



SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

1084-10-1001

Amtico Signature

Product group: Vinyl

amtico
flooring

Amtico International GmbH
Hammer Straße 17
40219 Düsseldorf



Product qualities:



Köttner

Helmut Köttner
Scientific Director
Freiburg, 06 July 2026



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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Other floor coverings	TVOC $\leq 160 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 10 \mu\text{g}/\text{m}^3$	Indoor Air Quality Certified
Valid untill: 13 November 2030			



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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.2 Resilient floor coverings – including multilayer systems	VOC / Emissions / hazardous substances / polycyclic aromatic hydrocarbons (PAH) / SVHC / heavy metals	QNG ready
Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025). Herstellererklärung vom 02.07.2026.			



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DGNB New Construction 2023.2

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Elastische Bodenbeläge (innen)		Quality level 3

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellererklärung vom 02.07.2026.



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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	7 Floor coverings (Resilient floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellererklärung vom 02.07.2026.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	7 Floor coverings for indoor use (elastic floor coverings)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 3

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellererklärung vom 02.07.2026.

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score
Verification: Das Produkt verfügt über eine Environmental Product Declaration (EPD)	



Criteria	Assessment
SOC1.3 Sound insulation and acoustic comfort (*)	May positively contribute to the overall building score

Verification: Das Produkt verfügt über akustische Varianten, die eine Verbesserung der Schalldämmung ermöglichen.



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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	7 Floor coverings (Resilient floor coverings)	VOC / SVOC / hazardous substances	Quality level 4

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellererklärung vom 02.07.2026.



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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 3

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellereklärung vom 02.07.2026.



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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control	Floor coverings (including associated adhesives and sealants)	Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	compliant

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).
Herstellererklärung vom 02.07.2026.



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Flooring materials (including floor levelling compounds and resin flooring)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).



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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: Eurofins IAC Gold Zertifikat vom 13.11.2025 (Nr. IACG-352-01-12-2025).			



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Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.



Eurofins Indoor Air Comfort® confirms compliance with requirements for low VOC emissions. The standard level covers all mandatory VOC regulations in the EU, while the Gold level additionally takes into account emission criteria from voluntary ecolabels and building certifications.



This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.



Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: <https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren/kriterien%20of%20Pr%C3%BCf%20Produkte>

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Amtico Signature und Bio

Technische Daten

SIG-TS-20260421-18-DE

Bezeichnung	Prüfnorm	Symbol	Ergebnis
CE / DOP	EN 14041		CPR/AI/001
Klassifizierung	EN ISO 10874		23, 34, 43
Herstellungsnorm	EN ISO 10582		Bestanden
Gesamtdicke	EN ISO 24346		2,5 mm
Nutzschichtdicke	EN ISO 24340		1 mm
Gewicht	EN ISO 23997		3150 g/m ²
Verschleißfestigkeit	EN ISO 10582		Typ 1
Resteindruck	EN ISO 24343-1		≤ 0,1 mm
Dimensionsstabilität	EN ISO 23999		≤ 0,25 %
Dimensionsstabilität	EN ISO 23999		≤ 2 mm
Rutschhemmstufe	EN 13893		Klasse DS
Rutschhemmstufe	EN16165 Annex B EN16165 Annex C		R10* PTV ≥36 Nass
Chemikalienbeständigkeit	EN ISO 26987		Sehr gut
Lichtechtheit der Farbe	EN ISO 105-B02		≥ 6
Brandverhalten	EN 13501-1		B _{fl} -s1
Stuhlrollenbeanspruchung (Typ W)	EN ISO 4918		Bestanden
Trittschalldämmung	EN ISO 717-2		6dB
Wärmedurchlasswiderstand	EN 12667		0,016 m ² K/W (geeignet für Fußbodenheizung)
Elektrostatisches Verhalten	EN 1815		≤ 2 kV
Emissionsverhalten	IAC Gold		Zertifikat IACG-352-01-12-2024
Emissionsverhalten	Französische VOC-Verordnung	 Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).	A+
Emissionsverhalten	M1		Zertifiziert
UPEC	U ₄ P ₃ E ₁ C ₂ Bois ou à base de bois U ₄ P ₃ E ₂ C ₂ Chape ciment ou béton	  Revêtements de sol résilients 326-0011 http://evolution.cstb.fr	Zertifikat UPEC 326-0011
Frei von Orthophthalaten			Ja - Amtico Signature wird mit orthophthalatfreien und biologischen Weichmachern hergestellt.
Oberflächenschutz			Quantum Guard Elite - Polyurethan
Antimikrobielle Wirkung (antibakteriell)	ISO 22196:2011	Amtico Signature wird mit einem antimikrobiellen Additiv von Addmaster® hergestellt - Getestet gegen MRSA und E.Coli	≥ 99,9 % innerhalb von 24 Stunden (verglichen mit unbehandelten Polyethylenoberflächen)
Antimikrobielle Wirkung (antiviral)	ISO 21702:2019	Amtico Signature wird mit einem antimikrobiellen Additiv von Addmaster® hergestellt - Getestet gegen SARS-CoV-2 (Das Virus, das Covid-19 verursacht)	≥ 85,5 % innerhalb von 24 Stunden (verglichen zu inertem Glas) ≥ 99,9 % innerhalb von 24 Stunden (gegenüber der Erstinokulation)
Falls mit bioattribuierter option gefertigt	ISCC Plus		ISCC-PLUS-Cert-DE100-12801122

*Für Sicherheitsbodenbeläge mit langfristiger Rutschfestigkeit empfehlen wir Amtico Signature Safety.

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flooring

Amtico Signature

Produktbeschreibung

SIG-PR-20220426-03-DE

1. Produktbeschreibung

Designbelag (LVT) gem. EN ISO 10582.

1.1. Besondere Merkmale

Amtico Signature ist ein exklusiver und vielseitig einsetzbarer Designbelag mit einer Aufbauhöhe von 2,5 mm. Seine robuste Nuttschicht mit 1 mm Stärke macht ihn zu einem besonders strapazierfähigen Bodenbelag. Die beeindruckend natürlichen Dekore und Farben, sowie die enorme Auswahl an Dimensionen, lassen nahezu jeden Gestaltungswunsch Wirklichkeit werden. Mit Akzentstreifen, Bordüren sowie Friesen und Motiven sind der Kreativität kaum Grenzen gesetzt. Amtico Signature ist ab Werk mit einer Quantum Guard Elite PUR Beschichtung ausgestattet. (Ausnahmen möglich).

