NEOERA®

STW138-3


Easy to Install
Real Wood Texture
Optimal Surface


STW035-2

THE HASSLE-FREE ALTERNATIVE TO WOOD

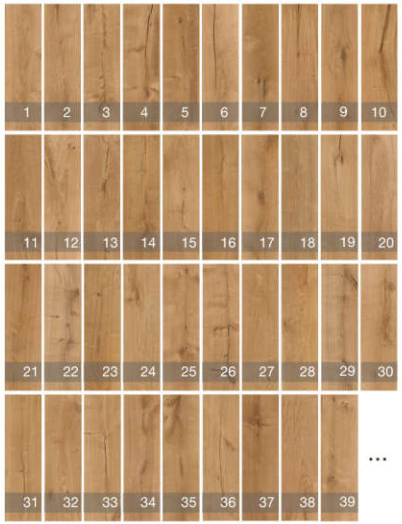
NEOERA offers the beauty of flooring, in a hassle-free, durable option that's longer lasting, virtually maintenance free, and eco-friendly. and thoughtful detail to aesthetics now gives it an even more natural appearance in an expanded range of products, colours, and textures.

- It can reduce wood consumption
- Less carbon emissions during production.
- Product is recyclable after usage

NEOERA®

EIR embossing

DIGITAL PRINT, DIRECTLY TO THE CORE

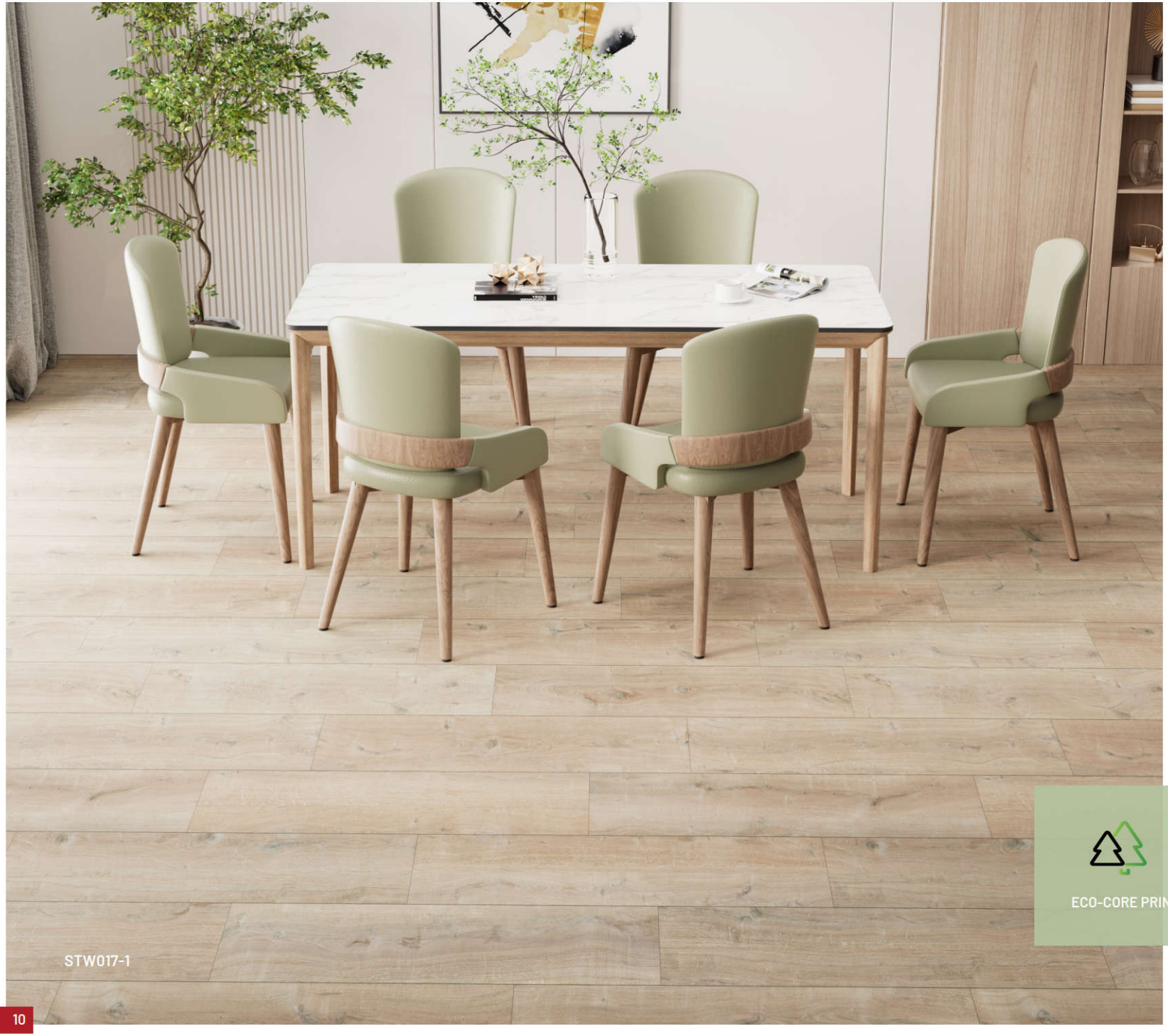


ECO-CORE PRINT FLOOR use advanced printing technology to create highly realistic and detailed patterns on the flooring surface. This allows for a wide variety of designs, including wood, stone, tile, and other custom patterns. We can create unique and non-repeating designs that mimic the appearance of natural materials with precision, which doesn't highly relies on the deco films.

Relistic as the nature, Up to 30 sqm non-repeat! It's a promise!

KEEP IT SIMPLE

The design repeat rate is high, so that the whole room design looks too monotonous.



STW017-1

A BRAND YOU CAN TRUST

NEOERA is a new brand that utilises a solution driven business model to create innovative, sustainable building materials and systems that add value to customers' lives. At the heart of NEOERA is a team of highly capable, creative specialists united by a passion to promote environmental consciousness through eco-friendly building products and operations. By embracing low environmental impact manufacturing technology, NEOERA is revolutionising how building can be done. We design and deliver beautiful, long-lasting green alternatives .

ECO-CORE PRINT FLOOR, ECO COMMERCIAL CHOICE

High Tempreture Resistance

PVC/SPC

PVC HEAT
DEFORMATION TEMPERATURE
65°C - 90°C

ECO-CORE

ECO-CORE HEAT
DEFORMATION TEMPERATURE
100°C - 110°C

