

GREEN PAPER

**NOX
REDEFINES
SUSTAINABILITY
STANDARD OF
FLOORING**



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NOX, the global flooring innovation leader

Founded in 1994 with its roots in a chemical engineering company, NOX has been a professional flooring company leading the edge of LVT innovation worldwide. NOX successfully expanded its presence in global markets by exporting products to the United States, Europe, and Japan with its premium flooring, which has been recognized by professional groups such as designers, architects, and general consumers worldwide for its global prominence in product quality, durability, and designs and proved its global leadership in the LVT flooring industry.

NOX, FLOORING INNOVATION LEADER REDEFINES SUSTAINABILITY STANDARD OF FLOORING

Since our founding in 1994, NOX has been following the core philosophy that flooring, which stands closest to our every lives, should be the most eco-friendly and sustainable products.

Green Mountain + Blue Water = NOX

As the fertile ground has a need for clean spring water, NOX was built upon a preposition to serve as "Blue Water," the foundation of the healthy environment nourishing "Green Mountain," the better place, as each letter of our corporation name stands in Korean.

Following our philosophy, we invented LVT flooring, the product of devoting our engineering background and expertise in synthetic resins and new materials to co-exist with plastic and initiate a sustainable standard in the industry as we live through the Age of Plastic.

We also made progress in producing 100% recyclable products only, by developing a resource-circulating system that conserves the natural environment and protects it from damage.

Since NOX's establishment, our first and only Integrated Vertical Production (IVP) has been developing to produce high-quality products that innately possess the advantages of natural materials while complementing their disadvantages.

Now, NOX is proud to announce that our Integrated Vertical Production (IVP) has once again evolved into Circular Integrated Vertical Production (Circular IVP).

To make tomorrow a better place, we innovate sustainably and declare to introduce Bio-Circular Balanced PVC to all our product lines by replacing 95% of the main raw materials with sustainable raw materials and producing 100% recyclable products only.

NOX with Circular IVP will continue to redefine sustainability standard of flooring.



Dan DH Koh
President & CEO

CEO MESSAGE



ABOUT NOX



DIFFERENT ORIGIN, DIFFERENT QUALITY

Our Heritage

NOX is a professional flooring company that traces its roots to an engineering company founded in 1966. Based on its expertise in synthetic resins, NOX has built know-how on the entire process of LVT flooring, including raw materials, machinery, and production systems over 60 years.

Mission

Practice economical and sustainable responsibilities by using natural and artificial resources.

Vision

Be global No.1 high-performance professional space design company.

Philosophy

Reliability

We ensure "Global Best" quality for our customers, the environment and our people.

Possibility

We realize "Global First" innovations through the expertise of our people for a sustainable future

Dedication

We pursue shared social valued and help our customers grow together with the passion to "do the right thing"

GLOBAL OPERATION



Shinho 1st Factory
Layer sheet calendaring



Enbo Factory
Design printing



Godeok Factory
R&D center, LVT lamination, Yarn manufacturing & weaving cutting & finishing



NOX Exterior Factory, Gumi
Yarn manufacturing & weaving cutting & finishing



Shinho 2nd Factory
PVC-free layer sheet calendaring



Deoksan Factory
Click LVT, cutting & finishing



Bongsan Factory
LVT lamination, cutting & finishing



KD Center Seoul
Design center & offices

NOX Corp.



South Korea



Vietnam



USA

NOX US



NOX US 1st Factory
Ohio



NOX US 2nd Factory
Ohio

NOX ASEAN



NOX ASEAN
Ho Chi Minh, Vietnam

NOX HAS GROWN A GLOBAL PRESENCE IN ALIGNMENT WITH SUSTAINABILITY AND CONTINUES TO INNOVATE FOR A BETTER FUTURE

In 2015, NOX established its first global factory in Ohio, USA, and the second in 2019, which proved its potential for expansion and global competitiveness. Following its footprint, in 2021, the NOX ASEAN factory was established in Vietnam with the most advanced facilities, marking another step in global competitiveness.

