



## TEST REPORT

\* Nominal value: Length x width x thickness (1,230mm x 180mm x 4.0mm), Wear-layer thickness (0.3mm),  
Mass per unit area (800 g/m<sup>2</sup>)

NO.	Test item(s)	Test method(s)	Test Condition	Requirement(s) of ISO 10582:2017	Test Result(s)
1	Side Length	ISO 24342:2007	Specimen: 1,230mm x 180mm x 4.0mm, 5pcs	Deviation ≤ 0.15% of nominal length up to 0.5mm maximum	Average: 1,230mm
2	Width			Deviation ≤ 0.10% of up to 0.5mm maximum	Average: 180.07mm
3	Squareness			① Side length ≤ 400mm: ≤ 0.25mm; ② Side length > 400mm: ≤ 0.35mm; ③ Side length > 400mm (intended for heat welding): ≤ 0.50mm;	Deviation range: X Direction : 0.00mm~+0.10mm Y Direction : 0.00mm~+0.05mm
4	Straightness			Deviation range: X Direction : 0.00mm~+0.05mm Y Direction : 0.00mm~+0.05mm	
5	Overall thickness	ISO 24346:2006	Specimen: 200mm x 180mm x 4.0mm, 5pcs Mass applied; 0.40±0.02kg Diameter of upper plate: 8.00±0.05mm Load time: 5s	Average value: Nominal thickness +0.13mm/-0.10mm (3.90mm~4.13mm); Individual results: Average value +0.15mm (3.83mm~4.13mm);	Ave.: 3.98mm Max.: 4.06mm Min.: 3.90mm
6	Thickness of wear layer	ISO 24340:2006 (R2015)	Specimen: 25mm x 10mm x 4.0mm, 5pcs	Average value: Nominal thickness +13%/-10% & +0.1mm (0.270mm~0.339mm); Individual results: >average value-0.05mm or -15%, whichever is greater (>0.231mm)	Ave.: 0.272mm Max.: 0.292mm Min.: 0.264mm
7	Mass per unit area	ISO 23997:2007	Specimen: 100mm x 100mm x 4.0mm, 5pcs	Average value: Nominal value +13%/-10% (720g/m <sup>2</sup> ~9040g/m <sup>2</sup> )	Average: 7960 g/m <sup>2</sup>
8	Dimensional stability (see note 1)	ISO 23999:2018	Specimens: 610mm x 180mm x 4.0mm, 3pcs Condition: 23±2 °C, 50±%RH, 24h → 80±2 °C, 360min → 23±2 °C, 50±%RH, 24h	Tiles/planks intended for dry-joint laying and glued installation: ≤  0.25  %; Tiles/planks intended for loose lay or floating installation: ≤  0.15  %	Average: X Direction : 0.02% Y Direction : 0.08%

