

# CERTIFICATE

## AGT AĞAÇ SANAYİ A.Ş Organize Sanayi Bölgesi 3.Kisim 07190 Antalya, Turkey

is granted the right, on the basis of the contract on the use of the environmental  
label no. 34338 based on DE-UZ 176 Edition 2013, for the product

**AGT AGAC SANAYİ Natura, Effect, Concept, Bella, Pruva, Bloom,  
Glow, Pulse and Stream; Laminate flooring up to 12 mm thickness**

to use the Blue Angel Ecolabel shown below as a sign of special environmental  
friendliness.



Bonn, 27 August 2020

*R. Wollmann*

Managing Director  
RAL gGmbH

# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

## Flooring

from AGT Ağaç Sanayi ve Tic. A.Ş.







Programme :	EPD Turkey, a fully aligned regional programme <a href="http://www.epdturkey.org">www.epdturkey.org</a>	The International EPD® System <a href="http://www.environdec.com">www.environdec.com</a>
Programme Operator :	EPD Turkey: SÜRATAM – Turkish Centre for Sustainable Production Research & Design Nef 09 B Blok No:7/15 34415 Kagithane/Istanbul, TURKEY	EPD International AB Stockholm, Sweden
EPD Registration Number:	S-P-01915	
Publication Date:	04.05.2020	
Validity Date:	03.05.2025	
Geographical Scope:	Global	

# PROGRAMME INFORMATION

Programme	EPD Turkey, a fully aligned regional programme	The International EPD® System
	<p>SÜRATAM – Turkish Centre for Sustainable Production Research &amp; Design</p> <p>Nef 09 B Blok No:7/15 34415 Kagithane/Istanbul, TURKEY</p> <p>www.epdturkey.org info@epdturkey.org</p>	<p>EPD International AB Box 210 60 SE-100 31 Stockholm Sweden</p> <p>www.environdec.com info@environdec.com</p>

## Product Category Rules (PCR):

2019:14 Version 1.0, 2019-12-20, Construction Products and CPC 54 Construction Services and c-PCR-006 Wood and wood-based products for use in construction (EN 16485)

## Independent third-party verification of the declaration and data, according to ISO 14025:2006:

EPD process certification

EPD verification ☒

**Third party verifier:** Vladimír Kocí, PhD

**Approved by:** The International EPD® System

## Procedure for follow-up of data during EPD validity involves third party verifier:

YES

NO ☒

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.



# COMPANY INFORMATION

AGT (Advanced Technology in Wood Industry), starting out with the dream of processing and developing wood products customized for individual and corporate requirements in 1984 in Antalya, is operating today as one of the leading companies of the world in furniture components sector. AGT serves for the construction industry with its production of flooring and skirting and for the furniture and decoration sector with its production of MDF, MF-MDF, Panel, and Profile in its modern production facilities established on an area of 400 thousand square meters at the Antalya Organized Industrial Zone.

AGT is among top 500 Industrial Enterprises in Turkey and realized a growth rate of 30% with an annual return over 1 billion TL in 2018. With an employment figure over 900 people AGT can manufacture all wood materials required for indoor areas at their own premises.

Since its establishment, AGT has never compromised on their ethical value and quality principles. Quality, trend and development are still among their main objectives for all their customers, employees and business partners. Today, AGT adds color, elegance and sustainable viability to living space of millions of people who give importance to quality and aesthetics through their more than 1000 sales points in 5 continents. As well as the dealer channels spread all over Turkey, AGT has sales points over 5 continents and exports to more than 70 countries.

Quality is a never ending story without an end but it is a goal that is constantly being renewed and developed with the expectations of our customers. At furniture components sector; with a reliable, organized and institutionalized business mentality; AGT's quality policy is to increase their production quality by closely following the developing technology, to fully meet their customers expectations and demands, to increase the effectiveness of their quality management system and to be a preferred brand in national and international markets by providing sustainability of their place in the sector.

The company has ISO 9001 Quality Management System, ISO 14001 Environment Management System, ISO 45001 Occupational Health & Safety Management System Certification, EFQM (European Foundation for Quality Management), PEFC (Programme for the Endorsement of Forest Certification), FSC(Forest Stewardship Council) and TSCA Certification.



# PRODUCT INFORMATION

AGT

Flooring



For detailed  
product information:

Scan or Click !

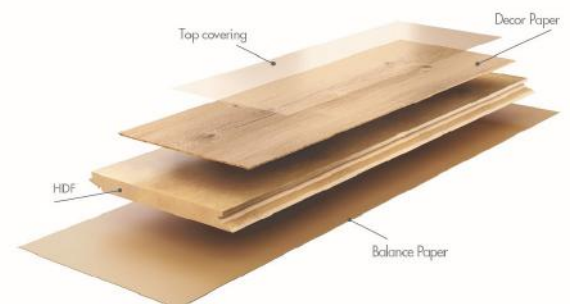


AGT flooring is a multi-layer flooring product fused together with a lamination process.

