

Herbas arba prekių ženklas



SIUOLAIKIŠKAM INTERJERUI

(Tiekėjo pavadinimas)

UAB IRIS, Naujoji g. 50 B, LT-62381 Alytus, Tel. (8-315) 55969, faks. (8-315) 55968, Registro tvarkytojas: Valstybinė įmonė Registrų centras, registravimo pažymėjimo Nr. 023827, įsteigimo data 1991 06 26, įmonės kodas 149587593, PVM mokėtojo kodas LT495875917

(Juridinio asmens teisinė forma, buveinė, kontaktinė informacija, registro, kuriame kaupiami ir saugomi duomenys apie tiekėją, pavadinimas, juridinio asmens kodas, pridėtinės vertės mokesčio mokėtojo kodas, jei juridinis asmuo yra pridėtinės vertės mokesčio mokėtojas)

LIETUVOS SVEIKATOS MOKSLŲ UNIVERSITETO LIGONINĖ KAUNO KLINIKOS
Viešoji įstaiga, Eivenių g. 2, 50161 Kaunas, tel. (8 37) 32 63 60, (8 37) 32 69 75, faks. (8 37) 32 64 27,
el.p. rastine@kaunoklinikos.lt. Duomenys kaupiami ir saugomi Juridinių asmenų registre, kodas 135163499

(Adresatas (perkančioji organizacija))

**PASIŪLYMAS
PVC DANGOS
PIRKIMO**

2024-11-27 Nr. 14

(Data)

Kaunas

(Sudarymo vieta)

TIEKĖJO REKVIZITAI

1 lentelė

Tiekėjo pavadinimas / <i>Jeigu dalyvauja ūkio subjektų grupė, surašomi visi dalyvių pavadinimai/</i>	UAB IRIS
Tiekėjo adresas / <i>Jeigu dalyvauja ūkio subjektų grupė, surašomi visi dalyvių adresai/</i>	Naujoji g. 50B, LT-62381 Alytus
Įmonės kodas, PVM mokėtojo kodas	149587593, LT495875917
Atsiskaitomosios sąskaitos numeris, bankas, banko kodas	Atsiskaitomoji sąskaita LT91 7044 0600 0191 9254, AB SEB Vilniaus bankas, 70440
Įmonės vadovo pareigos, vardas, pavardė	Didmeninės prekybos direktorius Vaidotas Stankevičius
Už pasiūlymą atsakingo asmens vardas, pavardė	Raimundas Juodviršis
Už sutarties vykdymą atsakingo asmens pareigos, vardas, pavardė	Didmeninės prekybos vadybininkas Raimundas Juodviršis
Telefono numeris	+370 652 82670
Fakso numeris	+370 37 409970
El. pašto adresas	Raimundas.j@iris.lt

Šiuo pasiūlymu pažymime, kad sutinkame su visomis neskelbiamos apklausos sąlygomis, nustatytomis pirkimo dokumentuose ir jų prieduose.

Pasirašydamas CVP IS priemonėmis pateiktą pasiūlymą, patvirtinu, kad dokumentų skaitmeninės kopijos ir elektroninės priemonėmis pateikti duomenys yra tikri.

PASIŪLYMO KAINA

3 lentelė

Eil. Nr.	Prekės pavadinimas	Mato Vnt.	Kiekis	Vnt. kaina be PVM	Kaina viso be PVM	Kaina viso su PVM
1.	Pvc danga	M2	117	13,90	1626,30	1967,82
2.	Grindjuostė	Vnt.	23	2,9699	68,3077	82,65
3.	Vidinis kampas	Vnt.	22	0,2999	6,5978	7,98
4.	Išorinis kampas	Vnt.	17	0,30	5,10	6,17
Pradinės sutarties vertė EUR su PVM:						2064,62

Tais atvejais, kai pagal galiojančius teisės aktus tiekėjui nereikia mokėti PVM, jis nurodo priežastis, dėl kurių PVM nemoka.

4 lentelė

PATEIKIAMŲ DOKUMENTŲ SĄRAŠAS

Eil. Nr.	Pateiktų dokumentų pavadinimas	Dokumento puslapių skaičius
1	Pasiūlymo forma, 1 priedas	3
2	Techninė specifikacija, 2 priedas	2
3	Sutarties projektas, 3 priedas	8
4	Įgaliojimas	1
5	AW Invictus Maximus Dryback EPD	20
6	Invictus Maximus Dryback techninė specifikacija	1
7	Maximus Dryback deklaracija	1
8	Grindjuostės deklaracija Midas	1

Pasiūlymas galioja iki termino, nustatyto pirkimo dokumentuose.

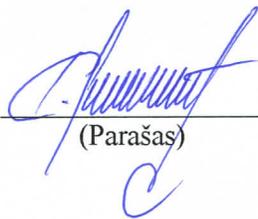
Pasiūlymo konfidencialią informaciją sudaro (tiekėjai turi nurodyti, kokia pasiūlyme pateikta informacija yra konfidenciali)*: konfidencialios informacijos nėra.

SVARBU: Viešųjų pirkimų tarnyba yra išaiškinusi (žr. <http://vpt.lrv.lt/lt/naujienos/priminimas-del-konfidencialumo-viesuosiuose-pirkimuose>), kad visas tiekėjo pasiūlymas negali būti laikomas konfidencialia informacija. Konfidencialią informaciją taip pat nelaikoma paslaugos kaina, įkainiai (paslaugos vieneto kaina), pateikti tiekėjų pašalinimo pagrindų nebuvimą patvirtinantys dokumentai, informacija apie pasitelktus ūkio subjektus, kurių pajėgumais remiasi tiekėjas, subtiektėjai, tiekėjo siūlomos paslaugos pavadinimas (modelis, gamintojas) ir techninės specifikacijos (charakteristikos), ypač tais atvejais, kuomet siūlomas pirkimo objektas yra masinės gamybos arba jo savybės yra visuotinai žinomi. Konfidencialia negalima laikyti informacijos apie rinkoje egzistuojančias paslaugas bei jų savybes, ypač jei tokia informacija teisėtomis priemonėmis prieinama (arba gali būti prieinama) kiekvienam fiziniam ar juridiniam asmeniui įvairiais informacijos kanalais (pavyzdžiui, analogišką informaciją apie pasiūlyme nurodytas paslaugas galima rasti tiekėjo arba gamintojo interneto tinklalapyje). Vien tai, kad tiekėjas konkrečiame pirkime siūlo jau egzistuojantį produktą, nesudaro pagrindo to produkto pavadinimo laikyti tiekėjo komercine paslaptimi. Prekės pavadinimas (modelis, gamintojas) ir techninės specifikacijos (charakteristikos) gali būti konfidenciali informacija tik tiekėjui tai pagrindus. Tiekėjas dalyvaujantis viešajame pirkime gali nurodyti, kuri informacija pasiūlyme yra laikytina konfidencialia, tačiau konfidenciali informacija turi būti motyvuotai pagrįsta, kad perkančioji organizacija galėtų įvertinti ir nustatyti pateiktos konfidencialios informacijos pagrįstą būtinumą informaciją laikyti konfidencialia ir jos neatskleisti tretiesiems asmenims. **PASTABA.** Tiekėjui nenurodžius, kokia informacija yra konfidenciali, laikoma, kad konfidencialios informacijos pasiūlyme nėra.

Pasiūlymas galioja iki 2024 m. kovo 1 (nurodyti). Pasiūlymas turi galioti ne trumpiau kaip 90 kalendorinių dienų.