2. Einsatzbereiche

Zu den geeigneten Einsatzbereichen gehören der gehobene Einzelhandel, Bürobereiche, anspruchsvolle Gastronomie und Freizeit sowie Bildungswesen und Gesundheitswesen. Für individuelle Anforderungen in den Bereichen Schiffsbau oder bei höheren Anforderungen an die Rutschsicherheit empfehlen wir Amtico Marine und Amtico Signature 36+.

3. Produktangaben

3.1. Designoptionen

Holz-, Stein- und abstrakte Dekore:	92 Holzdekore
	75 Steindekore
	51 abstrakte Dekore

Akzentstreifen in verschiedenen Breiten, Bordüren, zahlreiche Designoptionen, Sonderanfertigungen und individuelle Kundendesigns sind möglich.

3.2. Belagsdicke und Gewicht

Gesamtdicke:	2,5 mm
Nuttschichtdicke:	1,0 mm
Gewicht:	3.150 g/m ²

3.3. Standard Abmessungen u. Verpackungseinheiten (VE)

Standardabmessungen und Verpackungseinheiten entnehmen Sie bitte der aktuellen Amtico Signature Produktbroschüre.

Für Amtico Signature Produkte wird außerdem ein Gestaltungsservice mit individuellen Zuschnitten angeboten.

3.4. Oberflächen

Holzdessins	Tick Barnwood Natural Wood Rustic Wood Earthen Plaster
Steindessins	Ceramic Riven Marble Earthen Plaster
Abstrakte Dessins	Ceramic Tick Dimple Light Dimple Riven Marble

4. Hinweise für die Planung

4.1. Umgebungsbedingungen

Amtico Bodenbeläge sind für die Verarbeitung und Nutzung in üblich genutzten und klimatisierten, bzw. beheizten Innenräumen (Ø 21°C, 55 % relative Luftfeuchte) geeignet. In Außenbereichen und unter extrem schwankenden Temperaturen ist vom Einsatz generell abzusehen. Der Belag ist für den Einsatz auf Warmwasser-Fußbodenheizungen oder elektrischen Fußbodenheizungen mit max. 60 W/m² geeignet. Hierbei darf eine Oberflächentemperatur von 27 °C nicht dauerhaft überschritten werden.

4.2. Die richtige Wahl des Dekors

Selbst ein so robuster Bodenbelag wie Amtico Signature kann und wird früher oder später Gebrauchsspuren aufweisen, und so seine natürliche und einzigartige Patina erhalten.

Wie bei allen Oberflächen ist der optische Eindruck von der Farbgestaltung abhängig. So sind dunkle oder schwarze Flächen empfindlicher als gedeckte oder hellere Dekore. Ein hellerer Belag weist bei gleicher Beanspruchung identische Gebrauchsspuren auf, ohne dass diese jedoch optisch stören.

Weitere Informationen finden Sie in unserem ausführlichen Dokument "Oberflächen – Schutz, Pflege und Werterhaltung".

4.3. Aufbauhöhe / Konstruktion

Amtico Signature Bodenbeläge werden in der Regel mit geeigneten Klebstoffen auf dem Unterboden dauerhaft verklebt. Die Wahl des Klebstoffes hängt wesentlich vom Untergrund und den Umgebungsbedingungen ab, und kann nur objektspezifisch beurteilt werden.

Hier reicht die Spanne von Trockenkleber über Dispersion bis hin zu 2K-Systemen. Bitte fragen Sie hier Ihren Klebstofflieferanten nach dem geeigneten System! Bei der Verarbeitung von Klebstoffen sind dann die jeweils auf dem Gebinde befindlichen Verarbeitungshinweise des Klebstoffherstellers, bzw. dessen objektspezifische Vorgaben zu beachten. Bei Dispersionsklebern muss eine saugfähige Schicht von mindestens 2-3 mm als Basis vorhanden sein.

Beispiel Aufbauhöhe:

Amtico Belag:	2,5 mm
Spachtelmasse:	~ 2-3 mm
Klebstoff:	~ 0,2-0,6 mm
Gesamthöhe:	~ 4,5-6 mm

4.4. Planerischer Schutz der Bodenbelagsfläche

Um die Einschleppung von Kontaktschmutz zu verringern und dadurch den Reinigungsaufwand zu reduzieren, müssen bereits in der Planung ausreichende Schmutzfangeinrichtungen vorgesehen werden. In der Regel geht man von einem Bereich von 2-3 Schrittlängen aus.

Hier empfehlen wir unser abgestimmtes System Amtico Entryway, welches optimalen Schutz mit hervorragender Optik verbindet und sich so in das Gesamtkonzept perfekt einfügt.

Bei ebenerdig, direkt aus dem Außenbereich zugänglichen Flächen, ist dort ggf. zusätzlich ein für Grobschmutz und Nässe abstreifendes Gitter einzuplanen.

5. Warentypische Eigenschaften - Hinweise zur Nutzung

5.1. Modularer Aufbau

Amtico Signature Bodenbelagselemente werden nicht verfugt, oder in sonstiger Weise untereinander verbunden. Vielmehr werden sie Stoß an Stoß möglichst dicht aneinandergereiht, wodurch eine lebendige Dreidimensionalität geschaffen wird. Durch die Anfasung der Kanten entsteht eine bewusste Abgrenzung des einzelnen Elementes, so dass das Ergebnis der natürlichen Vorlage so nahe wie möglich kommt. Weitere Informationen hierzu finden Sie in unserem ausführlichen Dokument "Sonder-Information: Fugen".

Ein weiterer Vorteil des modularen Aufbaus besteht darin, bei Bedarf einzelne (z. B. beschädigte) Elemente in der Fläche tauschen zu können. Das reduziert wesentlich die Kosten einer erforderlichen Reparatur.

5.2. Elastisches Verhalten

Elastische Bodenbeläge wie Amtico Signature sind seit Jahrzehnten für ihre hervorragenden Dämpfungseigenschaften bekannt und werden insbesondere an stehenden Arbeitsplätzen zur Schonung der Gelenke beim Begehen eingesetzt. Durch die Elastizität werden auch kleine Missgeschicke (z. B. ein herabfallender Gegenstand) nicht gleich zu teuren (Reparatur-)Schäden. Auch längere statische Lasten werden vom Belag aufgenommen. Ein eventuell entstandener Eindruck kann daher über einige Zeit erhalten bleiben.

Bitte lesen und beachten Sie in diesem Zusammenhang auch unser Dokument "Sonder-Information: Eindruckverhalten".