**UN CPC code:** CPC 31442

## Typical Material Composition

Material	Composition
HDF	%90-%97
Balans Paper and Auxiliary Materials	%1-5
Overlay and Auxiliary Materials	%1-5



QUICK AND EASY  
INSTALLATION



UV RESISTANCE



ENVIRONMENT  
FRIENDLY



NON-ABRASIVE  
FURNITURE LEGS



LOAD-BEARING BOARD,  
HIGH DENSITY FIBRE BOARD



EASY TO CLEAN,  
HYGIEMIC



POINT IMPACT  
RESISTANCE



STAIN  
RESISTANCE



SCRATCH  
RESISTANT

# Technical Specifications

SPECIFICATION	UNIT	TEST STANDARD	BELLA	CONCEPT	EFFECT	EFFECT PREMIUM	AC3 LAMINATE	AC4 LAMINATE	AC5 LAMINATE
Thickness Difference Between Elements, t	mm	EN 13329	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m	t average< 0,50mm t max-t min<0,50m
Resistance to Abrasion	Cycle	EN 438	Cycle>2000	Cycle>4000	Cycle>4000	Cycle>6000	Cycle>2000	Cycle>4000	Cycle>6000
Squareness of the Element, q	mm	EN 13329	q max< 0,2mm	q max< 0,2mm	q max< 0,2mm	q max< 0,2mm	q max< 0,2mm	q max< 0,2mm	Q max< 0,2mm
Length of Surface Panel, l	mm	EN 13329	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m	l<1500mm l fark<0,5mm l>1500mm l fark<0,3mm/m
Width of Surface Panel, w	mm	EN 13329	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm	w average diff. 0,10mm w max-w min<0,20mm
Straightness of the Surface Layer	mm	EN 13329	≤0,30mm	≤0,30mm	≤0,30mm	≤0,30mm	≤0,30mm	≤0,30mm	≤0,30mm
Surface Smoothness	%	EN 13329	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%	Fw concave < 0,15% Fw convex < 0,20% F1 concave < 0,50% F1 convex < 1,00%
Gap Between the Elements, O	mm	EN 13329	O average<0,15mm O the largest 0,20mm	O average<0,15mm O the largest 0,15mm	O average<0,15mm O the largest 0,20mm	O average<0,15mm O the largest 0,20mm	O average<0,15mm O max 0,20mm	O average<0,15mm O the largest 0,20mm	O average<0,15mm O the largest 0,20mm
Height Difference Between The Elements, h	mm	EN 13329	h average<0,10mm h max<0,15mm	h average<0,10mm h max<0,20mm	h average<0,10mm h max<0,15mm	h average<0,10mm h max<0,15mm	h average<0,10mm h max<0,15mm	h average<0,10mm h max<0,15mm	h average<0,10mm h max<0,15mm
Surface Stability	N/mm <sup>2</sup>	EN 13329	AC3≥1 N/mm <sup>2</sup>	AC4≥1,25 N/mm <sup>2</sup>	AC4≥1,25 N/mm <sup>2</sup>	AC5≥1,25 N/mm <sup>2</sup>	AC3≥1 N/mm <sup>2</sup>	AC4≥1,25 N/mm <sup>2</sup>	AC5≥1,25 N/mm <sup>2</sup>
Stratch Resistance	N	EN 438	>3,5 N	>3,5 N	>3,5 N	>3,5 N	>3,5 N	>3,5 N	>3,5 N
Armchair Wheel Impact	Cycle	EN 425	25.000 cycle, No change or damage in appearance	25.000 cycle, No change or damage in appearance	25.000 Cycle, No change or damage in appearance	25.000 cycle, No change or damage in appearance	25.000 Devir. No change or damage in appearance	25.000 Devir. No change or damage in appearance	25.000 Devir. No change or damage in appearance
Furniture Leg Impact	-	EN 424	There should not be visible damage.	There should not be visible damage.	There should not be visible damage.	There should not be visible damage.	There should not be visible damage.	There should not be visible damage.	There should not be visible damage.
Resistance to Hot Containers	Class	EN 13329	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4
Resistance to Water Vapor	Class	EN 13329	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4	Class 4
Resistance to Stain	Class	EN 13329	Class 5	Class 5	Class 5	Class 5	Group 1 and 2: Class 5 Group 3: Class 4	Class 5	Class 5
Swelling in Water for 24 hours	%	EN 13329	<%18	<%18	<%18	<%18	<%18	<%18	<%18
Twist Resistance	N/mm <sup>2</sup>	EN 317	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>	>40 N/mm <sup>2</sup>
Elasticity Module	N/mm <sup>2</sup>	EN 310	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>	>3500 N/mm <sup>2</sup>
Tensile Strength	N/mm <sup>2</sup>	EN 319	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>	≥1,2 N/mm <sup>2</sup>
Size	mm		8 mm * 193 mm * 1200 mm (Thickness * Width * Length)	10 mm * 155 mm 1200 mm (Thickness * Width * Length)	8 mm * 191 mm * 1200 mm (Thickness * Width * Length)	12 mm * 189 mm * 1195 mm (Thickness * Width * Length)	8 mm * 191 mm * 1200 mm (Thickness * Width * Length)	8 mm * 191 mm * 1200 mm (Thickness * Width * Length)	8 mm * 191 mm * 1200 mm (Thickness * Width * Length)