Didmeninės prekybos
vadybininkas

(Tiekėjo arba jo įgalioto asmens
pareigų pavadinimas)



(Parašas)

Raimundas Juodviršis

(Vardas ir pavardė)

TECHNINĖ SPECIFIKACIJA

2 priedas

Eil. Nr.	Prekės pavadinimas ir techniniai reikalavimai	Siūlomos prekės pavadinimas, gamintojas/modelis ir techninė charakteristika
1.	<p>PVC danga: Ilgis: 121,9 ($\pm 0,1$) cm; Plotis: 17,8 ($\pm 0,1$) cm; Storis/Aukštis: 0,25 cm; Blizgumas: matinis; Raštas: medžio lentos; Viršutinis sluoksnis – scratchmaster; Spalva: ruda; Slidumas su batais: lygiavertė arba geresnė R10; Paskirtis: komercinė; Tinka šildomoms grindims; Degumo klasė: lygiavertė arba geresnė Bfl; Technologija: klijuojamos;</p>	<p>PVC danga: 45 Maximus New England Oak Toffee (gamintojas: Invictus, Belgija) Ilgis: 121,9 cm; Plotis: 17,8 cm; Storis/Aukštis: 0,25 cm; Blizgumas: matinis; Raštas: medžio lentos; Viršutinis sluoksnis – scratchmaster; Spalva: ruda; Slidumas su batais: R10; Paskirtis: komercinė; Tinka šildomoms grindims; Degumo klasė: Bfl; Technologija: klijuojamos;</p>
2.	<p>Grindjuostė: Ilgis: 250 ($\pm 0,1$) cm; Plotis: 2,2 ($\pm 0,1$) cm; Storis/Aukštis: 5,4 ($\pm 0,1$) cm; Blizgumas: matinis; Raštas: medžio.</p>	<p>Grindjuostė: A-PLCOX-F3-250 grindjuostė (gamintojas: Midas, Lenkija) Ilgis: 250 cm; Plotis: 2,2 cm; Storis/Aukštis: 5,4 cm; Blizgumas: matinis; Raštas: medžio.</p>
3.	<p>Vidinis kampas: Ilgis: 4 ($\pm 0,1$) cm; Plotis: 2,2 ($\pm 0,1$) cm; Storis/Aukštis: 5,4 ($\pm 0,1$) cm; Blizgumas: matinis; Raštas: medžio; Spalva: ruda.</p> 	<p>Vidinis kampas: A-PNWE0-F3 (gamintojas: Midas, Lenkija) Ilgis: 4 cm; Plotis: 2,2 cm; Storis/Aukštis: 5,4 cm; Blizgumas: matinis; Raštas: medžio; Spalva: ruda.</p>

Eil. Nr.	Prekės pavadinimas ir techniniai reikalavimai	Siūlomos prekės pavadinimas, gamintojas/modelis ir techninė charakteristika
4.	<p>Išorinis kampas: Ilgis: 4 (±0,1) cm; Plotis: 2,2 (±0,1) cm; Storis/Aukštis: 5.4 (±0,1) cm; Blizgumas: matinis Raštas: medžio Spalva: ruda.</p> 	<p>Išorinis kampas: A-PNZW0-F3 (gamintojas: Midas, Lenkija) Ilgis: 4 cm; Plotis: 2,2 cm; Storis/Aukštis: 5.4 cm; Blizgumas: matinis Raštas: medžio Spalva: ruda.</p>

Papildomi reikalavimai:

1. Grafoje „Siūlomos prekės pavadinimas ir techninė charakteristika“ turi būti nurodyti tikslūs ir konkretūs siūlomos prekės duomenys, **nepaliekant lentelėje pateiktų dydžių reikšmių tolerancijų ir tokių reikšmių, kaip „lygiavertė“, „atitinka“, „ne mažiau“ ir pan. Reikalinga nurodyti prekės gamintoja/modeli.**
2. Siūlomos prekės techninės charakteristikos turi būti ne blogesnės nei reikalaujamos techninėje specifikacijoje, t.y. siūloma prekė savo savybėmis turi būti lygiavertė techninėje specifikacijoje reikalaujamai arba geresnių techninių parametru. **Reikalinga pateikti prekių dokumentus ar nuorodas į prekių aprašymus, įrodančius siūlomų prekių technines charakteristikas.**
3. Prekes numatoma išpirkti ne daugiau nei per 2 kartus (vieno užsakymo metu išperkant pusę prekių kiekio).
Prekes pardavėjas į Kauno klinikų nurodytą vietą (Eivenių g. 2, Kaunas) turės pristatyti savo transportu. Tiekimo terminas ne ilgesnis kaip **10** (dešimt) kalendorinių dienų po užsakymo pateikimo dienos.



ŠIUOLAIKIŠKAM INTERJERUI

ĮGALIOJIMAS

Alytus, 2024 m. lapkričio mėn. 27 d.

UAB „IRIS“, įmonės kodas 149587593, registruota adresu Alytus Naujoji g. 50b, registro tvarkytojas: VĮ „Registrų centras“ Alytaus filialas, atstovaujama generalinio direktoriaus Algirdo Navicko, veikiančio pagal įmonės įstatus, įgalioja Raimundą Juodviršį (a.k. 37106190129), atstovauti įmonę UAB „IRIS“ konkurse: „Dėl PVC dangos pirkimo 2024-11-27“, pateikiant reikiamus konkursui dokumentus, juos pasirašyti įmonės vardu ir atlikti kitus su konkursu susijusius veiksmus.

Įgaliojimas išduotas 1 (vieno) mėnesio laikotarpiui nuo jo pasirašymo dienos.

Generalinis direktorius



Algirdas Navickas

ENVIRONMENTAL PRODUCT DECLARATION

ASSOCIATED WEAVERS

INVICTUS® MAXIMUS DRYBACK LVT



INVICTUS® MAXIMUS DRYBACK LVT



INVICTUS®

GREAT FLOORING · INVINCIBLE PERFORMANCE



Associated Weavers has been present in the UK flooring market since 1964. From its headquarters in Halifax, Associated Weavers over the years has built strong and lasting relationships with its partners nationwide.

Invictus® is Associated Weavers' brand of luxury vinyl flooring. Invictus® flooring comes in various styles and installation methods, and caters to different market segments, including residential, commercial, hospitality, retail, education, care, and more.

For more information visit:

www.invictus.co.uk

www.invictus.eu



ENVIRONMENTAL PRODUCT DECLARATION



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EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	UL PROVIDED
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	UL PROVIDED
MANUFACTURER NAME AND ADDRESS	A.W. (Europe) Ltd. t/a ASSOCIATED WEAVERS F Mill, 2 nd Floor East, Dean Clough Mills, HALIFAX HX3 5AX, United Kingdom
DECLARATION NUMBER	UL PROVIDED
DECLARED PRODUCT & FUNCTIONAL UNIT OR DECLARED UNIT	1 m ²
REFERENCE PCR AND VERSION NUMBER	Product Category Rules for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements, <i>Standard 10010, Version 3.2</i> Part B: Flooring EPD Requirements, <i>UL 10010-7, Version 2.0</i>
DESCRIPTION OF PRODUCT APPLICATION/USE	LVT for commercial and residential spaces
PRODUCT RSL DESCRIPTION	Commercial: 15 Years Residential: 25 Years
MARKETS OF APPLICABILITY	Global
DATE OF ISSUE	UL PROVIDED
PERIOD OF VALIDITY	UL PROVIDED
EPD TYPE	Product-specific
RANGE OF DATASET VARIABILITY	Industry-average only
EPD SCOPE	Cradle to grave
YEAR(S) OF REPORTED PRIMARY DATA	July 2018 – June 2019
LCA SOFTWARE & VERSION NUMBER	SimaPro 9
LCI DATABASE(S) & VERSION NUMBER	Ecoinvent 3, Ecoinvent 3- CN, USLCI, ELCD
LCIA METHODOLOGY & VERSION NUMBER	CML-IA (baseline) & TRACI
The PCR review was conducted by:	UL PROVIDED
	UL PROVIDED
	UL PROVIDED
This declaration was independently verified in accordance with ISO 14025: 2006. <input type="checkbox"/> INTERNAL <input type="checkbox"/> EXTERNAL	UL PROVIDED
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	Ecovane Environmental Co., Ltd
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	UL PROVIDED

LIMITATIONS

Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc.

Accuracy of Results: EPDs regularly rely on estimations of impacts; the level of accuracy in estimation of effect differs for any particular product line and reported impact.

Comparability: EPDs from different programs may not be comparable. Full conformance with a PCR allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.



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1. Product Definition and Information

1.1 Description of Company/Organization

Associated Weavers (AW) is one of the biggest producers of tufted broadloom carpet in Europe. The company is headquartered in Ronse, Belgium, with sales offices in the United Kingdom and Germany, and exports to over 55 countries worldwide. In 2018 Associated Weavers diversified into LVT, luxury vinyl flooring, under its Invictus® brand. The company works closely together with a high quality LVT partner manufacturer and carefully selects designs and colours for its core markets.