PETG

PETG HEAT
DEFORMATION TEMPERATURE
70°C

STA226B-1

Smoking Performance

SPC

SPC SMOKE
Black, toxic, high-density

PETG

PETG SMOKE
White,sour

ECO-CORE

ECO-CORE SMOKE
White, Non-toxic,odorless

STW217-1

Vision To Reality

NEOERA Design Team

The NEOERA design team was established in early 2020 and currently has 5 professional designers. Designers have been constantly exploring and innovating, starting from multiple perspectives such as history, culture, and reality, emphasizing the cultural connotations and stylistic characteristics of design works, and creating design works with unique styles. The work has characteristics of personalization, specialization, customization, and differentiation. The Sentai design team is committed to showcasing the power and value of design to the world through their own design works.

For a long time, the NEOERA design team has completed over 300 l arge

-scale non repetitive designs, with over 1000 product colors; This includes common wood species such as oak, walnut, ash, walnut, and cherry, as well as some rare wood species such as sour branches and rosewood; These precious materials come from all over the world, and the NEOERA design team uses design methods to permanently preserve these unique patterns and colors. Integrating fashion creativity with sustainable development, with a unique attitude towards sustainable fashion and a profound reflection on integrating long-term principles, we closely connect the most forward-looking and future meaningful ideas, forces, and audiences. The NEOERA design team combines nature, environmental protection, new materials, and intelligent technology to improve the quality of living and working environments, and create a sense of belonging as the concept. Through the most fundamental power of design, let's embark on a new journey of sustainable fashion transformation and jointly safeguard a beautiful and sustainable tomorrow for human destiny.


