

Stickdown Luxury Vinyl Flooring 2.5mm (0.55mm), 2.0mm (0.30mm)			Rigid Click Luxury Vinyl Flooring 5.5mm (0.30mm/0.55mm)		
Subject	Main Parameter	Reference Standard	Main Parameter	Reference Standard	
Formats	Regular Emboss (2.5mm/0.55mm, 2.0mm/0.30mm)		Regular Emboss (5.5mm/0.30mm) Registered and Embossed (5.5mm/0.55mm)		
Type of flooring	Heterogeneous PVC floor covering - Wood Plank, Tile and Herringbone formats.	ISO 10582	Loose laid semi rigid panels multilayer modular floorcovering with wear resistant top layer & click edge profiles	EN16511: 2014(E)	
Usage classification (Wear)	23, 33, 42 (2.5mm) / 23, 31 (2.0mm)	ISO 10874	23, 31 (0.30mm) / 23, 33 (0.55mm)	ISO 10874	
Installation method	Full bond Stickdown		Loose laid dry direct to subfloor with click profile		
Componet	PVC, plasticizer stabilizer CaCO <sub>3</sub>		PVC, Calcium Zinc Stabilizer, Calcium Carbonate		
Structure	Composite (Wear Layer: 0.55mm; Print film: 0.07mm; Back Layer: 1.88mm - 2.5mm) Composite (Wear Layer: 0.30mm; Print film: 0.07mm; Back Layer: 1.63mm - 2.0mm)		Composite (Wear Layer: 0.30mm; Print film: 0.07mm, Base layer 4.13mm, IXPE underlay 1.00mm) Composite (Wear Layer: 0.55mm; Print film: 0.07mm, Base layer 3.88mm, IXPE underlay 1.00mm)		
Size	Deviation <0.15% of nominal length up to 0.5mm maximum	ISO 24342	Deviation <0.15% of nominal length up to 0.5mm maximum	ISO 24337:2006	
Squareness (mm)	<400mm deviation <0.25; <400mm, <0.35	ISO 24342	Deviation <0.20mm	ISO 24337:2006	
Straightness (mm)	<400mm deviation <0.25; <400mm, <0.35	ISO 24342	Deviation <0.30mm	ISO 24337:2006	
Overall thickness (mm)	Average: 2.5mm & 2.0mm: +0.13/-0.10mm, individual value: average +/-0.15mm	ISO 24346	5.5mm±0.15mm	ISO 24337:2006	
Wear layer thickness (mm)	0.55mm (2.5mm) / 0.30mm (2.0mm) +13%/-10%	ISO 24340	+13% / -10%	ISO 24340	
Surface treatment	PU coating		UV coating		
Profile & bevelled edges	Yes / Std / Eased		Välinge 5G profile / Micro bevel 4 sides		
Colour fastness	Minimum 6	ISO 105-B02	Minimum 6	ISO 105-B02	
Dimensional stability	<0.25%	ISO 23999	<0.25%	ISO 23999	
Total mass per unit area	4.29kg/m <sup>2</sup> (2.5mm) / 3.44kg/m <sup>2</sup> (2.0mm) +13%/-10%	ISO 23997	1.98 g/cm <sup>2</sup> (0.30mm) / 1.88 gcm <sup>2</sup> (0.50mm) / IXPE backing: 200 g/m <sup>2</sup> +/- 10%	EN 430	
Residual indentation (ave)	<0.10 mm	ISO 24343-1	<0.15 mm	ISO 24343-1	
Reaction to fire	B <sub>1</sub> -s1	EN 13501-1	B <sub>1</sub> -s1	EN 13501-1	
Chemical resistance	Class 0, excellent	EN 26987	Index 0	EN 423:2001	
Resistance to staining	Index 0	EN 26987	Level 5 / no visible staining	EN 438-2:2005	
Effects of a castor chair	25000 cycle no delamination	ISO 4918	15000 cycle no delamination	ISO 4918	
Slip resistance	R10 / DS (MA76, MA77 - R9)		DS	EN 13893 / CE EN14041	
	PTV – Dry 70 (Ave) / Wet – 46 (Ave) Std woodgrain embossed	DIN 51130 / EN 13893	R10	DIN 51130:2014	
	PTV – Dry 65 (Ave) / Wet – 49 (Ave) Heavy woodgrain embossed	BS 7976 - 2	PTV – Dry 64 / Wet – 42 (Woodgrain std embossed)		
	PTV – Dry 56 (Ave) / Wet 44 (Ave) Tile std embossed		PTV – Dry 65 / Wet – 44 (Tile std embossed)	BS 7976 – 2: 2002	
Impact sound reduction Impact insulation class	2 dB (2.5mm) / 1 dB (2.0mm)	ISO 10140-3:2010+A1:2015	IIC - 26 ΔLW 18 dB	ASTM E989-12 ISO 10140-3:2010+A1 2015	
Hardness	60°+/-5°	ISO 24343-1:2007	< 0.1mm	ISO 24343:2007	
Residual indentation	<0.10mm	ISO 24343-1:2007	0.02mm	ISO 24343-1:2007	
Abrasion resistance	Group T	EN660-2	Less than 0.015g/1000r	EN 660-1	
Toxicity	Non toxic, does not contain any heavy metals or formaldehyde	EN71 -3	Non toxic, does not contain any heavy metals or formaldehyde	ROHS / REACH	
Recycled material content	Nil		Nil		
Recyclable	Yes - Use local Recofloor recycling agent / www.recofloor.org		Yes - Use local Recofloor recycling agent / www.recofloor.org		
Features	PU coating, easy to clean		PU coating, easy to clean		
	Wood, Tile, & Herringbone effect designs		Std plank, multi width plank and tile effect designs		
	High durability wear layer		High durability wear layer		
	EN standards & CE Compliant		EN standards & CE Compliant		
Slip resistant and Reaction to Fire Tested		Slip Resistant and Reaction to Fire Tested			
Guarantee	2.5mm - Limited 25 year domestic use & 10 year light – moderate commercial use 2.0mm - 10 year domestic use & 7 year light – moderate commercial use		0.30mm - Limited 15 year domestic use & 7 year light – moderate commercial use 0.55mm - Limited 25 year domestic use & 10 year light – moderate commercial use		
Usage areas	Domestic / residential homes & light / heavy commercial i.e - small / medium size shops & office areas *Not to be used for walk in wet rooms or external applications.		Domestic / residential homes & light - moderate - commercial usage i.e - small / medium size shops & office areas. *Not to be used for walk in wet rooms or external applications.		
Underfloor heating use	Yes - concrete encased water piped systems only. Max 27°C at floor level. Adhesive must be suitable for use over UFH systems		Yes – concrete encased water piped systems only. Max 27°C at floor level.		
Thermal resistance value	2.0mm - 0.040 (m <sup>2</sup> .K) / w 2.5mm – 0.026 (m <sup>2</sup> .K) / w	EN12667:2001	0.050. (m <sup>2</sup> .K) / w	EN12667:2001	
Thermal conductivity	2.0mm - 0.050 (w/m.K) 2.5mm – 0.097 (w/m.K)	EN12667:2001	0.114 (w/m.K)	EN12667:2001	
Conservatory / sun room use	Suitable		Not guaranteed		