The pursuit of sustainable enterprise in general and environment-friendly production in particular is deeply anchored in AW's business strategy. In the past decade Associated Weavers has succeeded in reducing its ecological footprint considerably. Appropriate production processes and regulations reduce energy consumption and waste production to a significant extent and ensure efficient (re)use of water too. In addition to this, AW increasingly uses sustainable green energy.

Special mention goes to Associated Weavers' Sedna® brand of carpets made from Econyl® regenerated nylon yarns of which a large part comes from abandoned fishing nets in the seas and oceans. AW is supporting member of Healthy Seas, an organization responsible for diving up ghost fishing nets in the seas and safeguarding marine life.

AW's partner factory for LVT has been awarded certificates for compliance with the following standards:

- ISO 9001:2015 - Quality Management System
- ISO 14001:2015 - Environmental Management System
- OHSAS 18001:2007 - Occupational Health and Safety Management System

1.2 Product Description

1.2.1 Product Identification

Invictus® Maximus Dryback luxury vinyl flooring is waterproof and has strong scratch- and stain-resistance, making it a perfect selection for varied residential and commercial applications where style, comfort and performance are always in demand

1.2.2 Product Specification

Invictus® Maximus Dryback LVT features a wide range of beautiful flooring options for many applications. Invictus Maximus Dryback LVT products have excellent stain-, scratch-, and dent-resistance. They are constructed with a durable wear layer and proprietary AMP (Aminomethyl Propanol) polyurethane coating, making it an ideal flooring product for multi-family units, condominiums, corporate offices and a variety of other residential and commercial environments.

Maximus Dryback LVT: The perfect long-term flooring solution for heavy traffic areas including areas with heavy rolling loads. With a variety of applications, the glue down system is used in virtually all commercial sectors.



ENVIRONMENTAL PRODUCT DECLARATION



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The following figure shows the construction of the Invictus® Maximus Dryback LVT products.

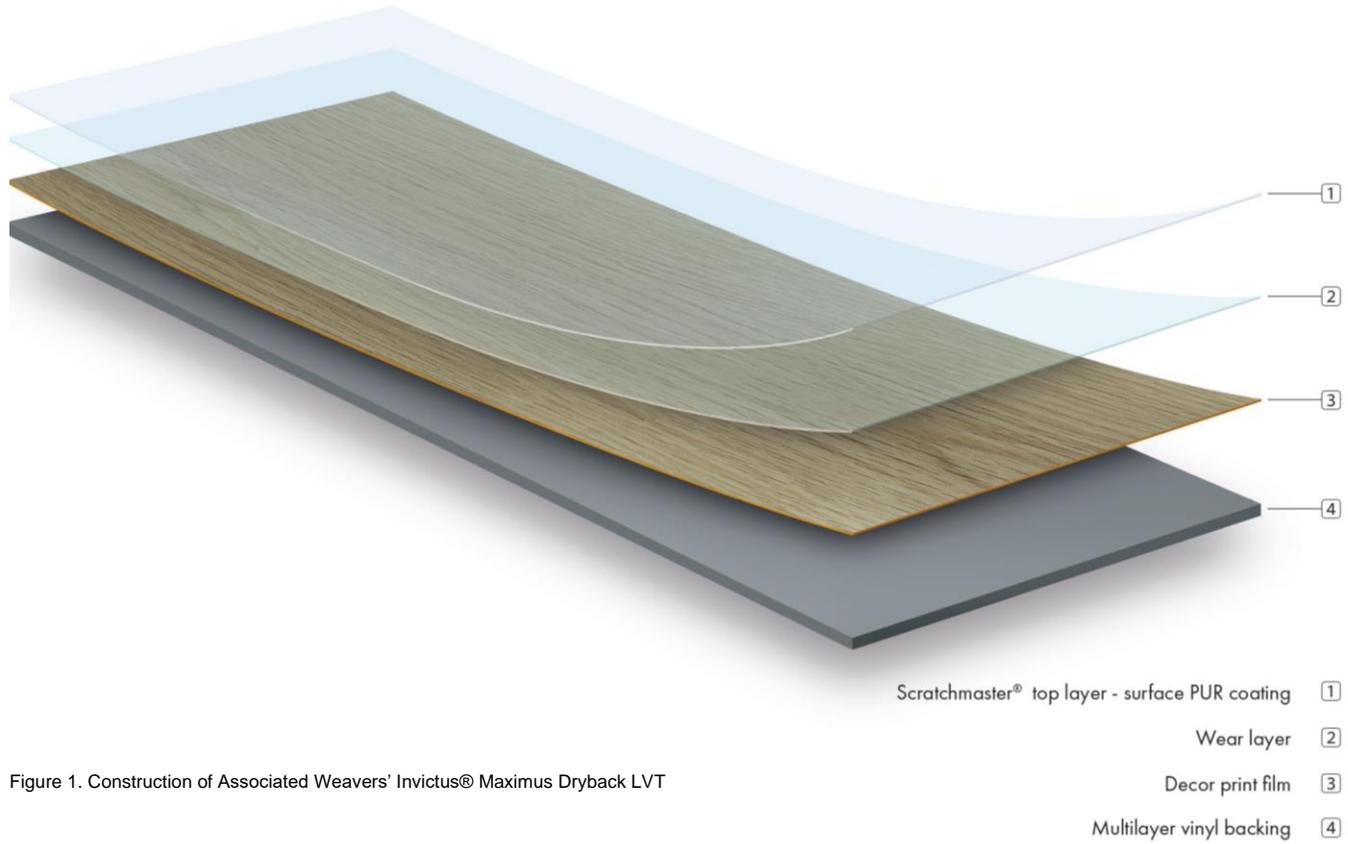


Figure 1. Construction of Associated Weavers' Invictus® Maximus Dryback LVT

Table 1. Technical Specifications of Invictus Maximus Dryback LVT flooring

STANDARDS	RESULTS
ASTM F1700 - SOLID VINYL TILE	CLASS III, TYPE B
ASTM F1914 - RESIDUAL INDENTATION	PASSES, <10%
ASTM F137 - FLEXIBILITY	PASSES, 25.4MM MANDREL
ASTM F2199 - DIMENSIONAL STABILITY	PASSES, <0.020 IN. PER LIN. FT
ASTM F925 - CHEMICAL RESISTANCE	PASSES
ASTM F1514 - HEAT COLOR STABILITY	PASSES, < Δ8E
ASTM F1515 - LIGHT COLOR STABILITY	PASSES, < Δ8E
ASTM F970 - STATIC LOAD LIMIT	PASSES, 250 LBS.
ASTM F970 - MODIFIED FOR MAX WEIGHT	1,200 LBS.
ASTM E648 (NFPA 253) - CRITICAL RADIANT FLUX	CLASS I, >0.45 W/CM ²
ASTM E662 (NFPA 258) - SMOKE DENSITY	PASSES, <450
ASTM D2047 - SLIP RESISTANCE	>0.6 (DRY)
CHPS / CA SECTION 01350	COMPLIANT





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1.2.3 Product-Specific EPD

This declaration is for Associated Weavers' Invictus® Maximus Dryback flooring collection. This glue down type has several specifications with various tile and wear layer thicknesses. The "Dryback 2.5 (0.55)" specification is the representative specification because it has the highest annual production quantity. 2.5 (0.55) means the thickness of the product is 2.5 mm and the thickness of its wear layer is 0.55 mm. In the Life-Cycle Assessment (LCA) study, each specification was analyzed, and the LCA results were presented separately. However, only the LCA results of the representative specification is presented in this declaration.

While allocating energy and material usage within the production site, allocations were carried out based on either the average annual mass or average annual surface area produced.

1.3 Application

The products covered in this declaration are for use in corporate offices, retail spaces, residential spaces, hospitality, and a variety of other commercial environments.

1.4 Declaration of Methodological Framework

In this project, a full LCA approach was considered with some simplification on data modeling using generic data for most background systems. The EPD analysis uses a cradle-to-grave system boundary. No known flows are deliberately excluded from this EPD.

