



# Robina® TECHNICAL DATA SHEET

Robina Flooring – 8mm thickness, AC 4		
Country of Origin	Made in Malaysia	
Product Method	DPL - Direct Pressure Laminate according to EN13329 standard	
Design	Wear Layer : Melamine resin based overlay paper Decorative film : Impregnated decorative paper Barrier : Melamine resin based backing	
Warranty	15 years for heavy domestic & 10 years for moderate commercial use according to Robina warranty conditions – <a href="http://www.robinaflooring.com">www.robinaflooring.com</a>	

Other Properties		
	<b>Thickness of elements</b> EN 13329:2016 +A2:2021-09	$t_{max} - t_{min} \leq 0.50\text{mm}$
	<b>Height different between elements</b> EN 13329:2016	$H_{max} \leq 0.15\text{mm}$
	<b>Opening gaps</b> EN 13329:2016	$0_{max} \leq 0.10\text{mm}$
	<b>Abrasion class</b> EN 13329:2016	AC4; IP value: $\geq 4000$ resolution
	<b>Static Indentation</b> EN 13329:2016	No visible change, i.e. $\leq 0.01\text{mm}$ indentation using a straight steel cylinder $\varnothing=11.30\text{mm}$
	<b>Dimensional variations after changes in relative Humidity</b> , EN 13329: 2016	$\delta l$ average $\leq 0.90\text{mm}$ $\delta w$ average $\leq 0.90\text{mm}$
	<b>Light Fastness</b> EN 13329:2016	Blue wool scale, not worse than 6, Grey scale, not worse than 4
	<b>Resistance to cigarette burn</b> EN 13329:2016	$\geq$ grade 4
	<b>Impact resistance</b> EN 13329:2016	IC1
	<b>Flammability class</b> , EN 13501-1:2018	B <sub>fl</sub> - s1
	<b>Resistance to staining</b> EN 438-2:2016	5, group 1 & 2 4, group 3
	<b>Effect of a furniture leg</b> ISO 16581:2019-06	No damage shall be visible when tested with foot type 0
	<b>Effect to castor chair</b> EN 425: 2002-4	No change in appearance of damage
	<b>Thickness swelling</b> , EN13329:2016	$< 12\%$
	<b>Surface soundness</b> , EN13329:2017	$\geq 1.20\text{N/mm}^2$
	<b>Density</b> , EN323	$\geq 830\text{kg/m}^3$
	<b>Formaldehyde emission</b> , EN717-1, JIS A1460	E1 value: $0.125 \text{ mg/m}^3 - 0.10 \text{ ppm}$ F**: $1.0 \text{ mg/l} - \text{Ave} \leq 1.50 \text{ mg/l}$

\*for visual inspection, take 3 boxes randomly from a pallet and installed the plank together on an even subfloor with underlayment (PE foam), it shall be inspected visually under normal in door light from an upright (standing) position at about 1.5 meter height (eye level)