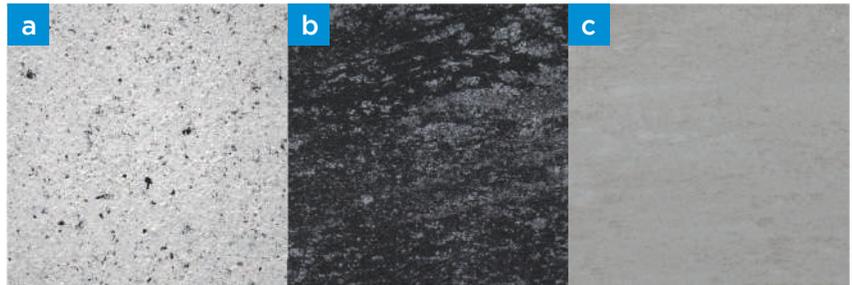
3 Texture Series

NuStone includes 3 different stone-like textures, with all colors customizable:

- a. Granite: With Spray Gun or Roller
(No Electricity Needed for the Latter)
- b. Marble: With Trowel
(No Electricity Needed)
- c. Cement: With Trowel
(No Electricity Needed)



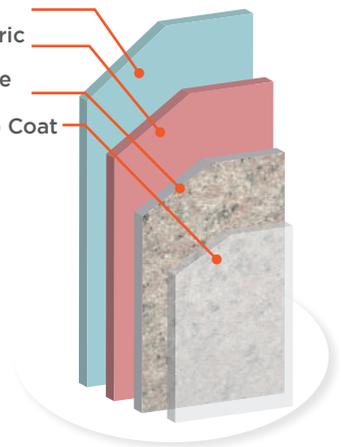
General View of Product Application



NuStone 4 Layered Structure

- 1. Primer:**
Makes the coatings adhere to any surfaces
- 2. Elastomeric Coating:**
Waterproof & crack-resistant
- 3. Stone Like Texture:**
Granite/Marble/Cement
- 4. Clear Top Coat:**
Anti-corrosion, stain/fire/weather resistant

- ① Primer
- ② Elastomeric Coating
- ③ Stone Like Texture
- ④ Clear Top Coat



Product Characteristics



Waterproof

Multi-layer protection against water



Durability

Excellent 10 year weather resistance



Applicable to Any Surfaces

Indoors/ outdoors/flat/ 3 dimensional/ curved surfaces



Ductility

Able to resist cracks



Water-Based Green Material

100% non-toxic, environmentally friendly



Easy to Apply

With a spray gun, roller, or trowel



Vampire Shield Solar Film / Vampire Shield Energy Saving Glass / Uplus Insulation Paint

Achieving ecological balance
by making the best of thermal
insulation technologies

億高應用材料

ZIRCO APPLIED
MATERIALS CO., LTD.



About Zirco Applied Materials

Zirco Applied Materials Co., Ltd. independently and innovatively conduct research development and produce trial runs of Uplus relevant products. Not only have the products obtained patents in numerous countries in order to resolve various heat insulation challenges that appeared on the market, but also received recognition and used by well-renowned enterprises in various countries.

Zirco has proactively invested in the Taiwanese market since 2018, and simultaneously seeking business opportunities abroad. Currently Zirco has collaborated with agents by applying its brand to products in various countries such as Thailand, Malaysia and Singapore, thus the product has become an energy saving and heat insulating green building materials product that is popularly exported to countries in the Northeast and Southeast Asian region.

Tel / +886-3-420-4252
Address / No. 300, Zhongda Rd., Zhongli Dist., Taoyuan City 320317
(Room 233, National Central University Incubation Center)
service@zirco-am.com.tw



Product Introduction

Vampire Shield Solar Film

Vampire shield
solar film



The enterprise owns patent for its innovative nano thermal insulation layer, with more than millions of nano infrared absorbing particles, which is able to absorb more than 90% of the infrared rays radiant heat energy coming from the sunlight. In addition, it could lower the temperature stored indoors and reduce the usage of air conditioning. Moreover, by blocking the full band UV rays, the product could prevent furniture, home furnishing and wooden floors from aging and producing cracks due to long term exposure of sunlight from windows and protect the well-being of the clientele's skin.



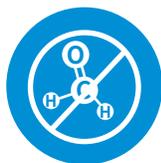
High light transparency
reduce UV rays for lighting



Blocking of the UV rays, do not harm skin and furniture



Lower the indoor temperature and reduce the usage of air conditioning



Formaldehyde-free and non-toxic material



Resistant to glass explosion, safety protection



Vampire Shield Energy Saving Glass

Vampire Shield Energy Saving Glass owns the patent of the UVIR shielding film, which could strongly block more than 90% of the radiant heat from the infrared rays, and highly effectively shield large amounts of UV rays. The product could be applied onto any building due to its characteristics which includes low reflection and high light transparency. In addition, it will not have chromatic polarization challenges when used along with stained glass.



Block radiant heat from infrared rays



Low reflection, high light transparency

Uplus Insulation Paint

The paint and additives from Uplus Insulation Paint could reflect the radiant heat from sunlight and able to block the sun's energy in a reflective manner. Moreover, "The extremely low heat conduction coefficient of the hollow ceramic beads" is added into the paint to greatly reducing the conduction of heat, thereby achieving the effect of lowering the temperature to a cozy environment.



Reflect radiant heat



Lower the conduction of heat



General View of Product Application



Engineered Flooring

Creating a non-toxic, energy-rich and healthy green life

誌懋公司

UA WOOD
FLOORS INC.

 **Ua Floors**
Living on Wood Flooring

Tel / +886-5-551-5757
Fax / +886-5-551-5567
Address / No. 38, Kejia Rd., Douliu City, Yunlin County 640104
marketing@uafloors.com

About Ua Wood Floors

Established in 1992, Ua Wood Floors Inc. is currently a leading wood flooring manufacturer in Taiwan. All products are proudly made in Taiwan with a team of professionals to ensure the highest production efficiency and quality. Committed to the environment, Ua Floors carefully select only FSC certified raw materials, which are from responsibly managed forest and consumers can be confident that buying it will not mean harming the world's forests.

Moreover, Ua Floors views the clientele's health as an important issue. Their Engineered Flooring passed the CARB II standards, with almost zero volume of formaldehyde. Ua Floors also focus on optimizing recycling and reducing waste. The enterprise implements strictly about traceability and source management practice and contributes towards sustainable development for the world.



