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INTERIOR FILM GUIDE BOOK

LG Hausys interior film

Nature, Human and Space

Turning Nature into Living Space

We work hard to enrich the lives of our customers and ensure their health by pursuing spaces that are in complete harmony with nature, while supplying eco-friendly materials and improving energy efficiency at the same time.

Embracing people

We are increasing the value of people's lives and setting trends in living spaces through designs that are not only beautiful and human-friendly, but also emotionally appealing.

Inspired Living Space

We put the highest priority on customers, creating living spaces where people experience perpetual happiness.







LG Hausys Interior Film

LG Hausys self-adhesive interior film, produced by LG Hausys Ltd, a leading surface materials manufacturer in Korea, provides total solution to the commercial and shop fitting sectors without the disruption of replacing existing fixtures and fittings.

Characteristics



Economica

Simple and easy installation compared to the traditional finishing materials. LG Hausys Interior Film can be easily repaired or removed, partially or as a whole piece.



Convenient

LG Hausys Interior Film has excellent flexibility and adhesion, which allows perfect finish to curved areas and complex shapes.



<u>Durable</u>

Highly resistant to impact, abrasion and scratching. LG Hausys Interior Film is also very stable even when exposed to heat, humidity or low temperatures.



Creative

Create your own space with the various patterns and colors of LG Hausys Interior Film, such as wood grain, metallic and leather.





LG Hausys Interior Film embodying sense of nature

Space embracing sense of nature is alluring.

Eloquent interior film that pours out an air of artistic sensibility

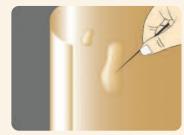
Assuming a creative and unique space of naturalism.



AIR FREE

No more Air-bubbles during installation!

By resolving inconvenience due to air-bubbles during installation, it shortens installation time and prevents bumpiness of the product, by minute air-bubbles, and enhances its quality.



Separate elimination work is needed to remove air-bubbles



Difficulty and time-consuming work to remove air-bubbles

After Air Free applie



Easy removal of air-bubbles and time reduction for installation

Enjoy the Cartoon~

(These air-bubbles....Sigh

Inconvenience of bursting each remaining air-bubbles

Feeling uneasy, even finishing with reinstallation

with a needle

LG Hausys Interior Film Decorating Space with Ease



It is difficult to remove air-bubbles with a squeegee



customer complaints untidy finish





"AIR FREE", where air-bubbles are removed all by itself, just by rubbing with a squeegee



With the perfect installation finish and reduction of installation time, feeling relaxed in a long while

X AIR FREE adhesive System Applied Product: All products excluding MY WOOD series

Is there any

Air Free film ??







PART 1 **Product Introduction**

04 KARIM COLLECTION

A Product Designed by World-Renowned Designer, Karim Rashid.

06 NATURE CRAFT

An exclusive abstract product, enabling pattern matching, by accomplishing the world's very first shrinkage ratio to "Zero".

07 HIGH GLOSS

Accomplished glossy effect of distinctive exterior, through the world's first high-gloss surface treatment.

08 ART LEATHER

By applying the world's first special manufacturing process, exhibited cushion sense of leather and diversified design.

09 EL REINA

With the basis of artistic design, exhibited special printing process and fashion metal effect.

10 LUXURY WOOD

By grafting fashion metal effect onto wood grain, manifested enhanced elaborate wood pattern.

By grafting visual dimensional effect on to wood grain, exhibited distinctive design effect.

111 DELUXE WOOD

Sense the natural pattern and texture, with design that manifests the most, appearance and texture expression of real wood.

111 MY W00D

Dimensional sense and texture expression of real wood is exquisite.

Demonstrated with diversified and elaborate tones, ranging from vivid to monotone color.

12 METAL

Exhibited more lavish and discreet gloss and colors than real metal.

