

A Part of

All Print Supplies



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2023년 출시 신제품입니다.

This is a new product to be released in 2023.

△ 이미지에 적용된 컬러입니다.

The color is applied to the photographic image.

해당 컬러는 샘플북 맨 뒤 시공 유의사항을 반드시 지켜주세요. Be sure to follow the application instructions at the back of the sample book for the relevant color.

# **BENIF**

당신이 바라던 공간에 대한 모든 것, Benif에 있습니다.

Everything you could ever long for in a space, BENIF has.

#### Recommendation

#### Dual Fig

빛의 각도에 따라 때론 우아하게, 때론 유니크하게. 공간에 새로움을 더합니다.

Depending upon the angle of light, sometimes elegantly and sometimes uniquely. Increase novelty to the space.



DP002



DP005



NV003



NV002









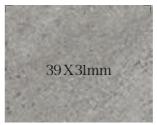




SM015 SM016

08







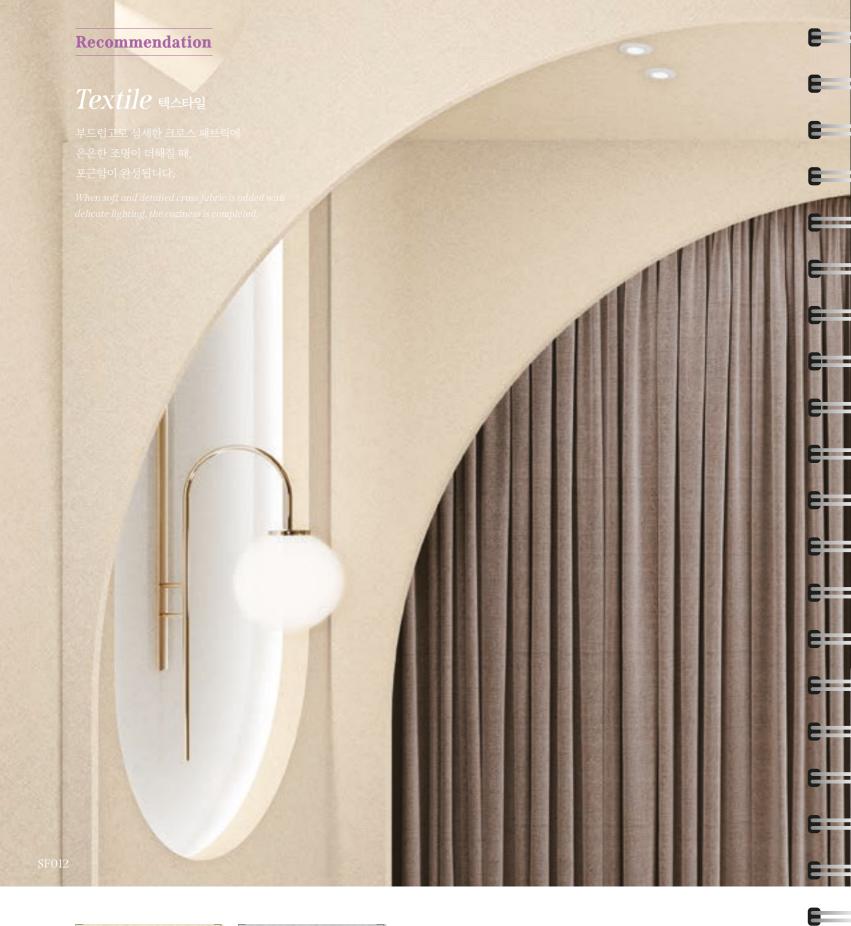
BM015

Big Granite

BM019

Big Granite

**SP^CE** 







※ 상기 이미지 안의 제품 패턴과 색상은 실제 제품과 차이가 있을 수 있음을 알려드립니다.







 $\label{eq:weighted} \mbox{\% We notice that pattern and color of the product in the above image might differ from the actual product.}$ 

**SP^CE** 





<sup>※</sup> 제품이 보는 방향에 따라 색상이 다르게 보이므로 정확한 색상 확인을 원하실 경우, 구매 전실제 제품을 확인해 보세요.

<sup>\*\*</sup> The product's color can appear different depending on the viewing angle, so it is recommended to check the actual product before purchasing if you want to confirm its accurate color.





# Misty noel

내추럴한 표면 위에 화이트 도장을 한 듯 부드럽고 화사한 분위기를 선사합니다.

Make a present of soft and fluorescent mood as if white paint was applied on a natural surface.









**S**M005





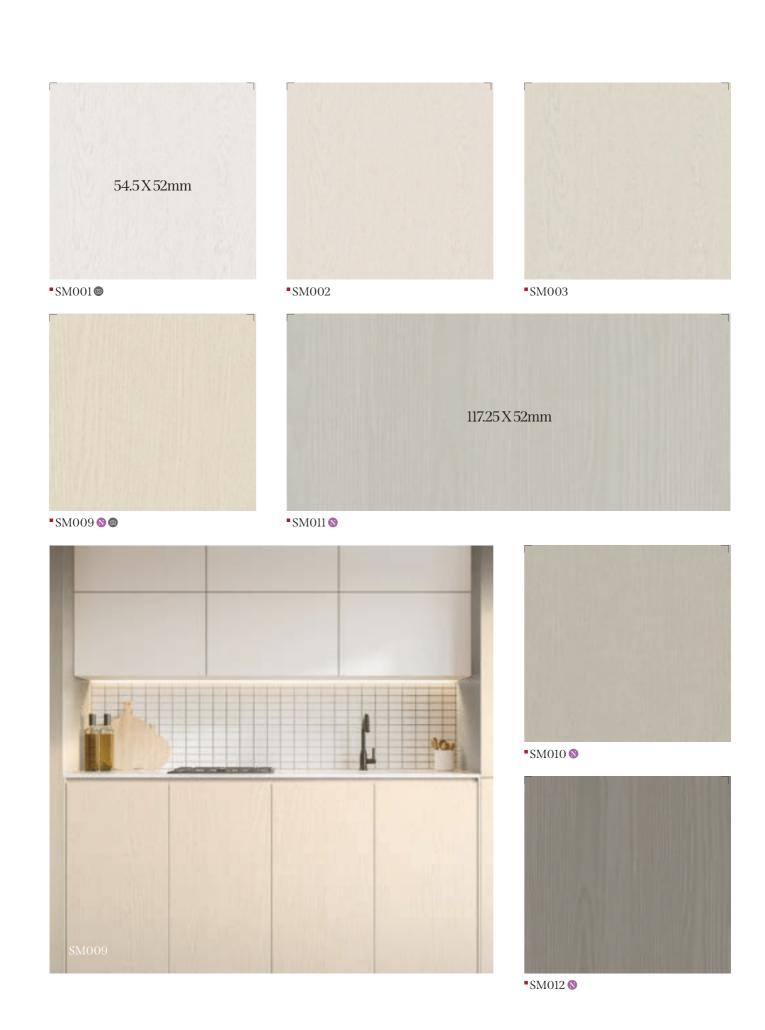
**SM**006



■SM016 🕲



**■**SM014 **◎ ◎** 



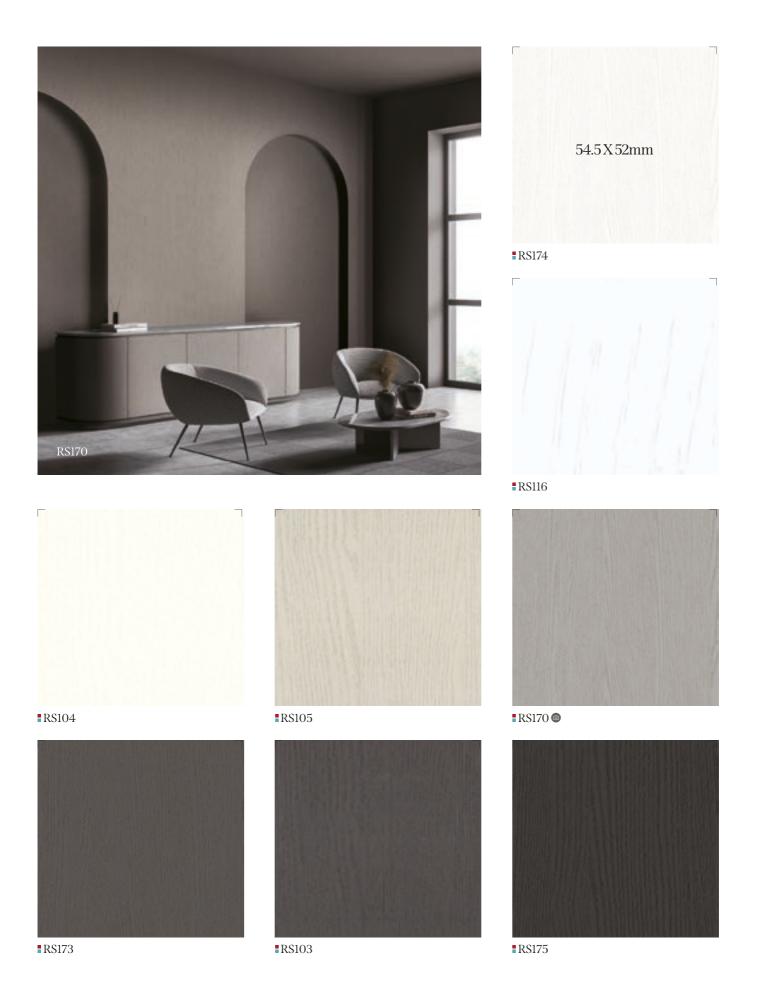


# Emboss 엠보스

은은하게 반사되는 텍스처와 다채로운 색감이 만나 온기를 더합니다. The delicately reflective texture and colorful colors increase warmth.