Product Introduction

Engineered Flooring

Products use only Russian birch plywood as core material, which is more suitable for island climate when compared with solid wood floors. In 2019, Ua Floors launched a 240mm width board with European oak veneer. It comes with 13 different lengths to adapt to the limitations of different spaces. This could reduce leftover material effectively, maximizing the usage of material and reducing the waste. Furthermore, due to the fact that only a healthy body could continue to promote environmental production, "Health" has always been the primary concern for Ua Floors when conducting research development, and thus all wooden floor series have been added with "Far Infrared".



Product Characteristics

In addition to importing wood materials from legally harvested and FSC certified rainforest, Ua Floors also uses special method to rework the material from the hundred year old churches and textile factories and turn them into wooden floors. Ua Floors carefully make good use of every piece of wood chip and wood remainder either in power generator or food waste decomposer, ensuring no resource from the natural environment is wasted.



Certified green resources

Use wood materials from FSC certified natural or man-made forests



Making good use of leftover material

Recycled leftover material are produced into various wood products or natural essential oils



Reuse of discarded wood chip

Discarded wood chips are produced into various recycled products, making good use of waste



Food waste decomposer machine

Leftover wood dust and food waste are converted into fertilizer, reusable resources



Green production

Production is assisted by renewable energy, allowing the production process to be more environmental friendly



Biomass power

Using waste to create refuse derived fuel



Barrier-free Pleated Screen Door / Pleated Screen Window / Pleated Screen Door

The key to maintain indoor
ventilation

清展科技

TAROKO DOOR
& WINDOW
TECHNOLOGIES INC.



喜室清展

About Taroko Door & Window Technologies

Founded in 1987, Taroko Door & Window Technologies Inc. was originally named Chen Chang Plastic Co., Ltd., and has 3 production bases in Taiwan and China, each specialized in diverse areas such as ventilation doors, invisible (retractable, pleated) screen windows, ventilation grilles and barrier-free pleated screens as well as the onward manufacturing process. The environmental friendly door and window brand named "HISS" has a significant status, in which the "Barrier-free pleated screen door" could be installed indoors, and has the advantages to diminish the volume of air conditioning, thus saving energy and reducing carbon emission. In the future, Taroko will uphold the spirit of protecting the earth, create a humane green living environment, and continue to develop innovative products relating to areas such as noise insulation, light and heat separation and green energy application that are able to market globally.

Product Introduction

The key factor that the indoors is able to keep warm during winter and cool in the summer without using electricity is “ventilation”. Taroko design the screen window into pleated screen window, so the product is able to install on any type of window, maintaining well ventilation indoors, thereby achieving energy saving and carbon reduction.

Pleated Screen Window Pleated Screen Door

- It could freely move its position and extend the width according to the type of window or door.
- Combined with shade cloth, it could shield indoors from direct sunlight, and hence reduce the usage of air conditioning, save energy and protect environment.



General View of Product Application

▲ Tensile life testing
Testing size : W900 H2,100mm
Testing cycle : 775mm/100,000 times



Detachable



Intuitive Detachable



Completely Invisible



The tall and large screen door is able to easily push and pull. Children could move the door with just one finger.

Barrier-free Pleated Screen Door



Ease

By applying the analysis of acoustic technologies and summarize the causes of noises, Taroko improves the vibration module of structural movements, and tries to optimize the sound quality of non-eliminable noises according to special characteristics of the human ear, which reduces the noise challenges to the minimum.



Convenience

Create a barrier-free space, adopt 3mm height low rail design and allow elders or wheelchairs easily access through compartments, which the inconvenience of traditional pulling screen door situation will not happen, There is no need to worry about indoor ventilation conditions, thus achieve the environmental goals of lowering the volume of air conditioning.



Comprehensive

Could be used with mesh and shade cloth. Mesh is able to let indoors well ventilated without turning on the air conditioning, and materials of the shade cloth are very suitable to be used for indoor compartments. This could allow the indoor air conditioning to concentrate in the areas that clientele wants, and thus an innovative way for indoor ventilation and energy saving carbon reduction.

▲ Tensile life testing
Testing size : W1,200 H2,100mm
Testing cycle : 1,060mm/100,000 times



Rice Straw Eco Panel Recycling System

Customized services for
renewable energy

擁泉科技

FOUNTAIN HITECH
CORPORATION



About Fountain Hitech Corporation

Fountain Hitech Corporation entered the circular economy industry sector in 2005. By 2018, Fountain Hitech owns core technologies of resources transferred from waste and renewable energy, and by combining relevant equipment and technologies of partner corporations, it then integrates various solutions of production systems within the hydrogen energy, hazardous waste, agricultural, recycled water and organic fertilizer sectors. By grasping the spirit of social enterprises, Fountain Hitech could customized the “turn-key transfer” business model, servicing governments and non-governmental organizations worldwide, in order to achieve the vision of proactively processing waste and protecting the global ecology.

Product Introduction

Rice Straw Eco Panel Recycling System

The development of building material technologies have always been centered on 3 main fiber materials, grain straw (Wheat, Straw), bagasse, wood materials or wood chips that contains chemical resins and adhesives. Fountain Hitech uses straw from agricultural waste, and gather the cellulose, hemicellulose and lignin from the straw itself to undergo polymerization, without the addition of chemical adhesives. Afterwards, the company applies continuous high pressure molding process to manufacture green building materials that is fireproof, noise absorption, heat insulation, high bearing capacity, light weight and environmentally friendly.

Eco Panel Recycling System



Specification	Thermal Conductivity	Thermal Resistance	Vapor Resistance	Fire Resistance	Volatile Organic Compounds	Density
Eco panel E40&E60	0.102 W/mK	0.5882 m ² KW	9.7	E	A+	560 kg/m ³

Product Characteristics

The eco panel does not add any chemical agent during the environmentally friendly production process, but also fulfills the various advantages of high quality green building materials. See below for details:



Sound Absorption and Noise Reduction

Natural plant fiber, sound absorbing and noise reduction material



High Bearing Capacity

Could withstand the bearing capacity of the car weight



Thermal Insulation

Effectively isolate the cold and heat, so that it would be warm in winter and cool during the summer



Fire Protection (will not ignite)

Could effectively prevent fire and will not ignite



eFoam: Physically Crosslinked Polyolefin Foam

The Invisible Guardian of Buildings

泉碩科技

MEGA MASTER
TECHNOLOGY
CO., LTD.