HISTORY AND MILESTONES

History

- 2021** Established NOX ASEAN, Ho Chi Minh, Vietnam
- 2019** Expanded NOX US 1st Factory & established NOX US 2nd Factory
Acquired Hunter Douglas Korea's R&D & Production Facility and Established NOX Exterior
- 2017** Completed construction of Seoul Design Center
Launch of SOLIDE+ (Hybrid Wood Flooring), NOX Digital Printing Tech (New Dimension in Floor Design), CERAMIT (Built-In-Grout Technology)
- 2016** 6th NOX Factory - Shinho 2nd Factory
- 2015** Established NOX US (1st plant) in Fostoria, Ohio
- 2014** **Industry's first Embossed-In-Register production from continuous laminating line**
Factory Expansion – Godeok, Bongsan
- 2013** **Launch of 'EPT™ (Eco-Pro-Tec)' antimicrobial surface coating**
- 2012** **World's first launch of Hybrid Carpet Flooring LOOM+**
- 2010** 5th NOX Factory – Deoksan
Utilized environment-friendly calcium zinc stabilizer and DOTP for the first time in the industry
- 2009** **First production of Non-Phthalate Formulation LVT**
- 2004** 4th NOX Factory - Enbo
- 2003** **Launched the world's first eco-friendly glueless LVT click flooring 'ECOLICK+' and LooseLay LVT 'ECOLAY+'**
- 2001** 3rd NOX Factory – Shinho 1st Factory
- 2000** **World's first NOX IVP (Integrated Vertical Production) system**
2nd NOX Factory – Bongsan
- 1997** First launch of 'EMT™(Eco-Multi-Texture)' Core LVT
- 1994** Established NOX Corporation and 1st NOX Factory - Godeok

Certifications

- 2023** **Received 'Best of Surface 2023' for sustainability/Disruption**
Received 'World Class Product of Korea' by MOTIE
- 2020** Received \$200M Export Achievement Tower
- 2018** Received 'Shanghai DOMOTEX Asia Contribution Award'
- 2015** Received 'Innovation@DOMOTEX Hannover'
Received 'IDEA 2015'
- 2014** Received 'Red Dot Award 2014'
Received 'Good Design Award 2014'
- 2013** Received 'NEOCON Silver Award'
Received \$100M Export Achievement Tower
- 2012** Received 'SURFACES Most Innovative Award'
Received 'NEOCON Best Product Award'
- 2009** Received SEAL OF EXCELLENCE by the Korean Government
- 2008** Selected as 'World Class Corporation' by KIAT
- 2007** Selected as 'INNOBIZ company for technology award' by Korean Government
- 2005** Received Walmart's 'Green Rating' for factories
- 2003** Received ISO 9001 Certification
- 2000** Received \$1M Export Achievement Tower
- 1994** Industry's first JIS certification from JAPAN



SUSTAINABLE FLOORING

Since our founding in 1994, NOX has been following the core philosophy that flooring, which stands closest to our everyday lives, should be the most eco-friendly and sustainable product. NOX, following our belief, continues the innovation in sustainability to produce 100% recyclable and long-lasting flooring with sustainable raw material used only.



NOX LEAD AND STAND AS A GLOBAL STANDARD OF THE INDUSTRY WITH UNRIVALED TECHNOLOGY AND INNOVATIVE PRODUCTS



1st&0th
NOX CIRCULAR IVP SYSTEM

NOX's Integrated Vertical Production (IVP) system defines our product quality, technology, and innovation. All processes are integrated from start to finish, promising perfect quality control and high-quality products.



6000+
IN-HOUSE DESIGNS

NOX is the industry frontrunner shaping the latest trend, offering more than 6,000 in-house designs. NOX's designs are of high quality, as proven by winning many world-class prestigious design awards such as "The Good Design Awards" "Red Dot Design Award," and more.



No.1
UNPRECEDENTED TECHNOLOGY

NOX's unique EMT™ Core (multi-layer structure method) and EPT™ Shield (premium surface coating) technologies have served as the foundation for innovation for both PVC and non-PVC synthetic resin products.



60+
YEARS OF EXPERTISE

NOX is a professional flooring company that has built knowledge about flooring technology based on its expertise in synthetic resins for over 60 years. NOX continues innovating to lead the global flooring market, leveraging the accumulated know-how on LVT flooring.