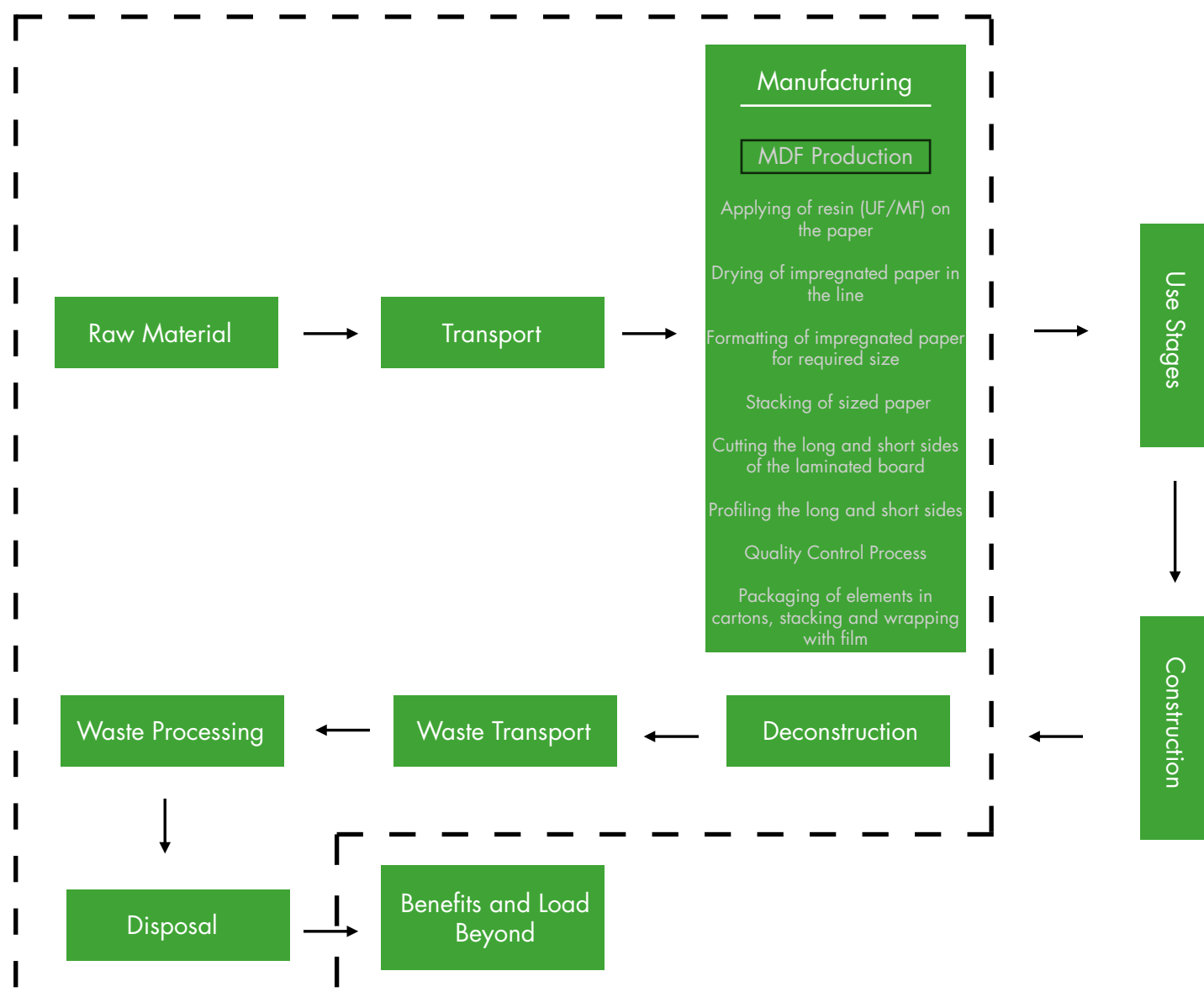




# LCA INFORMATION

<b>Declared Unit</b>	1 m <sup>2</sup> of Flooring with an average weight 16.2 kg/m <sup>2</sup>
<b>Time Representativeness</b>	2019
<b>Reference Service Life (RSL)</b>	RSL is 20 years provided that it complies with the conditions of use. RSL depends on application area and usage.
<b>Database(s) and LCA Software used</b>	Ecoinvent 3.5 and SimaPro 9.0
<b>Description of system boundaries</b>	Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)

## System Diagram





# DESCRIPTION OF SYSTEM BOUNDARY

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw Materials Supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction	Transport	Waste processing	Disposal	Reuse-Recycling-Recovery Potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

The system boundary covers the production of raw materials, all relevant transport down to factory gate, manufacturing by AGT, deconstruction of the product from its construction site, transport of the deconstructed material to waste processing facility with an assumed distance of 200 km, waste processing and disposal.

Waste processing, while included in the system boundary, doesn't contribute to the environmental impacts due to the assumption that the product goes directly to landfill in disposal stage without any processing.

For benefits and loads beyond, a calorific value of 18.6 MJ per kg of MDF was assumed (Günther et al., 2012) to calculate the amount of avoided natural gas use for heating. AGT produces wooden packaging materials from its own process waste. Due to this, packaging materials were not included separately to avoid double counting.

For deconstruction stage, 0.323 MJ electricity use per kg of material was assumed (Gervasio et al., 2018). For environmental impact assessment, EF Method (adapted) which is available in SimaPro 9 was used.