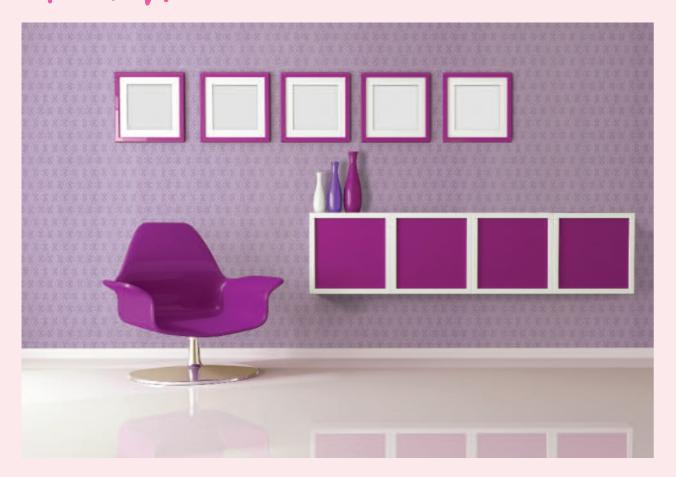
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PART 4 27 Application Examples

Illustrated marble and leather pattern, interior space may be applied easily in general.

PART 3 25 Certifications and Test Reports

KARIM COLLECTION



Design Collaboration with LG Hausys

'In all my work there is a notion of touching and communicating the day and age in which we live. Collaborating with LG Hausys afforded me the freedom and liberty to express ideas of the digital age, of experiential aesthetics, and of beauty and information as one into data driven patterns. My collection of graphic treatments and colors creates a landscape that is hypertextual, hypergraphic, hypertrophic, and energetic.'

- Karim Rashid





Karim Rashid

As a world-renowned industrial designer born in Cairo Egypt in 1960, he was well known as a leader of product design development throughout the world, with his one-of-a-kind design concepts and colors. He has worked with more than 400 companies throughout the world and participated in product design together with luxury brands including Sony, Prada, Kenzo and more revealing his true colors as an industrial designer.



NATURE CRAFT



An exclusive abstract product, enabling pattern matching, by accomplishing the world's very first shrinkage ratio to "Zero".

- Lush abstract design where pattern matching and horizontal stripe is feasible.
- Clean and neat wall covering finish by butt joint installation.
- Product structure preventing aging of adhesion.

Thickness	Width	Roll Length
0.4~0.5mm	1,220mm	30m



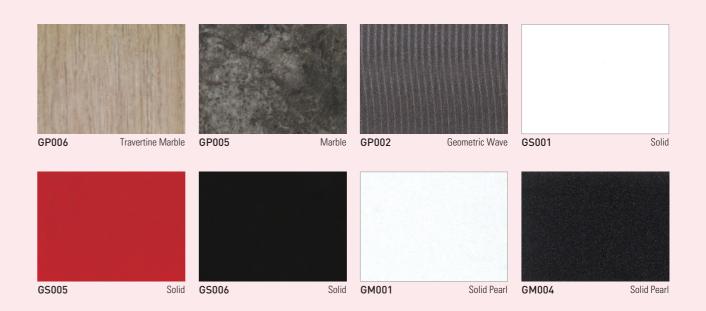
HIGH GLOSS



Fire retardant interior film accomplished by glossy effect with world's first high glossy surface treatment.

- Product design with the world's first high glossy surface treatment.
- Providing easy installation with optimal product thickness.
- Preventing surface scratches by protective film during installation.

Thickness	Thickness Width Roll Length	
0.2mm	1,220mm	30m



ART LEATHER



Stunning designed interior film with the world's first special manufacturing method.

- Providing the most authentic reproduction of leather textured cushion feeling.
- \bullet Excellent textured finish replacing the existing simple designs of leather pattern.
- Product structure preventing aging of adhesion.

Thickness	Width	Roll Length
0.7mm	1,220mm	25m



EL REINA



With the basis of artistic design, exhibited special printing process and fashion metal effect.

- A detailed artistic design and excellent surface texture effect with a special printing process.
- Maximizing sophisticated metal texture effect by a fashion metal processing method.
- Visual dimensional effect, with a special embossed printing process.

Thickness	Width	Roll Length
0.2mm	1,220mm	50m



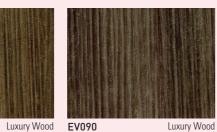
WOOD



Luxury Wood

By grafting fashion metal effect onto wood grain, manifested enhanced Elaborate wood pattern.

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Thickness

0.2mm



Roll Length

50m

Cubic Wood

EV079

By grafting visual dimensional effect onto wood grain, exhibited distinctive design effect.