STW132-6


STW041-2


STW052-3


STW058-3


STW153-1


STW109-1


STW152-9


STW145-2


STW145-1


STW182-1

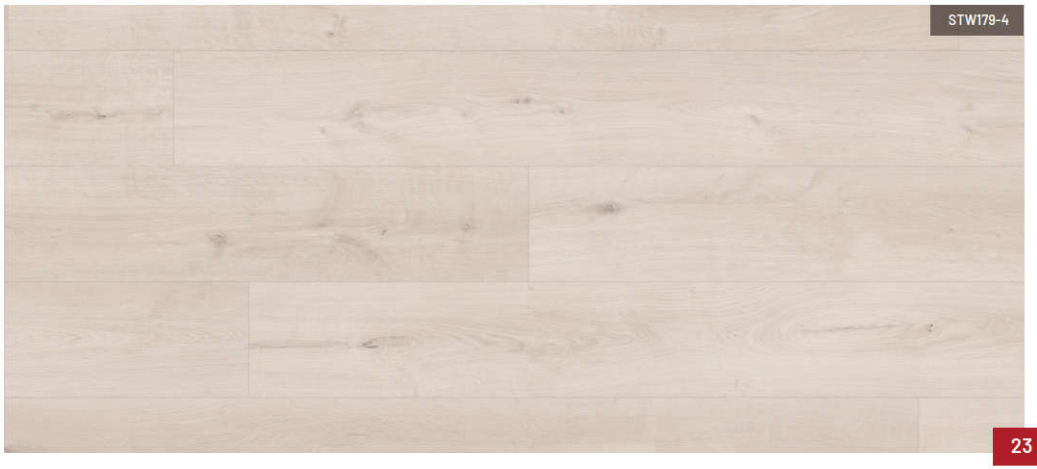

STW053-1


STW053-3

STW262-1

STW179-8

STW179-3



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STW052-2


STW052-4


STW052-20


STW052-9


STW181B-4


STW145-1


STW145-5


STW278-5


STW056-1

STW040-4

STW220-1

STW182-1

STW198-1


STW128-1


STW035-1

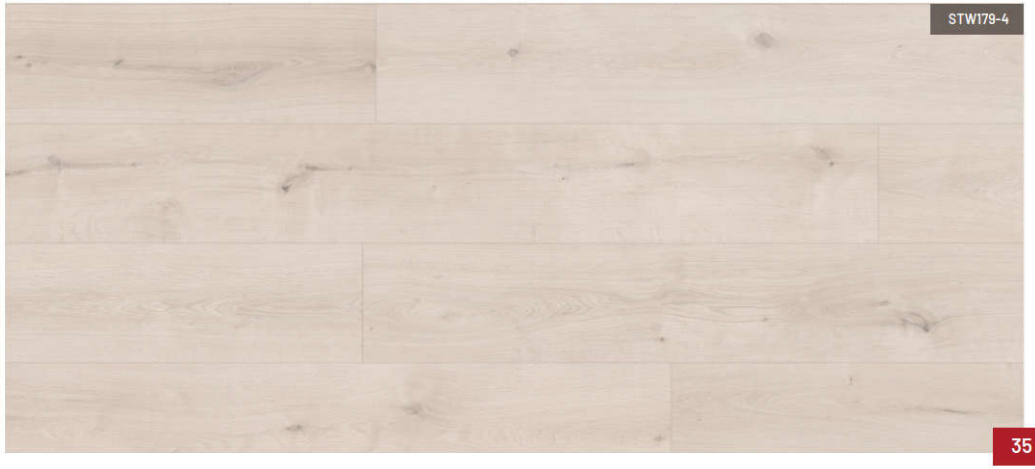

STW333-3


STW333-2


STW147-1


STW309-2