To calculate the LCA results for the product maintenance stage, a 15- or 25-year reference service life (RSL) was assumed for the declared products. LVT tiles with wear layers no thinner than 0.55mm will be used for commercial purposes with a RSL of 15 years and the rest will be considered for residential use with a RSL of 25 years.

Additional details on assumptions, cut-offs and allocation procedures can be found in section 2.4, 2.5, and 2.9, respectively.

1.5 Technical Requirements

Invictus® Maximus Dryback LVT products offer a wide range of beautiful flooring options in various specifications for many applications. Therefore, the following technical data provides a range of values for each parameter.

Table 2. Technical Data for Invictus® Maximus Dryback LVT flooring

Name		Average Value		Min Value	Max Value	Unit
PRODUCT THICKNESS		-		2.5	5.0	MM
WEAR LAYER THICKNESS (WHERE APPLICABLE)		-		0.55	0.55	MM
PRODUCT WEIGHT		-		4310.0	8960.0	g/m ²
PRODUCT FORM	ROLLS	WIDTH	-	-	-	MM
		LENGTH	-	-	-	M
	TILES	-		228.6 x 228.6	1000 x 1000	MM
	PLANKS	-		101.6 x 406.4	241.3 x 1516.9	MM





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1.6 Placing on the Market / Application Rules

Associated Weavers transparently declares the composition and environmental impact of Invictus® Maximus Dryback LVT products with a Health Product Declaration (HPD), Declare® label, and Environmental Product Declaration (EPD). In addition, Associated Weavers' Invictus® Maximus Dryback LVT products are 100% recyclable, have the technical specifications shown in Table 1, and meet the criteria of the following certifications and standards:

- GREENGUARD Gold
- Indoor Advantage™ Gold
- FloorScore®
- REACH

1.7 Material Composition

Table 3. Material Composition of Invictus® Maximus Dryback LVT flooring

COMPONENT	MATERIALS	MAXIMUS DRYBACK
Substrate - Plasticizer	(Bio) Plasticizer + DOTP	5.96% - 10.16%
Substrate	CaCO ₃	15.23% - 68.74%
Substrate	Polyvinyl Chloride (PVC)	17.77% - 36.87%
Substrate	Epoxyed Soybean Oil	0.89% - 1.37%
Substrate	Calcium Stearate	0.29% - 0.55%
Substrate	Zinc Stearate	0.22% - 0.44%
Substrate	Carbon Black	0.05% - 0.16%
Substrate	Mg(OH) ₂	0 - 8.05%
Wear layer	Polyvinyl Chloride (PVC)	1.50% - 24.49%
UV coating	Urethane Acrylates	0.33% - 0.77%
Film	TiO ₂	1.12% - 2.56%

The main raw materials used to produce Invictus® Maximus Dryback are polyvinyl chloride (PVC) resins and calcium carbonate (CaCO₃). In addition, a plasticizer, stabilizer, pigment, lubricant and other materials are used. As each type of LVT has a number of specifications, the component percentages are therefore presented with a range of values.

1.8 Manufacturing

The manufacturing process of Invictus® Maximus Dryback LVT includes preparing the base layer, undergoing lamination, coating with a UV layer, gluing, cutting, profiling, and packaging.

The main raw materials used to produce Invictus® Maximus Dryback LVT are polyvinyl chloride (PVC) resins and calcium carbonate (CaCO₃). During the production of the PVC base layer, these two materials are mixed with a plasticizer, stabilizer, and other materials. Once the compound is ready, a series of heated rollers are used to squeeze the compound into a continuous sheet with a precise width and thickness. After that, the sheet is sent through a cooling process and is ready for lamination. The different layers are bonded to each other through the lamination process. Engraved rollers are then used to apply a textured design onto the surface, which is followed by the application of the UV layer and an annealing treatment. Finally, the products are cut into pieces matching the specifications, and the edges are profiled. After a quality check, the products that pass are packaged for transportation.





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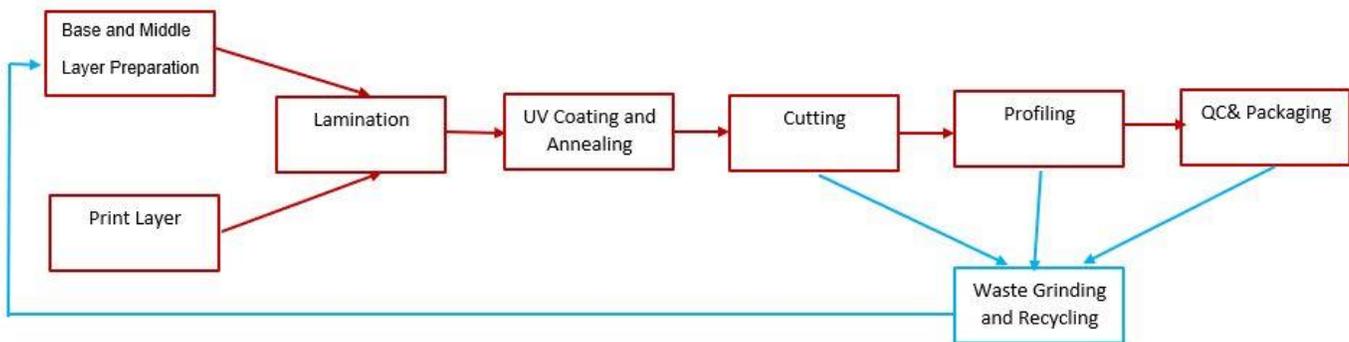


Figure 2. Production Process of the Invictus® Maximus Dryback LVT

1.9 Packaging

Cardboard and wood pallets are the main packaging materials for Invictus® Maximus Dryback LVT. According to Associated Weavers, the target markets of these LVT products include the United Kingdom, the European Union and other regions. In the LCA study, the disposal of packaging materials adopted a rough country- and region-based weighted average disposal model following the UL PCR for Building-Related Products and Services Part A Section 2.8.5. A sensitivity analysis on packaging disposal scenarios was also conducted.

1.10 Transportation

According to Associated Weavers, the target markets of dryback LVT products are the United Kingdom, the European Union and the rest of Europe. Oceanic and road transportation distance for product delivery was estimated with reference to external resources. Table 8 demonstrates the data used for stage A4 in the LCA modelling.

1.11 Product Installation

Invictus® Maximus Dryback LVT requires glue to be applied for the installation. The flooring requires 300 grams of glue per square meter.

1.12 Use and Maintenance

After installation, very little effort is required in order to use Maximus Dryback LVT. However, routine vacuuming, cleaning and surface conditioning is required for regular maintenance and upkeep of the product. The cleaning schedule depends on multiple factors, including weight capacity, terminal function, the amount of dust entering the building, and more. For the purposes of this EPD, average maintenance is presented based on typical installations. The calculations are based on the cleaning routine presented in Table 5.

1.13 Reference Service Life and Estimated Building Service Life

Invictus® Maximus Dryback LVT flooring with a wear layer no thinner than 0.55mm has a RSL of 15 years for commercial purposes and a RSL of 25 years for residential use.





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1.14 Recycling and Energy Recovery

Associated Weavers' Invictus® Maximus Dryback LVT products are 100% recyclable. AW plans to undertake efforts together with retail partners for the recycling of LVT flooring that is no longer needed by end users. The goal of this strategy will be to employ methods of grinding up and recycling the flooring to be used in the creation of other products, such as rubber hoses, car mats, speed bumps, paneling, and more.

1.15 Disposal

According to Associated Weavers, the majority of Maximus Dryback LVT flooring is purchased and used in the United Kingdom, the European Union and rest of Europe. For the LCA study, the disposal of the used Dryback LVT flooring adopted a country- and region-based weighted average disposal model following disposal routes and waste classification referenced in PCR part A section 2.8.5 and 2.8.6. This LCA used an end-of-life disposal treatment process (C4) from Ecoinvent and USLCl. The waste scenario assumed 100 km of road transportation (C2) from an installation site to a MSW treatment site.





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2. Life Cycle Assessment Background Information

2.1 Functional or Declared Unit

In this study, the functional unit was defined as 1 (one) m² of Invictus® Maximus Dryback LVT flooring.