泉碩科技
Mega Master Technology

About Mega Master Technology

Mega Master Technology Co., Ltd. was established in 2011, formerly known as Liang Haw Fiber Co., Ltd. In 1997, the company imported electron beam irradiation technology from abroad and developed advanced irradiation polymer cross-linked technology that manufactures environmental high polymer building materials. From raw materials to the final green products, Mega Master adopts sustainable development as its guideline and is compliant with the RoHS regulations.

Developed by Mega Master, the eFoam environmental PE foam products that have waterproof, soundproof, heat insulation and non-toxic features are exceptional building materials. Among these, the soundproof floor mat is effective in preventing moisture from cement floors, therefore extending the lifecycle of wooden floors, thus becoming the main exporting product for international market. Furthermore, it has attracted attention globally due to the ongoing green trend.

Tel / +886-2-8671-1888
Address / No. 7, Tianfu Rd., Sanxia Dist., New Taipei City 237003
info@mmefoam.com



Product Introduction

Mega Master uses electron beam irradiation technology to produce non-toxic and odorless polyolefin foam, in which “eFoam” is established as the brand name. The electron beam irradiation production process allows eFoam to be able to evenly distribute its closed cells, providing remarkable physical properties, and greatly improving the processability. eFoam have different density, thickness, widths and colors for ones choosing. In addition, it could be supplied in roll form or customized, thus lowering material waste and raise its convenience.



Physically crosslinking process to manufacture eFoam

With physically crosslinking technology, the production process is more eco-friendly and less polluted.



Width up to 2.4M

The extraordinary manufacturing technology could expand the width that minimizes the volume of material waste.



High stability of the quality

Polymer materials have long lifecycle and do not degrade.

Product Features and Applications

Due to the evenly distributed closed cells characteristics, the eFoam have three major features: waterproof, soundproof and heat insulation. The excellent waterproof feature allows the product to be widely used as waterproof roof material; when applied onto wall panels and rooftops, it could effectively prevent heat. Furthermore, due to its soundproof features, the product is suitable for demising wall and floor panels, as it could lower the airborne sound of wall surfaces by about 50 decibels and about 20 decibels of the floor impact sound. eFoam received not only the “Taiwan Green Building Material Mark”, but also fulfilled EU RoHS and REACH relevant standards.



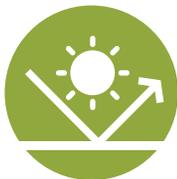
Weather-Resistant

Building materials from rooftops, wall surfaces and ceilings



Sealing

Sealing solution for building materials and windows



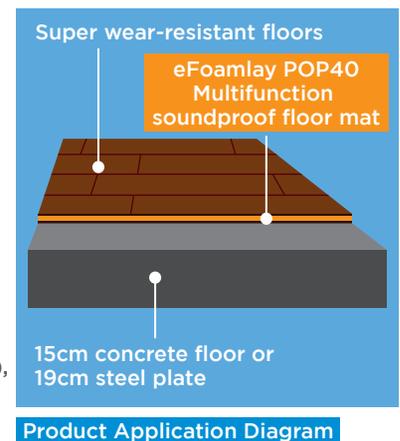
Heat Insulation

Heat insulation building materials for walls and rooftops; Heat insulation steel plates



Soundproof/ Noise Reduction

Underlayment for various floorings: Stone Plastic Composite (SPC), Luxury Vinyl Tile (LVT), laminate, carpet, and wood floors



“Let Heat Go” Heat Insulation Coating

Reflect Heat and Create
a Comfortable Energy
Saving Space



資通國際

ECO
TRIDENT
CO., LTD.



About Eco Trident

Eco Trident is committed to the research and development of solar radiation energy saving materials for environmental protection, energy saving and temperature lowering needs. The company manufactures “Let Heat Go” heat insulation coating which is created according to the US Cool Roof Rating Council (CRRC) standards, and widely used/designated by professionals within the heat insulation sector. Moreover, the product has been used by renowned organizations such as the Taipei Zoo, Yamaha Motors and Emerald Pacific Airlines. As a member of the Taiwan Green Building Materials Industry Alliance, the quality of the products is on par with those from Europe, the US, Australia and Japan and is a competitive brand within the global market. The company will continue to create a cool and comfortable atmosphere for energy saving buildings in the near future.

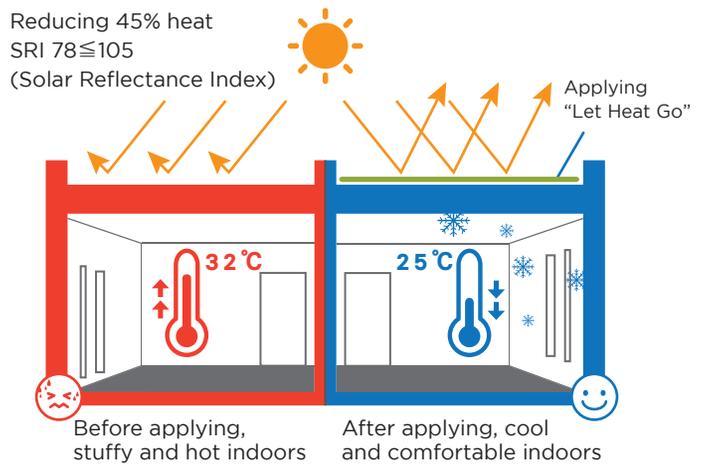
Tel / +886-921-648-761
Fax / +886-2-2226-6701
Address / 5F., No. 119, Zhongyuan 2nd St., Zhonghe Dist., New Taipei City 235024
alonso.mit@gmail.com

Product Introduction

"Let Heat Go" is an environmental heat insulation coating that does not contain harmful substances such as heavy metal and fulfills the CRRC and LEED green building evaluation standards. Different from the traditional low heat conductivity materials, with a Solar Reflectance Index (SRI) as high as 105, the product can effectively decrease the heat stress of rooftops and resolve challenges of having an extremely hot indoor environment that feels like the insides of a blistering oven. Additionally, "Let Heat Go" is applied onto cement structures, metal materials, bricks, etc., which could achieve the effect of insulation from the heat outdoors. Moreover, it could be coated on PU, acrylic, polyuria, etc. that could be used as a waterproof protective layer. In addition, "Let Heat Go" has various colors to choose from, so it is not only practical but also aesthetically pleasing.