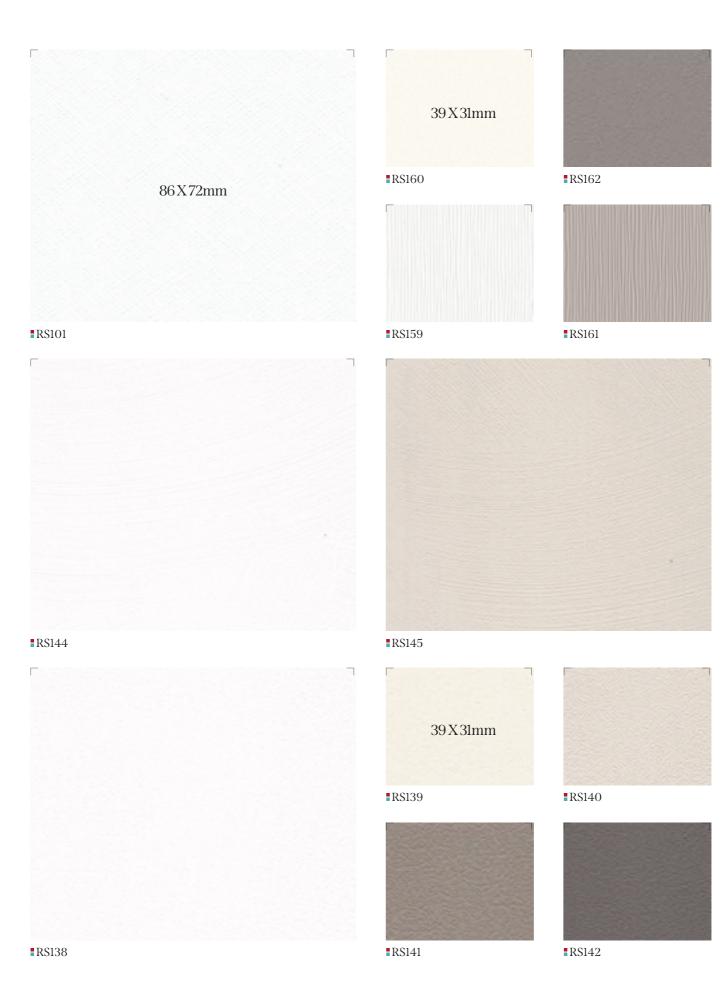


### Emboss 엠보스



20





# Emboss 엠보스







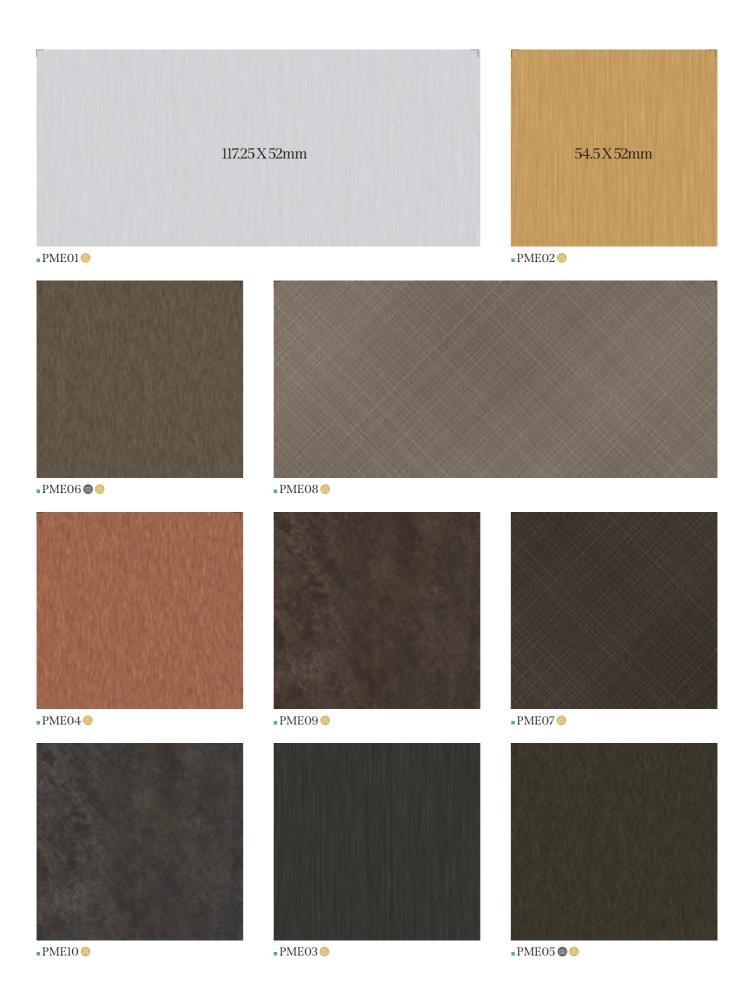


# Solid 솔리드

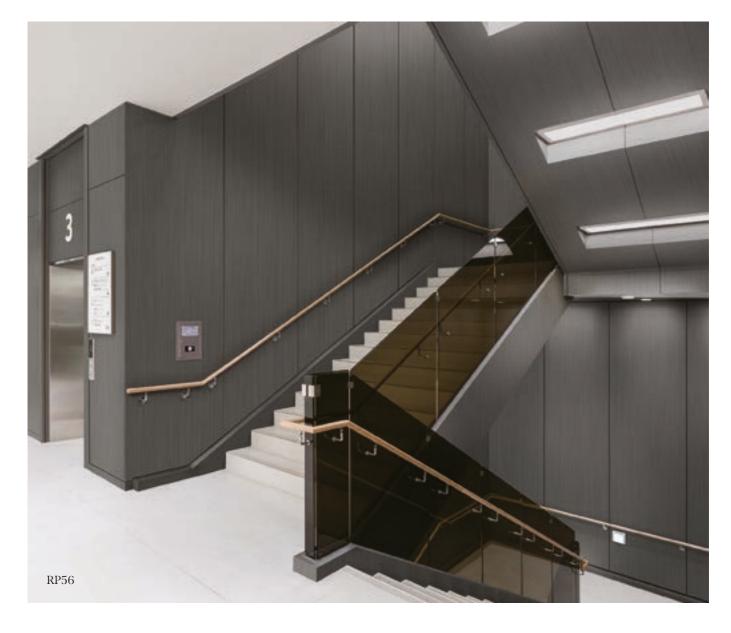


39 X 20 mmRS179 🚳 RS70 RS171 RS71 RS57 RS49 RS92 RS40 RS176 RS35 RS68 **■**RS48 RS47 RS46 RS100 RS168 RS135 RS52 RS51 RS136 RS122 RS128 RS158 RS22 RS58 RS88 RS120 RS127 RE03 RS123 RS87 RS31