Luxury Wood **EV080**

Thickness	Width	Roll Length
0.2mm	1,220mm	50m

Width

1,220mm











Deluxe Wood

Sense the natural pattern and texture, with design that manifest the most, exterior and texture expression of real wood.

Thickness	Width	Roll Length
0.2mm	1,220mm	50m









My Wood

Exquisite dimensional sense and texture expression of real wood.

Thickness	Width	Roll Length
0.2mm	1,220mm	50m









SOLID / METAL / ABSTRACT



Solid

Diversified and elaborate tones, ranging from vivid to monotone color.

Thickness	Width	Roll Length
0.2mm	1,220mm	50m

Metal

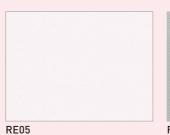
Lavish and discreet gloss and colors, compared to real metal.

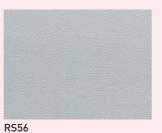
Thickness	Width	Roll Length
0.2mm	1,220mm	50m

Abstract

Marble and leather pattern, where interior space may be applied easily.

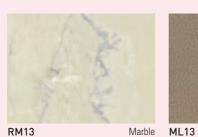
Thickness	Width	Roll Length
0.2mm	1,220mm	50m













Installation Manual

1. Physical and chemical properties

Property	Te	st Results	Test Method
Dimensional Stability		thin 0.8mm gth / Width)	Measuring a 100×100mm piece of film on a 150×150mm aluminium plate after 24 hours at 80℃
Temperature for adhesion	10	0°C ~ 30°C	Measuring ideal temperature range for best adhesion
Weather ability		No effect	Measuring colour change and fading after 200 hours on weather-O-meter with XENON ARC lamp
Abrasion	N	lo change	Measuring surface wearability by TABER abrasion tester. (abrasion wheel : CS-17, load : 1kg, cycle : 1,000)
Heat resistance	N	lo change	Measuring film adhesion to aluminium plae after 30days at $60^{\circ}\!\text{C}$
Moisture resistance	N	lo change	Testing film adhesion to aluminium plate after 30days at 40°C and 90% relative humidity.
Low temperature resistance	N	lo change	Testing film adhesion to aluminium plate after 15days at -30℃
Resistance to stains	N	lo change	Measuring stains caused by the following liquid solutions 24 hours later, after wiping out with wet cloth: salt solution (1%), ethanol (50%) olefin oil, orange juice, caustic soda (10%), soap solution, coffee, coke. milk, vinegar.
Resistance to chemical	Solution Heptane Ethyl Alcohol Water Salt solution(5%) MEK Xylene	Result No change No change No change No change Damaged Damaged	Measuring the level of damage after soaking film (on aluminium plate) in different chemical solutions for 48hours
Flammability	Self	extinguished	Measuring the flammability of film (on aluminium plate) All LG Hausys interior films have the function of fire retardant
Adhesion strength	Substrate	After primer coating(kg/in)	Measuring the adhesion strength of 25mm wide film applied
	Lauan veneer	2.5↑	on each substrate after 1days under ambient temperature (tensile speed : 300mm/min, 180° peel)
	Timber veneer	3.0↑	
	Gypsum board	0.5↑	
	Asbestos slate board	2.0↑	
	Melamine-baked steel sheet	3.0↑	
	Aluminium sheet	2.5↑	
	Stainless steel sheet	2.5↑	
	Acrylic board	2.5↑	
	MDF	2.0↑	

2. Preparation

Tools and materials



1 Primer (PM02, PM04) 2 Brush 3 Cleaning solvent (alcohol, white gasoline or lacquer thinner) 4 Lint 5 Plastic applicator 6 Steel ruler 7 Torch 8 Stanley knife (45° angle) 9 Needle or pin 10 Measuring tape 11 Hair dryer 12 Other: sandpaper, putty stick, sealer, masking tape, gloves

Cleaning and preparing substrate

Before installing the LG Hausys Interior Film, it is important to prepare the substrate surface and follow the specific instructions for each type of substrate, to ensure a high-quality, long lasting installation.