STW128-3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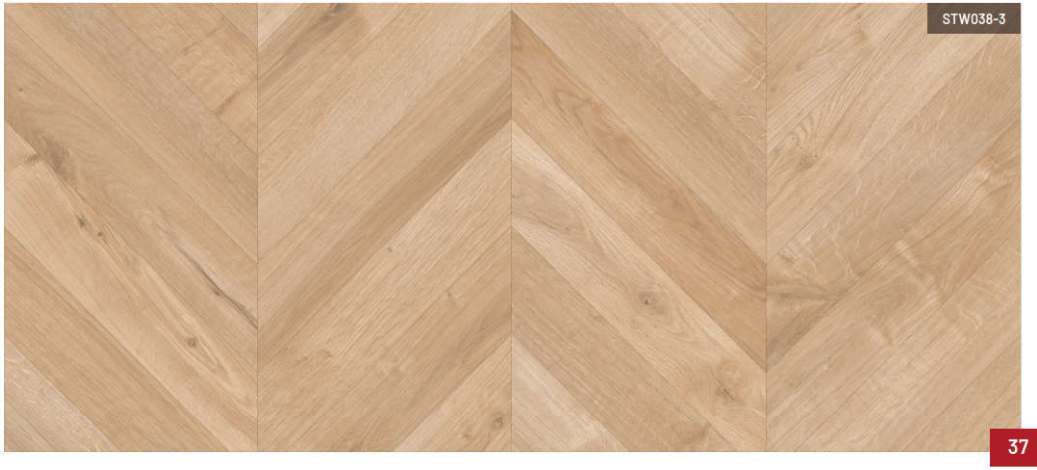
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ECO-CORE PRINT FLOOR, ECO COMMERCIAL CHOICE

STA270-3


STW247-1


STW302-2


STW055-1


STW339-1


STW263-2


STW132-3

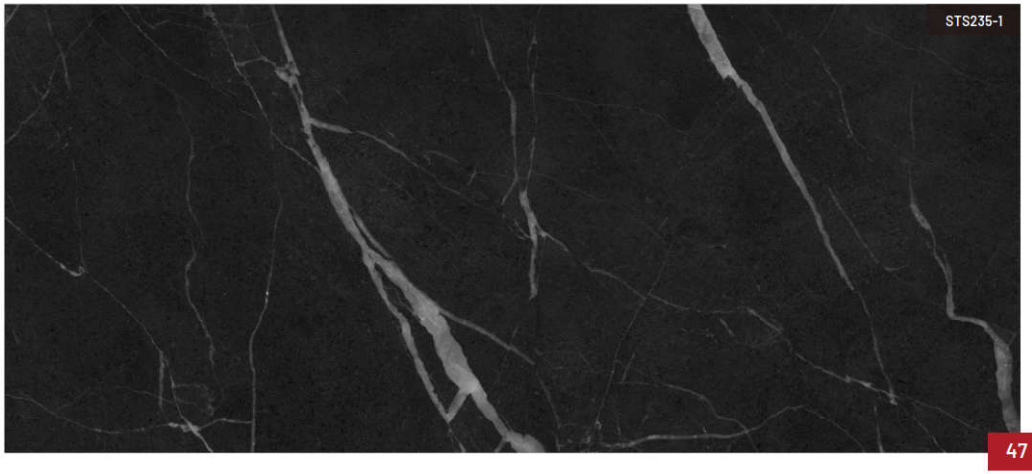

STW004-4


STW189-1


STW123-3


STS024-1


STS168-1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STS140

STA252-A


STW263-1


STW263-1
STW263-2
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STW263-4
STW263-5
STW263-6