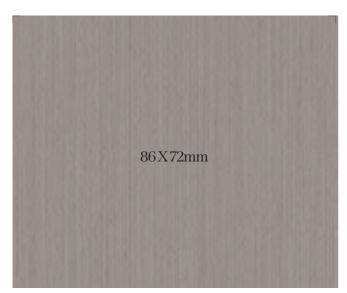
# Metal **M**E





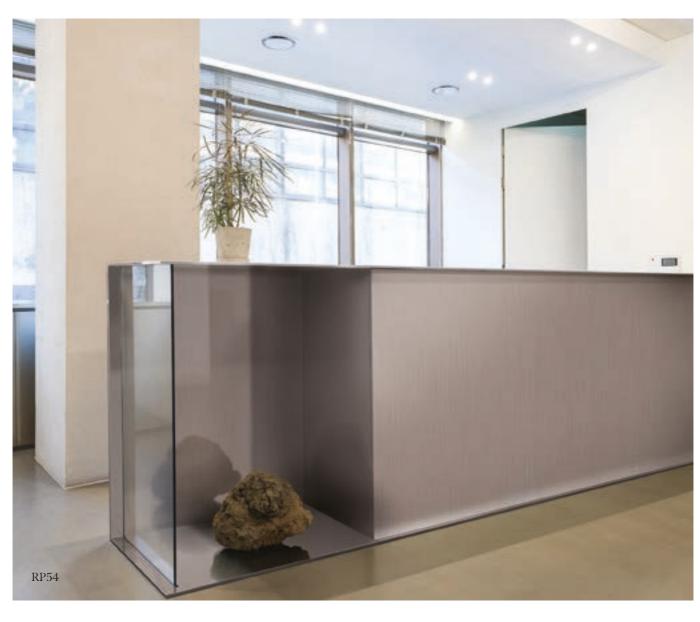


28





**■** RP54 **№ ◎** 



**SP^CE** 

### Metal ml

 $\Gamma$ 54.5 X 52mm MS21 RP47 ■MS18 **MS**09 RP48 **₽**RP06

RP47 @

RP52

RP45











■PW142 **③ △** 

# Classic Wood 클래식 우드

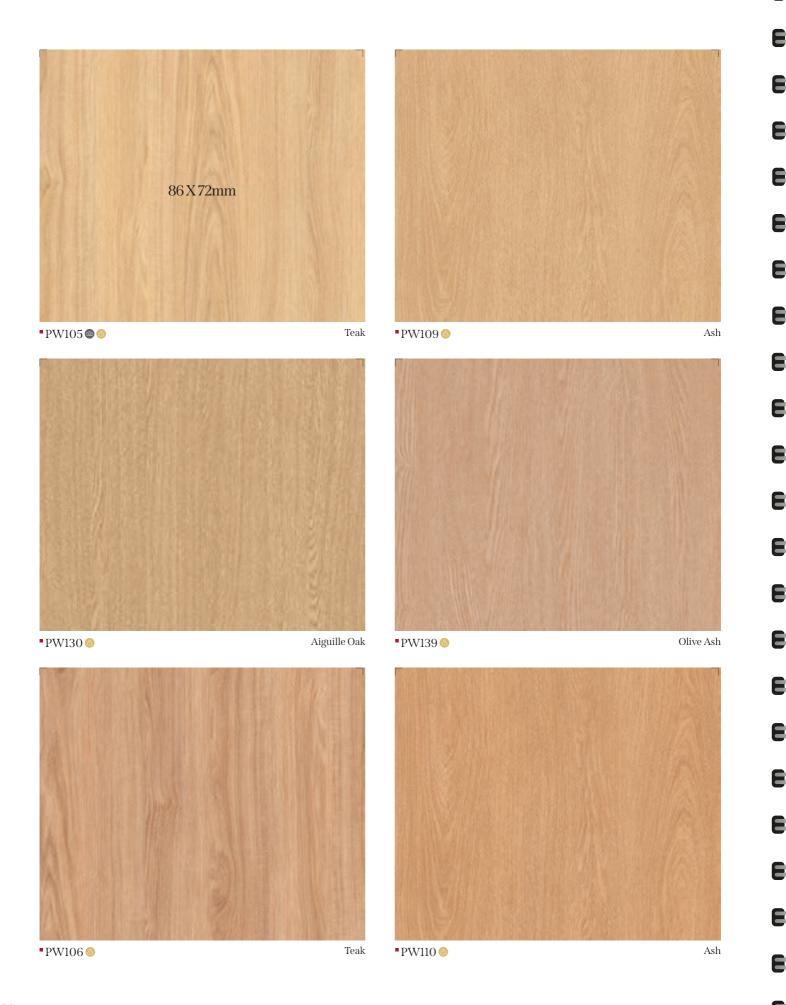








#### Classic Wood 클래식 우드

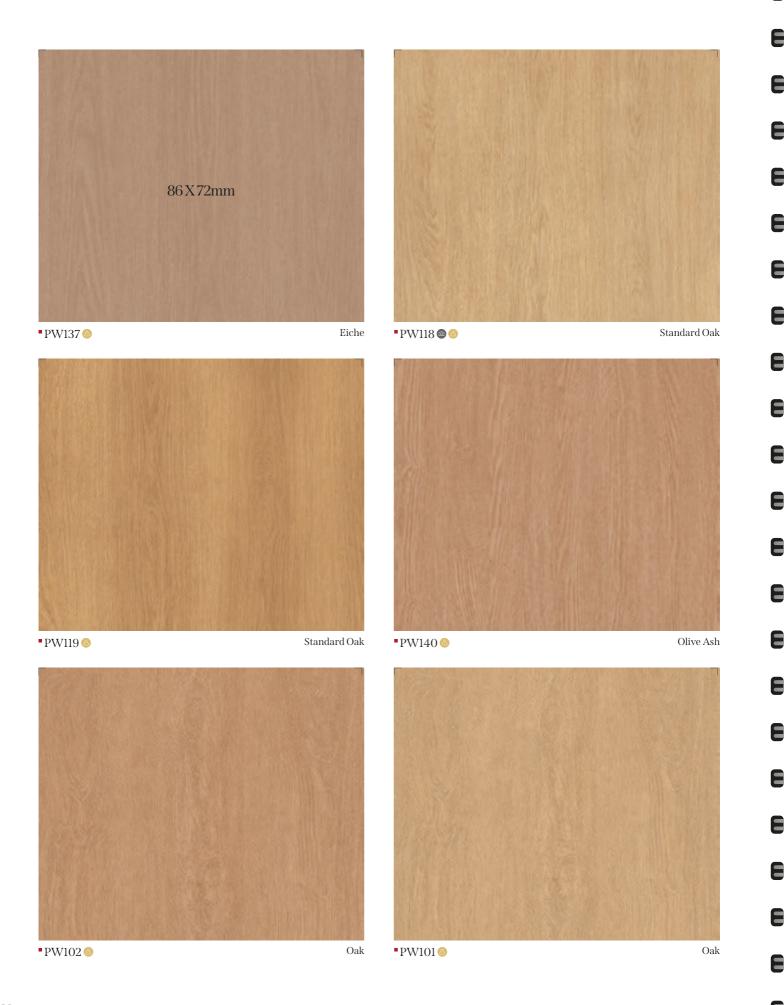








## Classic Wood 클래식 우드







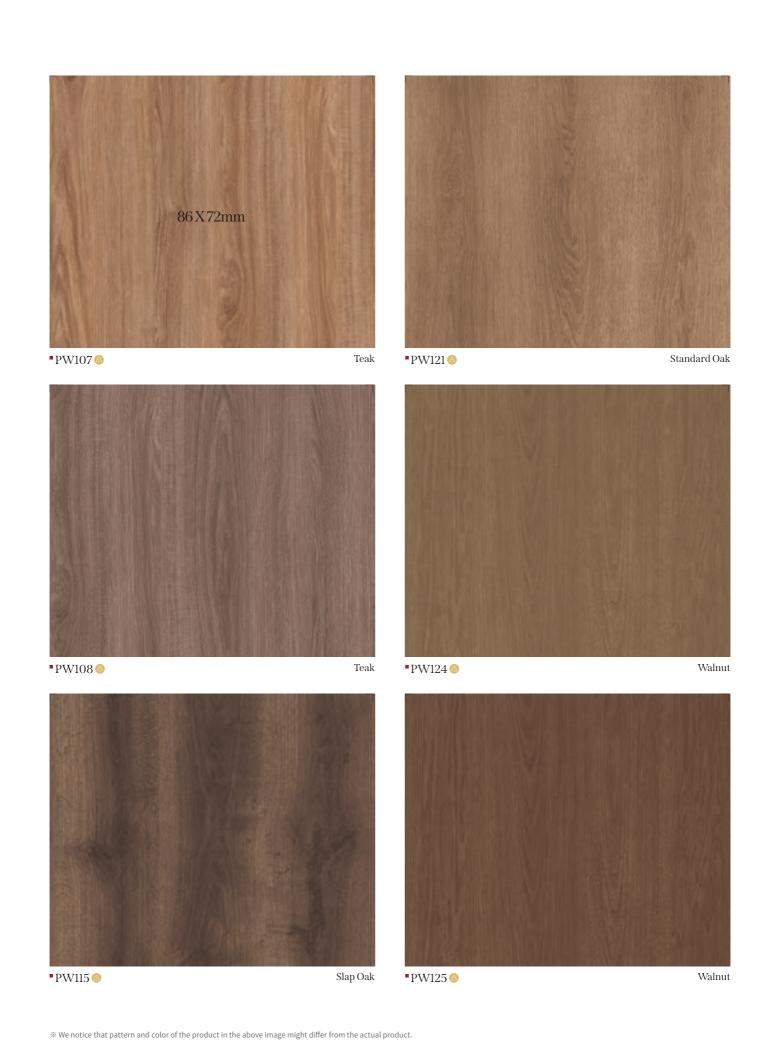


## Classic Wood 클래식 우드

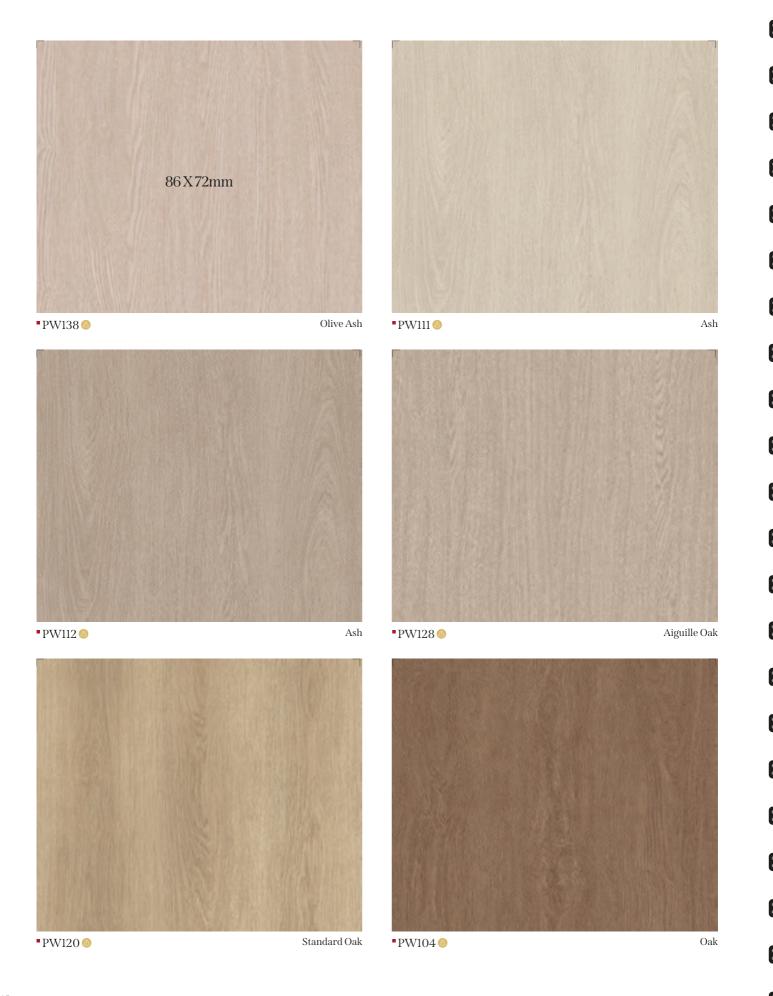








## Classic Wood 클래식 우드









■PW122 <sup>(a)</sup> Standard Oak

**SP^CE** 





■BW020 
Walnut



■BW021 🛇 🗐 Walnut





BW023 S Walnut BW022 S Walnut

# $Big\ Wood$ খণ্ড





■BW016 

Teak





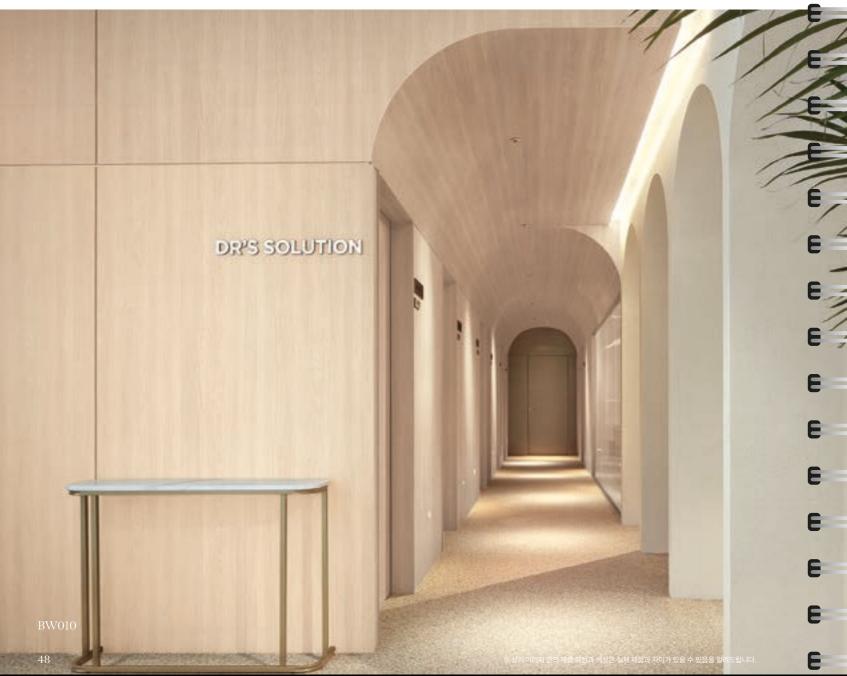


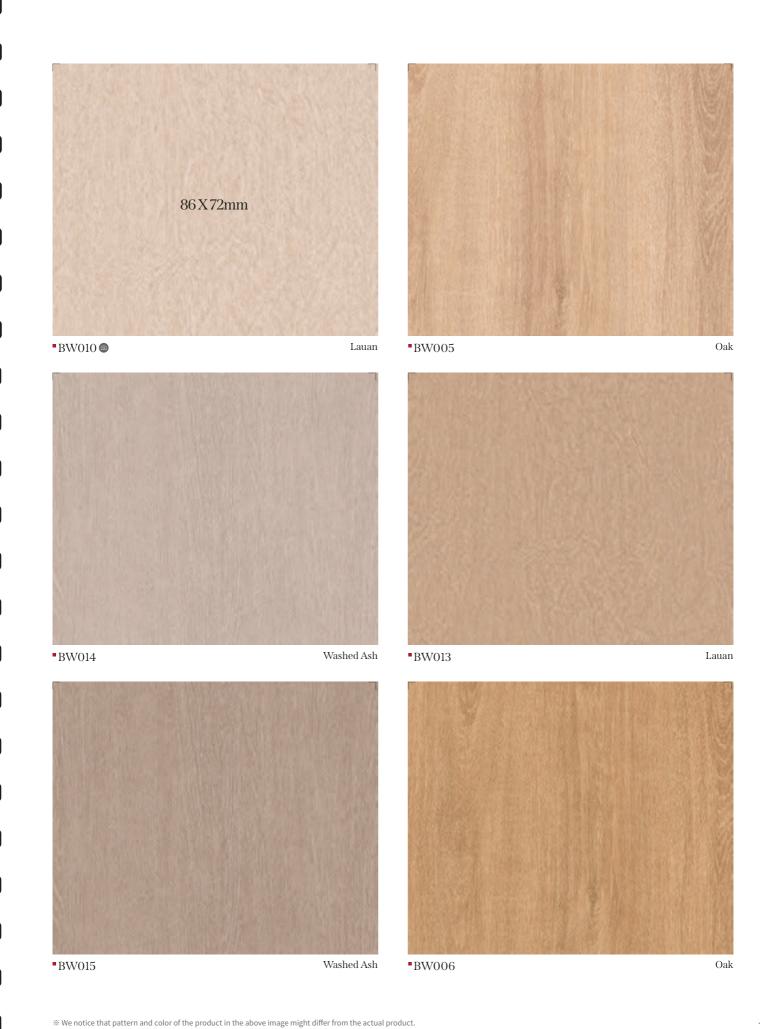
■BW018 🔕

# $Big\ Wood$ খণ্ড





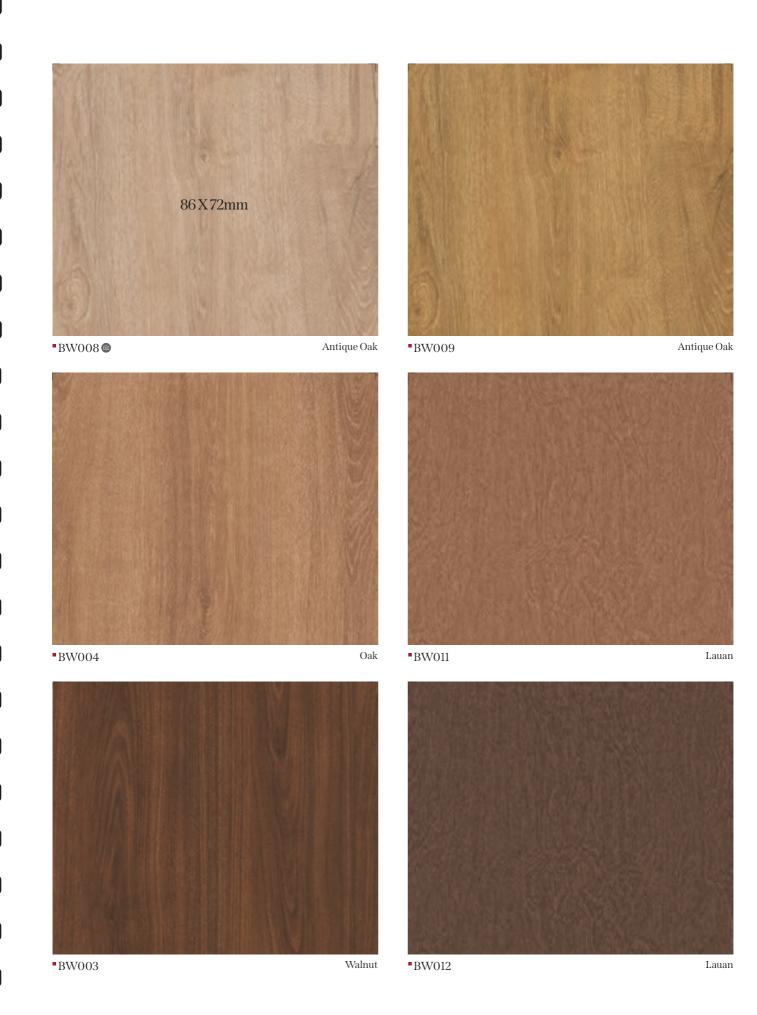








BW002 Walnut



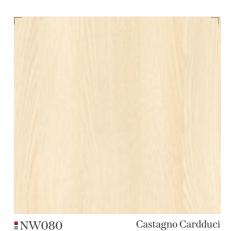