Table 4. Functional Unit Information

NAME	VALUE	UNIT
FUNCTIONAL UNIT	1	m ²
MASS	GLUE DOWN	4.31 – 8.96
		kg

2.2 System Boundary

The life cycle stages considered in this LCA study are from cradle to grave.

The following stages have been assessed:

- A1-A3: Product stage (raw material acquisition, transport to manufacturing site and manufacturing)
- A4-A5: Construction stage (transport to user site, installation)
- B2: Maintenance
- C1-C4: End of life stage (deconstruction, transport, waste processing and disposal)

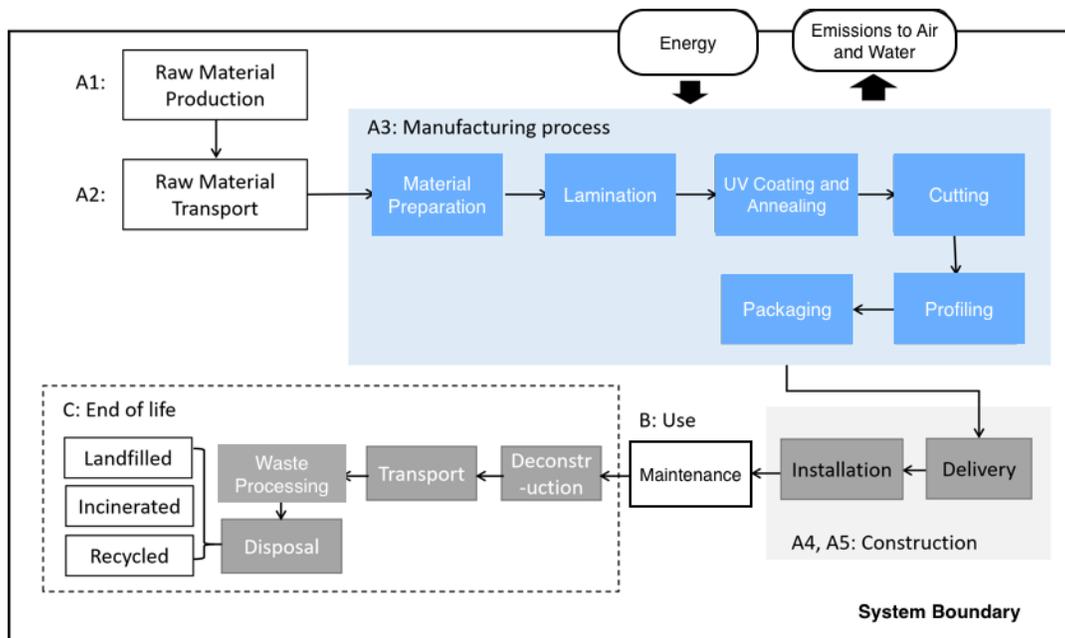


Figure 3. System Boundary of LCA study

The LCA study traced all energy and material inputs back to the extraction of resources for each life-cycle stage of the products. In addition, the study quantified emissions from the whole system, and included various waste management scenarios.





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2.3 Product for Maintenance Phase (Modules B1-B7)

For the calculations of maintenance phase, the following cleaning routine was considered:

Table 5. Cleaning and Maintenance

CLEANING PROCESS	CLEANING FREQUENCY	CONSUMPTION OF ENERGY AND RESOURCES
VACUUMING	WEEKLY	ELECTRICITY
MOPPING	WEEKLY	WATER AND DETERGENT

Table 6. Inputs in Maintenance Stage

	AMOUNT	UNITS	SCENARIO
WATER	5.20	L/m ² /year	BASED ON WEEKLY VACUUM AND WEEKLY MOPPING
ELECTRICITY	0.02	kWh/m ² /year	
DETERGENT	104.00	g/m ² /year	

2.4 Estimates and Assumptions

The main assumptions of this LCA study are as follows:

- The product description paper (1 page) included in the packaging contributes less than 0.1% to the total weight of the final product's packaging and was therefore excluded from the analysis;
- The raw materials calcium stearate and zinc stearate were not in the background database, so they were substituted with stearic acid from the EI database;
- Background data for the raw material Mg(OH)₂ (a type of flame retardant used in the base layer) was not in the database, so it was substituted with MgO from the EI database;
- As there is no specific metering or monitoring system on-site to track material flows in the factory, the distribution of water, natural gas, and electricity consumption during the production processes were calculated by the site engineer based on historical data and experience with operations;
- Similarly, since the consumption of power and water increase linearly with the mass of production, the distribution of energy, water, and natural gas usage during the production of various product specifications were modeled using a mass ratio allocation method. However, the ratio for the distribution of UV coating usage for various product specifications was calculated based on surface area, since surface area, not mass, is the relevant factor when UV coating is applied;
- Assumptions on transportation were made where it was not possible to obtain the specific data, such as the distance of oceanic transportation and inland transportation in the United States, United Kingdom, European Union, Asia and other markets. When this occurred, it was clearly stated in the report, and a sensitivity analysis was conducted;
- The report makes assumptions for certain processes, such as maintenance, for which electricity and water consumption data were not obtained. The report clearly states when making assumptions such as this or others;
- Disassembly of the LVT from the subfloor during the disposal stage was assumed to be done both manually and mechanically for Dryback LVT product, as it is glued onto the floor. However, because the disassembly of the LVT from the subfloor likely accounted for less than 1% of overall energy consumption, it was omitted from the model.





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2.5 Cut-off Criteria

The following procedures were followed for the exclusion of inputs and outputs:

- All inputs and outputs to a (unit) process were included in the calculation where data was available. Data gaps were filled by conservative assumptions with average or generic data. Any assumptions for such choices were documented;
- In case of insufficient input data or data gaps for a unit process, according to the PCR requirement, the cut-off criteria chosen is 1% of renewable and non-renewable primary energy usage and 1% of the total mass of that unit process. The total neglected input flows of the cradle to grave stage, e.g. per module A1-A3, A4-A5, B1-B5, B6-B7, C1-C4 and module D shall be a maximum of 5% of energy usage and mass. In this study, the neglected flow is demonstrated in the table below.

Table 7. Cut-off Flows

FLOW NAME	PROCESS STAGE	MASS %	TOTAL MASS %
GLUE AND DESCRIPTION PACKAGING PAPER	PACKAGING	2.93E-05, <<1%	2.93E-05, <<1%

Material and energy flows known to have the potential to cause significant emissions into air, water or soil related to the environmental indicators of this study were included in the assessment. After reviewing the Material Safety Data Sheets and relevant physical, chemical and other information of the flows listed in table above, no significant negative emission to the environment from above listed flows was identified.

Other processes that contribute to obviously less than 1% of overall mass and energy contribution were cut off, which include:

- Storage phases and sales of product
- Handling operations at the distribution center and retail outlet
- Secondary and transit packaging
- Transport from distribution warehouse to retail outlet and from retail outlet to consumer household or commercial center

2.6 Data Sources

The study used generic data from various sources, including scientific literature, public sources, and databases such as Ecoinvent, ELCD, Chinese LCI, USLCI, and others.

In the study, the key parameters for producer-specific foreground data were based on one year (July 2018 to June 2019) of averaged data from the manufacturer. The life-cycle inventory includes data collected from a variety of publicly available sources, taking into consideration the degree to which it was technologically, temporally and geographically representative. The study utilized the Chinese-regionalized LCI database to the greatest extent possible. In the event data was missing from or not available in the LCI database, the study referred to Ecoinvent and regional databases such as USLCI, ELCD and other relevant databases. The study then conducted sensitivity analyses to validate the data and outputs using realistic parameters.





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2.7 Data Quality

The data quality requirements for this study were as follows:

- Existing LCI data were, at most, 10 years old. Newly collected LCI data were current or up to 3 years old;
- The LCI data related to the geographical locations where the processes took place, e.g. electricity and transportation data from China, disposal data in the USA, the United Kingdom, European Union and etc. were utilized;
- The scenarios represented the average technologies at the time of data collection.

2.8 Period under Review

The study used primary data collected from July 2018 to June 2019.

2.9 Allocation

This study assumed that in-plant recycling for the production of the Invictus® Maximus Dryback LVT was a closed loop, meaning that the study allocated all of the environmental impacts from the recycling of the scraps from cutting, profiling, and any defective products and all of the environmental benefits of using recycled material to avoid waste generation during the production of the LVT to the process of production.