## TECHNICAL OVERVIEW

	Stickdown		Rigid	Senses Rigid Registered Embossed
Thickness	2.5mm	2.0mm	5.5mm	5.5mm
Wear Layer	0.55mm	0.30mm	0.30mm	0.55mm
Multi-Width Plank				✓
Regular Plank	✓	✓		
Narrow Plank			✓	
Wide Plank			✓	✓
Herringbone	✓			
Tile	✓		✓	
Conservatories	✓	✓		
Underfloor Heating	✓	✓	✓	✓
Slip Resistant	R10/BS PTV <sup>†</sup>	R10/BS PTV	R10/BS PTV	R10/BS PTV
Domestic Warranty	25 year	10 year	15 year	25 year
Commercial Warranty	10 year	7 year	7 year	10 year

<sup>†</sup>MA76 and MA77 - R9

**bmtrada uponor**

Malmo™ luxury vinyl flooring has undergone strict independent industry performance testing by Exova BM Trada for use with water-based underfloor heating systems.

All products in the Malmo™ Senses, Rigid and Stickdown ranges have been endorsed by leading underfloor heating company Uponor; making it the first LVT product recommended for use with its popular Minitec water-piped system.

For further information about Uponor Minitec, or Malmo™ compatibility with underfloor heating, please contact **0845 7 298 298** or email **info@malmoflooring.com**