#### Premium Wood 프리미엄 우드

깊이 있고 자연스러운 나뭇결을 있는 그대로 고스란히 담습니다.

 ${\it Put the deep and natural wood grain into itself as it is.}$ 





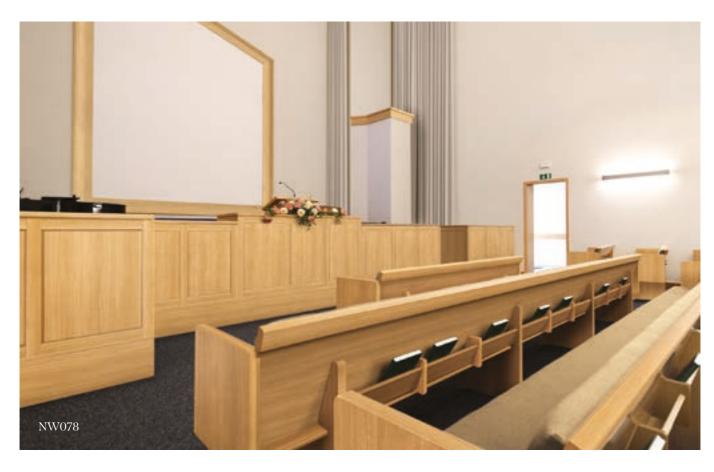
















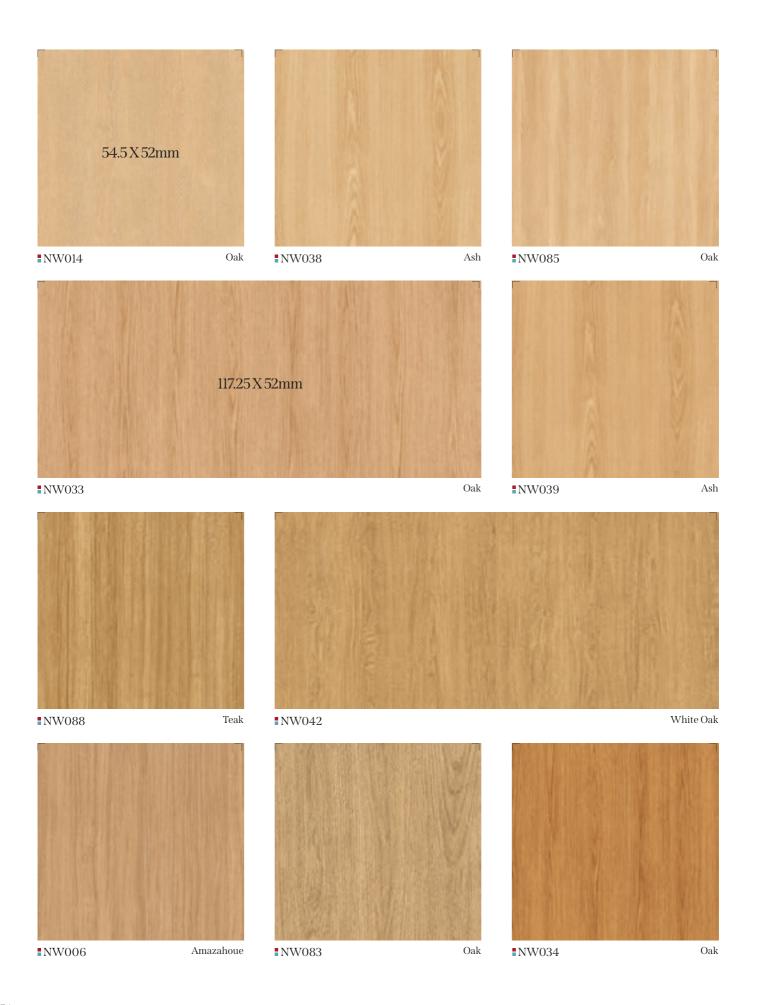








#### Premium Wood 프리미엄 우드

















#### Premium Wood 프리미엄 우드







Walnut ■NW045

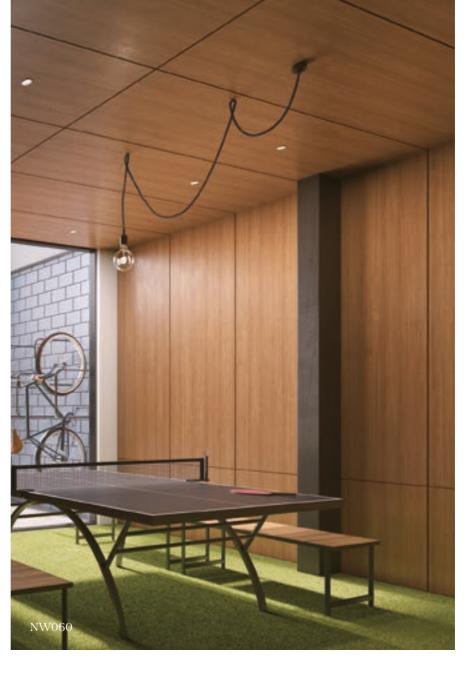


**■**NW007 Amazahoue











\*NW008 Amazahoue









NW104 @









\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

## Premium Wood ভ্রাণার প্র













NW101 Walnut



■NW092 Line Teak







\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

## Premium Wood 프리미엄 우드







Brushed Oak **■**NW119



Washed Oak NW120



Brushed Oak NW117



NW122



Washed Oak NW121



■NW123

Washed Oak

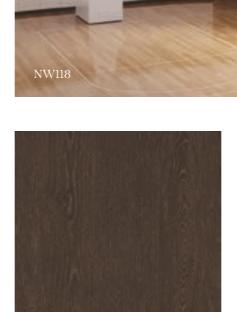


NW118 @

Brushed Oak



NW015



NW017





 $\label{eq:weight} \mbox{\% We notice that pattern and color of the product in the above image might differ from the actual product.}$ 