To be conservative, the environmental benefits of recycling and energy recovery were not included in the study for the recycling and disposal processes at the end-of-life stage.

For process-related allocations, the study distinguished between multi-input and multi-output processes.

– Multi-input processes

While allocating energy and auxiliary materials within the production site, allocation was carried out on the basis of either the average annual mass or the average annual surface area produced. The decision to use average annual mass or average annual surface area was based on the relationship of the input to the environmental impacts. In most cases, the input amount increases linearly with the mass of product produced. However, the amount of energy and materials used in the annealing and UV coating processes is proportional to the surface area of product produced. Accordingly, the allocation of energy and material related to these types of processes was based on surface area rather than mass.

– Multi-output processes

In this study, there were no other by-products from the production line, therefore there were very few situations that required allocation from multi-output processes. For waste treatment, one allocation was carried out on the environmental emissions. In the end-of-life stage, the allocation within the disposal scenario was based on mass, which applies to the waste treatment process inventory that was adopted from the Ecoinvent data. Multi-input processes

2.10 Comparability (Optional)

No comparisons or benchmarking are included in this EPD. LCA results across EPDs can be calculated with different background databases, modeling assumptions, geographic scope and time periods, all of which are valid and acceptable according to the Product Category Rules (PCR) and ISO standards. The user of the EPD should take care when comparing EPDs from different companies. Assumptions, data sources, and assessment tools may all impact the uncertainty of the final results and make comparisons misleading.





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3. Life Cycle Assessment Scenarios

According to Associated Weavers, the majority of the Invictus® Maximus Dryback LVT is purchased and used in the United Kingdom and in the European Union and the rest are purchased and used in other regions. The study estimated oceanic and road transportation distance for product delivery by referring to external resources. The table below demonstrates the data used for stage A4 in the LCA modelling.

Table 8. Transport to the Building Site (A4)

NAME	VALUE		UNIT
	ROAD	OCEAN	
Fuel type	DIESEL	HEAVY OIL	
Liters of fuel	31.11 l/100km	12.483 t/100km	l/100km or t/100km
Vehicle type	LORRY (32t)	SHIP (50000DWT)	
Transport distance	1000	DRYBACK 22609	km
Capacity utilization (including empty runs, mass based)	50	100	%
Gross density of products transported	1724	1724	kg/m ³
Capacity utilization volume factor (factor: =1 or <1 or ≥ 1 for compressed or nested packaging products)	0.4	0.4	-

Table 9. Installation into the Building (A5)

NAME	VALUE	UNIT
Ancillary materials	0.3	kg
Net freshwater consumption specified by water source and fate (amount evaporated, amount disposed to sewer)	-	m ³
Other resources	-	kg
Electricity consumption	-	kWh
Other energy carriers	-	MJ
Product loss per functional unit	0.05	m ² /m ²
Waste materials at the construction site before waste processing, generated by product installation	0.05	m ² /m ²
Output materials resulting from on-site waste processing (specified by route; e.g. for recycling, energy recovery and/or disposal)	-	kg
Mass of packaging waste specified by type	Pulp: 0.229 Wood: 0.385 Plastic: 0.003 Metal: 0.00017	kg
Biogenic carbon contained in packaging	0.851	kg CO ₂
Direct emissions to ambient air, soil and water	-	kg
VOC emissions	N/A	µg/m ³





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Table 10. Reference Service Life

NAME	VALUE	UNIT
RSL	15 (Commercial use) 25 (Residential use)	years
Declared product properties (at the gate) and finishes, etc.	Luxury Vinyl Tile	m ²
Design application parameters (if instructed by the manufacturer), including references to the appropriate practices and application codes)	-	-
An assumed quality of work, when installed in accordance with the manufacturer's instructions	-	-
Outdoor environment, (if relevant for outdoor applications), e.g. weathering, pollutants, UV and wind exposure, building orientation, shading, temperature	-	-
Indoor environment, (if relevant for indoor applications), e.g. temperature, moisture, chemical exposure)	Prevent water and moisture from accumulating underneath walk-off mats	-
Use conditions, e.g. frequency of use, mechanical exposure.	Commercial / Residential use	-
Maintenance, e.g. required frequency, type and quality of replacement components	Weekly vacuuming Weekly mopping	-

Table 11. Maintenance (B2)

NAME	VALUE	UNIT
Maintenance process information (cite source in report)	Weekly vacuum and weekly mopping	-
Maintenance cycle	Weekly vacuum and weekly mopping	Cycles/ RSL
Net freshwater consumption specified by water source and fate (amount evaporated, amount disposed to sewer)	5.2 city water disposed to sewer	L/m ² /year
Ancillary materials specified by type (e.g. cleaning agent)	104 (cleaning agent)	g/m ² /year
Other resources	-	kg
Energy input, specified by activity, type and amount	Electricity consumption 0.018	kWh/m ² /year
Other energy carriers specified by type	-	kWh
Power output of equipment	-	kW
Waste materials from maintenance (specify materials)	-	kg
Direct emissions to ambient air, soil and water	-	kg
Further assumptions for scenario development (e.g. frequency and time period of use, number of occupants);	-	-

As mentioned above, the majority of Invictus® Maximus Dryback products are purchased and used in the United Kingdom, the European Union and other European countries. The disposal of the used LVT products adopted a country- and region-based weighted average disposal model following disposal routes and waste classification referenced in





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PCR Part A Section 2.8.5 and 2.8.6. The LCA study used the end-of-life disposal treatment process (C4) from Ecoinvent and USLCI.

For the waste scenario, the study assumed a moderate distance of 100 km for the road transportation (C2) required from an installation site to a MSW treatment site. According to the manufacturer, the tile can be manually removed from the floor, so input and output were omitted for the deconstruction (C1) and waste processing (C3) stages. The table below displays the data used for stages C1-C4 in the LCA modeling.

Table 12. End-of-Life (C1-C4)

NAME		VALUE		UNIT
Assumptions for scenario development (description of deconstruction, collection, recovery, disposal method and transportation)		See description above		
Collection process (specified by type)	Collected separately	-		kg
	Collected with mixed construction waste	DRYBACK	4.31	kg
	Reuse	-		kg
Recovery (specified by type)	Recycling	DRYBACK	0.809	kg
	Landfill	DRYBACK	3.293	kg
	Incineration	DRYBACK	0.208	kg
	Incineration with energy recovery	-		kg
	Energy conversion efficiency rate	-		
Disposal (specified by type)	Product or material for final deposition	0		kg
Removals of biogenic carbon (excluding packaging)		DRYBACK	6.10E-03	kg CO ₂





4. Life Cycle Assessment Results

Table 13. Description of the System Boundary Modules

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste processing	Disposal	Reuse, Recovery, Recycling Potential
EPD Type: Cradle-to-grave	X	X	X	X	X	MND	X	MND	MND	MND	MND	MND	X	X	X	X	MND

4.1 Life Cycle Impact Assessment Results

To analyze the environmental impact of each process, a LCIA was conducted using the CML-IA baseline method and the TRACI method on the chosen representative **Maximus Dryback 2.5 (0.55)** products. The result was allocated by stages, as shown in tables below. Note that the results are based on 10 years' usage, as the representative product will be used for commercial purposes.