Multiple colors to choose from



Before and After Applying "Let Heat Go"

The Benefits of Applying "Let Heat Go" On "Cool Roof"

Cool Roof Technology is an important factor of green building, which is the technique to reflect solar radiation and heat. This is applied onto rooftops to achieve a cooling effect, thus lowering the heat of both indoors and outdoors. Furthermore, this reduces energy consumption of the air conditioners, and extends its lifecycle. When applying "Let Heat Go" on Cool Roof, there is only an 88.1% Solar Reflectance Rate during sunlight which blocks the solar heat; whereas there is an 88% of Thermal Emittance Rate during sunset, which quickly dissipates the remaining heat on buildings. The coating not only could improve the hot indoor environment and the "Urban Heat Island Effect", it could further enhance comfortable living environments and the effects of energy saving and carbon reduction.



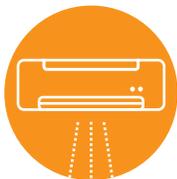
Decrease the "Heat Island Effect"

Heat dissipating from buildings which reduce the effects of the "Heat Island Effect"



Good Heat Insulation

Reflect solar heat effectively thus prevent heat from entering indoors.



Air conditioned room cools down fast

Air conditioned room cools down fast, keeping the room cool and comfortable



Energy and Electricity Saving

Reducing electricity usage and achieve the goal of energy saving and carbon reduction.

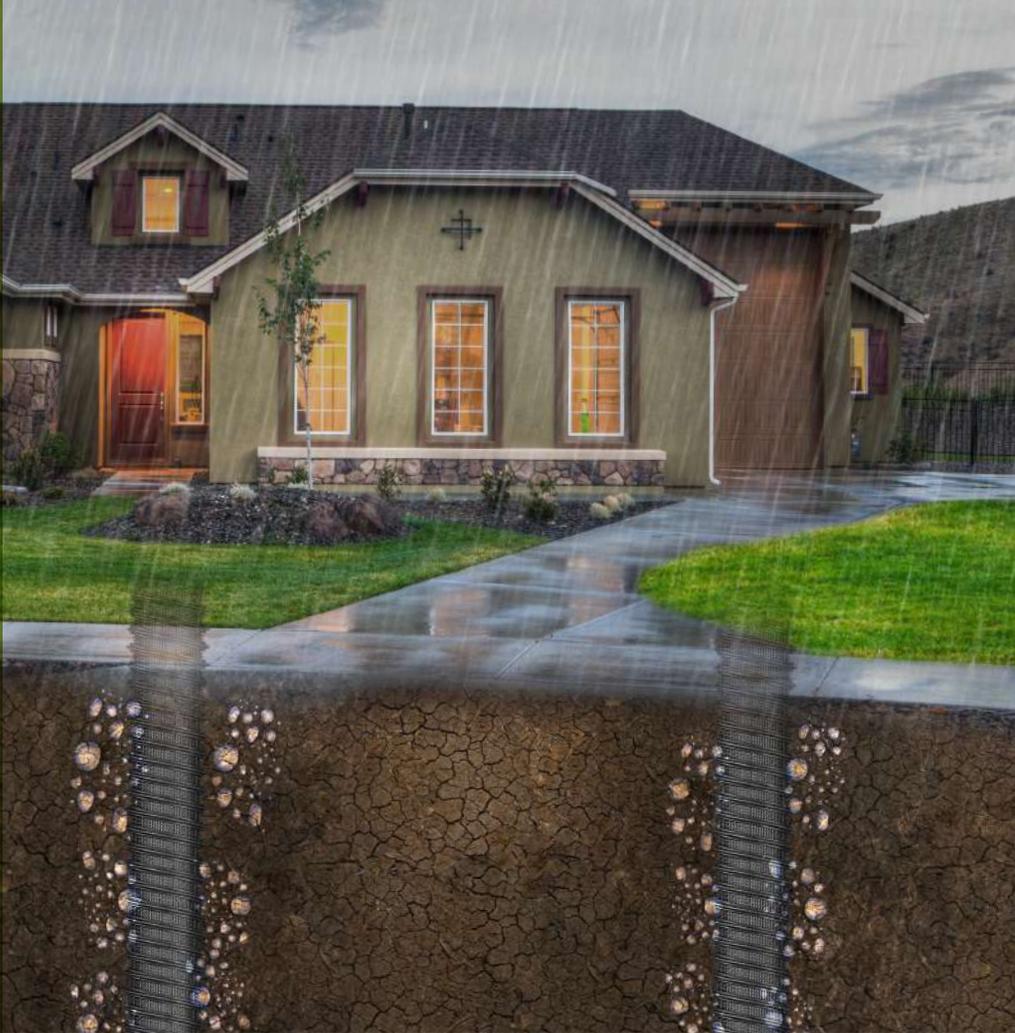


Applying "Let Heat Go"



Geo Mesh Pipe

Letting the environment
breathe like a sponge



南陽化工

NAN YANG
CHEMICAL
CO., LTD.



About Nan Yang

Nan Yang Chemical Co., Ltd. was established in 1954 as a professional manufacturer for plastic nets and pipes. In addition to developing different plastic extruded net and bags to fulfill gardening, private homes and industrial use, they also manufacture HDPE drainage pipes. Recently, facing the challenges of climate change and overexploitation of land, Nan Yang began promoting a series of mesh pipe products. These include mesh infiltration pipes and infiltration wells that received certification of “Green Building Mark” and “New Technology for Green Building”, and could be used to build green rainwater infrastructure in outdoor drainage system for homes, roads or green fields. This could provide the general public with simple and economical solutions for water resources management. Nang Yang continues to promote their products abroad and locally by complying with the global sustainable eco-friendly trend.

Tel / +886-5-235-7868

Fax / +886-5-235-6085

Address / No. 199, Liuzilin, Shuishang Township, Chiayi County 608013

southsun@southsun.com.tw



Product Introduction

Geo Mesh Pipe is integrally molded by using HDPE as material as it could be conveniently recycled and reused. The 3 dimensional arch shaped thread creates a web like structure, which not only have high pressure resistance features but also have excellent water collection and drainage function. The permeable area is more than 80% of the pipe surface, thus it is not easy to get clogged, allowing long lifecycle.