NW068 Padouk



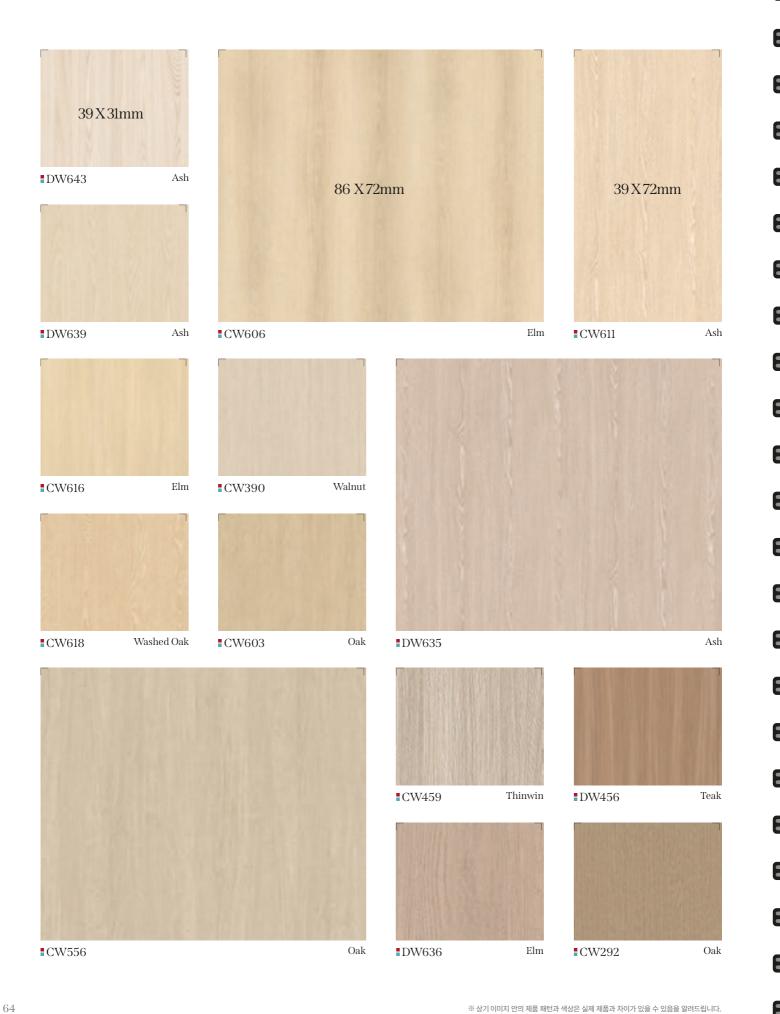


Oak





# Wood ≈=











Walnut **€**CW466



**CW407** 



Wizard Grain



DW467

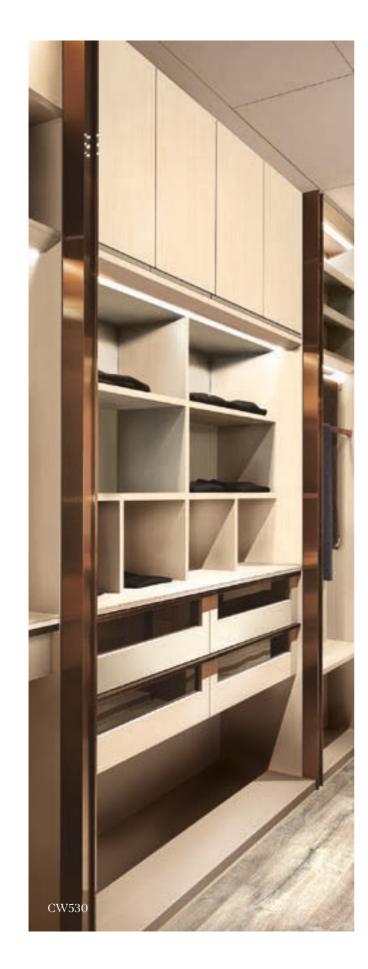
Walnut



Oak **€**CW624

\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

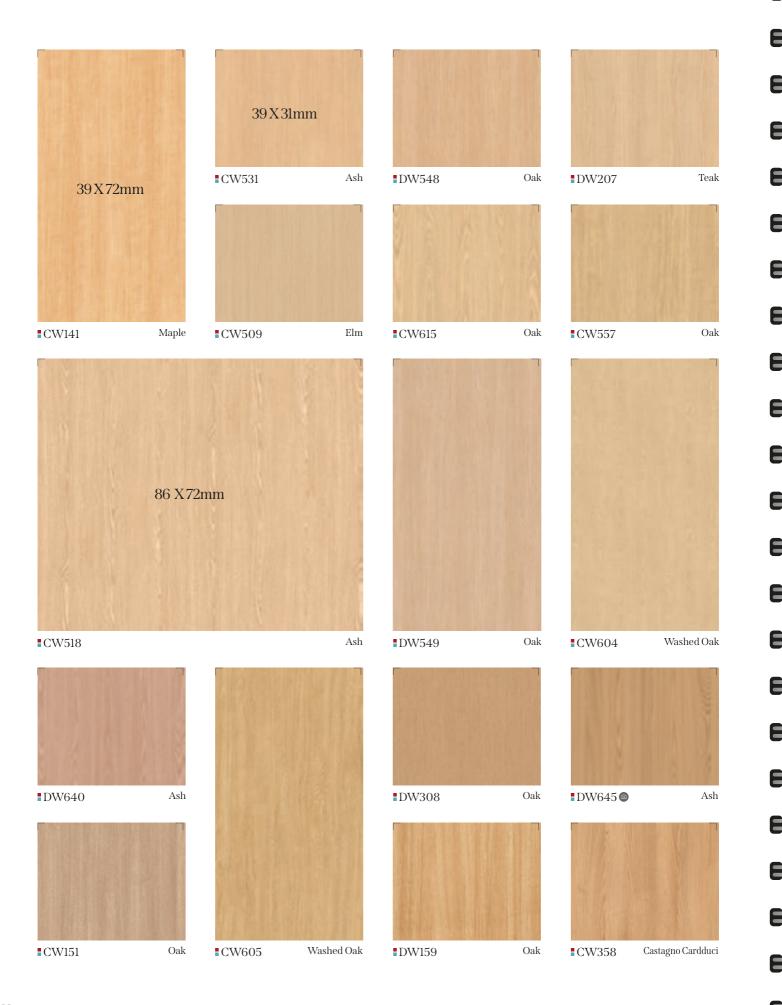
# Wood 95







# Wood ≈=













\* We notice that pattern and color of the product in the above image might differ from the actual product

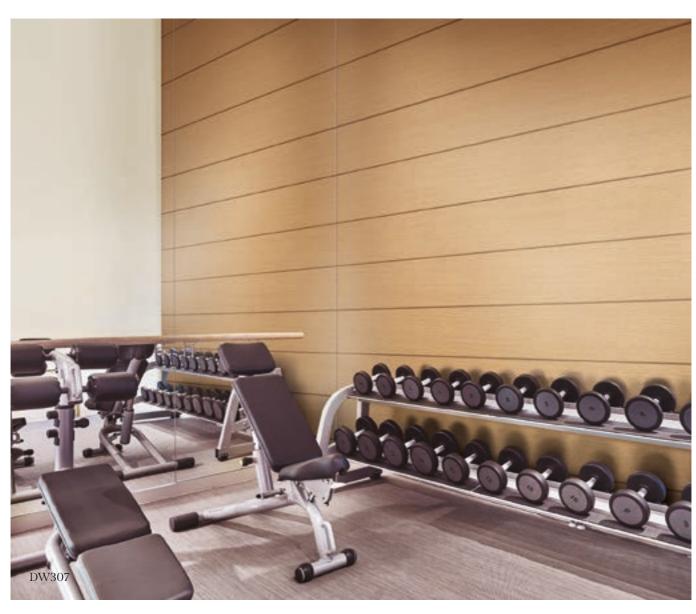
**■**CWAC1

Oak

# Wood 95



















\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

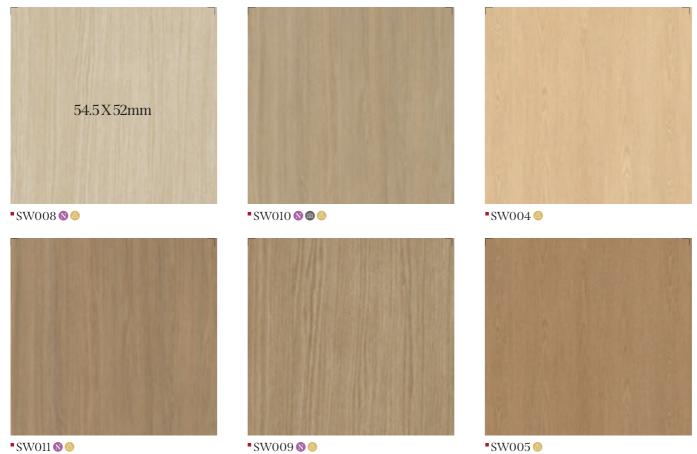






# Wood 95



















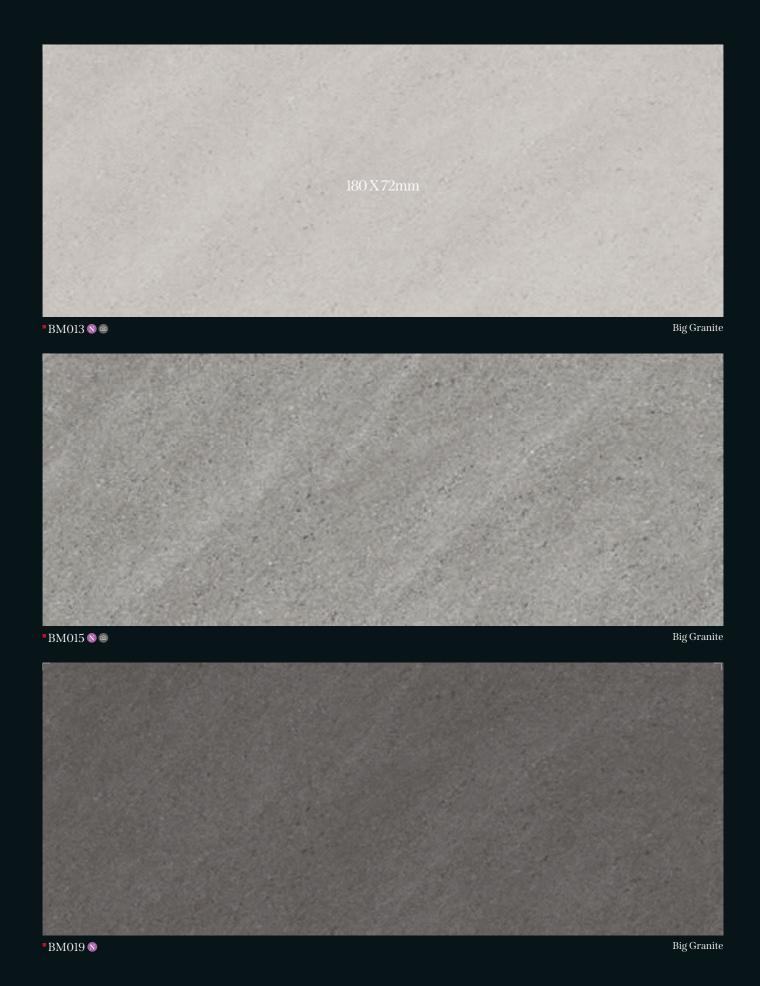
\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

# Big Stone ৬ এছ

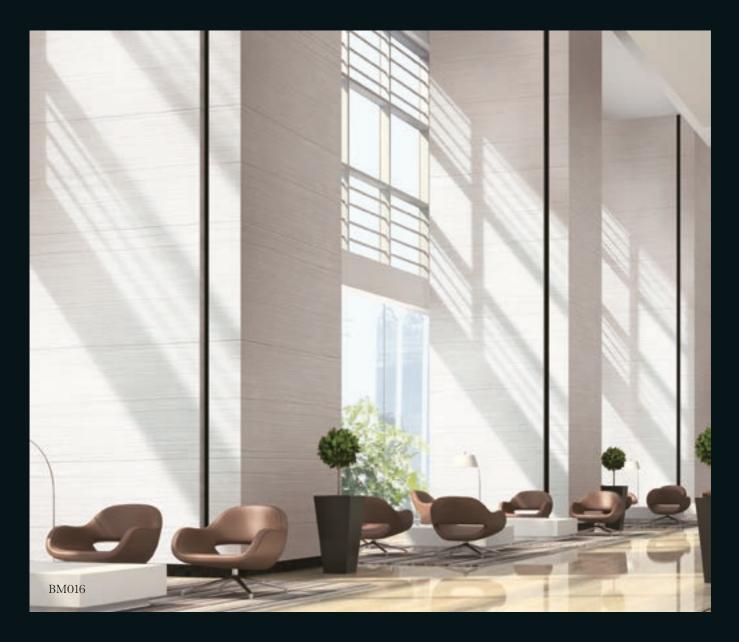
빅 슬랩의 웅장한 마블링과 곧게 뻗은 크랙의 숨결을 느껴보세요.

Feel the majestic marbling of the big slab and the breath of straight cracks.



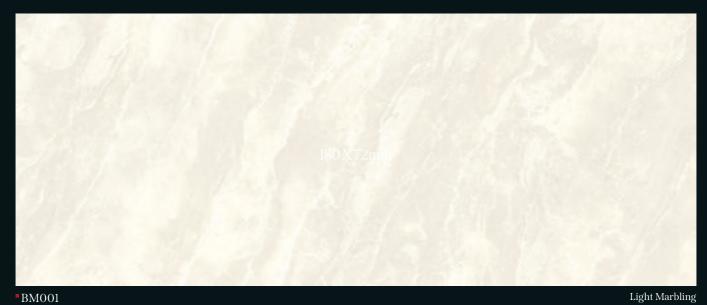


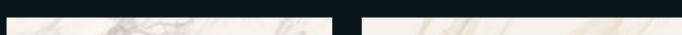
# Big Stone ੫스톤



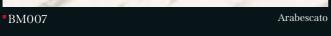








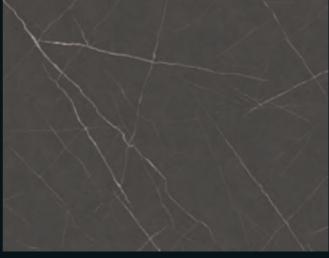






**B**M008





**B**M006 Marquina



# Big Stone ॥ 🎩



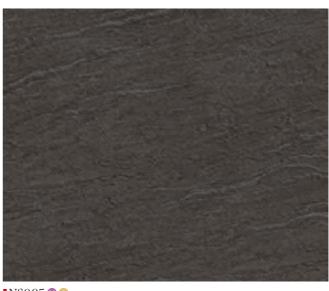
# Stone 4.

부드럽고 섬세한 컬러 위에 스톤의 느낌을 살린 터치감을 경험하세요.

