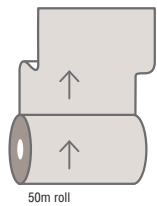


Horizontal Print Series

DI-NOC Fine Wood (FW) and Wood Grain (WG) Series films now include horizontal pattern options, which simplify the use of horizontal wood grains by changing the print direction.

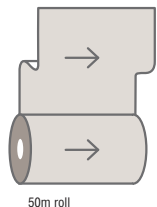
Vertical Print Series

Printing direction » Direction of the wood grain length



Wood grain patterns of vertical print series: horizontal to the length

Horizontal Print Series



Horizontal print series wood grain patterns: vertical to the length

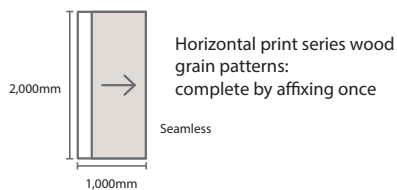
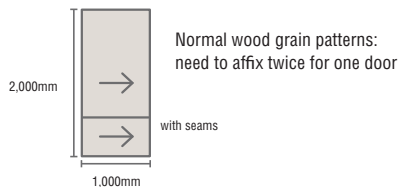
► The following chart reflects the horizontal patterns with the corresponding vertical match.

Horizontal	Vertical
FW-606H	FW-1134
FW-607H	FW-1133
FW-608H	FW-1123
FW-609H	FW-1113
FW-1039H	FW-1124
FW-1040H	FW-1137
FW-1121H	FW-1022
FW-1130H	FW-1129
FW-1136H	FW-1135
FW-1139H	FW-1138
FW-1145H	FW-1143
WG-1392H	WG-2705

* Horizontal Print Series products have "H" at the end of the sample product numbers.

- * For interior applications requiring maximum resistance to fading from UV exposure
- * Not recommended for use on a PVC-coated steel panels
- ⓘ Not recommended for use on compound curved surfaces
- Ⓜ Not recommended for butt joint applications
- NEW** New design
- Ⓧ Available in E-Series
- H A product number ending in "H" indicates horizontal grain direction

When affixing a horizontal pattern film on door



DI-NOC Series Selection

It is important to consider the intended use when selecting DI-NOC patterns. Please refer to the most up-to-date 3M™ DI-NOC™ Architectural Finishes Technical Data Sheet and Installation Guide, which can be found by visiting 3MArchitecturalMarkets.com. You may also contact your 3M Sales Representative for additional information.

Materials

Polyolefin
Polyester
Vinyl

Form

48" x 164' (1220mm x 50m)

The following series are
48" x 82' (1220mm x 25m)

AR, DPF, WG-GN, ME, VM
(12m rolls also available)

Thickness

Approximately 8 mils (0.2mm)
(liner not included)

Some films may be thicker
depending on embossing.

Weight

Approximately 44lbs. (20kg)
for a 50m roll

General Characteristic Data

Item	Evaluation	Results
Dimensional stability	4" x 4" (100mm x 100mm) crosscut was made in the center of 6" x 6" (150mm x 150mm) film applied to an 8" x 8" (200mm x 200mm) aluminum plate. After being left for 2 days at 150°F (65°C), the largest gap at the crosscut point was measured.	Largest gap: under 0.01" (0.3mm)
Heat Resistance	Film was applied to an aluminum plate and aged at a temperature of 150°F (65°C) for 28 days.	No delamination or visible change
Thermal Cycle Resistance	Film was applied to an aluminum plate and cycled between -22°F and 150°F (-30°C and 65°C) for 12 days.	No delamination or visible change
Moisture Resistance	Film was applied to an aluminum plate and aged at a temperature of 104°F (40°C) and 95% humidity for 30 days.	No delamination or visible change
Cold Impact Resistance	Film was applied to an aluminum plate and a weight of 2 lbs (907g) was dropped from 5 inches (12.7cm) high at a temperature of 32°F (0°C) using a Gardner Impact Tester.	No cracks in film
Flammability	Most DI-NOC Architectural Finishes received a Class A rating when tested per ASTM E84.	Class A
Removal	Removable with heat at 176°- 212°F (80°-100°C)	—

Resistance to Solvent and Chemicals

Classification	Solvent	Immersion Time	Result
Water	Water	24 hours	No visible change
Acid	Chloride (10%)	24 hours	No visible change
Base (alkali)	Sodium hydroxide (10%)	24 hours	No visible change
Alcohol	Ethanol	24 hours	No visible change
Ester	Ethyl acetate	5 minutes	Deterioration observed
Ketone	Methyl ethyl ketone	5 minutes	Deterioration observed
Aromatic	Toluene	5 minutes	Deterioration observed

Cleaning

- Immediately remove any stains on the film. Use commercial mild detergent or approved 3M cleaner (avoid using alkaline, strong acidic detergent, or organic solvents such as thinner).
- Use a soft cloth or sponge scrubber for cleaning. Never use an abrasive sponge.
- Wash away all residual detergent with water after cleaning.