Geo Mesh Pipe



Lowering temperature of the earth surface

Reducing the heat conduction and slowing the heat island effect



Ecological engineering method

No need to use filter material such as crushed stones, grading, and non-woven fabrics



Vertical design of the pipe

The pipe wall is designed to prevent sand and soil from entering and avoid blocking



High permeability area

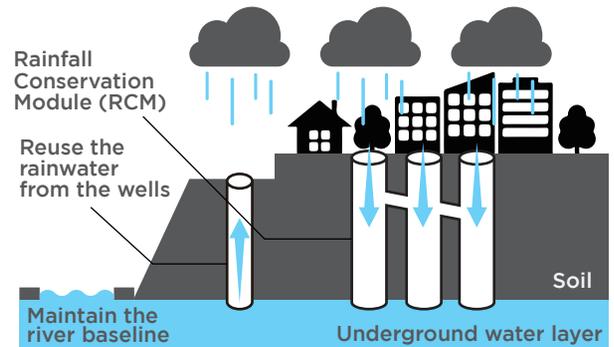
Raise the efficiency of water recycling, and maintain the conservation of the water and soil

Product Application

Rainfall Conservation Module (RCM)

It is often impossible to provide enough bare land and permeable pavement for infiltration within the high density development areas. By using both Nan Yang's horizontal mesh pipe and the vertical mesh drainage pipe to create a RCM, this could artificially assist the rainwater to infiltrate, thus achieve the goal of conserving the groundwater and reducing surface runoff.

The recharging, storing and reusing of the underground water



Water Saving Irrigation and Drainage Facilities

Using the geo mesh pipe to build a water irrigation and drainage facility, the irrigation water then enters into the soil through the mesh pipes and the storage system. Furthermore, by using the soil's capillary actions, it could replenish water to the tree roots, thus reduce environmental impact and create a comfortable and healthy urban ecological environment.

Application Scenario



Green Permeable Paver

The outdoors or building could be equipped with green permeable pavers, such as the permeable grass grid paver, vertical green wall, green roof, etc., to make the surroundings more environmentally friendly, reduce carbon emissions, and achieve the goal of slowing the heat island effect and lowering the temperature.

Application Scenario



Anti-scratch
Piano Paint SPC
Marble Board /
Anti-scratch
Silk Matt PP Board

Excellent solution to protect the
natural environment



永煜科技

CELADON
TECHNOLOGY
CO., LTD.



About Celadon

Celadon Technology Co., Ltd was established in 2007 and is specialized in various material coating technology, in particular its special precision and particle distribution technology could be used within the stationary, automotive, semiconductor, maritime and other sectors. Grasping the global green trend, Celadon has been developing environmentally friendly anti-scratch piano paint SPC marble board and anti-scratch silk matt PP board. It is hoped that this new generation of eco-friendly materials will be able to fulfill needs of the general public.

Celadon customizes and implements their own environmental policies during research development and manufacturing processes. They collect their factory exhaust emissions and reuse it after undergoing filtration. Simultaneously, they install solar panels, which not only could save energy and reduce carbon, but also shield the factory, thus lowering the indoor temperature. In addition, the wastewater produced will be discharged after receiving strict treatment, minimizing the impact to the environment. Celadon will continue to implement sustainable concept onto the manufacturing process and improve its technology, by setting its roots in Taiwan and looking towards the world.

Tel / +886-5-591-0323
Fax/ +886-5-591-1601
Address / No. 10, Fongtian Rd., Dapi Township, Yunlin County 631041
celadon@celadon.com.tw

Anti-scratch Piano Paint SPC Marble Board

Celadon takes polyvinyl chloride and calcium carbonate materials with special ultraviolet multi-layer coating technology to manufacture two types of anti-scratch piano paint SPC marble board, “glossy” and “matt” finish. Additionally, Celadon developed a closed cell matt layer technology that could prevent dirt from adhering to the matt surface, thereby extending the lifecycle of the building materials, lowering the replacement rate, and achieving the benefits of sustainable environment.



Glossy Finish Design



Matt Finish Design

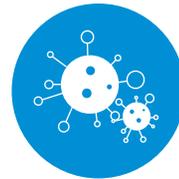
Focusing on human health, Celadon developed formaldehyde-free anti-scratch piano paint SPC marble board that has become a new kind of environmental building material. When used along with industrial grade tape that Celadon developed, it is quite light and easy for installation. The decoration board has no pores and retain vivid color that allow it to mimic textures like marble or ceramic tile. Because of the high similarity of the board to actual stone slabs, using the board could reduce ore excavation and protect the natural environment. Moreover, due to its anti-mold, germ resistant, high resistant to moisture and chemical resistant features, the product is widely accepted throughout the global market, and suitable to apply in residences, commercial spaces, decorations for elevators, and so on.



High degree of
hardness and
scratch resistant



No organic
solvent



Anti-moisture
and mildew-free



Easy to clean



Easy to install



Elegant and posh

Anti-scratch Silk Matt PP Board



Product Overview

Celadon uses anti-scratch piano paint SPC marble board as the foundation basis for the development of anti-scratch silk matt PP board, providing the general public another choice of eco-friendly and recyclable building materials. Besides having the original scratch resistant features, the PP on the surface are resistant to corrosion and high temperature up to 120 degrees, it is also flexible and resilient. Celadon uses SPC substrate that does not contain volatile organic solvents such as formaldehyde. Therefore, inhabitants are able to move into the house without waiting for the Volatile Organic Compound (VOC) to dissipate, enjoying a healthy and eco-friendly lifestyle right away.



Solar Rooftop Tile

Green Building Trend

上銀光電

ETERBRIGHT
SOLAR
CO., LTD.

eterbright®

About Eterbright

Established in 2010, Eterbright Solar Co., Ltd. is a subsidiary firm invested by HIWIN. The company is specialized in the research development of CIGS thin-film solar power battery module which is widely applied to Solar Rooftop Tile system, large-scale power station...etc.

Eterbright products have high photovoltaic conversion efficiency, great low light performance features and stable module efficiency. By using cadmium free, lead free and eco-material, the firm provides environmental friendly products.

Building Integrate Photovoltaic (BIPV) systems are currently being introduced in various EU countries. Eterbright continue to create green development for its enterprise and promote their products globally.