 $\label{prop:equation:experience} \textit{Experience the touch feeling of stone on top of soft and detailed colors.}$ 







"NS005 🛇 🚳

\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

# Stone 4.



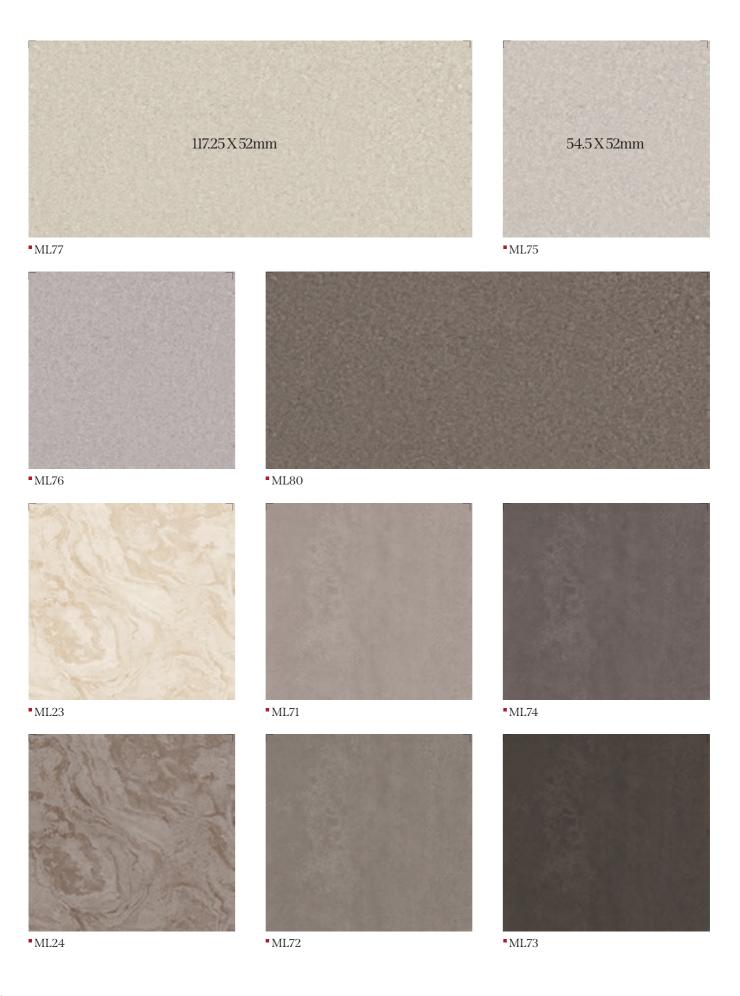








# Stone 4.



### Stucco 스타코

아트페인팅의 살아있는 터치감이 세련되고 고급스러운 분위기를 연출합니다.

 $The \ alive \ touch \ of \ art \ painting \ creates \ a \ refined \ and \ luxurious \ mood.$ 





■MLS03 🔕



■MLS01 **③** 



■MLS06 🚳



**SP^CE** 



"MLS02 **№ ⑤** 



■MLS04 **③** 

# Concrete / Mortar 콘크리트 / 모르타르

가공되지 않은 거친 질감과 시크함으로 나만의 앤틱한 공간을 연출해 보세요.

Create your own antique space with unfashioned texture and chic.







■ML92 **③** 

■ML93 🕲 🚳

■ML94 🚳













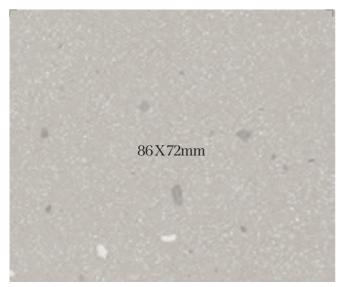


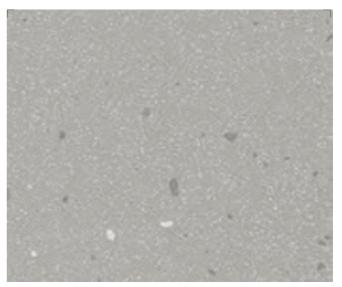
\*\* We notice that pattern and color of the product in the above image might differ from the actual product.

# Marble 마블

고급스러운 유럽풍의 대리석이 선사하는 아름다움과 깨끗함을 느껴보세요.

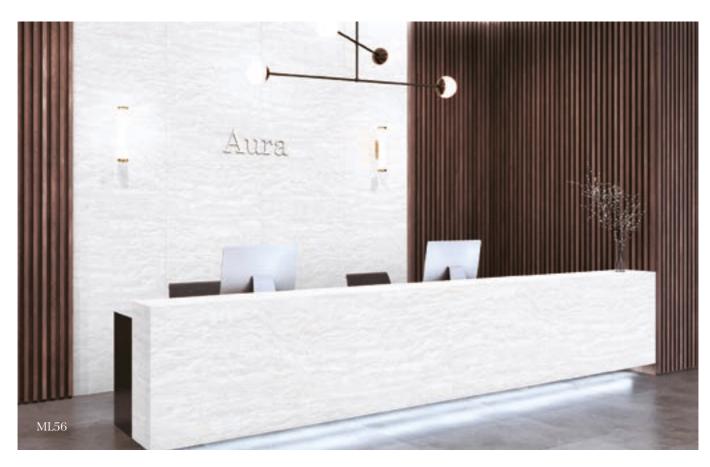
 ${\it Feel the beauty and clean liness of luxurious European-style marble}.$ 





"ML95 № @









■ML67







■ML58

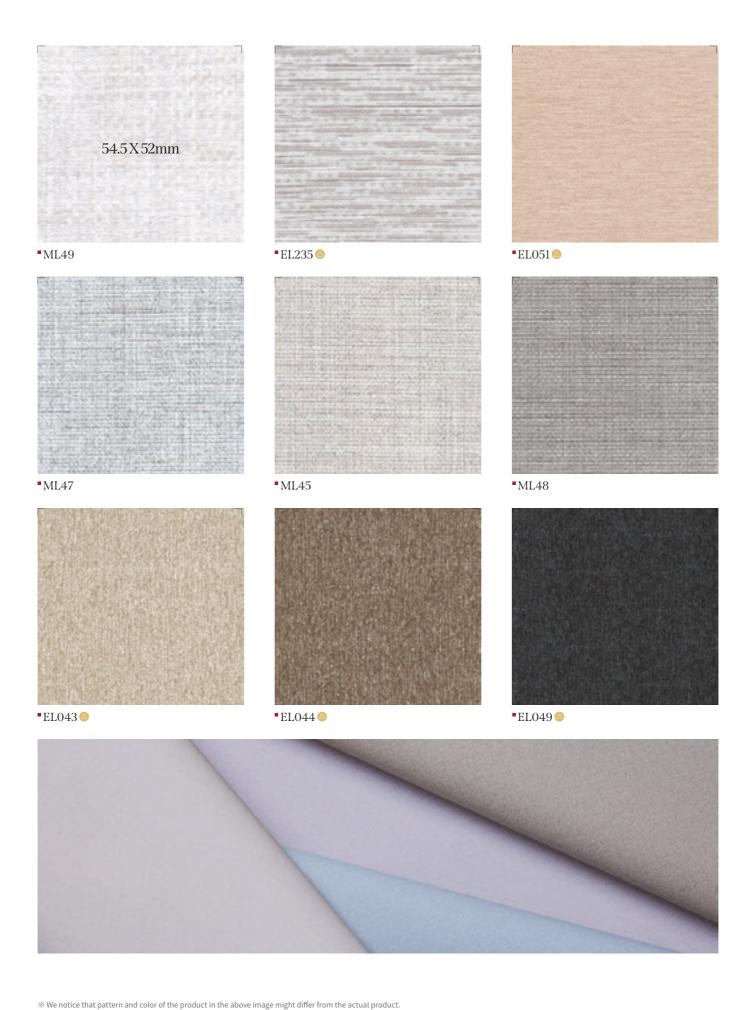




# 



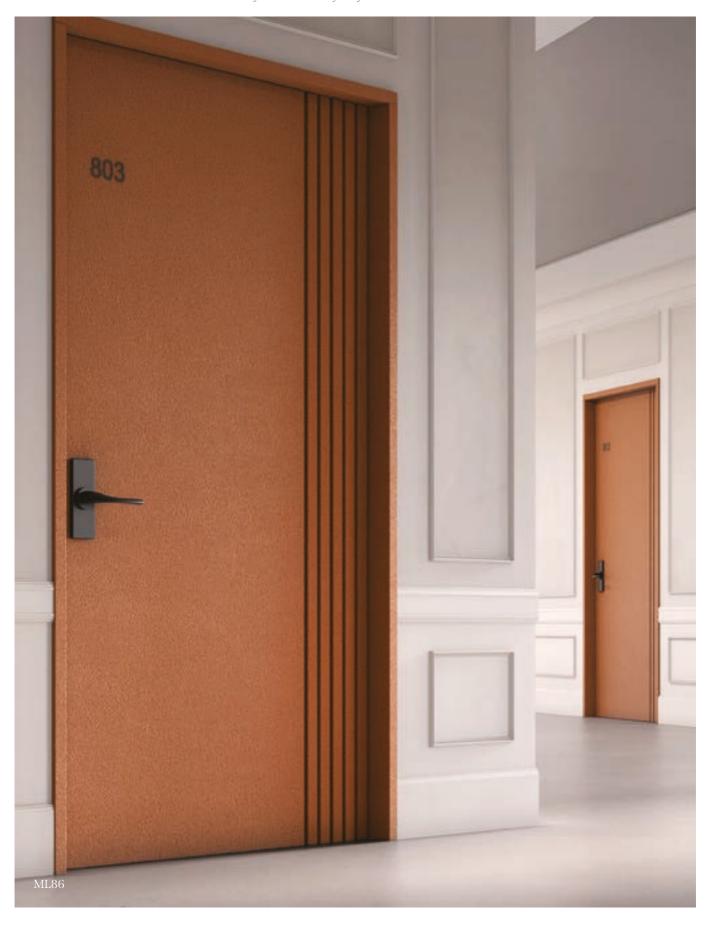




# Leather भाग

가죽만이 지닌 클래식하면서도 고급스러운 색상, 리얼한 터치감은 럭셔리 그 자체입니다.

 $The\ classic\ and\ luxurious\ colors\ and\ the\ realistic\ touch\ of\ leather\ are\ luxury\ itself.$ 







### 철도차량용 인테리어필름

국토교통부에서 고시하고 있는 철도차량 기술기준에 따른 성능을 보유한 인테리어필름을 제공하며(철도차량 전용 컬러에 한함), KTX 및 SRT 실내 내장재로 사용되고 있습니다.

내장판화재안전기준							
화재성능	시험방법	시험항목	합격기준				
요구기준	시험규격	시험영속	위험등급[1]	위험등급[2]	위험등급[3]	위험등급[4]	
내장판	ISO 5660-1	MARHE(kW/m², @50kW/m²)	-	≤90	≤90	≤60	
	ISO 5658-2	Qasb(MJ/m²)	≥1.2	≥ 1.2	≥ 1.5	≥1.5	
	ISO 5658-2	CFE(kW/m²)	≥15	≥18	≥20	≥20	
	ASTM E 662	DS(1.5min)	≤ 150	≤100	≤75	≤50	
	ASTM E 662	DS(4.0min)	≤300	≤ 200	≤150	≤100	
	ASTM E 662	DS(10min)	-	-	≤300	≤200	
	BS 6853 Annex B.2	독성지수(R)	≤3.6	≤ 2.7	≤1.6	≤1.6	









DFS03 DFP04

#### 해외 난연 인테리어필름

#### 일본 불연

LX하우시스 인테리어필름은 일본 국토교통성 건축자재 법규에 의거 불연 및 친환경(F☆ ☆ ☆ ☆)인증을 획득하여 판매되고 있습니다.