Substrate	Preparation method
General instructions	 For better adhesion and finish, scuff uneven surface with sandpaper or apply putty to make it flat. It is recommened to use a good adhesion, hard-type putty. In case you have to cover the whole surface with putty, sand it 2 to 3 times after dry to make it flat. In case you are only touching up patches, try to use putty of same colour of the substrate.
Wood products	A. Scuff the surface with sandpaper. B. Apply putty on uneven area and smooth with sandpaper. Clean surface with solvent. C. Coat with the designated primer 2 or 3 times allowing to dry after each coat. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Untreated steel, electro-galvanised steel	A. Remove rust and stain with sandpaper first and clean the surface with solvent. B. Apply putty on uneven area and smooth with sand paper. Wipe out with solvent. C. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Aluminium, stainless steel, painted steel	A. Abrade uneven and welded areas with sandpaper. B. Remove stain with solvent, apply putty on uneven and welded areas and smooth with sandpaper. C. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).

Substrate	Preparation method
PVC laminated steel	A. Check that the surface is in good condition to avoid low adhesion and bubbling. B. Remove stain with solvent and apply primer. C. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Painted substrate	A. Test paint type and condition for adhesion by pre-applying a small piece of film on the surface. B. Remove stain with solvent and make sure that the surface is not damaged. C. Apply putty on uneven areas and smooth with sandpaper. D. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Melamine laminates, polyester coated laminates	A. Abrade the surface with sandpaper and remove stain with solvent. B. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Plastic	A. Aviod substrates that contain any additives. Substrates such as flexible PVC, PP, Nylon and fluorine are espercially not recommended. B. Remove stain with solvent. C. Priming is not necessary. Adhere film straight away.
Mortar, limestone	A. Finish with steel trowel after joints are filled with joint material to prevent cracks. B. Allow it to dry for a minimum of 3 weeks. C. Remove stain with sandpaper or wire brush and clean the surface. D. Coat surface with sealer and apply putty over the whole area for better adhesion. E. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).
Gypsum board, calcium silicate board, asbestos slate	A. Fill voids with filler and apply putty after sealer coat. B. Abrade the surface with sandpaper and clean with solvent. C. Adhere film after complete primer dry for over 30minutes(PM02-Solvent type). Adhere film after complete primer dry for over 2hours(PM04-Water type).

3. Installation

Substrate conditioning, storage and handling

Substrate	Preparation method
Substrate conditioning	Temperature For unprimed surfaces to gain maximum adhesion. LG Hausys Interior Film should be installed to substrate with a temperature ranging between 10℃-30℃. If the substrate temperature is below 10℃, it should be heated by infra-red ray lamp, jet heater or hair dryer to ensure the correct temperature. If the recommended primer is used, it is possible to apply the film to substrate with a temperature of 10℃ and over. Once the film is adhered to substrate, press the film to the substrate while heating it with a dryer.
	Dust and contamination It is vital that the work area is free from dust particles, as should particles be trapped between substrate and film, they will show through the surface of the film. Ensuring that the work area is well it will assist in identifying any contamination or air bubbles in the surface.
	Safety The primer and substrate sealant are combustible and inflammable and should not be used or stored near heat, sparks or naked flames. Work areas should be well ventilated.
	Application table The work table or bench should be covered with corrugated paper or a blanket to ensure the interior film is not damaged.
Storage and handling	Precautions LG Hausys Interior Film should be stroed in a dry, cool, dark room. LG Hausys Interior Film has a shelf life of one year. Where possible when transporting LG Hausys Interior Film, it should be top loaded to avoid damage. Particular care should be taken in storage and handing in winter as the film can become hard and more susceptible to damage.

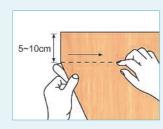
Procedure for installation on flat areas

Measuring and cutting



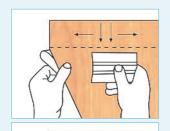
Lay the film on flat working table and measure the substrate. Always cut the film allowing for a 2~4cm over trim.

Positioning



Start positioning by placing the film on the substrate.
Peel back the release paper and fold it.
Gently press with your thumb to gain enough adhesion to hold the film in place.

Adhesion Step 1



To eliminate any air bubbles under the film start in the middle of the panel. With the plastic applicator apply pressure on the film to gain full adhesion. Start in the middle of the panel and work your way out to the sides of the panel in each direction.