5.3. Langlebigkeit/Renovierbarkeit

Neben dem vorbeugenden Schutz ist für die Nutzbarkeit und Werterhaltung natürlich die korrekte Reinigung und Pflege von entscheidender Wichtigkeit.

Hierzu finden Sie ausführliche Informationen in der Reinigungs- und Pflegeanleitung!

Sollte dennoch irgendwann die Nutzschicht ihre Schutzeigenschaften verloren haben, so muss der Belag nicht gleich erneuert werden. Bei rechtzeitiger Anwendung kann Ihr Bodenbelag jederzeit fachmännisch mit einer neuen Versiegelung versehen werden – ähnlich wie bei einem Parkettboden.

Dadurch ist nicht nur eine nahezu unbegrenzte Lebensdauer gewährleistet, sondern Investitionen werden ebenso geschützt wie natürliche Ressourcen. Der Aspekt der Nachhaltigkeit ist Kern und Antrieb für die Weiterentwicklung von Amtico Bodenbelägen. Voraussetzung ist bei Amtico Signature eine dauerhafte Verklebung am Untergrund – fixierte Beläge können und sollen nicht beschichtet werden!

Weitere Informationen zu unseren Produkten finden Sie auf unserer Webseite amtico.de

AMTICO STATEMENT ON PRODUCT COMPOSITION

Amtico Signature, Spacia, Form, First and Marine luxury vinyl floor tiles are manufactured using ortho-phthalate free and bio-based plasticisers.

Amtico International does not use stabilizers or any other components based on lead, tin, mercury, or cadmium within the construction of its flooring products. In consequence, Amtico flooring contains only trace concentrations of lead, tin, mercury and cadmium i.e., <0.01%wt/wt.

Amtico International does not use any chlorinated paraffins, such as short chain chlorinate paraffins (SCCP), medium-chain chlorinate paraffins or long-chain chlorinate paraffins, per- and polyfluoroalkyl substances (PFAS), halogenated flame retardants (HFR), ortho-phthalates, polychlorinated biphenyls, formaldehyde, asbestos, silicone compounds or any compounds currently present on the ECHA SVHC candidate list, in any of its flooring products. Any such compounds would only be present at trace concentrations i.e., <0.01%wt/wt.

Furthermore, there are no Carcinogenic, Germ Cell Mutagenic or Reproductive toxic substances (CMR Substances) as defined by (EC) No. 1272/2008 on Classification, Labelling and Packaging of substances and mixtures, present in the above products at concentrations above 0.1%wt/wt.



Gary Wilson
Head of Technical
2nd July 2026
Kingfield Road

Statement of Verification

BREG EN EPD No.: 000587

Issue 01

This is to verify that the
Environmental Product Declaration
provided by:
Amtico International



is in accordance with the requirements of:
EN 15804:2012+A2:2019
and
BRE Global Scheme Document SD207

This declaration is for:
1m2 Amtico Signature (3.15kg/m2)

Company Address

Amtico International
Kingfield Road,
Coventry
UK
CV6 5AA



amtico
A MANNINGTON COMPANY

Laura Critien
Operator

30 May 2024
Date of this Issue

30 May 2024
Date of First Issue

29 May 2029
Expiry Date



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Environmental Product Declaration

EPD Number: 000587

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE 2023 Product Category Rules (PN 514 Rev 3.1) for Type III environmental product declaration of construction products to EN 15804:2012+A2:2019.
Commissioner of LCA study	LCA consultant/Tool
Amtico International Kingfield Road, Coventry UK CV6 5AA	John Baggaley/BRE LINA A2
Declared/Functional Unit	Applicability/Coverage
1m ² Amtico Signature (3.15kg/m ²)	Product Specific.
EPD Type	Background database
Cradle to Gate with module C and D and options	Ecoinvent v3.8 (2021)
Demonstration of Verification	
CEN standard EN 15804 serves as the core PCR ^a	
Independent verification of the declaration and data according to EN ISO 14025:2010 ☐ Internal ☒ External	
(Where appropriate ^b) Third party verifier: Roger Connick	
a: Product category rules b: Optional for business-to-business communication; mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)	
Comparability	
Environmental product declarations from different programmes may not be comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See Clause 5.3 of EN 15804:2012+A2:2019 for further guidance	

Information modules covered

Product			Construction		Use stage							End-of-life				Benefits and loads beyond the system boundary
A1	A2	A3	A4	A5	Related to the building fabric					Related to the building		C1	C2	C3	C4	
Raw materials supply	Transport	Manufacturing	Transport to site	Construction – Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse, Recovery and/or Recycling potential
☒	☒	☒	☒	☒	☐	☒	☐	☐	☐	☐	☐	☒	☒	☒	☒	☒

Note: Ticks indicate the Information Modules declared.

Manufacturing site(s)

Amtico International
Kingfield Road
Coventry
United Kingdom
CV6 5AA

Construction Product:

Product Description

Amtico Signature is a premium LVT collection, consisting of a range of wood, stone and abstract designs, available in a range of finishes and sizes, including unique laying patterns.

Amtico Signature products have a total thickness of 2.5mm with a 1mm wear layer, providing a usage classification (EN ISO 10582) of

1. 23 Heavy Domestic
2. 34 Very Heavy Commercial
3. 43 Heavy Light Industrial

The Signature Collection comes with a lifetime wear out warranty for residential installation and 20 years for commercial use.

Signature is manufactured from ortho-phthalate free plasticisers, contains up to 14% recycled pre-consumer content and also includes an antimicrobial additive, for enhanced hygiene and protection from bacteria and viruses such as MRSA, E. coli and SARS-CoV-2.

Signature is a low VOC product, certified to Eurofins Indoor Air Comfort Gold and Finnish RTS M1.

Technical Information

Property	Value, Unit
Usage Classification (EN ISO 10874)	23,34,43
Manufacturing Standard (EN ISO 10582)	Conforms
Wear Layer Thickness (EN ISO 24340)	1.0mm
Total Thickness (EN ISO 24346)	2.5mm
Weight (EN ISO 23997)	3.15kg/m ²
Flammability /Smoke Emissions (EN 13501-1)	B _{f1} s1
Slip Resistance (EN13893)	Class DS
Electrostatic Propensity EN 1815	≤ 2kV
Thermal Resistance EN 12667	0.014 m ² K/W
VOC Emissions Eurofins Indoor Air Comfort Gold	IACG-352-01-12-2022B
Full TDS can be found at www.amtico.com	

Construction | Multiple Performance System

Total thickness of product: 2.5mm*

A. Quantum Guard Elite

Amtico's patented urethane formula provides superior durability and resistance against abrasions and stains. The reinforced low gloss finish is highly realistic

B. Superior 1mm wear layer

Toughened upper layer, giving excellent impact resistance and high clarity, allowing the product's designs to shine through.