Energy related indicators were calculated from Cumulative Energy Demand (LHV) and resource indicators were calculated using inventory flows. There are no co-product allocations within the LCA study underlying this EPD.

Hazardous and non-hazardous waste amounts were allocated using yearly production amounts of all AGT products. Primary data obtained from AGT is valid for year 2019. Ecoinvent 3.5 was used as secondary database.

The product contains formaldehyde which is a substance of very high concern (SVHC) and is subject to authorization under the REACH Regulation. For details, test results are provided in the additional information section.

# LCA RESULTS

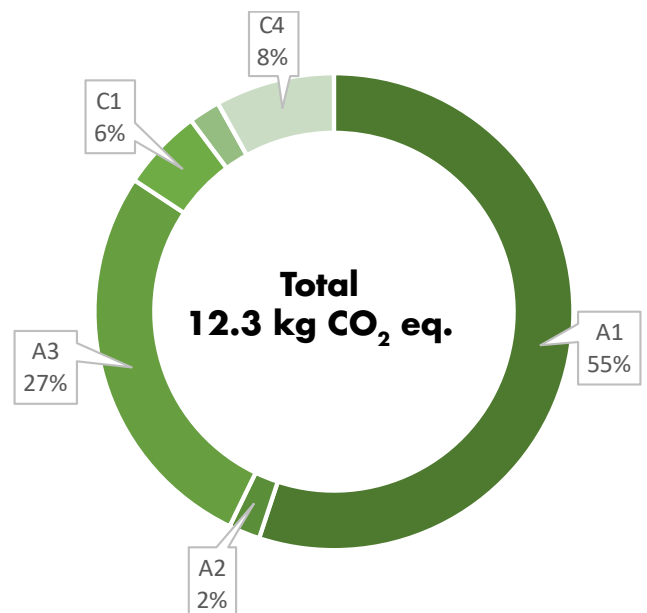
## Environmentals Impacts for 1 m<sup>2</sup> Flooring by AGT

Impact Category	Unit	A1-A3	C1	C2	C3	C4	D
GWP - Total	kg CO <sub>2</sub> eq	11.3	0.738	0.284	0	1.08	-8.66
GWP - Fossil	kg CO <sub>2</sub> eq	11.2	0.732	0.283	0	0.103	-8.65
GWP - Biogenic	kg CO <sub>2</sub> eq	0.017	0.002	93.1E-6	0	0.974	-0.002
GWP - Luluc	kg CO <sub>2</sub> eq	0.038	0.004	74.8E-6	0	18.4E-6	-332E-6
ODP	kg CFC-11 eq	1.19E-6	24.1E-9	56.1E-9	0	32.2E-9	-743E-9
AP	mol H <sup>+</sup> eq	0.074	0.004	0.001	0	0.001	-0.013
EP - Freshwater	kg PO <sub>4</sub> eq	0.015	0.002	69.5E-6	0	65.5E-6	-462E-6
*EP - Freshwater	kg P eq	0.005	0.001	22.9E-6	0	21.6E-6	-152E-6
EP - Marine	kg N eq	0.011	0.001	194E-6	0	0.005	-0.003
EP - Terrestrial	mol N eq	0.182	0.007	0.002	0	0.004	-0.032
POCP	kg NMVOC	0.035	0.002	0.001	0	0.001	-0.012
ADPE	kg Sb eq	41.1E-6	181E-9	546E-9	0	147E-9	-1.45E-6
ADPF	MJ	183	8.46	4.67	0	2.94	-133
WDP	m <sup>3</sup> depriv.	12.3	0.218	0.035	0	0.018	-0.684
PM	disease inc.	902E-9	19.9E-9	24.8E-9	0	19.7E-9	-36.9E-9
IR	kBq U-235 eq	0.489	0.011	0.023	0	0.021	-0.024
ETP - FW	CTUe	9.016	0.231	0.982	0	0.061	-1.69
HTTP - C	CTUh	160E-9	5.29E-9	1.96E-9	0	1.79E-9	-19.3E-9
HTTP - NC	CTUh	1.01E-6	48.1E-9	53.7E-9	0	8.54E-9	-114E-9
SQP	Pt	4360	0.667	8.01	0	11.0	-2.99
<b>Acronyms</b>	GWP-total: Climate change, GWP-fossil: Climate change- fossil, GWP-biogenic: Climate change - biogenic, GWP-luluc: Climate change - land use and transformation, ODP: Ozone layer depletion, AP: Acidification terrestrial and freshwater, EP-freshwater: Eutrophication freshwater, EP-marine: Eutrophication marine, EP-terrestrial: Eutrophication terrestrial, POCP: Photochemical oxidation, ADPE: Abiotic depletion - elements, ADPF: Abiotic depletion - fossil resources, WDP: Water scarcity, PM: Respiratory inorganics - particulate matter, IR: Ionising radiation, ETP-fw: Ecotoxicity freshwater, HTP-c: Cancer human health effects, HTP-nc: Non-cancer human health effects, SQP: Land use.						
<b>Legend</b>	A1: Raw Material Supply, A2: Transport, A3: Manufacturing, A1-A3: Sum of A1, A2, and A3. A4: Transport to Site, A5: Installation, C1: De-Construction, C2: Waste Transport, C3: Waste Processing, C4: Disposal, D: Benefits and Loads Beyond the System Boundary.						