Hold the plastic applicator at a 45° angle to the substrate making sure you work the applicator in one direction only.

Step 2



Pull back the release paper 300mm at a time. While pulling back the release paper, apply pressure with the plastic applicator working from the top to the bottom of the panel.

Step 3

Once the LG Hausys Interior Film is adhered, press the entire panel again with the plastic applicator working from the top of the panel to the edges. Particular attention should be paid to the edge of the panels.

Air bubble releasing

Finishing



If during installation air should be trapped behind the film causing a bubble, gently strip back the film and reapply with the plastic applicator.

Very small air bubbles can be released by pricking the bubble with a pin.

Press out the entrapped air by moving your trumb toward the puncture.

Any excess over trim should then be trimmed off with a Stanley knife.

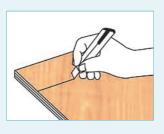
Procedure for installation on corners Internal corner treatment

Preparation



When LG Hausys Interior Film is applied to internal corners, firstly apply primer to the corner covering at least 50mm of each surface. This will ensure maximum adhesion.

Cutting and Positioning

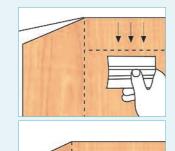


Follow the same method as for flat panels.

Adhesion







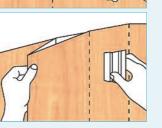
Apply the film from the widest section of the internal corner.

Using the applicator, apply pressure to ensure the film does not bubble or drop. Press and squeeze along the corner.

When the temperatuer is under 20°C, apply the film while heating it evenly. Do not over heat as this could cause the film to wrinkle.

Step 3





Once the film is installed into the first section of the corner gently life and pull the film and apply pressure to the remaining corner section.

Once installed, apply pressure to the entire section using the plastic applicator, especially the corner section.

Air bubble releasing and finishing



Follow the same procedure as for flat areas.

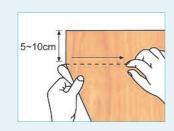
External corner treatment

Preparation, measuring and cutting



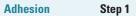
Follow the same procedure as detailed for internal corners.

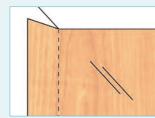
Trimming



Trim film to the desired width including the corner over trim.

Positioning

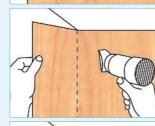




Apply the film from the width section bordering the external corner. Do not strip off the release paper of the narrower corner section.

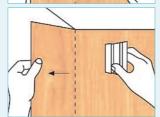
Follow the same procedure as for flat panels.

Step 2



Using the applicator, apply pressure to ensure the film does not bubble or drop. Press and squeeze along the corner. When the temperature is below 20°C, apply the film while heating it evenly. Do not over heat as this could cause the film to wrinkle.

Step 3



Using the same method as for flat panels, remove the release paper 200 to 300mm at a time.

Hold the film firm while applying pressure with the applicator.



Follow the same procedures as for flat areas.

Treatment for three-dimensional curved surfaces

Preparation



Once any bullnose or curved edges have been shaped and sanded, apply primer to the curved surface and reverse side.

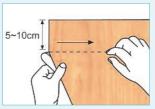
If the primer is easily adsorbed by the substrate, reapply the primer on the former has dried.

Measuring and cutting



Cut the film 100mm larger than the substrate size.

Positioning



Follow the same procedure as for flat surfaces.

Adhesion Step 1

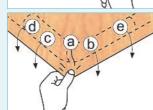


Apply the film on flat area first.

Gently heat the film that will be applied to the curved surfaces with a dryer.

After the film has softened, it is then wrapped by pulling the film gently around the curve.

Step 2



After the film is softened, hold the (a) part with the fingers and pull in the direction of the arrow. Follow by pulling the (b), (c), (d) and (e) parts working away from the corner. Ensure that enough pressure is applied to avoid any air bubbles or so that the film does not crumple.

Step 3



To prevent the edge of the film from peeling off and shrinking, ensure the film is covering 20 to 30mm of the reverse side of the panel.

Step 4



Cut off any excess of rolled up film with a Stanley knife. Apply pressure again to the entire panel, especially at the curved edge. To ensure the film does not shrink from the corner, apply a staple on the corner.