**일본 불연 인증서**(일본 전용 컬러에 한함)







불연기재(석고보드 외) 포함 기준

알루미늄 기재 포함 기준

철판 기재 포함 기준

#### 중국 난연

LX하우시스 인테리어필름은 중국 중화인민공화국 소방법 제 9조에 의거 준불연 등급(A2)을 획득하여 판매되고 있습니다.

중국 준불연 등급(A2) 성적서(중국 전용 컬러에 한함)



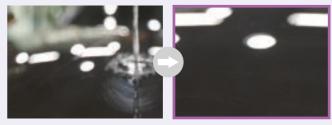




### Self-healing 인테리어필름

생활 스크래치와 같은 외관 손상 발생 시 뜨거운 물(80°C↑)이나 열풍을 통해 표면이 자가복원(Self-healing)되는 기술이 적용된 인테리어필름입니다.





스크래치 발생

뜨거운 물에 자가복원

※ 시험방법 : 표면에 \*Wire Brush로 스크래치를 발생시킨 후(15mm/min, 왕복 5회) 뜨거운 물(80°C↑)을 붓고 물기를 제거하여 잔여스크래치 측정 ※ 자사 자체 시험결과 기준이며, 실제 사용환경이나 테스트 조건에 따라 차이가 날 수 있습니다.

* Wire Brush					
Model No.	Brass brush 4 lows				
Wire diameter x hair length	ф0.14 х 16mm				

#### 실제로 체험해보세요.

샘플 표면에 스크래치를 낸 뒤에 뜨거운 물로 닦으면 스크래치가 지워집니다.

※ 주의사항: 과도하게 열에 노출 시 필름 변형에 의한 영구적 손상이 발생할 수 있습니다. (적정 표면온도: 80 ~ 120°C) 50 X 30mm

Black

White

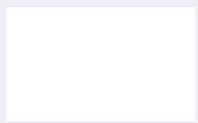
The L

% 해당 제품은 제품 특성상 최소 주문 수량이 있으며, 구매를 원하시면 가까운 대리점으로 문의부탁드립니다.

#### **Window Film**

휴게, 주거, 사무공간 등에 다양하게 활용 가능한 창문용 데코레이션 필름입니다.

Windeco(PVC) \_ EP115, LC5510



LC5510



#### Windeco(PET)\_LC5601

EP115









# Certification & Test Report এক & delay del

### **Fire Safety**

화재 안전성



LX Z:IN 인테리어필름 BENIF 방염제품은 화재 발생 시 고객의 생명과 안전을 지키기 위해서, 국내 및 해외 화재 안전 공인시험을 통과하여 제품 안전성을 인정받고 있습니다.

#### 실내 공간



#### 방염성능 검사

한국소방산업기술원에서 형식승인을 받은 방염제를 사용하여 제품을 생산하며, 생산 제품 중 방염성능 검사를 통과한 양품만을 방염인지 표시하여 판매하고 있습니다. (제품별 방염성능검사 합격 성적서 발급)

# $C \in$

#### CE 인증

유럽연합(EU) 안전성 검증 규격입니다. 화재 전파 속도 뿐 아니라, 포름알데히드, 중금속 시험도 통과하여 유럽 내 유통하는 데 있어 제품의 안전성을 입증받았습니다. (인증번호 1121-CPR-KA5008, 방염 제품에 한함)



#### UL 화염 및 연기 확산 시험(UL723) 검사

글로벌 안전인증기관인 UL(Underwriters Laboratories)에서 화염 및 연기 확산 시험(UL723)을 실시하여 성능을 검증받고 성적서를 확보하였습니다. (성적서 번호 R26170)

### Eco-**Friendly**

환경 친화성



LX Z:IN 인테리어필름 BENIF는 고객 및 시공자 안전과 환경을 생각하여 인체 및 환경에 유해한 물질을 최소화하기 위한 노력을 꾸준히 하고 있으며, 친환경 제품으로 고객과 커뮤니케이션하고 있습니다.

#### 인간 친화성



#### 친환경 건축자재 인증

건축자재의 유해물질을 측정하여 한국공기청정협회에서 제정한 친환경 건축자재 단체 표준인증 규정에 의거하여 검증한 시험 결과, 최우수 등급을 확보하였습니다. 단, 식품 접촉 시 안전성 여부는 검증되지 않았으므로 이 점 유의해주시기 바라며,

인증을 보유하지 않은 칼라가 있으니 인증서를 확인해주시기 바랍니다.

(단체표준인증서 제 HB2679G22-01호)

#### 유럽섬유제품 품질 인증



제품/침구/완구/인테리어 자재 등 피부와 접촉이 일어나는 제품에 대해 약 200여 가지의 유해물질을 검증 하는 인증으로, BENIF **일반형(솔리드)** 제품은 업계 최초로 본 인증 1등급(Baby Class)을 획득하여 3세 미만의 영·유아 장난감 및 의류에 사용해도 되는 수준입니다.

(인증번호 SE025 164519 TESTEX)

#### 자연 친화성



#### 환경성적표지 인증

제품의 원료부터 생산, 유통, 사용, 폐기 등 전 과정에 대한 환경 영향도를 평가하여 환경 개선을 유도하는 제도로써, BENIF **우드(CW, DW, FW, SW)**는 본 인증을 확보하여 지속적으로 환경 개선을 위해 노력하고 있습니다.(환경성적표지 제 2020-483호)

#### 저탄소제품 인증

탄소발자국 값이 최대허용탄소배출량(동종제품의 환경성적표지 탄소배출량의 평균값) 이하거나 최소탄소감축율 이상인 경우 한국환경산업기술원에서 인증하는 것이며, BENIF **솔리드(RS, RGM)**는 본 인증을 확보함으로써, 환경 친화적인 제품으로 널리 사용되고 있습니다. (환경성적표지 제 2019-030호)





# 시공 유의사항

#### 1. 사전 준비 작업

- 필름이 시공되는 피착재(MDF 등)의 종류와 상태를 확인하여 시공 시 문제가 발생될 수 있는지 사전에 점검해야 합니다.
  - MDF의 경우 밀도에 따라 시공 접착력의 차이 및 방염 성능의 차이가 발생하므로 밀도가 균일한 MDF를 사용하도록 합니다.
  - 도장면은 알코올로 표면의 오염물을 제거해야 하며 용제에 의한 도장면의 손상을 확인하고, 요철부위는 퍼티 처리 후 샌드페이퍼로 연마하고 이물질을 먼지털이 붓으로 제거해야 합니다.
- 철판류는 알코올, 락카신나를 이용하여 표면의 오염물질을 제거한 후 용접에 의한 요철부위는 퍼티로 처리하고, 샌드페이퍼로 표면을 연마한 후 이물질을 먼지털이 붓으로 제거해야 합니다.
- 소비자가 선정한 제품의 이상 유무(패턴명, 외관 상태 등)에 대해 사전 검수 작업을 해야 합니다.
- 필름 시공은 목 공사 후 도장 및 도배 전 단계에서 시행해야 합니다.

#### 2. 표면 사전 작업

- 필름이 시공될 피착재(MDF 등)의 단면(절단)부위는 샌드페이퍼로 충분히 연마해야 합니다.
  - 특히 목재류(MDF, PB 등)의 경우, 꺾임 부위 및 메지 부분의 평활도가 중요하므로 반드시 사전 확인 후 표면 상태가 거친 경우에는 충분히 샌드페이퍼로 연마하거나 퍼티 처리 후 시공해야 합니다.

#### 3. 프라이머 처리 (PM-04)

- 필름 시공 시 프라이머는 LX하우시스 전용 수성프라이머(PM-04)를 사용해야 합니다.
- 프라이머 처리 시 피착재 중 목재류(MDF, PB 등)의 절단면은 프라이머 흡수율이 높기 때문에 프라이머를 2~3회 도포할 수 있도록 합니다. 중복 도포는 먼저 도포한 프라이머가 완전히 건조된 후 실시합니다.
- 프라이머의 권장 희석비율과 건조시간은 아래와 같으니 참고해주시기 바랍니다.

	시기	월	프라이머	물	건조시간(권장)
수성프라이머와	동절기	12~3월	1	1	24
물의 혼합비	춘추절기	4~5월, 10~11월	1	1.5	12
	하절기	6~9월	1	2	8

#### 4. 시공 방법

- 필름 시공은 반드시 시방서의 시공 지침에 따라 시공해야 하며, 상세 사항은 시공매뉴얼을 참조하시기 바랍니다. (service.lxhausys.co.kr 자료실)
- 시공 시 재단된 필름의 절단면이 최대한 보이지 않게 시공해야 합니다.
- 최대한 피착재가 보이지 않도록 필름 시공을 해야 합니다.
- 제품 Lot간 색상 차이가 발생할 수 있으므로 Lot를 구분하여 시공해야 합니다.
- 시공 전 72시간부터 시공 후 48시간까지는 현장 온도를 15~25°C로 유지해야 합니다. 동절기 시, 외부에 제품을 방치할 경우, 기온 하락에 따른 점착력 저하 현상이 발생할 수 있습니다.

#### 5. 특정제품 시공 유의사항

#### SW, EL

- 본 제품들은 표면 필름층이 없고 표면 처리만 되어 있는 제품이므로, 모서리부위를 양모펠트나 면장갑으로 강하게 문질러 꺾을 시, 인쇄층이 손상될 수 있으니 주의해서 사용해야 합니다.
- 표면 처리층으로 인해 필름 겹침 시공 시, 슬립이 날 수 있으니, 수성프라이머 PM-04 원액을 도포 후 충분히 건조하여 시공해야 합니다.

#### PME

• 부착면이나 점착면에 이물질이 묻은 상태로 시공할 경우, 이물질 부분이 표면으로 돌출되므로 주변 환경 청소와 부착면 샌딩 작업을 충실히 해줘야 합니다.

#### PW, SF, NS

• 일반 제품에 비해 제품이 두껍고 엠보의 깊이나 형상이 다르므로 프라이머 처리 후 제품을 충분히 표면에 압착하여 붙여야 하며 꺾임 부위 및 겹침 부위 들뜸이 발생하지 않도록 더 많은 힘을 가해 마무리 해주시기 바랍니다.

#### 6. 기타 주의사항

- 필름 시공은 반드시 시방서의 시공 지침에 따라 시공해야 합니다.
- 시공 방법 및 피착재(MDF 등)에 관하여 시방서와 다른 류의 피착재에 시공할 경우, LX하우시스 및 대리점에 문의하여 시공 가능성을 확인해야 합니다.
- 아크릴류 피착재에 시공 시 기포가 발생할 수 있으니 LX하우시스 및 대리점에 문의하여 확인 후 시공 바랍니다
- LX하우시스 인테리어필름의 유통기한은 공장 생산일로부터 2년간 유효합니다. 보관 조건은 높은 온도, 습도를 피하여 주시고, 직사광선이 없는 곳에 보관해 주시기 바랍니다. 온도 20°C, 습도 50%가 가장 적당합니다.
- 이동 및 운송 시, 충격에 의해 제품이 깨질 수 있으니 던지지 마세요.(특히 동절기 각별히 주의)
- 이형지는 가공 및 보관 과정에서 열과 수분에 의해 수축 및 팽창이 일어나므로 이형지 눈금은 참조용으로 활용해주시기 바라며, 재단 시에는 부착면의 실측치보다 여유있게 재단해주시기 바랍니다.
- 엠보가 깊은 제품은 시공 시 겹침 부위에 점착제가 도포되는 면적이 적어, 더 강한 압착으로 부착될 수 있게 주의를 기울여야 합니다.