\* Eutrophication-freshwater is also provided in P as additional information.

The results show that A1 - Raw Material stage is the biggest contribution to the environmental indicator of Global Warming Potential with 55%.

A3 - Manufacturing stage follows with %27.





### Resource use for 1 m<sup>2</sup> Flooring by AGT

Resource	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	16.0	1.06	0.047	0	0.091	-0.227
PERM	MJ	288	0	0	0	0	-231
PERT	MJ	304	1.06	0.047	0	0.091	-231
PENRE	MJ	183	8.46	4.67	0	2.94	0
PENRM	MJ	0	0	0	0	0	0
PENRT	MJ	183	8.46	4.67	0	2.94	0
SM	kg	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	-231
NRSF	MJ	0	0	0	0	0	0
FW	m <sup>3</sup>	0.048	0.003	0.001	0	0.003	-0.023
Acronyms	PERE: Use of renewable primary energy excluding resources used as raw materials, PERM: Use of renewable primary energy resources used as raw materials, PERT: Total use of renewable primary energy, PENRE: Use of non-renewable primary energy excluding 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, SM: Secondary material, RSF: Renewable secondary fuels, NRSF: Non-renewable secondary fuels, FW: Net use of fresh water.						

### Waste and output flows for 1 m<sup>2</sup> Flooring by AGT

Flow	Unit	A1-A3	C1	C2	C3	C4	D
HWD	kg	0.015	0	0	0	0	0
NHWD	kg	3.75	0	0	0	0	0
RWD	kg	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0
MER	kg	0	0	0	0	0	-12.4
EE (Electrical)	MJ	0	0	0	0	0	0
EE (Thermal)	MJ	0	0	0	0	0	-231
Acronyms	HWD: Hazardous waste disposed, NHWD: Non-hazardous waste disposed, RWD: Radioactive waste disposed, CRU: Components for reuse, MFR: Material for recycling, MER: Materials for energy recovery, EE (Electrical): Exported energy electrical, EE (Thermal): Exported energy, Thermal						
Legend	A1: Raw Material Supply, A2: Transport, A3: Manufacturing, A1-A3: Sum of A1, A2, and A3, C1: De-Construction, C2: Waste Transport, C3: Waste Processing, C4: Disposal, D: Benefits and Loads Beyond the System Boundary.						

### Information on Biogenic Carbon Content

#### Results per functional or declared unit

Biogenic Carbon Content	Unit	QUANTITY
Biogenic carbon content in product	kg C	8.1

**Note:** It was assumed 50% of the product is biogenic carbon.

## ADDITIONAL INFORMATION

### Product | Catalogue

Please follow the product catalogue for more information, product details and images.



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### Product | Standards

MDF products manufactured by AGT follows the below standards:

- GOSTR CERTIFICATE
- CE 14041:2018
- TS EN 13329
- Blue Angel Ecolabel



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### Blue Angel Ecolabel | Environmentally Friendly Product

The flooring products manufactured by AGT have the Blue Angel Ecolabel.

The Blue Angel is the ecolabel of the federal government of Germany since 1978. The Blue Angel sets high standards for environmentally friendly product design and has proven itself over the past 40 years as a reliable guide for a more sustainable consumption.



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### VOC Emissions | Indoor Air Quality

**Testing institute:** Fraunhofer Institut für Holzforschung Wilhelm-Klauditz-Institut WKI

**Test report:** MAIC-2019-4905

**Test object:** Testing evaluation of a flooring sample according to the criteria of the Blue Angel "Low Emission Floor Coverings, Panels and Doors for interiors made of wood and wood based materials(DE-UZ 176)"

**Sample:** Natura, Concept (Effect Laminate Flooring, Thickness  $\leq 12$  mm )

Method: /DIN EN ISO 16000/ part 3, 6, 9 and 11

Name	Value (After 7 Days)	Unit
TVOC (C6-C16)	15	$\mu\text{g}/\text{m}^3$
Summe SVOC (C16-C22)	0	$\mu\text{g}/\text{m}^3$
R (dimensionless)	0.067	$\mu\text{g}/\text{m}^3$
VOC without LCI	0	$\mu\text{g}/\text{m}^3$

### Formaldehyde | Indoor Air Quality

Flooring:  $0.992 \text{ mg}/\text{m}^2\text{h}$

Class : E1

# REFERENCES

- /GPI/ General Programme Instructions of the International EPD® System. Version 3.0
- /ISO 9001/ Quality management systems – Requirements
- /ISO 14001/ Environment Management System- Requirements
- /EN 15804:2012+A2:2019/ Sustainability of construction works - Environmental Product Declarations — Core rules for the product category of construction products
- /ISO 14020:2000/ Environmental labels and declarations — General principles
- /ISO 14025/ ISO 14025:2006 Preview Environmental labels and declarations – Type III environmental declarations – Principles and procedures
- /ISO 14040-44/ ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework (ISO 14040:2006) and Requirements and guidelines (ISO 14044:2006)
- /ISO 45001/ Occupational Health & Safety Management System Certification - Requirements
- / Gervasio et al., 2018 /Model for Life Cycle Assessment of buildings LCA, JRC Technical Reports, 2018.
- / Günther et al. ,2012 /Calorific value of selected wood species and wood products, Springer.
- /PCR for Construction Products and CPC 54 Construction Services/ Prepared by IVL Swedish Environmental Research Institute, Swedish Environmental Protection Agency, SP Trä, Swedish Wood Preservation Institute, Swedisol, SCDA, Svenskt Limträ AB, SSAB, The International EPD System, 2019:14 Version 2.0, DATE 2019-12-20
- /Ecoinvent/ Ecoinvent Centre, [www.ecoinvent.org](http://www.ecoinvent.org)
- /SimaPro/ SimaPro LCA Package, Pré Consultants, the Netherlands, [www.pre-sustainability.com](http://www.pre-sustainability.com)