C. Design layers

High resolution print layers over deeply coloured base layers create the distinctive Wood, Stone and Abstract designs that set Amtico apart.

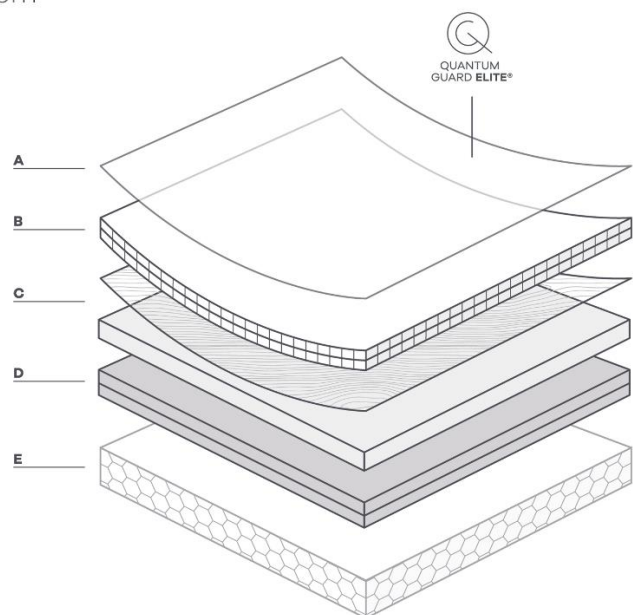
D. Backing layer

The foundation of the product which provides long lasting stability. Contains up to 30% recycled pre-consumer content.

E. Acoustic backing layer (optional)

Reduces the impact sound by up to 18dB and provides an extra level of comfort underfoot.

*3.5mm with optional Acoustic backing.



Main Product Contents

Material/Chemical Input	%
Polyurethane Lacquer	<0.5
Polyvinyl Chloride	62
Plasticisers	17
Print Film	2
Calcium Carbonate	16
Stabiliser, Process Aids & Pigments	<2.5

Manufacturing Process

The product is constructed by the thermal lamination of the wear layer, print film and backing plies. The wear layer and backing plies are all manufactured as follows

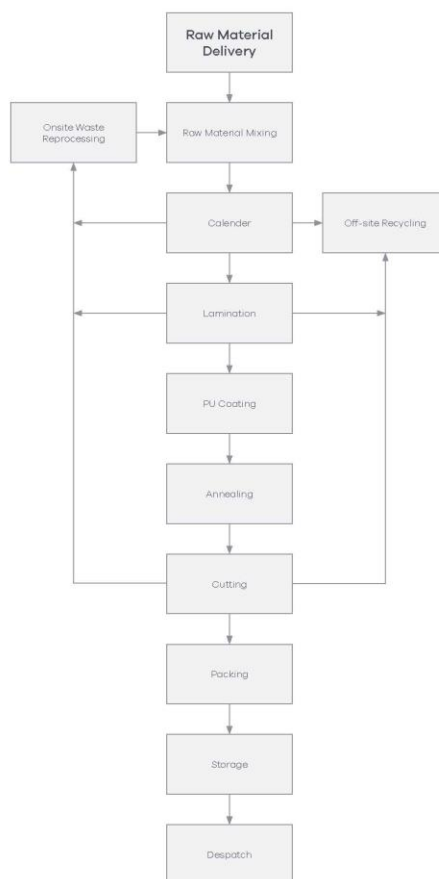
1. Required ply raw materials are initially blended
2. The ply blend is then heated and calendered on a mill to produce a ply of the required thickness.
3. The plies required to form the end product, along with the print film, are thermally laminated together under pressure, to form the final product.
4. The product is then coated with polyurethane, before being cut to size, boxed and dispatched to the customer.
5. Cutting waste is reground on-site and reused in the production of further backing plies.

Process flow diagram

Raw Material Delivery

Amtico Production Process Flow Diagram

Q&F-TEC.0034



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amtico
flooring

Construction Installation

Amtico Signature should be bonded with a suitably low emissions adhesive to an appropriately prepared subfloor as detailed in BS8302.

Details for Amtico Signature installation can be found at www.amtico.com

Use Information

The Amtico Signature manufacturing site is certificated to ISO 9001, ISO 14001 and ISO 45001. Amtico Signature adheres to the emission requirements of Indoor Air Comfort Gold, German AgBB/DIBt, Belgium, and is rated as A+ in the French "Emissions dans l'air interieur" scheme.

End of Life

At the end of the product's life, the flooring is mechanically removed from the subfloor and disposed of by landfill, incineration/energy recovery or recycling. It is assumed that no energy required to remove the floor.

It is assumed that 87% of the product will go to landfill, 12% to incineration/energy recovery schemes and 1% to recycling. The distance travelled from the demolition site to a disposal site will be no more than 200km.

Life Cycle Assessment Calculation Rules

Declared / Functional unit description

1m² Amtico Signature (3.15kg/m²)

System boundary

This is a cradle-to-gate with module C and D and options LCA study that follows the modular design defined in EN15804:2012+A2:2019 and BRE 2023 Product Category Rules (PN 514 Rev 3.1) and includes the processes covered in the manufacturing site and product stage A1 to A3, A4, A5, B2, C1-C4 and D.

Data sources, quality and allocation

Specific primary data derived from Amtico's production process in the Coventry factory, have been modelled using the BRE LINA A2 software and the Ecoinvent v3.8 (2021) database. In accordance with the requirements of EN15804:2012+A2:2019, the most current available data has been used. The manufacturer-specific data from Amtico covers a period of one year (01/01/2021 – 31/12/2021). Secondary data has been obtained for all other upstream and downstream processes that are beyond the control of the manufacturer (i.e. raw material production) from the Ecoinvent v3.8 (2021) database. All Ecoinvent v3.8 (2021) datasets are complete within the context used and conform to the system boundary and the criteria for the exclusion of inputs and outputs, according to the requirements specified in EN15804:2012+A2:2019.

Amtico manufactures other LVT products at its production site, in addition to the product covered by this EPD. Calculations were performed to enable allocation of total site energy use, water and waste to the Amtico Signature product. Allocation procedures were by mass allocation and are according to EN 15804 and are based on the ISO14044 guidance. All the input and output materials such as packaging, transportation, energy, water use and wastes are included. Only exceptions are outputs to air, water or soil as these are not measured at the site.