STW246-1


STW269-2


STW262-1


STW130-3


STW169-4


STW333-1


STW191-1


STW130-3


STW190-1


STW191-1

NEOERA DIGITAL PRINTING FLOOR TECHNICAL DATA SHEET

Test Item	Test Standard	Test Result
Abrasion Resistance	ASTM D4060	31mg
Resistance to Chemicals	ASTM F925-13	Not affected
Cleanability & Stain Resistance	NALFA LF 01-2019 3.4	Garde 0; No effect
Static Load Resistance	ASTM F970-17	0.07mm
Resistance to Heat	ASTM F1514-19	1.24
Resistance to Light	ASTM F1515-21	1.6
Residual Indentation Method 1	ASTM F1914-18	0.02mm
Residual Indentation Method 2	ASTM F1914-18	0.02mm
Dimensional Stability and Curling	ASTM F2199-20	Length direction: 0% Width direction: 0.01% Curling: 0.014in
Static Coefficient of Friction	ASTM C1028-07	Dry condition 0.98; Wet condition 0.61
Critical Radiant Flux	ASTM E648-19	>1.10 W/cm2
Smoke Density	ASTM E662	Refer to the test report
Impact Insulation Class (IIC)*	ASTM E492 & E989	53
Sound Transmission Class (STC)*	ASTM E90 & E413	52
Improvement in Impact Insulation Class (ΔIIC)*	ASTM E2179 & E989	19
Impact Insulation Class (IIC)*	ASTM E492 & E989 drop ceiling	62
Sound Transmission Class (STC)*	ASTM E90 & E413 drop ceiling	62
Surface Burning Characteristics	ASTM E84	FSI:40, SDI:700
Scratch Resistance	ISO 1518-1	Horizontal: No visible scratch on the surface. Vertical: Visible scratch on the surface, but no penetration to the substrate.
Castor Chair w/ Underlayment (Sentinel Protect Plus) 25000 cycles	NALFA LF 01-2019 3.9	Pass
Thickness Swell	NALFA LF 01-2019 3.2	0.4%
Large Ball Impact Resistance	NALFA LF 01-2019 3.5	>1400mm
Small Ball Impact Resistance	NALFA LF 01-2011 3.6	>525mm
Soluble Elements Analysis	ASTM F963-17	ND
Formaldehyde Emission	ASTM D6007-14	ND
Wear Resistance	NALFA LF 01-2019 3.7	4000r
The body Voltage	EN1815	0.2kv

* NEOERA digital printing floor Technical Data Sheet

NEOERA DIGITAL PRINTING FLOOR TECHNICAL DATA SHEET

Test Item	Test Standard	Test Result
Dimensional Stability after Exposure to Heat (mm)	EN ISO 23999:2018/ISO 23999:2021 (80℃)	0.13% (long side) 0.07% (short side)
Dimensional Stability after Exposure to Cold (mm)	EN ISO 23999:2018/ISO 23999:2021 (-18℃)	-0.07% (long side) -0.03% (short side)
Curling after Exposure to Heat (mm)	EN ISO 23999:2018/ISO 23999:2021 (80℃)	0.5mm
Curling after Exposure to Cold (mm)	EN ISO 23999:2018/ISO 23999:2021 (-18℃)	0.1mm
Abrasion / Wear Resistance (method A)	EN 13329:2006+ A1:2008, Annex E	AC4 >4000 AC5 >6000
Micro-Scratch Resistance (GLOSS)	EN 16094:2012	MSR-A2
Micro-Scratch Resistance (SCRATCH)	EN 16094:2012	MSR-B2
Fire Classification	EN13501-1	Cfl-s1
Slip Resistance	DIN 51130 EN 13893	R9 DS
Heat Stability of Resilient Flooring by Color Change	ASTM F1514	△E < 4.0
Coating Adhesion	ASTM D3359	5B
Residual Indentation (mm)	EN ISO 24343-1	0.05mm
Thickness swelling in water	NALFA LF01-3.2	0.34%
Castor Chair	Nalfa LF01 (modified)	25000 (Sample without pad) 15000 (Sample with cork pad)
Resistance to Scratching	EN 438-2:2016+A1:2018, Section 25	4N
Staining Resistance	EN438-2	Pass
Heavy Metal Migration	EN 71-3:2019	ND
Lead (Pb) Content	(EU) No. 628/2015	ND
Phthalates	EN 14372: 2004	ND
Formaldehyde	EN 717-1	E1
Substance of Very High Concern (SVHC)	Reach	Pass
Impact Resistance	EN 13329:2006+A1:2008, Annex F	Pass (324g Polished steel ball, drop height 1800mm)

* NEOERA digital printing floor Technical Data Sheet

Profile Range

400 x 100mm // 16" x4"

635 x 127mm // 25" x5"

1220 x 181mm // 48" x7"

1220 x 228mm // 48" x9"