100%
COMMITMENT TO SUSTAINABILITY

Integrated Vertical Production (IVP) system that defined technology, and innovation has evolved into Circular Integrated Vertical Production (Circular-IVP) to practices carbon reduction and resource circulation at every stage from production to recycling.

SUSTAINABLE

FLOORING PRODUCTS

LVT, HIGH-PERFORMANCE FLOORING IN STYLE

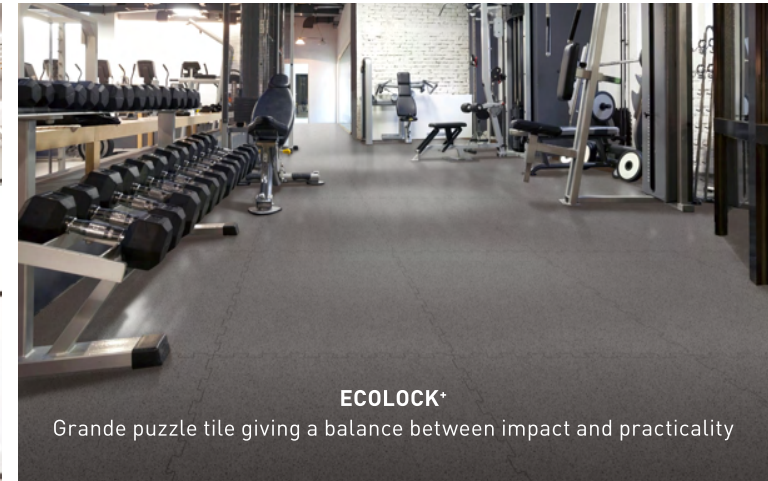
LVT is the foundation of NOX's product line, a legacy of chemical engineering. NOX's LVT products are based on core technologies related to the production and processing of various resin compounds, providing superior stability and durability while maintaining a sense of design. Experience NOX's LVT from residential to commercial.



Acoustic SetaGrip
Micro suction adhesion flooring



ECOLAY*
Easiest & strongest glueless LVT



ECOLOCK*
Grande puzzle tile giving a balance between impact and practicality



ECOLICK*
Click'n go and drop'n go



LUT EVERECO
Next level sustainable flooring PVC-Free LVT



ORCHID+

5-year warranty on high-performance flooring



ECOHOME 2000

Luxury flooring optimized for floor heating system



PRIME 1500

In style high-performance flooring



LOOM+

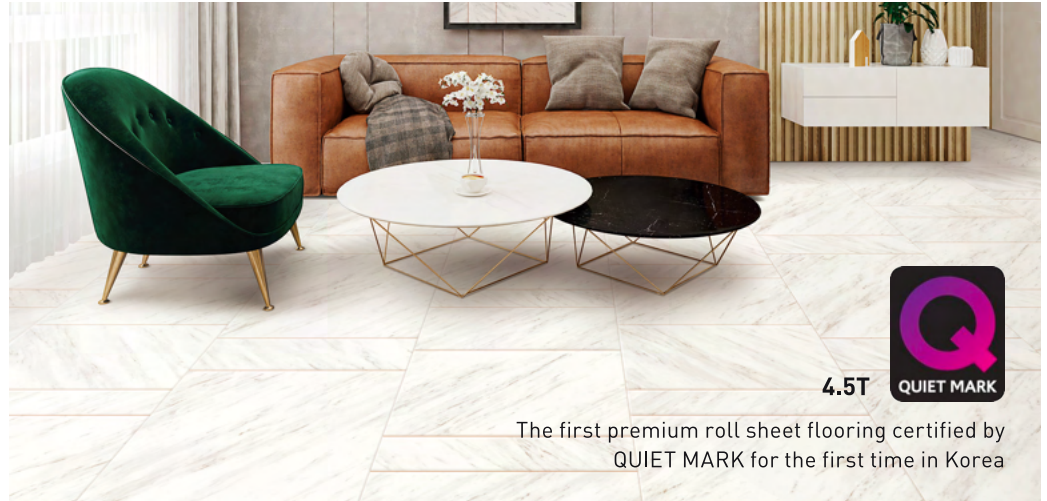
Hybrid carpet flooring

THE WORLD'S FIRST PREMIUM LVS+ FLOORING

Embedded with our SOUNDPROTEC acoustics performance technology, NOX LVS provides sound reduction with comfort underfoot. For flat, level surfaces in any area of the house –even high-traffic, moisture-prone areas – NOX LVS offers durable flooring with looks that closely resemble natural materials. Meet NOX LVS. Realistic stylishness, practical protection.