Products manufactured in Coventry are then distributed in the UK, across Europe, Scandinavia, the Middle and Far East. The average distance transported for each geographical market was calculated by multiplying the distance travelled by the percentage sales volume by square meter. Regions where sales were less than 1% were not considered.

The electricity supply was determined by the electricity supplier's meters. The assumed electricity generation GWP was 0.312 kg CO₂ eq./kWh (Electricity, GB).

Natural gas is used for heat generation and steam production. The assumed GWP was 0.232 kg CO₂ eq./kWh (Natural gas, at industrial furnace, GB).

Wastewater to sewer was determined by a water meter.

Module C4 end of life assumes that 1% of the PVC flooring is recycled, 12% is used in energy recovery/incineration, with the remainder going to landfill. This ratio is based on a study performed by BRE.

Quality Level	Geographical representativeness	Technical representativeness	Time representativeness
Very Good	Data from area under study.	Data from processes and products under study. Same state of technology applied as defined in goal and scope (i.e. identical technology).	There is less than 5 years between the Ecoinvent v3.8 (2021) LCI reference year, and the time period for which the LCA was undertaken.

Specific UK datasets have been selected from the Ecoinvent v3.8 (2021) LCI for this LCA. The quality level of geographical and technical representativeness is therefore Very Good. The quality level of time representativeness is Very Good as the background LCI datasets are based on Ecoinvent v3.8 (2021) which was compiled in 2021. Therefore, there is less than 5 years between the Ecoinvent v3.8 (2021) LCI reference year and the time period for which the LCA was undertaken.

Cut-off criteria

All stages of the manufacturing process have been included. Transport distances to site were not calculated for Sales Business Units with <1% of product sales. The product life was based on the residential 35 years warranty. All inputs or outputs have been included and all raw materials, packaging and transport, energy, water use and wastes, are included, except for direct emissions to air, water and soil, which are not measured. Upstream extraction and/or processing of inputs are included within the use of the background datasets within LINA.

LCA Results

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO ₂ eq	kg CO ₂ eq	kg CO ₂ eq	kg CO ₂ eq	kg CFC11 eq	mol H ⁺ eq	kg (PO ₄) ³⁻ eq
Product stage	Raw material supply	A1	6.63E+00	5.40E+00	5.88E-01	6.32E-01	1.00E-05	2.56E-02	4.81E-03
	Transport	A2	1.87E-01	1.87E-01	1.17E-04	8.88E-05	4.22E-08	2.41E-03	9.96E-06
	Manufacturing	A3	1.55E+00	1.78E+00	-2.39E-01	2.63E-03	1.38E-07	4.69E-03	2.67E-04
	Total (of product stage)	A1-3	8.36E+00	7.37E+00	3.49E-01	6.35E-01	1.02E-05	3.27E-02	5.08E-03
Construction process stage	Transport	A4	4.98E-01	4.97E-01	1.09E-03	3.09E-04	1.05E-07	2.75E-03	7.15E-05
	Construction	A5	1.21E+00	7.79E-01	3.47E-01	8.63E-02	3.89E-07	4.11E-03	7.06E-04
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	1.27E+00	1.22E+00	4.76E-02	1.12E-03	1.21E-07	9.03E-03	5.25E-04
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled									
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.05E-01	1.05E-01	8.93E-05	4.11E-05	2.42E-08	4.25E-04	6.74E-06
	Waste processing	C3	8.10E-01	8.08E-01	1.70E-03	1.18E-04	2.59E-08	6.26E-04	3.64E-05
	Disposal	C4	2.31E-01	2.31E-01	2.90E-04	3.03E-05	8.79E-09	2.52E-04	4.22E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-2.95E-01	-2.92E-01	-3.18E-03	-3.02E-04	-5.08E-08	-1.61E-03	-1.40E-04

GWP-total = Global warming potential, total;
 GWP-fossil = Global warming potential, fossil;
 GWP-biogenic = Global warming potential, biogenic;
 GWP-luluc = Global warming potential, land use and land use change;

ODP = Depletion potential of the stratospheric ozone layer;
 AP = Acidification potential, accumulated exceedance; and
 EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

LCA Results (continued)

Parameters describing environmental impacts			EP-marine	EP-terrestrial	POCP	ADP-mineral & metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m ³ world eq deprived	disease incidence
Product stage	Raw material supply	A1	6.39E-03	4.42E-02	1.61E-02	8.99E-05	1.37E+02	4.83E+00	2.01E-07
	Transport	A2	6.25E-04	6.91E-03	1.90E-03	3.85E-07	2.75E+00	1.14E-02	1.67E-08
	Manufacturing	A3	1.43E-03	1.32E-02	3.39E-03	4.40E-06	4.01E+01	3.61E-01	3.86E-08
	Total (of product stage)	A1-3	8.45E-03	6.43E-02	2.14E-02	9.46E-05	1.80E+02	5.20E+00	2.56E-07
Construction process stage	Transport	A4	8.31E-04	9.13E-03	2.96E-03	7.15E-06	7.37E+00	5.30E-02	5.32E-08
	Construction	A5	1.30E-03	8.60E-03	2.89E-03	1.13E-05	1.82E+01	9.37E-01	4.11E-08
Use stage	Use	B1	MND	MND	MND	MND	MND	MND	MND
	Maintenance	B2	5.20E-03	1.60E-02	5.22E-03	1.74E-05	3.55E+01	1.55E+00	1.05E-07
	Repair	B3	MND	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled									
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.28E-04	1.40E-03	4.28E-04	3.64E-07	1.58E+00	7.12E-03	9.04E-09
	Waste processing	C3	1.85E-04	1.68E-03	4.72E-04	9.14E-07	1.35E+00	1.51E+00	5.40E-09
	Disposal	C4	1.08E-03	9.22E-04	3.14E-04	9.62E-08	6.84E-01	3.06E-02	4.98E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-2.52E-04	-2.51E-03	-7.36E-04	-1.29E-06	-5.05E+00	-1.34E-01	-1.20E-08

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
 EP-terrestrial = Eutrophication potential, accumulated exceedance;
 POCP = Formation potential of tropospheric ozone;
 ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;

ADP-fossil = Depletion potential of the stratospheric ozone layer;
 WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
 PM = Particulate matter.