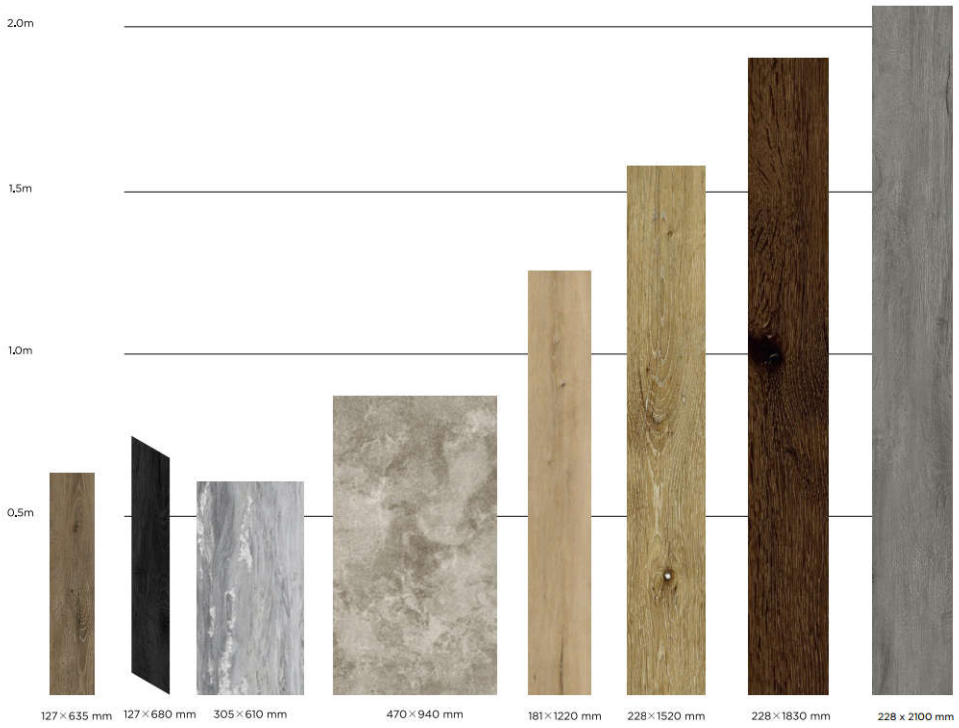
1520 x 181mm // 60" x7"

1520 x 228mm // 60" x9"

1830 x 228mm // 72" x9"

610 x 305mm // 24" x12"

940 x 470mm // 37" x18.5"



Installation Guide

NEOERA Digital printed Eco-core flooring is based on a very unique formulation which combines the advantage of virgin PP and mineral composites; Before Installation, please pay attention to below important points. Improper installation will void warranty.
1.Carefully examine the flooring prior to installation for grade, color, finish and quality. Ensure adequate lighting for proper inspection. If flooring is not acceptable, contact your supplier immediately and arrange for replacement. No claims on surface defects will be accepted after installation.

2.Ensure the subfloor dry,structurally sound. The subfloor should be clean(thoroughly swept and free of all debris),the level should be flat to 0.5cm per 30sqm.
3.A 6-mil poly-film moisture barrier is required over concrete or other subfloor situations when moisture is above 3.5%.
CAUTION: Do not install Digital printed Eco-core on soft underfloors like carpet or foam mats.
If need underlay such as IXPE we recommend 1.0mm in 10times or 7.5times.

4. Store the flooring in the installation area for at least 48 hours before installation in unopened package to allow flooring to adjust to room temperature. These floors need adequate acclimation for moisture equalization prior to installation and should not be installed from just-opened boxes. After installation, make sure to keep the room within a temperature range of 15°C to 27°C. Excessively high or low temperatures may cause this product to expand or contract and lead to visual defects of the floor that will not be warranted. For the best result, make sure to always work from 2 to 3 cartons at a time, mixing the planks during the installation.

5.Flooring should be one of the last items installed in any new construction or remodel project. All work involving water or moisture should be completed before flooring installation. Installing flooring onto a wet subfloor will most likely cause cupping, tip & edge raising, telegraphing of core and subsequent gaping.