Product Introduction

The global solar power market has benefitted due to the EU regulations on passive energy saving houses. New buildings must fulfill the strict energy saving requirements.

Eterbright's CIGS solar module satisfies the requirements of BIPV, building a bridge between both architectural design and renewable energy sector.



ePower Tile

4.5kg 5400Pa

Light and sturdy material, easy and safe installation.

672x372x37mm

Overall dimensions of the module, including the whole frame.

636x317mm

Each power generation area after installation.



Overall frame



Appearance of the actual power generating status after installation

28Wp

Each ePower module wattage rating that fulfills standard installation.

140Wp/m²

CIGS Panel provides the building 140Wp per square meter.

Product Features



Environmental Non Toxic CIGS Thin-Film Solar Energy Battery Technology

Providing environmental friendly solar modules that are harmless to the human body, the patented cadmium and lead free manufacturing process received 112 patents, 38 international certifications approved by EU TUV, IEC...etc.



High Wind Pressure Durability and Snow Pressure Durability

Professional manufacturing technologies provides excellent flexibility and stability. Furthermore, it has high stress resistant and weather resistant features.



Easy to Install

Comparing with silicon solar module installations, it has less restrictions. The size and dimensions of the optimized module is easier to install, and raise safety of the installation procedures.



Excellent Power Generating Features

Excellent power generating features under low light. When silicon solar module affected by various weather conditions, ePower Tile could continuously generate power.



Strong Anti-shade Effect

Have unique thin-film design features that could generate and maintain power normally when the modules are partially shaded. In addition, it could get used to facing possible actual conditions when the solar power generating system is installed and in operating mode.



Dark Black Aesthetics

Could absorb wider spectral wavelengths coming from the sunlight which allows the appearance of the CIGS solar panel to present a natural dark black color.

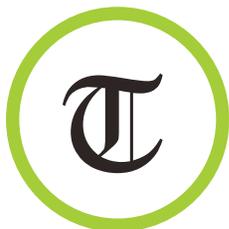


Imitation Stone Paint / Marble Coating

Excellent choice for environmentally friendly water based paint

創新科技

INNOVATION
TECHNOLOGY PAINT
CO., LTD.



About Innovation Technology

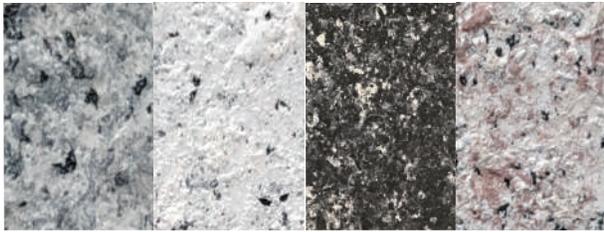
Innovation Technology Paint Co., Ltd. is a professional manufacturer of both indoor and outdoor paint, and has been deeply committed to the development of unique texture paint since its establishment. The imitation stone paint, marble coating and gangshi paint could be widely used on various buildings and landscapes. Furthermore, it could be painted upon cement surfaces of new buildings, glass fibre reinforced concrete, fiber reinforced polymer and other special forms or on metal surfaces such as corrugated metal roofing sheet. After utilizing different specialized agents, the paint could be sprayed upon the building materials of old buildings, such as tiles, stones, calcium silicate boards, plaster boards, etc. Due to special construction approach, it is unnecessary to remove the old building materials, thus avoiding causing noises and dust from the removal process, which shortens the construction period. Products manufactured by Innovation Technology due to its elegant appearance and easy to install features, have attracted the attention of overseas enterprises and continue to grow at a steady pace with markets all over Taiwan, Japan, Philippines and Thailand.

Tel / +886-4-2479-0770
Fax / +886-4-2217-5382
Address / 11F., No. 285, Sec. 2, Taiwan Ave., West Dist., Taichung City 403554
coatdiy@gmail.com

SGS

Imitation Stone Paint

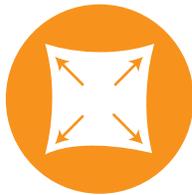
Imitation stone paint manufactured by Innovation Technology is a granite like texture paint; its main component is acrylic resin which is light and airy, waterproof and environmentally-friendly. This is a water-based eco-friendly paint with dense texture like granite, which creates decent decorative effects with high fidelity. Besides, the paint displays weather resistant, waterproof, dirt proof, easy to repair features. Furthermore, as there is no need to excavate for hard natural stone materials, the construction period is greatly shortened, which indirectly protects the wildlife ecology.



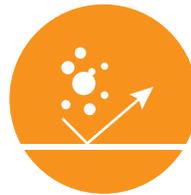
Various colors of imitation stone paint



Good weather resistance



Good ductility



Dirt proof and dust proof



Water based and non-toxic

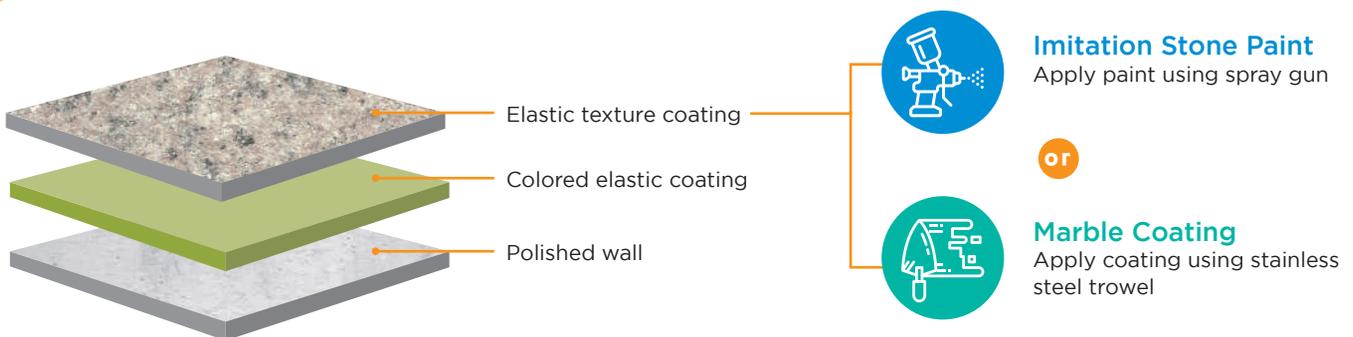
Marble Coating

Marble coating manufactured by Innovation Technology is a water-based marble-like texture paint, which is made from special polymer waterproof resin and harmless to human body and the environment. The construction is quite simple and easy to operate, the coating can be applied by using a stainless steel trowel. By having the trowel apply evenly on the surface of the construction, this could avoid spraying and will not cause any contamination from paint flying around. In addition, it withholds the color and texture of the natural stone material and could achieve waterproof, dustproof, dirt proof features, allowing the wall to have a new life and personality. When used outdoors, it has great weather resistant features.