LCA Results (continued)

Parameters describing environmental impacts							
			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U ²³⁵ eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	7.35E-01	1.10E+02	5.48E-09	1.22E-07	4.43E+01
	Transport	A2	1.35E-02	2.02E+00	7.86E-11	2.00E-09	2.34E+00
	Manufacturing	A3	1.03E+00	1.91E+01	7.73E-10	1.17E-08	3.85E+01
	Total (of product stage)	A1-3	1.78E+00	1.31E+02	6.33E-09	1.36E-07	8.51E+01
Construction process stage	Transport	A4	4.63E-02	7.33E+00	7.75E-10	9.35E-09	3.61E+00
	Construction	A5	1.21E-01	2.03E+01	6.02E-10	1.50E-08	8.67E+00
Use stage	Use	B1	MND	MND	MND	MND	MND
	Maintenance	B2	7.26E-02	1.01E+02	3.35E-09	6.36E-08	5.56E+00
	Repair	B3	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled							
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	8.14E-03	1.24E+00	4.00E-11	1.30E-09	1.09E+00
	Waste processing	C3	8.98E-03	4.45E+01	1.75E-10	1.25E-08	7.89E-01
	Disposal	C4	3.23E-03	1.06E+01	2.33E-11	2.05E-09	1.62E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-6.02E-02	-4.62E+00	-9.98E-11	-2.93E-09	-1.23E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;

HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

LCA Results (continued)

Parameters describing resource use, primary energy								
			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	8.30E+00	4.35E+00	1.27E+01	8.08E+01	5.62E+01	1.37E+02
	Transport	A2	3.06E-02	0.00E+00	3.06E-02	2.69E+00	0.00E+00	2.69E+00
	Manufacturing	A3	5.68E+00	4.80E+00	1.05E+01	3.52E+01	5.05E+00	4.02E+01
	Total (of product stage)	A1-3	1.40E+01	9.15E+00	2.32E+01	1.19E+02	6.12E+01	1.80E+02
Construction process stage	Transport	A4	1.97E-01	0.00E+00	1.97E-01	7.25E+00	0.00E+00	7.25E+00
	Construction	A5	-1.86E+00	5.08E+00	3.23E+00	7.78E+00	8.56E+00	1.63E+01
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	1.59E+00	0.00E+00	1.59E+00	1.30E+01	2.09E+01	3.39E+01
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled								
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.23E-02	0.00E+00	2.23E-02	1.55E+00	0.00E+00	1.55E+00
	Waste processing	C3	1.15E-01	0.00E+00	1.15E-01	-8.23E+00	9.47E+00	1.24E+00
	Disposal	C4	1.22E-02	0.00E+00	1.22E-02	-5.83E+01	5.89E+01	6.72E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-4.38E-01	0.00E+00	-4.38E-01	-2.43E+00	6.69E-01	-1.76E+00

PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials;
 PERM = Use of renewable primary energy resources used as raw materials;
 PERT = Total use of renewable primary energy resources;

PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials;
 PENRM = Use of non-renewable primary energy resources used as raw materials;
 PENRT = Total use of non-renewable primary energy resource

LCA Results (continued)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m ³
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	1.15E-01
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	2.81E-04
	Manufacturing	A3	1.12E-02	3.63E-07	0.00E+00	8.98E-03
	Total (of product stage)	A1-3	1.12E-02	3.63E-07	0.00E+00	1.24E-01
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	1.32E-03
	Construction	A5	3.78E-04	1.09E-08	0.00E+00	2.21E-02
Use stage	Use	B1	MND	MND	MND	MND
	Maintenance	B2	3.95E-03	0.00E+00	0.00E+00	3.66E-02
	Repair	B3	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled						
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	1.76E-04
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	3.52E-02
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	7.20E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	-3.30E-03

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;

NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

LCA Results (continued)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	3.67E-01	8.30E+00	2.44E-04
	Transport	A2	3.10E-03	4.49E-02	1.27E+01
	Manufacturing	A3	7.28E-02	1.16E+00	2.83E-04
	Total (of product stage)	A1-3	4.43E-01	9.50E+00	1.27E+01
Construction process stage	Transport	A4	1.51E-02	3.09E-01	4.50E+01
	Construction	A5	5.54E-02	1.26E+00	3.81E-01
Use stage	Use	B1	MND	MND	MND
	Maintenance	B2	9.13E-02	1.61E+00	2.37E-01
	Repair	B3	MND	MND	MND
	Replacement	B4	MND	MND	MND
	Refurbishment	B5	MND	MND	MND
	Operational energy use	B6	MND	MND	MND
	Operational water use	B7	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled					
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.75E-03	3.10E-02	1.07E-05
	Waste processing	C3	2.09E-01	5.15E-01	6.16E-06
	Disposal	C4	1.36E-03	2.77E+00	4.06E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	-8.40E-03	-6.39E-01	-1.46E-05

HWD = Hazardous waste disposed;
 NHWD = Non-hazardous waste disposed;
 RWD = Radioactive waste disposed

LCA Results (continued)

Other environmental information describing output flows – at end of life								
			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.71E-02	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	1.60E-01	2.34E-08	7.16E-04	7.86E-03	-5.39E-02
	Total (of product stage)	A1-3	0.00E+00	1.60E-01	2.34E-08	7.16E-04	-7.92E-02	-5.39E-02
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	3.26E-01	6.03E-09	2.15E-05	1.07E-02	7.02E-02
Use stage	Use	B1	MND	MND	MND	MND	MND	MND
	Maintenance	B2	0.00E+00	5.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Repair	B3	MND	MND	MND	MND	MND	MND
	Replacement	B4	MND	MND	MND	MND	MND	MND
	Refurbishment	B5	MND	MND	MND	MND	MND	MND
	Operational energy use	B6	MND	MND	MND	MND	MND	MND
	Operational water use	B7	MND	MND	MND	MND	MND	MND
87% Landfill, 12% Incineration/Energy Recovery, 1% Recycled								
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	3.15E-02	3.78E-01	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
A4 – Transport to the building site	Products manufactured at Coventry are disturbed in the UK, across Europe, Scandinavia, the Middle and Far East. The average distance transported for each geographical market was calculated by multiplying the distance travelled by the percentage sales volume by square meter. Regions where sales were less than 1% of the total sales were not considered.		
	The sales volumes were those in 2021. The transportation data is taken from Ecoinvent v3.8 (2021) datasets.		
	UK Direct Delivery:	Diesel / Van	0.32l/km
	Distance:	km	163
	Capacity utilisation (incl. empty returns)	%	61
	Bulk density of transported products	kg/m ³	1260
	Worldwide: Road	Diesel / 16-32 tonne Lorry	0.032l/km
	Distance:	km	384
	Capacity utilisation (incl. empty returns)	%	61
	Bulk density of transported products	kg/m ³	1260
	Worldwide: Sea	Marine Bunker Oil / Container Ship	0.21tonnes/km
	Distance:	km	494
	Capacity utilisation (incl. empty returns)	%	65
	Bulk density of transported productskg/m3	kg/m ³	1260
A5 – Installation in the building	Amtico Signature should be bonded with a suitable, low emissions adhesive to an appropriately prepared subfloor as detailed in BS8302. Full details on installation can be found at www.amtico.com		
	Installation Wastage Rate	%	3
	Post installation Cleaning	l/m ²	0.02
	Ancillary Materials	Mass per unit area of product installed kg/m ²	0.287
	Material Waste	Installation off cuts mass per unit area of product installed kg/m ²	0.0945
	Cardboard Packaging	Mass per unit area of product installed kg/m ²	0.158

