

# moduleo® Roots 40

design floors

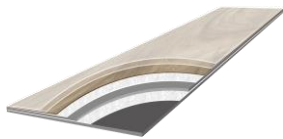
## TECHNICAL DATA SHEET

Edition 07/2024

### DIMENSIONS

FORMAT		Standard Plank	Small Tile
Width	ISO 24342:2018-11	196 mm	329 mm
Length	ISO 24342:2018-11	1320 mm	659 mm
Number of panels per pack		15	18
m <sup>2</sup> per pack		3,881 m <sup>2</sup>	3,903 m <sup>2</sup>
Weight per pack		15,41 kg	13,74 kg
Total mass per unit area	EN ISO 23997:2012-02	3821 g/m <sup>2</sup> [-10%; +13%]	
Total thickness	ISO 24346:2006-10	2,35 mm	
Top layer	EN ISO 24340:2012-02	0,4 mm	
Bevels		4V Micro	

### PANEL BUILD-UP



- 1 Top lacquer
- 2 PVC wearlayer
- 3 Design PVC layer
- 4 Glass fiber
- 5 PVC compact middle layer
- 6 Glass fiber
- 7 PVC backing

### FACTORY WARRANTY

	METHOD	PARAMETERS	VALUES	
Usage class	EN ISO 10874		Class	23 - 32
UPEC (FR)		Certificat n° 345-014.1_00/23 - QB30 - <a href="http://evaluation.ctsb.fr">http://evaluation.ctsb.fr</a>		U <sub>p</sub> P <sub>2</sub> E <sub>2</sub> C <sub>2</sub> / U <sub>p</sub> P <sub>2</sub> E <sub>1</sub> C <sub>2</sub>
Product norm	EN ISO 10582:2018-01 (EN 16511)			
CE	EN 14041:2004 / AC:2006	Notified body	NB 2401 - CRET	DOP: see end label on pack
UKCA	EN 14041:2004 / AC:2006	Approved body	AB 0321 - Satra UK	DOP: see end label on pack
Warranty	Residential use	See warranty conditions	Lifetime	
	Commercial use	See warranty conditions	7	years

### GENERAL DATA

	METHOD	PARAMETERS	NORM REQUIREMENTS	MODULEO VALUES
Squareness & straightness	EN ISO 24342:2018-11		≤400mm: ≤0,25 mm   >400mm: ≤0,35mm	OK
Wearlayer	EN ISO 10582:2018-01		Type 1	OK
Wear resistance	EN 13329 - Annex E			≥ 1200 cycles
Impact resistance	EN 13329 - Annex F			≥ 1200 mm
Scratch resistance	EN 16094:2021-06			≤ MSR-A2
				≤ MSR-B1
Castor chairs	ISO 4918:2016-03	25000 cycles		No delamination, no disturbance
Displacement of furniture feet	EN ISO 16581:2019-06	Foot 0,1 mm / 32 kg		No visible damage
Residual indentation	EN ISO 24343-1:2012-01		≤ 0,1 mm	Average production result: 0,05 mm
Resistance against staining	EN 438-2:2016+A1:2018-12	Acetone - Coffee -NaOH -H2O2 - Shoe Polish		OK
Dimensional stability	EN ISO 23999:2021-11	6 hrs at 80°C	≤  0,25 %	Average production result: ≤  0,05 %
Curling	EN ISO 23999:2021-11		≤  2  mm	OK
Light fastness	ISO 105-B02:2014-09	Blue reference	Class ≥ 6	OK
Acoustic insulation	ISO 717-2	Impact sound reduction	Glued down On a Flex Pro underlay	ΔL <sub>w</sub> = 4 dB ΔL <sub>w</sub> = 8 dB
Floor heating		Appropriate for all standard heating systems IN cement subfloors. Limited application with heating films and alternatives. Max contact temp ≤ 27°C. See separate installation instructions.		

## ENVIRONMENT, SAFETY & HEALTH

	METHOD	PARAMETERS	NORM REQUIREMENTS	MODULEO VALUES
AFFSET				A+
Floorscore				SCS-FS-02828
Finnish Building Emission			M1: Very low emission, odorless	OK
Formaldehyde emission	EN 717-1:2004-10	No added formaldehyde in production	E1 ( $\leq 0,124 \text{ mg/m}^3$ )	< Detection limit
TVOC 28 days	ISO 16000 part 9-6	AgBB requirement after 28 days $<1000 \mu\text{g}/\text{m}^3$		OK
Fire classification	EN 13501-1:2018			Bfl-s1
Thermal resistance	EN 12667:2001-01	Without underlay		0,01 $\text{m}^2 \text{K}/\text{W}$
Anti-static	EN 1815:2016-09		$\leq 2 \text{ kV}$	OK
Slip resistance	EN 13893:2002-11		$\mu \geq 0,30$	DS
	EN 16165:2021-10 Annex B			R9 - R10
	EN 16165:2021 - Annex C (UKSRG)	Wet	PTV <sub>96</sub>	Low slip potential (PTV <sub>96</sub> $\geq 36$ )
		Dry	PTV <sub>96</sub>	Low slip potential (PTV <sub>96</sub> $\geq 36$ )
	UNE-EN 16165:2021 - Annex C	Dry	PTV <sub>96</sub>	PTV <sub>96</sub> $\geq 56$
	Anexo Nacional A (ES)			NOT present
Content	Heavy metals + lead/cadmium			NOT present
Dangerous substances	Carcinogenic, mutagenic or reprotoxic substances class 1A and 1B (candidate list)			NOT present
REACH	Regulation (EC)			Compliant
Recycled content	Only INTERNAL recycled material used			$\geq 20\%$