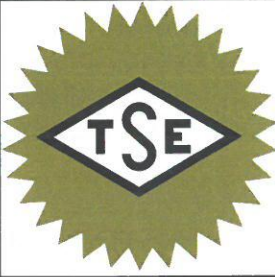
# CONTACT INFORMATION

Programme	<p>EPD registered through fully aligned regional programme: EPD Turkey <a href="http://www.epdturkey.org">www.epdturkey.org</a></p>  <p>ENVIRONMENTAL PRODUCT DECLARATIONS</p>	<p>The International EPD® System <a href="http://www.environdec.com">www.environdec.com</a></p>  <p>THE INTERNATIONAL EPD® SYSTEM</p>
Programme Operator	<p>EPD Turkey: SÜRATAM – Turkish Centre for Sustainable Production Research &amp; Design Nef 09 B Blok No:7/15, 34415 Kagıthane / Istanbul, TURKEY</p> <p><a href="mailto:info@suratam.org">info@suratam.org</a> <a href="http://www.suratam.org">www.suratam.org</a></p>	<p>EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden</p> <p><a href="mailto:info@environdec.com">info@environdec.com</a></p>
Owner of the Declaration	 <p>Organize Sanayi Bölgesi 3. Kısım, 35. Cadde 07190 Türkiye / Antalya / Döşemealtı</p>	<p>Contact: Merve Akkaya Phone: +90 242 249 17 17 Fax: +90 242 249 17 27</p> <p><a href="http://www.agt.com.tr">www.agt.com.tr</a> <a href="mailto:info@agt.com.tr">info@agt.com.tr</a></p>
LCA practitioner and EPD Design	 <p>Turkey: Lalegül Sok. No:7/18 Kagıthane 34415 Istanbul, Turkey (+90) 212 281 13 33</p> <p><a href="mailto:infotr@metsims.com">infotr@metsims.com</a></p>	<p>United Kingdom: 4 Clear Water Place Oxford OX2 7NL (+44) 800 772 0185</p> <p><a href="mailto:info@metsims.com">info@metsims.com</a> <a href="http://www.metsims.com">www.metsims.com</a></p>
Independent Verifier		<p>Vladimír Kocí, PhD LCA Studio Šárecká 5, 16000 Prague 6 - Czech Republic <a href="http://www.lcastudio.cz">www.lcastudio.cz</a></p>

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**CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS**

Markanın Tanımı Description of the Mark  
TSE veya/or TSE veya/or T S E

**BELGE NUMARASI**  
REFERENCE NUMBER OF LICENCE 024871-TSE-07/01

**BELGENİN İLK VERİLİŞ TARİHİ**  
DATE OF FIRST ISSUE OF LICENCE 18.02.2019

**BELGENİN SON GEÇERLİLİK TARİHİ**  
LICENCE VALID UNTIL 18.02.2021

**BELGE SAHİBİ KURULUŞUN ADI**  
NAME OF THE LICENCE HOLDER AGT AĞAÇ SANAYİ VETİC.A.Ş.

**BELGE SAHİBİ KURULUŞUN ADRESİ**  
ADDRESS OF THE LICENCE HOLDER ORGANİZE SANAYİ BÖLGESİ 3.KISIM 35. CAD. NO:7 DÖŞEMEALTI ANTALYA/TÜRKİYE

**ÜRETİM YERİ ADI**  
NAME OF THE MANUFACTURING PLACE AGT AĞAÇ SAN. VE TIC.LTD.ŞTİ.

**ÜRETİM YERİ ADRESİ**  
ADDRESS OF THE MANUFACTURING PLACE ORGANİZE SANAYİ BÖLGESİ 3.KISIM 35. CAD. NO:7 DÖŞEMEALTI ANTALYA / TÜRKİYE

**İPTAL EDİLEN BELGE NUMARASI (Varsa)**  
INDICATION OF SUPERSEDED LICENCE (if any)

**TESCİLLİ TİCARİ MARKASI**  
REGISTERED TRADE MARK AGT EFFECT PARKE

**İLGİLİ TÜRK STANDARDI**  
RELATED TURKISH STANDARD TS EN 13329+A1 / 18.12.2017

**BELGE KAPSAMI**  
SCOPE OF LICENCE

TİCARİ KULLANIM ; AŞINMA SINIFI 33 ( AC5 ) LAMİNAT YER DÖŞEMELERİ

e-imzalı/e-signed

12.02.2020

Belgelendirme Merkezi Başkanı Adına  
NECİP FAZİL ÖĞÜT

ANTALYA BELGELENDİRME MÜDÜRÜ V.