Various colors of marble coating

Coating System Diagram



**Waste House:
Energy-Saving
General Waste
Refrigeration
Facility /
iTrash:
Smart Waste
Collection Service**

The green corner of smart living



鴻海環境

HONG-HAI
ENVIRONMENT
SCIENCE CO., LTD.



鴻海環境科技股份有限公司
Hong-Hai Environment Science Co., Ltd.

About Hong-Hai Environment Science

Hong-Hai Environment Science Co., Ltd. company vision is to promote green buildings, improve the overall environment and lower the carbon emissions. The enterprise has over 20 years of green building professional design and construction experiences, and provides advanced environmental technological equipment to international and local business.

Hong-Hai's "Waste House: Energy-Saving General Waste Refrigeration Facility" is mainly used within community buildings or green buildings. Recently, due to the global green trend, the corporation developed "iTrash: Smart Waste Collection Service" based upon two of their unique patents which are the patent of "General Waste Collection Kiosk with Charging Function and Bottles/Cans Reverse Vending Machine" and patent of "Waste Compression Device with Fee Calculation Function". This system is able to conduct environment monitoring and waste disposal management by applying Cloud Computing and IoT technology to create an eco-friendly environment.

Tel / +886-3-222-8688
Fax / +886-3-222-8588
Address / No. 56-1, Ln. 60, Sec. 4, Changxing Rd.,
Luzhu Dist., Taoyuan City 338015
service@itrash.com.tw

Utility Model Patents: No. M445005
Utility Model Patents: No. M457712
Invention Patent: No. I573747

Waste House: Energy-Saving General Waste Refrigeration Facility / iTrash: Smart Waste Collection Service

Waste House: Energy-Saving General Waste Refrigeration Facility

Hong-Hai's "Waste House: Energy-Saving General Waste Refrigeration Facility" holds energy saving patents and has at least 2 timer devices that could reduce energy consumption through frequency conversion. This could save about 30% of electricity and completely inhibit the growth of insects and germs, additionally prevent odor coming from the fermentation of trash and kitchen waste. The compression function of "Waste House: Energy-Saving General Waste Refrigeration Facility" could expand the trash storage volume, thus effectively using the limited space. Moreover, Hong-Hai has installed a function on the equipment that notifies when reached full capacity, making the waste management system more intelligent. In addition, a circular shaped track could be constructed according to demands, which could automatically switch out the dumpster that have reached full capacity, thus improving the efficiency of the waste management.



iTrash: Smart Waste Collection Service

Combining the functions and advantages of "Waste House: Energy-Saving General Waste Refrigeration Facility", "iTrash: Smart Waste Collection Service", embedded with sensors and cloud management platform, has advanced waste management functions integrated with IoT and provides 24 hours automatic smart trash collection services. It can conduct trash reduction and classification, thus improve the quality of the overall environment. The general public could also pay relevant waste disposal fees and receive cash reward through electronic ticketing for recycling, raising the awareness of proactive recycling and create eco-friendly green lifestyle.



Ecohere™ NAF Adhesive

A New Non-toxic and
Eco-friendly Choice

安聯材料

ALLIANCE MATERIALS
TECHNOLOGY
CORP. LTD.

Alliance

About Alliance Materials

Alliance Materials Technology Corp. Ltd. was established in 2018. Considering the health of general public and the rising trend of green circular economy, Alliance focuses primarily on the research development and production of formaldehyde free and nontoxic eco-friendly bio materials. As publically announced by the WHO, formaldehyde is classified as a Group 1 carcinogen that is commonly found in traditional adhesives usually used in construction. This is not beneficial to the general public's health when released within the indoor environment for a long period of time. In order to improve this situation, Alliance finally developed a safe and nontoxic "Ecohere™ NAF Adhesive" after numerous experiments.

Through collaborating with global brand enterprises, Alliance has developed and manufactured industrial application materials that fulfills the future trends of green circular economy. Finally, Alliance will proactively explore new overseas markets by establishing Taiwan as a base for research development and production center.

Tel / +886-3-287-2877

Fax / +886-3-287-3055

Address / 7F., No. 61, Sec. 1, Qingfeng Rd., Zhongli Dist., Taoyuan City 320016

tony@alliance-materials.com

Product Introduction

The Ecohere™ NAF Adhesive uses cellulose as raw material as it is easy to obtain and widely available in nature. Comparing with the existing soy-based NAF adhesive, the raw material has no conflict with the general public over food resources. This product had already obtained patents from Taiwan, the US, Japan and Mainland China, and could be applied onto wooden furniture, solid wood floors and bamboo panels or other relevant wood products.

Ecohere™ NAF Adhesive recently had successfully entered the supply chain for internationally renowned furniture franchise stores, and acquired relevant product certifications. Furthermore, it is expected the furniture franchise stores will gradually use this product in all fields before 2022; this shall assist the traditional industries such as the building and construction sector to transform and upgrade towards the nontoxic direction, providing the general public a healthier and nonhazardous living environment.



Product Features

Ecohere™ NAF Adhesive uses nontoxic biomaterials as precursors to achieve formaldehyde free status. Products and building materials, which use this adhesive, are able to fulfill the strict standards of US No-added formaldehyde (NAF) and the formaldehyde emission standards for wood products of the US Environmental Protection Agency Toxic Substances Control Act (TSCA) Title VI. In other words, the relevant wood products could be recycled and reused without any need for detoxification, achieving the goal of circular economy. Unlike other formaldehyde free adhesives, the manufacturing process for this product is simple and nontoxic, and the adhesive itself is odorless. On the other hand, the crosslink structure of the adhesive chemically bonds with the wood materials, therefore is not easily unglued. In addition to the strong durability of its adhesive, it also passes the most rigid water resistant test, in which it remains uncracked under 4 hours of boiling water. Additionally, when used upon curved products, there are no warping nor delamination problems, there is excellent evenness and durability, showing perfect balance between practicality and environment protection.