Scenarios and additional technical information

Scenario	Parameter	Units	Results
	Wood Packaging	Mass per unit area of product installed kg/m ²	0.209
	Shrink Wrap	Mass per unit area of product installed kg/m ²	0.007
B2 – Maintenance	The required recommended cleaning and maintenance regime is dependent on the place of installation and the foot traffic over the floor. High traffic areas will generally require more cleaning and maintenance than low traffic situations. Dry cleaning may be performed with a dust mop or with a vacuum cleaner. Wet cleaning can be performed with a mop, detergent and water. Power cleaning is also a possibility with scrubber driers etc. The calculations are assumed for 1m² per year		
	52 Wet Cleans per year (Water use)	l/yr./m ²	3.224
	Detergent usage	kg/yr./m ²	0.0416
Reference service life	Amtico International guarantees that in the event of the Amtico Signature flooring supplied to the original purchaser under their agreement, requiring replacement due to 'Wear-out' from normal foot traffic within thirty-five years from the date of purchase, the floor will be repaired or replaced with the same or similar material free of charge. 'Wear-out' means the removal of the pattern and colour from the Amtico Signature floor caused by the removal of the protective wear layer. Reference service life used in LCA was the residential warranty.		
	Residential Product Warranty.	Years	35
C1 to C4 End of life,	Data for post-consumer end of life for PVC flooring scenarios is limited. BRE BREEAM PEP scheme (2008) assumed 87% went to landfill, 12% for incineration/energy recovery and 1% was recycled. An Axion report "Post-Zero Avoidable Waste in Flooring-Towards a Circular Economy", published February 2022, also has a figure of 1%. The 87:12:1 ratio was used in this study.		
C1 Deconstruction	At the product's end of life that the product is manually mechanically removed from the sub-floor. No ancillary materials, energy or water was required for the process.	kg/m ²	3.15
C2 Transport	It is assumed that 87% of the dismantled floor goes to land fill, 12% is incinerated for energy recovery and 1% is recycled. The disposal sites are within 200km of the demolition site		
	Disposal from demolition site to landfill	km	174
	Disposal from demolition site to incinerator/energy recovery plant	km	24
	Disposal from demolition site to recycling plant	km	2
C3 Waste Processing	Minimal waste processing was considered necessary with no further ancillary materials, energy or water required.		
	1% is recycled	kg/m ²	0.0315
	12% is incinerated /energy recovery	kg/m ²	0.378
C4 Disposal	87% of the material is assumed to go to landfill	kg/m ²	2.7405

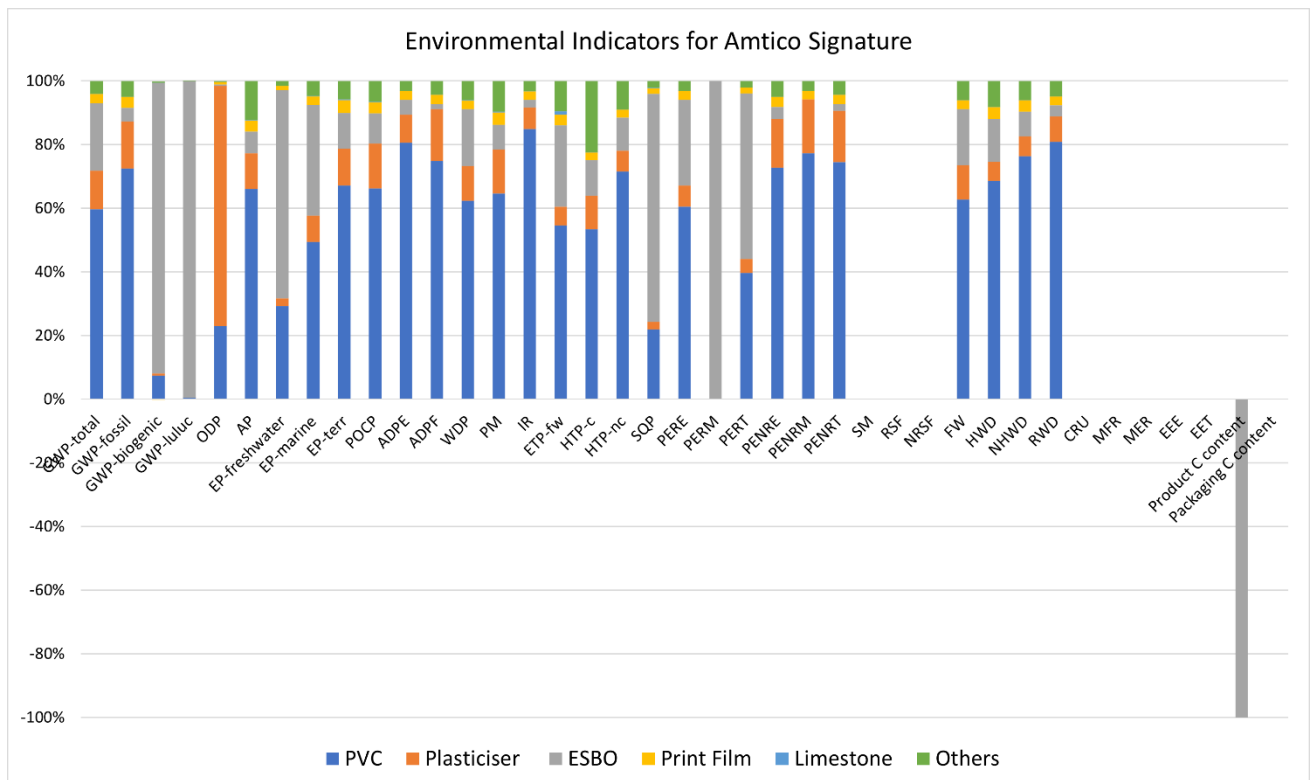
Scenarios and additional technical information