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\*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr







AGT Ağaç San. Tic. A.Ş. ,Organize Sanayi Bölgesi 3. Kısım, 35. Cadde

Antalya, 07190 Türkiye

19

Performans Beyan No: EFFCT01

TS EN 14041

EN 14041:2018 'e göre, AGT laminat parke tüm tipleri ve versiyonları

Kullanım Yeri İç Mekan

Yangına Tepki Sınıf Cfl-S1

Kayganlık DS








Formaldehit E0

Pentaklorofenol Kantitatif DL

## PERFORMANS BEYANI

Ürün Türünün Tanımlayıcı / Kimlik Kodu	EFFCT-01
Tür Ve Tanımlayıcı İşaret	EN 13329 ve EN 14041:2018'e standardı baz alınarak üretilen AGT EFFECT parke tüm tipleri ve versiyonları
Kullanım Amacı / Amaçları	EN 14041:2018'e göre iç mekan uygulamaları için zemin kaplama
İmalatçı	AGT Ağaç San.Tic.A.Ş. Organize San. Bölgesi/ANTALYA-TÜRKİYE
Yetkili Temsilcisi	-
Performans Değişmezliğinin Değerlendirilmesi ve Doğrulanması Sistemi/Sistemleri	EN 14041:2018'e göre Sistem 3
Uyumlandırılmış Standart	EN 14041:2018
Onaylanmış Kuruluş / Kuruluşlar	Notified Body No.1389 – MENDELU, The Joinery Products Testing Insitute in Zlin, Louky 304

**BEYAN EDİLEN PERFORMANS / PERFORMANSLAR**

KARATERİSTİĞİ / ÖZELLİKLERİ	TEST BİLGİLERİ	PERFORMANS/ SINIFLANDIRMA	UYUMLANDIRILMIŞ STANDART
<b>EN 13501-1'e Göre Yangına Tepki</b>	Test No. AZL 19/0098 issued on 20.02.2019 ATL No. 1001- Textile Testing Institute, Václavská 6, Brno		EN 14041:2018
<b>En 13893'e Göre Kayma Direnci</b>	Test No. AZL-N-001-19 issued on 12.03.2019 ATL No.1030.1 – MENDELÜ, workplace Brno, Lesnicka 39		EN 14041:2018
<b>EN 717-1' E Göre Formaldehit Sınıfı</b>	Test Report No. AB-0001-T issued on 07.08.2020 402091 – TSE Construction Materials Laboratory (Gebze)		
<b>CEN/TR 14823:2203 E Göre Ahşap-Az Kromatografik Yöntemle Pentaklorofenol Kantitatif Tayini</b>	Test No. AZL-N-001-19 issued on 12.03.2019 ATL No.1030.1 – MENDELÜ, workplace Brno, Lesnicka 39	 <0,1mg/kg (ppm)	EN 14041:2018
<b>EN 12664'e Göre Isıl Direnc Değeri</b>	Test Report No. 443030 TSE Deney ve Kalibrasyon Merkezi Başkanlığı Yapı Malzemeleri Yangın ve Akustik Laboratuvarı Müdürlüğü		EN 14041:2018
<b>NALFA LF-01-2019</b>	North Carolina State University Wood Product Laboratory, Project number: WPL 20-1813		NALFA Standards Publication LF 01-2019
<b>EPD Çevresel Ürün Beyanı; (Environmental Product Declarations, EPD)</b>	EPD İnternational AB Box 210 60 SE-100 31, Stockholm Sweden, EPD Registration Number: S-P- 01915	S-P-01915 <b>EPD®</b> www.epdturkey.org 	ISO 14025 ve EN 15804:2012+A2:2019
<b>Blue Angel</b>	On the basis of the contract on the use of the environmental label no. 34338 based on DE-UZ 176 Edition 2013	 www.blauer-engel.de/ • low emissions and pollutar • wood from sustainable for • no adverse impact on heal living environment	Eco label
<b>Elektrostatik Özellikler</b>	NPD		EN 1815 EN1081
<b>Termal İletkenlik</b>	NPD		EN 12667 EN ISO 10456

**Uygun Teknik Belge  
ve/veya Özel Teknik  
Belgelendirme:**

Yukarıdaki maddelerde, 305/2011 sayılı yönetmelik (AB) gereğince hazırlanmış olup, performans tablosunu karşıladığına dair uygunluğu **02.04.2019** tarihinde beyan edilmiştir.

Doküman **14.08.2020** tarihinde revize edilmiştir.

**İSİM:**

GÜLTEKİN SİLAHŞÖR

**UNVAN:**

KALİTE ve ÜRGE DİREKTÖRÜ

 **AGT** Ağaç San.ve Tic.A.Ş.  
Çiğ.San.Blg. 3. Kat 35. Cd. No:7 Osmangazi - ANTALYA  
Tel : 0242 248 17 17 • Fax: 0242 248 17 22  
Antalya Kurumlar Yığılma Ofisi: 008 074 2710  
Mersis No: 0808 0742 7150 0019

**İMZA:**  




## TS EN 12664 : 2009 Isıl Direncin, Korumalı Tablalı Isıtıcı Ve Isı Akı Ölçerin Kullanıldığı Metotlarla Tayini - Isıl Direnci Orta ve Düşük Seviyede Olan Kuru Ve Rutubetli Mamuller

TS EN 12664 standardı; rutubetten önemli ölçüde etkilenen malzemelere yönelik olarak kuru ya da rutubetli ölçüm yöntemleri hakkında daha detaylı bilgi veren standarttır. Parkelerimizde, ısı iletkenlik değerleri ısı yalıtım malzemelerine göre yüksek ve kalınlıkları da düşük olduğundan ısı dirençleri 0,5'in altında olduğundan TS EN 12664'ün kapsamına girmektedir.