3.2T



4.5T

The first premium roll sheet flooring certified by QUIET MARK for the first time in Korea







SUSTAINABILITY CREDENTIALS GUIDE

NOX'S FLOORING HAS BEEN ACCREDITED WITH NUMEROUS GLOBAL CERTIFICATIONS

These certifications include ISO 45001 and ISO 14001, which are international standards for environmental & occupational health and safety (OH&S) management system. Additionally, NOX has obtained various international certifications related to environmental sustainability, such as FloorScore® and GREENGUARD GOLD, which ensure superior air quality.

Moreover, NOX's products are verified by reputable third-party organizations including EPD and HPD that demonstrates the reliability and credibility of the products for industrial health, safety and environmental management system.

HEALTH

Certification	Description
	Indoor Air Comfort Gold is the highest level of Indoor Air Comfort certification provided by Eurofins, it shows compliance of product emissions with the criteria of all legal specifications issued by authorities in the European Union and its Member States and additionally compliance of product emissions with the criteria of many of the voluntary specifications issued by most relevant eco-labels and similar specifications in the EU and requirements for sustainable building certifications. Therefore certified products are those with the best-in-class low emissions, thus good for indoor air quality.
	FloorScore® is the most recognized indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlays. Developed by SCS with the Resilient Floor Covering Institute (RFCI), a leading industry trade association of flooring manufacturers and suppliers, it qualifies for many green building schemes including LEED v4.1, WELL, BREEAM, CHPS, and Green Globes.
	French A+ VOC Label is obligatory emissions classification and labelling regulation, showing their emission class (A+ is the highest), resulting from 28-days VOC emission testing in a ventilated chamber in accordance with ISO 16000 regarding ten substances: formaldehyde, acetaldehyde, toluene, tetrachloroethylene, xylene, trimethylbenzene, dichlorobenzene, Ethylbenzene, butoxietanol.
	Eco-Label provided by Ministry of Environment, certifies products that have reduced environmental impacts. Encourages consumers to purchase environmentally friendly products while inducing companies' voluntary action for environmental improvements in their products.
	OEKO-TEX® STANDARD 100 is one of the world's best-known labels for textiles tested for harmful substances. It stands for customer confidence and high product safety.
	Health Product Declarations (HPDs) provide a full disclosure of the potential chemicals of concern in products by comparing product ingredients to a set of priority "hazard" lists based on the GreenScreen for Safer Chemicals and additional lists from other government agencies.
	GREENGUARD gold certification is provided by UL, which means achieved product is scientifically proven to meet some of the world's most rigorous third-party chemical emissions standards, helping to reduce indoor air pollution and the risk of chemical exposure.
	ECV LABEL (ANTI-BACTERIA) ECV LABEL provides third-party credibility to the single-attribute environmental claims and helping facilitate trust and confidence in manufacturers and customers. Tests certain products/materials for resistance to microbial growth in accordance with standard test methods.
	ECV LABEL (ANTI-FUNGI)

ENVIRONMENTAL LIFE CYCLE ANALYSIS

Certification	Description
	Environmental Product Declaration (EPD) is a transparent, objective report that communicates what a product is made of and how it impacts the environment across its entire life cycle. A verified EPD can earn your products credits for LEED v4 and other green building rating systems.

SUSTAINABILITY

Certification	Description
	KSA ISO 14001 sets out the criteria for an Environmental Management System (EMS) and maps out a framework for a company to follow in setting up an effective EMS.
	International Sustainability and Carbon Certification (ISCC) is a globally applicable sustainability certification system and covers all sustainable feedstocks, including agricultural and forestry biomass, circular and bio-based materials and renewables.
	The Singapore Green Building Product (SGBP) scheme is a certification for green building products and materials. It is based on scientific and engineering principles and built upon the collective knowledge and expertise of the building and construction industry.