Scenario	Parameter	Units	Results
Module D	BRE BREEAM PEP scheme used a recycling figure of 1% in its calculations. (2008). An Axion report "Post-Zero Avoidable Waste in Flooring-Towards a Circular Economy", published February 2022, also has a figure of 1%. The pre-existing recycled content in the raw material of 1.2% has been excluded from Module D. So only 98.8% of the 0.0315kg to recycling in C3 can be claimed for benefits.	Kg/m ²	0.0311
	Data for post-consumer recycling rates for vinyl flooring is limited. BRE BREEAM PEP scheme used an energy recovery figure of 12% in its calculations. (2008)	Kg/m ²	0.378

Interpretation

Out of the total mass of input materials, PVC makes up 62%, followed by limestone of 16%, plasticiser makes up 14%, ESBO 3%, print film 2%, other additives make up the remaining of 3%. The bulk of the environmental impacts and primary energy demand are attributed to the manufacturing phase, covered by information modules A1-A3 of EN15804:2012+A2:2019.

As a result, PVC ranks first in terms of overall environmental impacts and is responsible for the greatest impact on all environmental impact indicators except GWP-bio, GWP-luluc, ODP, EP-freshwater, SQP, PERM, PERT, biogenic carbon content. ESBO and plasticiser rank second and third in terms of overall environmental impacts. Limestone has negligible impacts on all indicators.



Summary, comments and additional information

Front Cover Image



About Amtico:

LVT is in our DNA.

Amtico is a British manufacturer of industry-leading flooring. A joint venture between American Biltrite and manufacturing giant Courtaulds, we began designing and making luxury vinyl tiles (LVT) in 1964. We're located in Coventry, a historic city, globally recognised for its continued contribution to British design, craft and engineering.

Today, we sell our floors in over 130 countries, but we are the only manufacturer who can proudly say we still make a large proportion of our LVT flooring from scratch, here in the UK.

A passion for brilliance

We've been setting the standard for creative expression in floor design for a long time. And we've become pretty good at it. The formula is simple. We combine relentless dedication with top-of-class expertise. Then we add that to every single floor we make. Our people stop at nothing to ensure every one of our products delivers what's required of it – excellence.

And if you need something completely unique, our in-house design team are ready to provide advice on product choice, laying patterns and finishes. Plus, we have a team of CAD experts who will work with you to draw up your design ready for manufacture.

Where we stand on sustainability

When you choose an Amtico floor, we want you to be sure it's built on foundations that protect our planet and empower our people.

So, we are working on our strategy – a plan for tackling the major challenges, not in the next 20 years, but right now.

To read more about our strategy on sustainability, please visit <https://www.amtico.com/commercial/sustainability/>.

References

BSI. Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products. BS EN 15804:2012+A2:2019. London, BSI, 2019.

BSI. Environmental labels and declarations – Type III Environmental declarations – Principles and procedures. BS EN ISO 14025:2010 (exactly identical to ISO 14025:2006). London, BSI, 2010.

BSI. Environmental management – Life cycle assessment – Principles and framework. BS EN ISO 14040:2006. London, BSI, 2006.

BSI. Environmental management – Life cycle assessment – requirements and guidelines. BS EN ISO 14044:2006. London, BSI, 2006.

BS EN ISO 10582:2018 Resilient floor coverings. Heterogeneous poly(vinyl chloride) floor covering. Specifications.

BS EN ISO 10874:2012+A1:2020 Resilient, textile and laminate floor coverings. Classification.

BS EN ISO 24340:2012 Resilient floor Coverings. Determination of thickness of layers

BS EN ISO 24346:2012 Resilient floor coverings. Determination of overall thickness.

BS EN ISO 23997:2012 Resilient floor coverings. Determination of mass per unit area.

BS EN 13501-1:2018 Fire classification of construction products and building elements. Classification using data from reaction to fire tests.

BS EN 13893:2002 Resilient, laminate and textile floor coverings. Measurement of dynamic coefficient of friction on dry floor surfaces.

BS EN 1815:2016 Resilient and laminate floor coverings. Assessment of static electrical propensity.

BS EN 12664:2001 Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Dry and moist products of medium and low thermal resistance



Certificate

Indoor Air Comfort Gold

Amtico LVT & Acoustic LVT

Certified Product

Amtico International

Kingfield Road, Coventry CV6 5AA, United Kingdom

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 9.0 (2023). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- | | | | |
|--------------------------|----------------------------|-------------------------------|------------------------------|
| - Belgian VOC regulation | - LEED (ACP) | - Blue Angel DE-UZ 120 | - Eco Product Norway |
| - France VOC class A+ | - BREEAM New Construction | - Austrian Ecolabel UZ 42 | - SINTEF (Norway) |
| - Germany (AgBB/ABG) | - WELL Building | - Austrian Baubook | - Cradle to Cradle |
| - Italian CAM Edilizia | - DGNB | - M1 | - very low emitting products |
| - EU Taxonomy Regulation | - SKA Rating | - Danish Indoor Climate Label | - according to EN 16798-1 |
| | - French HQE certification | - (Emission Class 1) | - Singapore Green Label |
| | | - BVB (Sweden) | - Global GreenTag |
| | | - Miljöbyggnad (Sweden) | - Declare 2.0 |

Issue date: 13 November 2025

Product type: Resilient Floorings

Validity date: 13 November 2030

Certificate number: IACG-352-01-12-2025

This certificate is valid as specified if regular surveillance and testing is done.

Thomas Neuhaus

Head of Certification Body

Eurofins Product Testing A/S
Smedskovvej 38, Gate 9
8464 Galten
Denmark



DANAK
PROD Reg.no. 7054
Member EA MLA



Appendix to Certificate IACG-352-01-12-2025

Amtico International

receives the Indoor Air Comfort Gold certificate with validity 13 November 2030

for below product group, including subgroups and individual products as listed:

Product group: Amtico LVT & Acoustic LVT

Product type: Resilient Floorings

Products included:

Amtico Form
Amtico Form (Bio-attributed)
Amtico Form Acoustic
Amtico Signature
Amtico Signature (Bio-attributed)
Amtico Signature Acoustic
Amtico Spacia
Amtico Spacia (Bio-attributed)
Amtico Spacia (IRE)
Amtico Spacia Acoustic
Spacia

The products in this group are based on identical or similar recipe and are produced under equivalent conditions. Grouping of the products and inspection of the production process is part of the Indoor Air Comfort Gold certification. A worst-case product, which is representative for the whole group, is being tested frequently.