#### Interior Film for railroad vehicle

We offer Interior Films that possess the performance required by the technical standards for railroad vehicles as announced by the Ministry of Land, Infrastructure and Transport(limited to colors specified for railroad vehicles), and these films are used as interior materials for KTX and SRT.

Inside Panel Fire Safety Standards							
Fire	Test Method		Passing Criteria				
Performance Requirements	Test Standard	Test Item	Hazard Level [1]	Hazard Level [2]	Hazard Level [3]	Hazard Level [4]	
	ISO 5660-1	MARHE(kW/m², @50kW/m²)	-	≤90	≤90	≤60	
	ISO 5658-2	Qasb(MJ/m²)	≥ 1.2	≥1.2	≥1.5	≥1.5	
	ISO 5658-2	CFE(kW/m²)	≥15	≥18	≥20	≥20	
Inside Panel	ASTM E 662	DS(1.5min)	≤ 150	≤100	≤75	≤50	
	ASTM E662	DS(4.0min)	≤300	≤200	≤150	≤100	
	ASTM E 662	DS(10min)	-	-	≤300	≤200	
	BS 6853 Annex B.2	Toxic index(R)	≤ 3.6	≤ 2.7	≤ 1.6	≤1.6	

Performance of Hazard Level 4, which is the highest Hazard level in the Fire Performance Passing Criteria(Inside Panel)







DFP04

#### Flame Resistance Interior Films from oversea

#### Japan non-combustible

LX Hausys Interior Film is being sold after obtaining non-combustible and eco-friendly ( $F \Leftrightarrow \Leftrightarrow \Leftrightarrow \Leftrightarrow$ ) certifications based on Construction Materials Regulations from the Ministry of Land, Infrastructure, Transport and Tourism in Japan.

Japan non-combustible Certification(only for colors limited in Japan)









Inclusion standards other than non-combustible materials (gypsum board)

Inclusion standards including

Inclusion standards including

#### **China Flame Resistance**

LX Hausys Interior Film is being sold after obtaining a semi non-combustible rating (A2) according to Article 9 of the Fire Service Act in the People's Republic of China.

China semi non-combustible rating(A2) Report(only for colors limited in China)



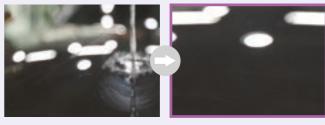




#### **Self-healing Interior Film**

When the appearance of damage such as daily scratches occurs, this Interior Film is equipped with a self-healing technology where the surface is restored through hot water ( $80^{\circ}\text{C}\uparrow$ ) or hot air.





Scratch occurred

Self-healing in hot water

- \*\* Test method: Scratches are generated on the surface using a \*Wire Brush (15mm/min, 5 reciprocations), and residual scratches are measured after pouring hot water (80°C or above) and removing moisture.
- \*\* This is based on our own test results, and actual results may vary depending on the usage environment or test conditions.

* Wire Brush					
Model No.	Brass brush 4 lows				
Wire diameter y hair length	Φ0.14 v 16mm				

#### Please experience it in real life

After creating scratches on the sample surface, they can be removed by wiping with hot water.

 Caution: Excessive exposure to heat may cause permanent damage due to film deformation. (Optimal surface temperature: 80 ~ 120°C) 50 X 30mm

White

Black

\*\* As a product feature, there is a minimum order quantity for this product. If you wish to make a purchase, please inquire at your nearest vendor.

#### **Window Film**

This is a decorative film for windows that can be used in various settings such as relaxation spaces, residential areas, and offices.

Windeco(PVC) \_ EP115, LC5510







#### Windeco(PET)\_LC5601





LC5601

EP115

 $<sup>\</sup>ensuremath{\mathbb{X}}$  If you wish to make a purchase, please inquire at your nearest vendor.





# **Certification & Test Report**

# Fire Safety



To keep the safety and life of our customers in case of a fire, LX Z:IN Interior Film BENIF flame retardancy product is considered to be commendable for product stability by passing domestic and international fire safety certifications.

#### **Interior space**



#### Flame Retardancy Test

We manufacture our products using fire retardants that have been approved by Korea Fire Equipment Inspection Corporation, and only sell those items that have passed the flame retardancy test and then indicate the fire retardant label.

(Each product being issued with the flame retardancy test report that has passed the test.)



#### CF Certification

It is the stability verification standard of European Union(EU). The product's stability within the European market has been substantiated by passing not only the flame spread rate test but also formaldehyde and heavy metal tests.

(Certification Number 1121-CPR-KA5008, limited to flame retardancy product)



#### UL flammability and smoke diffusion test(UL723) examination

Our product's performance has been verified via flammability and smoke diffusion tests(UL723) conducted by the global safety certification organization UL(Underwriters Laboratories). After that, we have obtained the test report.

(test report number R26170)

### Eco-Friendly



LX Z:IN Interior Film BENIF is making steady efforts to minimize substances harmful to the human body and the environment, considering the safety of customers and contractors and the environment, and communicating with customers with eco-friendly products.

#### **Human affinity**



#### **Eco-Friendly construction materials certification**

We have tested and verified the harmful substances in building materials, according to the certification standards for eco-friendly building materials established by the Korea Air Cleaning Association. As a result of the testing, we have obtained the highest grade. However, please note that the safety of these materials in contact with food has not been verified. Also, there are some colors that have not been certified, so please check the certification document for more information.

(Group Standard Certification No. HB2679G22-01)



#### The European textile product quality certification

This certification verifies the absence of approximately 200 harmful substances in products that come into contact with skin, such as general products, bedding, toys, and interior materials.

BENIF's **General (solid)** products were the first in the industry to obtain the 1st grade certification (Baby

BENIF's **General (solid)** products were the first in the industry to obtain the 1st grade certification (Baby Class) under this standard, which confirms their suitability for use in clothing and toys for infants and toddlers under 3 years of age. (Certification No. SE025 164519 TESTEX)

#### **Nature affinity**



#### **Environmental Product Certification**

It is a system that evaluates the environmental impact of the entire process, including raw materials, production, distribution, use, and disposal of certified products, and encourages environmental improvements. BENIF **Wood (CW, DW, FW, SW)** has obtained this certification and is continuously striving for environmental improvement. (Environmental Product Certification No. 2020-483)



#### **Low Carbon Product Certification**

If the carbon footprint value is equal to or less than the maximum allowable carbon emissions (average carbon emissions of environmentally friendly labeled products of the same type), or if the minimum carbon reduction rate is achieved, it is certified by the Korea Environmental Industry & Technology Institute. BENIF **Solid (RS, RGM)** has obtained this certification and is widely used as an environmentally friendly product. (Environmental Product Certification No. 2019-030)



### **Installation Instructions**

#### 1. Preliminary Work

- It is necessary to check the type and condition of the adherend(MDF, etc.) on which the film is applied to see if any problems may occur during installation.
- In the case of MDF, it is recommended to use MDF with uniform density, as the difference in installation adhesion and flame retardant performance occurs depending on the density.
- The painted surface should be cleaned with alcohol to remove contaminants and checked for damage by the solvent. The uneven areas should be polished with sandpaper after putting treatment and foreign matters should be removed with a dust brush.
- For iron plates, after removing contaminants from the surface with alcohol or lacquer, the uneven areas caused by welding should be treated by puttying. Foreign matters should be removed with a dust brush after polishing the surface with sandpaper.
- It is necessary to perform preliminary inspection on whether the product selected by the consumer has defects.
   (pattern name, appearance, etc.)
- Film installation should be carried out after carpentry work and before painting and wallpapering.

#### 2. Surface Pre-work

- The cross-section(cutting) part of the adherend(MDF, etc.) where the film will be applied must be sufficiently polished with sandpaper.
- In particular, in the case of wood(MDF, PB, etc.), smoothness of the bent and joint parts is important. Therefore, if the surface condition is rough after inspecting in advance, it must be sufficiently polished with sandpaper or putty treatment before installation.

# 3. Primer Treatment (PM-04)

- When applying the film, LX Hausys proprietary water-based primer (PM-04) must be used.
- For the primer treatment, the cut surface of wood(MDF, PB, etc.) among the adherends has a high primer absorption rate, so the primer should be applied 2-3 times. Overlapping is done after the primer applied before has been completely dried.
- Please take note of the recommended dilution ratio and drying time for Primer as provided below.

	Time	Month	Primer	Water	Drying time (recommended)
Ratio of mixing water and water-	Winter season	December - March	1	1	24
based primer	Spring and Autumn season	April - May, October- November	1	1.5	12
basea primer	Summer season	June - September	1	2	8

#### 4. Installation Methods

- Film installation must be carried out in accordance with the installation guidelines in the specification sheet, and for further details, please refer to the installation manual.(service.lxhausys.co.kr reference)
- During installation, the cut surface of the film should not be visible as much as possible.
- Film should be applied in a way that the substrate is not visible as much as possible.
- Color differences may occur between product lots, so it is necessary to sort the lots for installation.
- The site temperature should be maintained at 15~25°C from 72 hours before installation to 48 hours after installation. In winter, if the product is left outside, adhesion may decrease due to a drop in temperature.

#### 5. Installation Instructions for Specific Products

#### SW, EL

- These products do not have a surface film layer but only do surface treatment. If you strongly rub the corners with wool felt or cotton gloves, the printed layer may be damaged, so please use our product carefully.
- Due to the surface treatment layer, it may slip when film is overlapped. Therefore, the installation should be done after applying the water-based primer PM-04 undiluted solution and drying it sufficiently.

#### PME

When applying the film to a surface with foreign substances or contaminants, those substances may
protrude from the surface and negatively affect the film's adhesion. Therefore, it is essential to thoroughly
clean the surrounding environment and perform sanding work on the adhesive surface to ensure optimal
adhesion.

#### PW, SF, NS

• When installing products that are thicker and have a different depth or shape of embossing than regular products, it is necessary to apply sufficient pressure to attach the product to the surface after primer treatment. Also, it is important to apply more force to the folding and overlapping areas to prevent any lifting.

#### 6. Other Precautions

- Film installation must be carried out according to the installation standards of the specification.
- For installation methods and adherends (MDF, etc.), in case of the installation on a different type of adherend from the specifications, you must contact LX Hausys or a vendor to confirm the possibility of installation.
  - Air bubbles may occur during installation on acrylic adherends, so please check with LX Hausys or a vendor before installation.
- The shelf life of LX Hausys Interior Film is valid for two years from the date of factory production. Please store the product in a place without high temperature and humidity and avoid direct sunlight. The ideal conditions for storage are 20°C temperature and 50% humidity.
- When moving or transporting the product, please avoid dropping it as the product may break due to impact (especially during the winter season).
- Please be advised that release paper may undergo contraction or expansion during processing and storage due to the
  impact of heat and moisture. Consequently, we recommend utilizing release paper measurements as a point of reference,
  and when cutting, we suggest providing extra margin beyond the actual dimensions of the adhering surface.
- For products with deep embossing, special attention should be paid during installation to ensure sufficient adhesion through stronger pressure, as the area of adhesive installation on overlapping parts may be reduced.







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