INSTITUTIONS

Certification	Description
	Resilient Floor Covering Institute (RFCI) is a leading industry association for hard surface flooring, all about helping designers, architects, facilities managers, home owners, and others make wise flooring decisions. Flooring is a part of our everyday life, so it must be trusted for durability and sustainability.
	Health Product Declaration® (HPD) Collaborative is a not-for-profit, member association. HPDC Automates Product Screening for HPD-reported Information.
	International Organization for Standardization (ISO) is an independent, non-governmental international organization with a membership of 167 national standards bodies. *As of 2023 Through its members, it brings together experts to share knowledge and develop voluntary, consensus-based, market relevant International Standards that support innovation and provide solutions to global challenges.
	Ministry of Environment, the environmental authority of the Republic of Korea is a governmental organization in establishing and implementing policies on the environment in the Republic of Korea. It deals with environmental issues about air, water quality, waste, and the natural environment, and operates various measures and programs to solve them.
	UL Solutions is a global independent safety science company with more than a century of expertise innovating safety solutions.



NOX FLOORING FOR LEED® CERTIFICATION

LEED is a globally recognized sustainable building certification that grew from the U.S. Green Building Council. It is an essential strategy for achieving ESG and contributes to buildings having higher resale value and lower operational costs.

Materials and Resources	Max. Points
Building Product Disclosure and Optimization – Environmental Product Declarations	2
Environmental Product Declarations	2
Building Product Disclosure and Optimization – Material Ingredients	2
Construction and Demolition Waste Management	2
Indoor Environmental Quality	Max. Points
Low-Emitting Materials	3
Indoor Air Quality Assessment	2
Acoustic Performance	1

NOX IVP

TO CIRCULAR IVP

NOX redefines sustainability standard of flooring for tomorrow



 NOX Circular IVP



RENEW

Carbon-reducing raw materials

- The world's first and most sustainable flooring with over 90%* of key raw materials converted into carbon-reducing materials using recycled resources such as discarded cooking oil and used PET bottles.

*The percentages may vary upon request



REDUCE

Waste zero

- Minimizes energy usage and waste in manufacturing
- Minimizes the use of resources for installation and maintenance with product innovation



RECYCLE

100% Recyclable

- Produces 100% easily recyclable floorings only

SUSTAINABILITY INNOVATION BY CONVERTING KEY FLOORING MATERIALS INTO CARBON-REDUCING MATERIALS

NOX LVT

- Vinyl for NOX LVT is made of 57% chlorine from common salt and 43% of ethylene from natural gas

CARBON-REDUCING RAW MATERIALS INNOVATION



114% carbon-reducing Bio-Circular Balanced PVC to entire product line

- Bio-Circular Balanced PVC(BCBP) is a sustainable raw material produced using discarded resources, such as waste cooking oil, which reduces carbon emissions by 114% compared to conventional materials.
- This material is ISCC PLUS certified, which is the world's most prestigious certification of sustainability, demonstrating compliance with the legal sustainability requirements specified in the Renewable Energy Directive (RED).



Eco-friendly plasticizer made from waste PET bottles

- Softening the vinyl is an important part of producing a flexible and versatile product, and plasticizers can be added to soften the vinyl and improve product performance at various temperatures depending on its purpose. NOX's vinyl flooring does not use plasticizers registered as reproductive toxins, endocrine disruptors, or carcinogens to soften the vinyl. NOX introduced eco-friendly plasticizers that recycled PET bottles for the first time in the industry, and further added the safety and sustainability to raw materials.



100% natural mineral material

- NOX's flooring filler is made of 100% natural mineral limestone (CaCO_3) derived material and carbon-reducing filler materials only. NOX eco-friendly filler layer give dimensional stability to the flooring by making it more durable and heavy, while emitting low level of VOC.