Adhesive Strength to a Base Material

Substrate	Application Surface	Adhesion Promoter		
		No Adhesion Promoter	WP-2000 (water-based)	Primer 94 (solvent-based)
Wood	MDF (w/ sealer)	○	●	●
	Painted MDF	●	●	●
Boards	Gypsum Board (w/ sealer)	○	●	○
Metals	Aluminum	●	○	●
	Anodized Aluminum	●	○	●
	Stainless Steel	●	○	●
Glass	Glass	●	○	●
Plastics*	ABS	●	○	●
	Acrylic	●	○	●
	Polyester (PET G)	●	○	●
	Polypropylene	○	○	●
	Polyethylene	○	○	○
	Polycarbonate	●	○	●
	DI-NOC Film**	○	○	●

WP-2000 undiluted for testing

● Acceptable adhesion

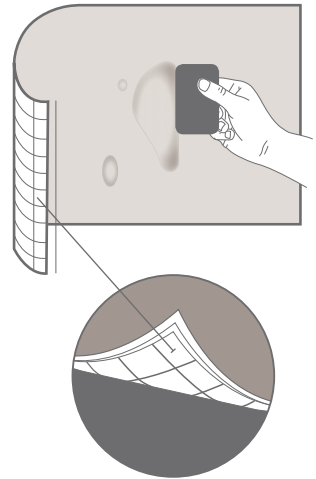
○ Fails in adhesion

* Bubbles may appear under film due to outgassing if plastic substrate is not fully cured before application.

** Due to additional stress from wrapping DI-NOC, use of an adhesion promoter is highly recommended.

Comply™ Adhesive Technology

Comply Adhesive has air-release channels that allow trapped air bubbles to escape during application. Dry application only.



Stain resistance

Contaminant was in contact with the film surface for 24 hours and then removed using water or mild detergent. Results may vary.

Contaminant	Result
Coffee	●
Tea	○
Cola	●
Milk	●
Red wine	●
Ketchup	●
Soy sauce	●
Oleic acid oil	●
Vinegar	●
Mustard	●
Crayon	○
Shoe Polish	⊙
Betadine Iodine	●
Soap Solution (1%)	●
Ammonia Solution (10%)	●
Citrate Solution (10%)	●
Ethyl Alcohol (50%)	●

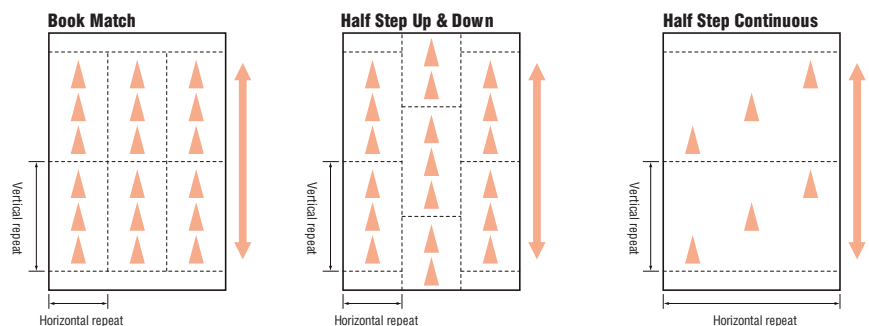
● wiped with water

○ wiped with mild detergent

⊙ a little stain left

Wood Grain Pattern Repetition

All patterns of 3MTM DI-NOCTM Architectural Finishes have repetition. Some variation of repeating pitches is inevitable due to manufacturing procedure. Use this numeric value as a reference value only. Do not lay out and cut based on this value.





The DI-NOC E-Series, offered in 90 textural palettes, highlight the true beauty of wood and natural materials with a tremendous sustainable story. Made of polyolefin and requiring no harsh chemicals for their maintenance, these films offer a more environmentally sustainable solution coupled with an authentic, natural aesthetic.