Dört farklı kalınlık için parke ürünlerimizde 12664 standardı göz önünde bulundurarak, ısı direnç testi yapılmıştır. Deney öncesi kondisyonlanması (şartlandırma koşulları) (23+,- 2)°C sıcaklık ve %(50+,- 5) bağıl nem olarak belirlenmiştir. Deneyler TSE Gebze Yapı Malzemeleri Yangın ve Akustik Laboratuvarı Müdürlüğü tarafından yapılmıştır.

### ***PARKELERİMİZ İÇİN ISIL DİRENÇ DEĞERLERİ***

<b><i>TESTİN YAPILDIĞI YER VE SONUÇ RAPORU</i></b>	<b>NUMUNE ADI</b>	<b>KALINLIK</b>	<b>STANDART</b>	<b>ISIL DİRENÇ DEĞERİ</b>
<b><i>TSE 229534 / 436384</i></b>	<b>AGT NATURA PARKE</b>	<b>8mm</b>	<b>TS EN 12664 : 2009</b>	<b>0,06 m² K/W</b>
<b><i>TSE 229534 / 436385</i></b>	<b>AGT EFFECT PARKE</b>	<b>12 mm</b>	<b>TS EN 12664 : 2009</b>	<b>0,09 m² K/W</b>
<b><i>TSE 229534 / 436386</i></b>	<b>AGT BELLA PARKE</b>	<b>7,6mm</b>	<b>TS EN 12664 : 2009</b>	<b>0,06 m² K/W</b>
<b><i>TSE 229534 / 436387</i></b>	<b>AGT CONCEPT PARKE</b>	<b>10 mm</b>	<b>TS EN 12664 : 2009</b>	<b>0,07 m² K/W</b>

# DENEY SERTİFİKASI

## TEST CERTIFICATE



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TURKISH  
STANDARDS  
INSTITUTION

**Firma Unvanı**  
Company Name : AGT AĞAÇ SANAYİ VETİC.A.Ş.

**Firma Adresi**  
Company Address : ORGANİZE SANAYİ BÖLGESİ 3.KISIM 35. CAD. NO:7 DÖŞEMEALTI -/ANTALYA

**Numunenin Tanımı**  
Sample Description : 12mm EFFECT PARKE SERİSİ LAMİNAT PARKE (12mm EFFECT PARQUET)

**Ticari Marka/Model**  
Commercial Brand/ Model : AGT EFFECT PARKE / -

**Deneylerin Yapıldığı Tarih Aralığı**  
Date Interval of Tests : 26.10.2018 - 12.11.2018

**Uygulanan Standard(lar) / Metot (lar) ve/veya Tebliğ/Yönetmelik**  
Applied Standard/Method and/or Notification / Regulations : 12/02/2009 - TS EN 12664

**Deney Raporları**  
Related Test Reports : TSE / 28/11/2018 - 443030

**Özet Açıklama**  
Summary Explanation : Firma tarafından gönderilen numune(ler) yukarıda atıf yapılan raporun(ların) verildiği laboratuvar(lar)da test edilmiş ve yukarıda atıf yapılan deney raporunda(larında) uygulanan ilgili standard(lar) / metot(lar) / tebliğ(ler) / yönetmelik(ler) maddesine(lerine) göre uygunluk bulunmuştur. The sample(s) submitted by the company has been tested in laborator(y)(ies) where the above mentioned report(s) are given and found to comply with the relevant clause(s) of the applied standard (s) / method (s) / communiqué (s) / regulation (s) in test report(s) above mentioned



### Sonuç (Result)

Isıl Direnç [R 10,(23,50)] = 0,0856 [m².K/W]

Thermal Resistance [R 10,(23,50)] = 0,0856 [m².K/W]

e-imzalı/e-signed

SENCER GÜVEN

YAPI MALZEMELERİ YANGIN VE AKUSTİK LABORATUVAR MÜDÜRLÜĞÜ  
DIRECTORATE OF CONSTRUCTION MATERIALS FIRE AND ACOUSTICS  
LABORATORY

Sertifika No : LAB17-DS/102

Veriliş Tarihi : 25.02.2020

Son Geçerlilik Tarihi : 25.02.2023

Certificate No

Date of Issue

Date of Expiry

Bu sertifika İstek üzerine yukarıda atıf yapılan rapor(lar)a istinaden düzenlenmiş olup sadece deneyi yapılan numune için geçerlidir. Bu sertifika herhangi bir "Ürün Belgesi" veya "Uygunluk Belgesi" niteliğinde değildir. Bu sertifika TSE marka kullanım hakkı vermez, ayrıca partiyi temsil etmez. This certificate was prepared upon request according to the mentioned test report(s) above and represents only tested sample(s). This certificate does not represent any "Product Certificate" or "Certificate of Conformity". This certificate does not give permission to use the brand of TSE, also does not represent the batch.

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