100% EASILY

RECYCLABLE FLOORING

**PRODUCE 100%
EASILY RECYCLABLE PRODUCT ONLY
TO CREATE RESOURCE-CIRCULATING SYSTEM**

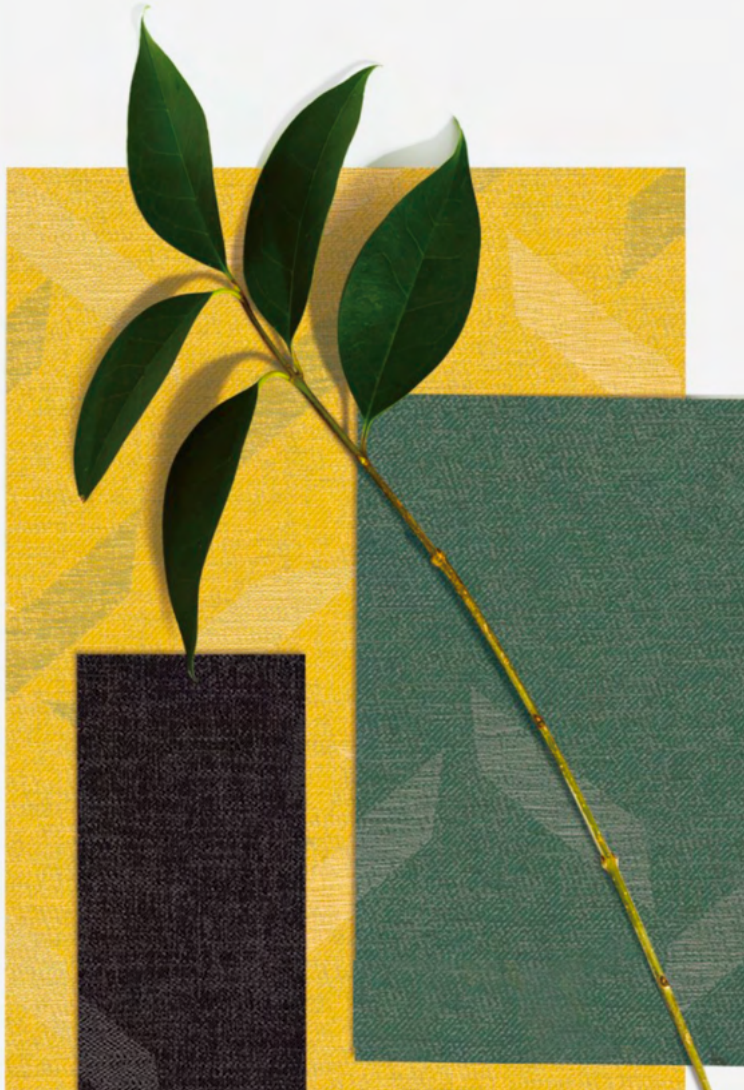
Since 2000, NOX has been operating the world's first and only IVP (Integrated Vertical Production) system, producing and integrating the multiple layers that consist LVT.

NOX's IVP system connected each manufacturing stage and integrated it into one flow, making the flooring more durable with perfect quality control, which encouraged us to produce eco-friendly products.

NOX, the No. 1 company in the LVT industry, has declared that it will produce 100% recyclable products only to lead the industry and continue the sustainable innovation.

NOX will continue to redefine the sustainability standard of flooring by producing eco-friendly flooring and innovating sustainably for a better tomorrow with our business partners.

YOUR SUCCESS IS OUR SUCCESS



NOX'S PRINCIPLE-BASED IMPLEMENTATION LEADS TO OUR CUSTOMERS' SUCCESS

Reliability

"NOX's passion to consistently deliver on the promises is what has allowed us to consistently achieve number one in the highly sophisticated Japanese market."
-A trusted Japanese customer since 1995

Possibility

"Our partnership with NOX has built the foundation for our company to grow from \$0 to \$40 million in annual revenue in just five years."
-German customer started LVT business since 2007

Discipline

"I am grateful for the efforts of NOX employees who worked at the container workshop at Busan Port to correct the wrong problem and resolved it perfectly until the end. We were able to see what kind of service NOX can provide to our customers, and I think this is a glimpse of NOX's positive future."

Unparalleled Quality and Technology

"With a global production base, NOX has always been able to consistently provide the highest quality products that reflect high technology. Compared to all suppliers around the world, NOX is undoubtedly second to none."
-Large North American flooring distributor customer

Sustainability Innovation

"As a leading media outlet in the flooring industry for more than a decade, I have followed NOX's sustainable innovations with interest. We are delighted to be working with them in 2023 as their sustainable innovations mark a significant milestone in the flooring industry, and we look forward to seeing how NOX will continue to set new standards in the industry as they have done so far."
-Editor-in-Chief of a flooring industry publication

NOX redefines sustainability standard of flooring for tomorrow

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