Table 14. North American Impact Assessment (TRACI) Results for Invictus® Maximus Dryback 2.5 (0.55)

Impact category (TRACI)	Unit	Production	Transport of product	Installation	Maintenance	Transport of waste	Disposal
		A1-A3	A4	A5	B2	C2	C4
Ozone depletion	kg CFC-11 eq	1.96E-07	1.19E-07	2.32E-08	2.36E-07	4.79E-08	5.99E-08
Global warming	kg CO ₂ eq	8.75E+00	1.82E+00	9.94E-01	4.89E+00	5.70E-01	1.70E+00
Smog	kg O ₃ eq	4.90E-01	4.33E-01	4.53E-02	1.73E-01	8.91E-02	2.28E-02
Acidification	kg SO ₂ eq	4.75E-02	2.81E-02	4.00E-03	1.61E-02	3.10E-03	1.75E-03
Eutrophication	kg N eq	1.33E-02	1.50E-03	3.51E-03	3.06E-02	2.67E-04	2.74E-02
Carcinogenics	CTUh	3.45E-07	3.18E-08	2.09E-08	1.52E-07	3.94E-09	8.70E-08
Non carcinogenics	CTUh	2.90E-06	1.63E-07	2.11E-07	5.08E-07	3.92E-08	3.89E-06
Respiratory effects	kg PM _{2.5} eq	4.59E-03	1.85E-03	3.62E-04	4.29E-03	3.74E-04	3.96E-04





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Ecotoxicity	CTUe	2.98E+01	3.16E+00	4.59E+00	3.21E+01	4.16E-01	2.95E+02
Fossil fuel depletion	MJ surplus	1.60E+01	3.25E+00	3.11E+00	1.69E+00	1.20E+00	3.06E-01

Table 15. EU Impact Assessment (CML) Results for Invictus® Maximus Dryback 2.5 (0.55)

Impact category (CML)	Unit	Production	Transport of product	Installation	Maintenance	Transport of waste	Disposal
		A1-A3	A4	A5	B2	C2	C4
Abiotic depletion	kg Sb eq	5.89E-06	5.55E-07	3.15E-06	1.02E-05	2.24E-07	4.90E-07
Abiotic depletion (fossil fuels)	MJ	1.38E+02	2.55E+01	2.27E+01	1.73E+01	8.42E+00	3.67E+00
Global warming (GWP100a)	kg CO ₂ eq	8.75E+00	1.82E+00	9.94E-01	4.89E+00	5.70E-01	1.70E+00
Ozone layer depletion (ODP)	kg CFC-11 eq	1.65E-07	9.00E-08	1.93E-08	2.04E-07	3.61E-08	5.30E-08
Human toxicity	kg 1.4-DB eq	1.51E+00	7.75E-01	2.19E-01	1.47E+00	8.60E-02	2.97E+00
Fresh water aquatic ecotox.	kg 1.4-DB eq	7.28E-01	1.95E-01	1.31E-01	1.21E+01	9.49E-03	1.60E+01
Marine aquatic ecotoxicity	kg 1.4-DB eq	4.39E+03	1.01E+03	4.85E+02	1.70E+03	4.77E+01	6.16E+04
Terrestrial ecotoxicity	kg 1.4-DB eq	2.60E-02	1.88E-03	6.44E-04	4.80E+00	1.92E-04	5.04E-03
Photochemical oxidation	kg C ₂ H ₄ eq	2.11E-03	1.10E-03	2.57E-04	2.81E-03	9.91E-05	3.62E-04
Acidification	kg SO ₂ eq	4.68E-02	2.75E-02	4.19E-03	1.43E-02	2.49E-03	1.41E-03
Eutrophication	kg (PO ₄) ³⁻ eq	8.66E-03	2.59E-03	1.46E-03	1.50E-02	5.10E-04	1.03E-02
Photochemical oxidation	kg C ₂ H ₄ eq	2.67E-03	2.49E-03	2.52E-05	2.81E-03	2.06E-04	8.88E-04
Acidification	kg SO ₂ eq	6.07E-02	5.97E-02	4.14E-05	1.42E-02	5.16E-03	1.84E-03
Eutrophication	kg (PO ₄) ³⁻ eq	1.25E-02	5.67E-03	1.05E-03	1.49E-02	1.06E-03	2.22E-02

* Zero input and output were assumed for deconstruction of the tile (C1) and waste processing (C3). Therefore, values for the two modules are zero and not included in the tables.

4.2 Life Cycle Inventory Results

Table 16. Resource Use

PARAMETER	UNIT	MAXIMUS DRYBACK 2.5 (0.55)
RPR _E : Renewable primary resources used as energy carrier (fuel)	[MJ]	4.48E+01
RPR _M : Renewable primary resources with energy content used as material	[MJ]	0.00E+00
NRPR _E : Non-renewable primary resources used as an energy carrier (fuel)	[MJ]	2.58E+02
NRPR _M : Non-renewable primary resources with energy content used as material	[MJ]	0.00E+00
SM: Secondary materials	[kg]	0.00E+00
RSF: Renewable secondary fuels	[MJ]	0.00E+00
NRSF: Non-renewable secondary fuels	[MJ]	0.00E+00
RE: Recovered energy	[MJ]	0.00E+00
FW: Use of net fresh water resources	[m ³]	9.70E-03





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Table 17. Output Flows and Waste Categories

PARAMETER	UNIT	MAXIMUS DRYBACK 2.5 (0.55)
HWD: Hazardous waste disposed	[kg]	3.45E-03
NHWD: Non-hazardous waste disposed	[kg]	3.83E-03
HLRW: High-level radioactive waste, conditioned, to final repository	[kg]	0.00E+00
ILLRW: Intermediate- and low-level radioactive waste, conditioned, to final repository	[kg]	0.00E+00
CRU: Components for re-use	[kg]	0.00E+00
MR: Materials for recycling	[kg]	0.00E+00
MER: Materials for energy recovery	[kg]	0.00E+00
EE: Recovered energy exported from the product system	[MJ]	0.00E+00

Table 18. Carbon Emissions and Removals

PARAMETER	UNITS	MAXIMUS DRYBACK 2.5 (0.55)
BCRP	[kg CO ₂]	6.10E-03
BCEP	[kg CO ₂]	6.10E-03
BCRK	[kg CO ₂]	8.51E-01
BCEK	[kg CO ₂]	2.65E-01
BCEW	[kg CO ₂]	N/A
CCE	[kg CO ₂]	N/A
CCR	[kg CO ₂]	N/A
CWNR	[kg CO ₂]	N/A

5. LCA Interpretation

Analysis of impact categories on various life cycle stages reveals that the production, transportation (oceanic and road), maintenance, and end-of-life treatment of the Invictus® Maximus Dryback LVT are the main contributors to its environment impacts. The process contribution analysis reveals that PVC raw materials, electricity consumption, transportation, incineration, and landfill component of waste treatment contribute the most to the environmental impacts.

The sensitivity analysis shows that a change in assumptions (such as transportation distance), inputs during maintenance, the disposal scenarios, and the quality of data can lead to fluctuations in the final LCA results. It is therefore recommended to revise the model with updated data, assumptions, or parameters as they become available to get the most up-to-date and accurate results.

The LCA study has been carried out based on available information, including that from regional and global databases and experience, to make the results as accurate, complete and representative as possible.





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6. Additional Environmental Information

6.1 Environment and Health During Manufacturing

No substances required to be reported as hazardous are associated with the production of this product.

6.2 Environment and Health During Installation

Instructions should be followed as indicated on the Safety Data Sheets and installation guidelines. It is suggested to use the adhesive recommended by Associated Weavers for the installation of Dryback LVT on the purpose of higher indoor air quality.

6.3 Extraordinary Effects

Fire

ASTM E648 Radiant Panel: Class I, >0.45 W/cm²
ASTM E662 Smoke Density: Passes, <450

Water

In daily use, prevent water and moisture from accumulating underneath walk-off tiles. Exposure to flooding for long periods may result in damage to the product.

Mechanical Destruction

Performance requires proper installation according to Invictus LVT installation guidelines.

6.4 Further Information

The total VOC emissions of the products are no more than 0.5 mg/m³ after a test period of 14 days.





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GREAT FLOORING · INVINCIBLE PERFORMANCE

ASSOCIATED WEAVERS
INVICTUS - MAXIMUS DRYBACK



According to ISO 14025,
EN 15804, and ISO 21930:2017

7. References

UL ENVIRONMENT

UL Environment General Program Instructions April 2017, version 2.1

Part A: Life Cycle Assessment Calculation Rules and Report Requirements UL Environment (September 2018, version 3.2)

Part B: Flooring EPD Requirements UL 10010-7

SUSTAINABILITY REPORTING STANDARDS

European Standards. (2013). EN 15804+A1 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.

ISO. (2006). ISO 14044: Environmental management - Life cycle assessment - Requirements and guidelines.

ISO. (2009). ISO 14040: Environmental management - Life cycle assessment - principles and frameworks.

ISO. (2011). ISO 14025: Environmental labels and declarations - Type III environmental declarations - principles and procedures.