	Formaldehyde Free		Excellent Adhesion		High Resistant to Water
	Easy to Operate		Nontoxic Recyclable		Odorless



Prefinished Wood Veneered Panels

Low formaldehyde and new choice to light up the green life

科定企業

KEDING
ENTERPRISES
CO., LTD.

About Keding Enterprises

Established in 2002, Keding Enterprises Co., Ltd. has been focused on the production and application of wood products, and specializes in Prefinished Wood Veneered Panels which challenges traditions of decoration materials. With years of constant innovative development, Keding has manufactured relevant products with a strict and thorough attitude. As an enterprise within the wood manufacturing sector, Keding is extremely dedicated to the sustainable use of wood materials and resources. Furthermore, they also collaborate with suppliers from Finland, Norway... etc., those fulfill the standard practices of friendly forestry management by selection and rotation cutting of matured trees that has minimal impact to the environment. This method has passed through the international FSC® Chain of Custody Certification, which allows the forest more opportunities to grow seeds and saplings.

Keding products are manufactured entirely with eco-friendly and non-toxic raw resources, wood materials, coating and pallets, making the products fully recyclable and reusable, and protects the environment from harm. Under the growing trend of global environmental awareness, Keding continues to use its professional knowledge, chooses wood with excellent quality at the material and technological level, provides the market with natural and graceful wooden products and builds its brand image worldwide.

kd KEDING

Tel /+886-2-2296-3999
Fax /+886-2-8511-1216
Address / 16F., No. 69, Sec. 2, Guangfu Rd., Sanchong Dist.,
New Taipei City 241561
keding@twkd.com



Product Introduction

The Prefinished Wood Veneered Panels produced by Keding is also named as KD Panels, which is a decorative material that consists of plywood overlaid with real wood veneer. The wood veneer at the surface is attached firmly to the Plywood Backing during manufacturing and applies eco-friendly coating instead of traditional wood veneers that was dyed. Not only the consumers do not have to deal with dust pollution produced by paint spraying, grinding and polishing, they also do not have to worry about volatile organic compound residues from the paint spraying techniques, thus safeguarding the health of the household. In addition, each KD Panels have its own non-woven material for sealing panel edges. Additionally, as it is manufactured from the same batch of wood materials, there is no need to search for similar wood strip and aluminum strip, which vastly shortens the project completion time, and could be used in interior design and furniture made from wood materials.



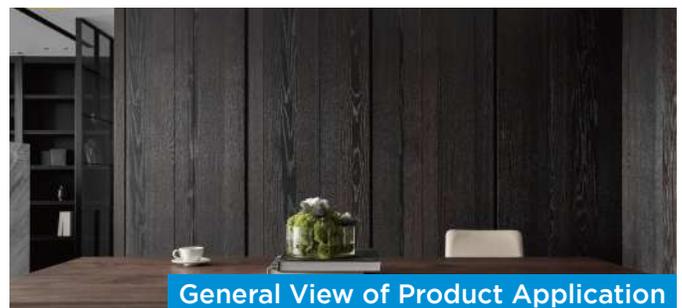
The structural diagram of the Prefinished Wood Veneered Panels

General View of Product Application

Product Features

KD Panels uses water based penetration coating that is able to combine perfectly with the wood veneer. In addition, the excellent adhesive feature allows the coating to protect the veneer, preventing it from getting easily damp, which in turn doubles the life span than the traditional application. Compared with other general coating, KD Panels uses exclusive finish with fire retardant features, which is safer to use. Moreover, KD Panels does not contain Toluene, Xylene, Titanium Oxide and Lead those are toxic and usually found in traditional paint. Keding has specially developed polymer deconstruction technology committed to lower the volume of Formaldehyde within the building materials, guarding the health and safety of its inhabitants. The durability of the KD Panels could reach to 3H to 6H; when compared with the traditional onsite paint spraying, it is more scratch resistant, and could be cleaned easily with alcohol-based cleaning agents, giving user a long-lasting finish.

	Low Formaldehyde		Not Easy to Get Moist
	Non-Toxic		Easy to Clean
	Flame Retardant		Strong and Durable



General View of Product Application



FIRST METAL PRODUCTS INDUSTRIAL CO., LTD.

Skylight Vent / Skylight Smoke Vent

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Golden Armor SJ-39 Inorganic Waterproof Protection Repellent / Golden Armor SJ-107 Insulation Paint

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Faux Stone Coating ADDSTONE

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The Original MIT Taiwan Sugarcane Fiber Straw

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ORIENTAL GREEN ENERGY TECHNOLOGY INC.

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INNOVATION TECHNOLOGY PAINT CO., LTD.

Imitation Stone Paint / Marble Coating

Tel / +886-4-2479-0770 Fax / +886-4-2217-5382

Address / 11F, No. 285, Sec. 2, Taiwan Ave., West Dist., Taichung City 403554 coatdiy@gmail.com

HONG-HAI ENVIRONMENT SCIENCE CO., LTD.

Waste House: Energy-Saving General Waste Refrigeration Facility / iTrash: Smart Waste Collection Service

Tel / +886-3-222-8688 Fax / +886-3-222-8588

Address / No. 56-1, Ln. 60, Sec. 4, Changxing Rd., Luzhu Dist., Taoyuan City 338015 service@itrash.com.tw

ALLIANCE MATERIALS TECHNOLOGY CORP. LTD.

Ecohere™ NAF Adhesive

Tel / +886-3-287-2877 Fax / +886-3-287-3055

Address / 7F, No. 61, Sec. 1, Qingfeng Rd., Zhongli Dist., Taoyuan City 320016 tony@alliance-materials.com

KEDING ENTERPRISES CO., LTD.

Prefinished Wood Veneered Panels

Tel / +886-2-2296-3999 Fax / +886-2-8511-1216

Address / 16F, No. 69, Sec. 2, Guangfu Rd., Sanzhong Dist., New Taipei City 241651 keding@twkd.com



GREENING YOUR LIFE



經濟部推動綠色貿易專案辦公室
GREEN TRADE PROJECT OFFICE
MINISTRY OF ECONOMIC AFFAIRS

Ad By Bureau of Foreign Trade, Ministry of Economic Affairs

3rd Edition : June 2020