Air bubble releasing and finishing



Follow the same procedure as for flat areas.

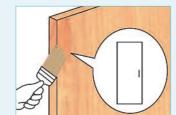
Procedure for installation on door surfaces

Flush panels and smooth doors

- LG Hausys Interior Film can be applied to doors either in the factory after manufacture or on the work site prior to the final installation of the door.
- The door frame should be installed and any fitting adjustments should be made prior to applying the LG Hausys Interior Film.
- LG Hausys Interior Film can be installed whilst the door is hanging.
- However, it is easier to remove the door from the frame and lay the door flat on a working table and apply the film whilst the door is horizontal.
- Remove any hardware such as locks handles etc and replace at the completion of work.

Preparation





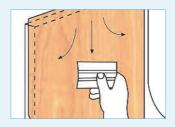
Remove any dust, oiliness or surface contaminants on the substrate with a lint free cloth and thinners.

Any surface imperfections should be removed with sandpaper.

Step 2

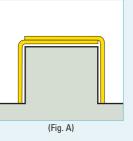
After cleaning the substrate, apply primer particularly to the top and edges of the door.

Adhesion



Install as per instructions for flat areas.

Flush panel



Apply the film by overlapping both sides on the joint at the top of the

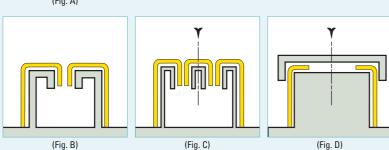


Fig. B

Apply primer to the substrae of the door frame using the applicator. Press in the film as firmly as possible with the plastic applicator to a depth of at least 5mm

Detach the center join by unscrewing the wood screw. This can be replaced after the film is installed. Using the applicator press in the film as firmly as possible to a depth of at least 5mm, similar to figure B.

Fig. D

Remove the casing from the top and then apply the film allowing for a 30mm overlap. Reinstall the casing once the film is installed.

Procedure for installation on partition walls

LG Hausys Interior Film can be applied to partitions either in the factory after manufacture or on the work site prior to the final installation of the partition.

Remove any dust, oiliness or surface contaminants on the substrate with a **Preparation** lint-free cloth and thinners. Any surface imperfections should be removed with sandpaper. **Priming** Apply primer to the dege, joins and overlapped part of the film Installation If the film is being installed at the work site, install as detailed in figure A and B. Fig. A To ensure a good quality join finish, apply th film by overlapping at the partition It is important that the film is well adhered to the top section of the partition so Fig. B that it does not peel off. Ensure that at least 10mm of film is adhered to the top of the partition.

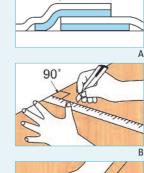
Procedure for butt joining method

Adhesion

Conditioning

Cutting

Factory installation

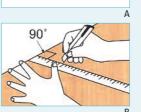


When butt joining, LG Hausys Interior Film leave 50mm of the release paper on the back of the film.

If the film has already been applied at the factory, prior to delivery to the work

site, simply install the partition as per figure C and D.

Leave a minimum of 30mm over trim on both sides of the join so that they can be overlapped.



To minimize any shrinkage at the joint, leave the LG Hausys Interior Film for 24hours before cutting back the over trim.

Place a ruler on thr center of the joint. Carefully slice through both pieces of the film. The knife blade should be at right angles to the film.

Dust remova



Remove the cut fragment of the film. Also remove any dust from the surface of the substrate.

Strip off the release paper as per figure C.

Release paper removal



Once both edges of the film are butt together, press into place with the tip of

Finishing



Once satisfied with the quality of the butt joint, press down with the plastic applicator.