Installation Tools

Tape measure

Chalk line

Crosscut power saw

3M Blue Tape

Pry bar or pull bar

Pencil

Wood or plastic spacers (3/8")

Tapping block
(trimmed piece of flooring)

Acceptable subfloor types

CDX Underlayment grade plywood (at least 1/2" thick) ;Underlayment grade particleboard ;OSB(at least 3/4" thick) ;Concrete Slab ;Existing wood floor ;Ceramic tile ;Resilient tile; Sheet vinyl

Pre-installation subfloor Requirements

Although NEOERA Digital printed Eco-core floor is water proof, it is not a moisture barrier.
It is still good to make sure concrete is cured and subfloor is dry.
All subfloor must be dry and structurally sound,
Clean: Thoroughly swept and free of all debris
Level: Flat to 0.5cm per 30 sqm.
Do not install floors where it will be exposed to temperatures greater than 60 ℃

Read before Installation

1) Expansion Gap
Because houses and buildings, as well as adjacent hardwood or laminate floors, expand and contract, NEOERA recommends to leave at least 10-12mm expansion gap to the walls and other fixed objects. Use spaces of 10-12mm thick.
2) T-mold
Areas greater than 100 ㎡ or 10m in either direction, transitions between rooms, and asymmetrical areas require extra expansion gaps utilizing a T-mold.
3)For in-floor Radiant heat
This product can be installed over in-floor heating systems which have a minimum of 12mm separation from the product. Maximum operating temperature should never exceed 85°F (30°C). Use of an in-floor temperature sensor is recommended to avoid overheating. Before installing over newly constructed radiant heat systems, operate the system at maximum capacity to force any residual moisture from the cementitious topping of the radiant heat system. The maximum moisture content should be 3.5% (CM method). Before starting the installation, turn the heat off for 24 hours before, during, and 24 hours after installation when installing over radiant heated subfloors.Make sure that the temperature in the room is between 60°F (15°C) and 80°F (25°C) during installation.Once the installation has been completed, the heating system should be turned on and increased gradually (5 degree increments) until returning to normal operating conditions.Refer to the radiant heat system's manufacturer recommendations for additional guidance.
Warning: Electric heating mats that are not embedded into the subfloor are not recommended for use underneath the flooring. Using electric heating mats that are not embedded and applied directly underneath the flooring will void the warranty.

4) In cases where the flooring is in direct sunlight for much of the day (Sunrooms, etc.), it's recommended that the planks be glued down additionally in those areas. Be sure to follow the adhesive manufacturer's instructions.

Protection and Maintenance of Your floor

1) Furniture should be moved onto the newly installed floor using an appliance hand truck over hardboard runways.
2)Do not expose Sentai Digital printed Eco-core floor to temperature exceeding 60 ℃
3)Oil or petroleum-based products can result in surface staining. Do not track asphalt-driveway sealer or automobile-oil drips onto the Digital printed Eco-core floor
4)Caster wheeled chairs should have wide, rubber casters. Protective mats are required under office chairs.
5)Use non-staining mats. Rubber may discolor the floor.
6)Frequently moved furniture should be equipped with felt pads to avoid scratching the floor. Heavy furniture and appliances should be equipped with non-staining large surface floor protectors. Furniture with castors or wheels must be easy swiveling, large surface non-staining and suitable for resilient floors. Do not use ball type castors as they can damage the floor.
7)Use floor protectors under furniture.
8)Use walk off mats at entrances to prevent dirt and grit from being tracked on to the floor.
9)NEOERA Eco-core digital printed floor, like other types of smooth floors, may become slippery when wet. Allow time to dry after cleaning.

Initial & Routine Maintence

Sweep, dust mop or vacuum the floor to remove all loose dirt and grit.
Clean the floor using a properly diluted Neutral PH cleaner in cool water.
Mop or machine clean it
Rinse the floor thoroughly with clean water and allow it to dry. Fans or air moves can speed up the drying time.

Daily Cleaning Directions

Sweep floor to remove loose dirt & soil
Mop floor with the cleaning solution
Trail mop excess soil and wet areas with a clean, tightly wrung out mop
No rinsing required

Allow floor to air dry completely

Claims

The claims are exclusively and unconditionally only for production faults of the material. Claims cannot be made for material on which product faults are visible that has already been used, machined and /or processed. Claims never apply to unauthorized use or incorrect application of the material. Seller will offer the new material to replace the bad products only, and not be liable for cost related such as installation costs, transportation and delivery costs, or time and labor costs. All typesetting and printing errors reserved.

NEOERA®