# IMPORTANCE OF INDENTATION



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### Indentation requirements of the various PVC flooring standards

#### Indentation report

When tested to ISO 24343-1 LVT 1.6 had an average residual indentation result of 0.18mm. The test was completed with Karndean Opus which is a 2.5mm gauge product with a 0.55mm wear layer.

In summary this result means that LVT 1.6 would pass the residual indentation requirement of the main standards for supported PVC floors in both residential and commercial applications.

Details of the various standards are listed below.

#### Indentation requirements of the various PVC flooring standards

Standard	Indent test	Requirement	Comments
BS EN ISO 10581:2013	ISO 24343-1 Resilient and	= 0.1mm</td <td></td>	
Resilient Floor	laminate floor coverings –		
Coverings –	Determination of indentation		
Homogeneous PVC	and residual indentation - Part		
floor covering	1: Residual indentation		
BS EN ISO 10582:2012	ISO 24343-1 Resilient and	= 0.1mm</td <td></td>	
Resilient Floor	laminate floor coverings –		
Coverings –	Determination of indentation		
Heterogeneous PVC	and residual indentation - Part		
floor covering	1: Residual indentation		
BS EN ISO 651:2011	EN 433 Resilient floor	23 & 31 Classes = 0.35mm</td <td></td>	
Resilient Floor	coverings. Determination	34 & 42 classes = 0.20mm</td <td></td>	
Coverings – PVC floor	of residual indentation		
coverings with foam	after static loading.		
layer			
BS EN ISO 26986:2012	ISO 24343-1 Resilient and	23 Class = 0.35mm</td <td></td>	
Resilient Floor	laminate floor coverings –	33 Class = 0.20mm</td <td></td>	
Coverings – Expanded	Determination of indentation	42 Class = 0.20mm</td <td></td>	
(Cushioned) PVC floor	and residual indentation – Part		
covering.	1: Residual indentation		
	ISO 24343-2 Resilient and		
	laminate floor coverings –		
	Determination of indentation		
	and residual indentation – Part		
	2: Short-term residual		
	indentation of resilient floor		
	covering		



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Typical PVC flooring products and their categories

Brand	Standard	General Type
Polyflor Camaro, Colonia	BS EN ISO 10582:2012	LVT
	Resilient Floor Coverings –	
	Heterogeneous PVC floor	
	covering	
Expona Beveline, Simplay	BS EN ISO 10582:2012	LVT
	Resilient Floor Coverings –	
	Heterogeneous PVC floor	
	covering	
Polyflor Bloc, Flow	BS EN ISO 10582:2012	Heterogeneous sheet/LVS
	Resilient Floor Coverings –	
	Heterogeneous PVC floor	
	covering	
Polyflor Forest FX, Gallery FX	BS EN ISO 651:2011 Resilient	Heterogeneous acoustic sheet
	Floor Coverings – PVC floor	
	coverings with foam layer	
Amtico	BS EN ISO 10582:2012	LVT
	Resilient Floor Coverings –	
	Heterogeneous PVC floor	
	covering	
Karndean Art Select, Da Vinci,	BS EN ISO 10582:2012	LVT
Michelangelo, Van Gogh,	Resilient Floor Coverings –	
Opus, Knight Tile, Looselay	Heterogeneous PVC floor	
	covering	



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Flooring types and their indent requirements from the various standards

General Type	Standard	Requirement
A "solid" vinyl (homogeneous	ISO 24343-1 Resilient and	= 0.1mm</td
sheet or tile)	laminate floor coverings –	
	Determination of indentation and	
	residual indentation Part 1:	
	Residual indentation	
LVT	ISO 24343-1 Resilient and	= 0.1mm</td
	laminate floor coverings –	
	Determination of indentation and	
	residual indentation – Part 1:	
	Residual indentation	
Vinyl plus foam	EN 433 Resilient floor	= 0.35mm in domestic</td
	coverings. Determination of	= 0.20mm in commercial</td
	residual indentation after	
	static loading.	
Cushion Vinyl	ISO 24343-1 Resilient and	= 0.35mm in domestic</td
	laminate floor coverings	= 0.20mm in commercial</td
	Determination of indentation and	
	residual indentation Part 1:	
	Residual indentation	
	ISO 24343-2 Resilient and	
	laminate floor coverings	
	Determination of indentation and	
	residual indentation - Part 2: Short-	
	term residual indentation of resilient	
	floor covering	

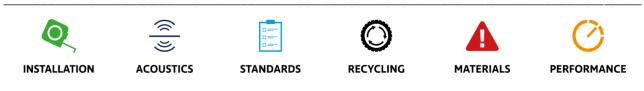
#### Summary

3 levels of indentation requirements:

</= 0.10mm

</= 0.20mm

</= 0.35mm



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