Installation procedure for walls

1. Application on space left joint

Characteristics

- A. Prior or installation of the LG Hausys Interior Film check the roll for damage.
- B. It is also important to check the rolls for colour match prior to installation.
- C. It is also important to install the film with any patterns, embossing or textures running in the same direction.

o. No doc important to motion and minimum, patterno, embosing of tentance terming in the came disorder.				
Item		Requireme	nts	
Calcium silicate insulator or flexible board	Fig. A	ensuring all cut edges art smo	nsulator or flexible boards, cut with a panel saw both. eep by 6mm wide gap between the panels.	
Gymsum plaster board	Fig. B		ten at the joins as detailed in figure B. Into the edges of the plaster or gypsum board. Inails are sealed with putty.	
Mortar		el trowel or spatula as per figure	alls should be smooth and free from defects. mooth es C, D and E.	
	Fig. C	Fig. D	Fig. E	

2. Flat joining application

It is important to overlap the film at joins.

$\label{lem:continuous} \textbf{Joining specifications}$

Overlapping is important as substrates such as flexible board and gypsum plaster can expand and contract. Overlapping at the joins will ensure that the joins are less noticeable should panels contract.

3. Installation for narrow joins

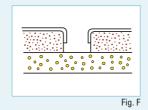
If the joint between panels is under 4mm, the following installation method should be used.

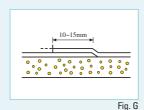
$\label{lem:continuous} \mbox{ Joining specifications }$

As it is difficult to gain a neat narrow join, it is advisable to install a joiner or moulding over the joint.

4. Overlapping join applications

A simple method of joining is to overlap the film 10~15mm, applying primer to the lower film.





<u>Installation precautions for Dynamic Metal series</u>

- Ensure ambient room temperature is above 12℃.
- 2. Take care to apply the film only once as repeated repositioning of the film can cause delamination.
- 3. Avoid installation to three-dimensional curved surface as strerching of the film can cause colour and pattern variation.
- 4. The surface of the substrate must be clean and smooth as any imperfections in the substrate may show through the high gloss metallic surface.
- 5. Wrap the plastic applicator in a lint-free cloth so that it does not scratch the surface.

■ Physical properties

Dynamic Metal film is prouced using advanced quality control, however there may be some colour variation between production batches. Prior to installation, ensure that the colour of the substrate does not effect the colour of the film.

Ensure the substrate is clean and smooth so that imperfections do not show through the finished prodect.

Substrate preparation

Substrate	Wood, Veneer, Hard board	Gymsum board, Calcium Silicate board, Asbestos Plate	Overlapped Chlorinated Copper Plate	Mortar	Painted steel	Aluminum, Stainless steel
Surface preparation	Punch nails		Ensure walls are dry	Remove rust		
Sealer coating	-	-	Sealer	Sealer	-	
Application putty	EP putty, Moisture resistant putty, Cross putty		EP putty, Moisture Resistant putty, Cross putty, Board putty	Polyester putty, EP putty		
Surface grinding		Sand paper		1) Uneven, welded area-grinder 2) Flat area-sandpaper		
Surface Cleaning	Brush, Alcohol, thinner					
Primer Coating	(PM02-Solvent type) Dilute primer and thinner by 1:1 on overall. Use undiluted primer on edge. Adhere film after complete primer dry for over 30minutes.		(PM04-Water type) Dilute primer and water by 1:1 on overall. Use undiluted primer on edge. Adhere film after complete primer dry for over 2hours.			

Other installation precautions

When two sheets of film are applied by overlapping

Item	Requirements
Priming	Apply the primer (PM-04) on lower film and overlap the top film after a complete dry.
Embossed patterns	It is not possible to join embossed by dynamic patterns using the overlapping method. Please contact your disitributor for further information.

Substrate sheet sizes

ltem	Requirements
Board sizes	Where possible avoid horizontal joins in the substrate and using large sheet sizes that suit the ceiling height. If it is necessary to join substrate panels, alternate the horizonal joint at the top and bottom as per detail.
Substrate movement	To help eliminate movement in the substrate and cracking of fillers or putty, ensure the joins are well nailed.

Direction of colour design and embossing

The embossing has a delicate directional pattern.

Take care to install panels in the same direction, as if they are installed in opposite directions this can give the appearance of colour variation.

Primer application

When applying the primer to installed walls, apply it to prime alternated panels so that overlapping film does not become adhered to adjoining panels prior to being installed into the joins.

