

### TECHNICAL STANDARDS FOR HARVEY MARIA VINYL TILE

#### Harvey Maria Signature Collection

(Check, Lattice, Little Bricks, Parquet, Premium Wood, Rose Sprig & Spot)

EN & ASTM Standard	Result
EN428 Thickness	Pass
ASTM F386-11 Thickness	Pass (Requirement $\pm 0.13\text{mm}$ )
EN427 Size	Pass $\pm 0.3\text{ mm}$
ASTM F2055-10 Size	Pass (Requirement of $\pm 0.4\text{mm}/305\text{mm}$ )
EN427 Squareness	Pass $\leq 0.1\text{ mm}$
ASTM F2055-10 Squareness	Pass (Requirement $\leq 0.25\text{mm}/305\text{mm}$ )
EN-660-2 Scratch Resistance	$\geq 2000\text{ g}$
EN-660-2 Abrasion Resistance	$\leq 0.015$ (group 7) g/1000 Circles
EN433 Residual Indentation	$\leq 0.1\text{ mm}$
ASTM F1914-11 Residual Indentation	Pass (Average: 2.4% Max 2.9%. Test Load 63.5kg)
ASTM F970-07(2011) Static Load	Applied load 250lb. Result Average 0.02mm
EN434 Shrinkage	Pass $\leq 0.1\%$
EN426 Flexibility - 10mm mandrel	Pass
ASTM F137-13 Flexibility	Pass (No crack or break when using $\Phi 25.4\text{mm}$ mandrel)
ASTM F2199-09 Dimension Stability	MD Max:0.06mm/152mm AMD Max: 0.11mm/152mm
EN431 Peel Resistance (unit: kgf/5cm)	0.55 (and more): $\geq 6.5$
EN 13893 Slip Resistance	CLASS DS (R9)
EN425 Bearing a castor chair	Pass
EN 423 / ASTM F925-13 Resistance to Chemicals	Pass
EN 13501-1 Reaction to Fire	BF1-S1
EN 12667 Thermal Conductivity	0.144 W/mK
ASTM F1514-13 Resistance to Heat	Pass

ASTM E662-03 / NFPA 258 Smoke Density (Flaming/Non Flaming) Standard	Passes the requirement of 450 or less
ASTM E648 / NFPA 253 / FTM Standard 372 Critical Radiant Flux	Meets or exceeds Class 1 rating
EN713 Toxic Element Test	Pass
CPSC-C1001-09.3 Phthalates	Phthalate Free. Meets or exceeds the CPSIA Guidelines
<b>Additional Information</b>	
1600036 Harvey Maria MAS Certified Green Certificate of Compliance	LEED EQ Credit: Low-Emitting Materials for Interior Design & Construction
	Collaborative for High Performance Schools EQ 7.1.2
	California Department of Public Health Standard Method V1.1
	Criteria for the MAS Certified Green® Program
For the latest updates to this table go to <a href="http://harveymaria.com">harveymaria.com</a>	
Harvey Maria uses manufacturing facilities that comply to ISO9001 and ISO14001	