ISO. (2017). ISO 21930 Sustainability in building construction - Environmental declaration of building products.

8. Contact Information

8.1 EPD Owner



INVICTUS®
GREAT FLOORING · INVINCIBLE PERFORMANCE

INVICTUS® by ASSOCIATED WEAVERS

Email: bart.de.bruycker@awe.be

Website: www.invictus.co.uk / www.invictus.eu

8.2 LCA and EPD Practitioner



Ecovane Environmental Co., Ltd

Mrs. Fangyan Xu (fangyan@1mi1.cn)

Mrs. Dandan Li (schnee@1mi1.cn)

Website: www.1mi1.org



UE CONFORMITY DECLARATION

(ES ATITIKTIES DEKLARACIJA)

1. Type: **PREXA 44; PREXA 54; PREXA 76; PREXA 82**
(Tipas):
2. Producer's name and address: **MIDAS Małgorzata Wesołowska**
(Gamintojo pavadinimas ir adresas): **ul. Tadeusza Kościuszki 17 lok 9, 25-316 Kielce, Polska.**
3. This conformity declaration is given on the producer's sole responsibility.
(Ši atitikties deklaracija išduota gamintojo atsakomybe.)
4. Subject of declaration: **System of open baseboards made by MIDAS type:**
(Deklaracijos objektas): **PREXA 44; PREXA 54; PREXA 76; PREXA 82**
(Atvirų grindjuosčių sistemų, pagamintų Midas, tipai)
5. The above subject of this declaration is in accordance with the the following requirements of the EU legislation of harmonization: (Aukščiau paminėtas šios deklaracijos objektas atitinka ES darnųjų standartų reikalavimus):
- Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designer for use within certain voltage limits. (2014 m. vasario 26 d. Europos Parlamento ir Tarybos direktyva 2014/35/ES dėl valstybių narių įstatymų, susijusių su tam tikrose įtampos ribose skirtų naudoti elektros įrenginių tiekimu rinkai, suderinimo.)
6. References to the used relevant harmonization standards or to other technical specifications the accordance is declared:
(Nuorodos į naudotus darniuosius standartus ar kitas technines specifikacijas, sutinkamai su deklaracija):
PN-EN 50085-1:2010+A1:2013-10 (EN 50085-1:2005+A1:2013)
PN-EN 50085-2-1:2008+A1:2011 (EN 50085-2-1:2006+A1:2011)
7. Additional information: (Papildoma informacija):
This confirmity declaration concerns all colours used in the MIDAS open baseboards.
Type: **PREXA 44; PREXA 54; PREXA 76; PREXA 82**
(Ši atitikties deklaracija apima visas išvardintų Midas atvirų grindjuosčių spalvas)
8. Signed on behalf of:
(Pasirašyta):

Kielce, 06.09.2016 r.

.....
(name and surname of authorised person)

MIDAS
.....25-316 Kielce, ul. Kościuszki 17/9
Dyrektor, Koordynujący

Marcin Makówka



Technical Specification - Technische Spezifikationen - Spécifications techniques - Technische specificaties

Thickness - Gesamtdicke - Epaisseur - Dikte	EN ISO 24337	2.50 mm
Wearlayer - Nutzschrift - Couche d'usure - Slijtlaag	EN ISO 24340	0.55 mm
Wearlayer PUR coating - Schutz vor Schmutz PUR - Traitement polyurethane - PUR slijtlaag behandeling		Scratchmaster® top layer
Weight per sqm - Flächengewicht g/m ² - Poids total g/m ² - Totaal gewicht g/m ²	EN ISO 23997	ca. 4310 g/m ²
Classification - Eignungsklasse - Classe d'usage - Gebruiksklasse	EN ISO 10874	33 Commercial Heavy - 42 Industrial General



Performance - Leistungen - Prestaties

Reaction to fire - Brandverhalten - Classement feu - Brandklasse	EN 13501-1	Bfl-S1
Slip resistance - Rutschfest - Glissance - Antislip	EN 13893	DS
Slip restraint (dynamic coefficient of friction) - Rutschhemmung - Résistance au glissement - Slipweerstand	DIN 51130	R10
Thermal resistance R value - Wärmedurchlasswiderstand R - Résistance thermique R - Wamtedoorlaatweerstand R	EN 12664	0.028 (m ² .K)/W
Underfloor heating - Bodenheizung - Chauffage par le sol - Vloerverwarming	EN ISO 12524	Yes, max. 27°C
Electrostatic performance - Antistatik - Accumulation de charges électrostatiques - Electrostatische propensiteit	EN 1815	< 2 kV
Residual indentation - Eindruckverhalten - Poinçonnement rémanent - Restindruk	EN ISO 24343-1	< 0.1 mm
Dimensional stability - Massänderung - Stabilité dimensionnelle - Dimensionele stabiliteit	EN ISO 23999	≤ 0.15%
Curling - Schüsselung - Incurvation - Krulling	EN ISO 23999	pass
Castor chair resistance - Stuhlrollenfestigkeit - Résistance aux chaises à roulettes - Bestand tegen stoelwielen	EN ISO 4918	pass, Type W
Colour fastness - Farbechtheit - Solidité de la couleur - Kleurechtheid	EN ISO 105-B02	> 6
Impact sound insulation - Trittschallverbesserungsmaß - Efficacité acoustique - Kontaktgeluidisolatie	EN ISO 717-2	3dB (ΔLw)
Chemical / Stain resistance - Fleckenbeständigkeit - Résistance aux taches - Vlekbestendigheid	EN ISO 26987	pass
Abrasion resistance - Verschleißfestigkeit - Résistance à l'abrasion - Slijtvastheid	EN ISO 660-1	class T
Indoor AIR quality - French VOC regulation	ISO 16000	Greenguard GOLD - Floorscore - A+
Content of pentachlorophenol		PCP under detection limit
Formaldehyde emissions (28 days test)	EN ISO 717-1	NA HCHO (has not been added)
Phthalate free		Yes, biobased
CE marking	EN 14041:2011	

Packaging - Verpackung - Emballage - Verpakking

Size and packaging wood	EN ISO 24342	178x1219 mm	15 planks / carton = 3.25 m ² / carton
Size and packaging wood XL plank	EN ISO 24342	229x1517 mm	10 planks / carton = 3.47 m ² / carton
Size and packaging wood parquet	EN ISO 24342	102x406 mm	34 planks / carton = 1.404 m ² / carton
Size and packaging stone	EN ISO 24342	305x610 mm	18 tiles / carton = 3.34 m ² / carton
Size and packaging stone	EN ISO 24342	229x229 mm	40 tiles / carton = 2.09 m ² / carton
Size and packaging stone	EN ISO 24342	457x914 mm	8 tiles / carton = 3.34 m ² / carton

Warranty - Garantie

Warranty - Garantie

25 years Residential - 15 years Commercial

The technical data is correct at the time of printing. v2 - 06/2021



CERTIFIED BY SGS Global Services



DECLARATION OF PERFORMANCE

DOP 1008#TL0011

1. Unique identification code of the product-type:

1008#TL0011

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

MAXIMUS DRYBACK - HETEROGENOUS PVC FLOOR TILE/PLANK_ acc. EN 10582

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

For use as floor covering in buildings according to the manufacturer's specifications. (See EN 14041)

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Associated Weavers Europe NV - Industriepark Klein Frankrijk / Weverijstraat 1 - B - 9600 Ronse



5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

Name of the notified test laboratory, that has issued the certificate of conformity of the factory production control, inspection reports and calculation reports (if relevant).

TFI Aachen GmbH-52068 Aachen, Deutschland

1658-CPR-3531

Notified Body

certificate of constancy of performance

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

not applicable

9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire		EN 14041 2004 / AC : 2006
Content of Pentachlorophenol		EN 14041 2004 / AC : 2006
Formaldehyd Emissions		EN 14041 2004 / AC : 2006
Slip resistance		EN 14041 2004 / AC : 2006
Electrical behavior (antistatic)		EN 14041 2004 / AC : 2006
Thermal conductivity [W/mK]		0,074 EN 14041 2004 / AC : 2006

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4

Signed for and on behalf of the manufacturer by:

Erik Deporte, CEO

(name and function)

30/11/2022

Ronse

(place and date of issue)

(signature)