Things to be aware of during Interior Film application

Before applying

- I Do not forget to check out the type and condition of material (MDF, etc.) to attach films to so as to identify any parts that might cause a problem.
- In the case of MDF, a different density might cause incoherent adhesive strength and printing resistance performance. It is necessary to use MDFs with consistent density.
- It is necessary to use alcohol to remove pollutants from the surface to be sprayed, and check if there is any damage to the sprayed face due to solvents. If it has an uneven surface, you can apply putty then finish with sandpaper. Use a dust brush to remove foreign substances.
- In case of steel plates, remove any surface pollutants first with alcohol, lacquer or thinners. For an uneven surface, apply putty, then finish with sandpaper. Use a dust brush to remove foreign substances.
- Do not forget to carry out a prior inspection for any problems (pattern name, appearance, etc.) for products selected by customers.
- Film application should be done after woodwork and before painting or wallpaper hanging.

2 Prior task for Surface

- It is necessary to finishing thoroughly with sandpaper for cross section parts which are to have film applied (MDF etc.).
- In particular, if the material is wood (MDF, PB, etc.), the smoothness of an edge or crevice is very important. Therefore you should finish the part with sandpaper or with pate treatment before proceeding any further.

3 Primer Treatment

During primer treatment, a cross section of wood (MDF, PB, etc.) tends to absorb more primer than other parts. Thus, spray at least 2 or 3 coats of primer. Once primer is applied, the next treatment should start when the previous primer has completely dried.

4 How to apply

- Make sure to hide the cross section of the cut-out film as much as possible.
- I Try not to show the substrate to be applied with film.
- I It is possible there may be some color difference between product lots, so it is necessary to classify lots.
- When surface treated product is overlapped with another product, you should spray undiluted PM04 solution, an exclusive water-type primer for LG Hausys Interior Film then proceed after it has completely dried.
- In particular, be careful with El REINA (EL, EP), WOOD (DP, RW, MXA, NE), SOLID (RB, RS) patterns.

Things to be aware of when applying specific products

NATURE CRAFT

- I Requires Butt Joint-style application. Butt overlap application may exfoliate on the overlapping part due to embossing or surface treatment layer.
- It is not available for curved area application as its special multi-layer structure could make exfoliation or surface crease with application of heat on the surface.
- I When cutting and applying the product, it is necessary to consider how to connect patterns. If you cut the film by the printed markings on the release paper, it is impossible to match the patterns on different films.

HIGH GLOSS

- I To fully achieve gloss effect of the film surface, you should work in a clean environment.
- If there are some foreign substances such as dust and dirt on the substrate to apply film (MDF, etc.) and the film's adhesive side during application, the film surface could be marred or damaged.
- As the product is hard, it is necessary to pay more attention to finishing to ensure no loose edges by applying more strength to obtain visually pleasing finish.

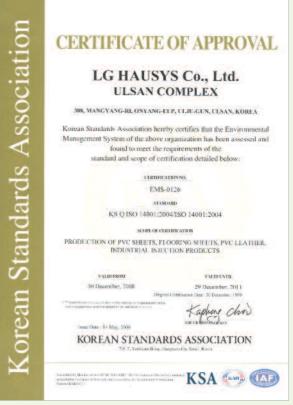
6 Others to note

- I If you intend to apply film to a substrate not covered in the specifications regarding application methods and materials (MDF, etc.), please contact the LG HAUSYS or the dealer to check application possibility.
- I You should follow the guidelines on the specifications to apply films.
- I When film is applied, it is necessary to use the exclusive primer for LG Hausys Interior Film.
- PM02 (Solvent primer), PM04 (Water primer)

Certifications and Test Reports



ISO 9001



ISO 14001



KOSHA 18001



TBK-272



ASTM E84



Lloyd Certificate 1



American Flame Retardant Certification UL-723



Lloyd Certificate 2

Application Examples



LG Hausys self-adhesive interior film provides simple and easy installation compared to existing surface finished materials. As a differentiated exterior design, it can represent a creative and unique space.

Application area: Multi-use facility including Government and Public Office, bank, hotel, hospital and surface finish of wall, door, art wall, ceiling, molding for interior building of office, apartment etc.









Application Examples

Government and Public Office / Financial Institution



Hospital









University















Office Space



Department Store / Outlet Mall









Lobby and Elevator

















Application Examples

Restaurant / Hotel









Wedding hall









Apartment / church









Others