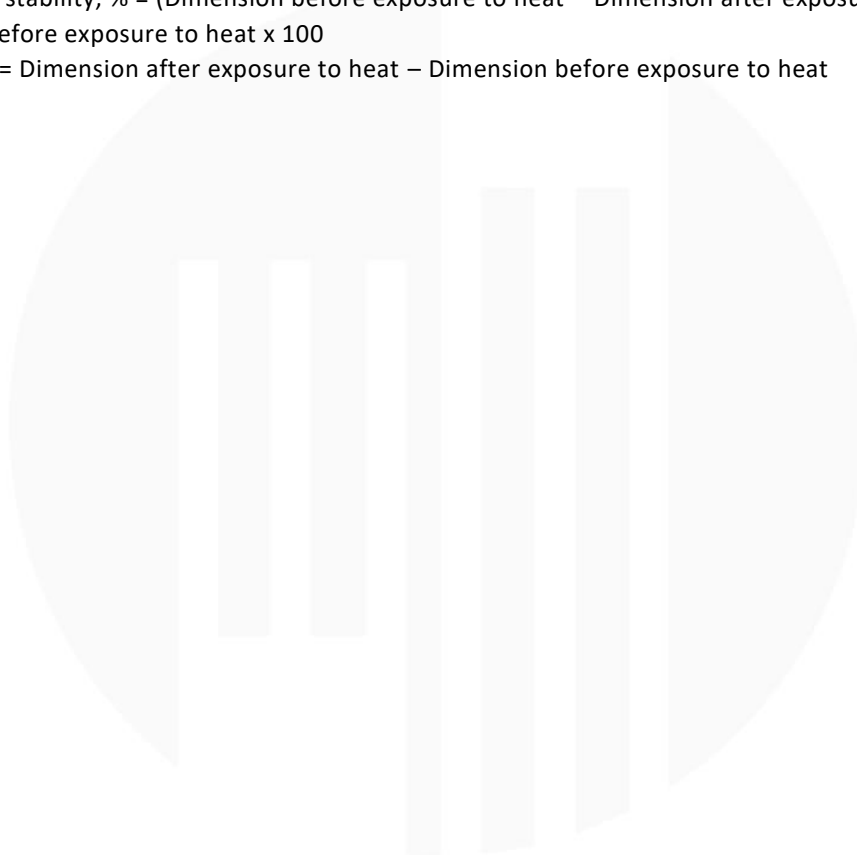


NO.	Test item(s)	Test method(s)	Test Condition	Requirement(s) of ISO 10582:2017	Test Result(s)
9	Curling (see note 2)	ISO 24343-1:2007	Specimens: 610mm x 180mm x 4.0mm, 3pcs Condition: 23+2 °C , 50+-%RH, 24h→ 80+-2 °C , 360min→ 23+-2 °C , 50+-%RH, 24h	Tiles/planks intended for dry-joint laying and glued installation: ≤  2  mm; Tiles/planks intended for loose lay or floating installation: ≤  1  mm.	Average: 0.12mm
10	Residual indentation	ISO 24343-1:2007	Specimen: 50mm x 50mm x 4.0mm, 3 pcs Applied load: 500min	≤ 0.1 mm	Average: 0.01mm
11	Color fastness to light	ISO 105-B02:2014: Method 3	Use Xenon arc lamp, exposure cycle A1, no flip- flop mode was used	6 minimum	After standard 6 grade blue wool: 6 Grade (B.W.S)
12	Effect of a Castor Chair	ISO 4918:2016	Load: 90kg Type of wheels: Type W Cycles: 25000	After 25,000 cycles, no delamination shall occur. No disturbance to the surface other than a slight change in appearance	No visible damage
13	Flatness	ISO 10582:2017 Annex B	Specimen: 1,230mm x 180mm x 4.0mm, 5pcs	Length flatness: concave ≤ 0.50% Convex ≤ 1.00%	Length Flatness(X): concave 0.30% convex 0.08%
				Width flatness: concave ≤ 0.10% convex ≤ 0.15%	Width Flatness(X): concave 0.06% convex 0.07%
14	Openings	ISO 10582:2017 Annex C	Specimen: 1,230mm x 180mm x 4.0mm, 8 pcs	Ave.: ≤ 0.15mm Individual values: ≤ 0.20mm	Ave.: 0.00mm Max: 0.05mm
15	Height difference			Ave.: ≤ 0.10mm Individual values: ≤ 0.15mm	Ave.: 0.00mm Max: 0.05mm
16	Locking strength	ISO 10582:2017 Annex D	Specimens: 10 pieces of long specimens (X Direction) 180mm x 100mm x 4.0mm, 10 pieces of short side specimens (Y Direction) 180mm x 100mm x 4.0mm Loading rate: 100 mm/min	Only for Commercial use: Class 31,32,33: ≥ 1.5kN/m; Class 34: ≥ 2.0kN/m	Average: Long side(X): 3.4kN/m  Short side(Y): 2.0kN/m

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NO.	Test item(s)	Test method(s)	Test Condition	Test Result(s)
17	Resistance to staining	ISO 26987:2008	Condition: 23±2℃, 50±5%RH, 24 H The main duration of contract shall be 2h. if a stain appears on the test piece after 2h, a new test shall be conducted for a period 30min. Examine the residual staining	Index 0: Not affected (See Annex A)

- \* Note: 1. Dimensional stability, % = (Dimension before exposure to heat – Dimension after exposure to heat)/  
Dimension before exposure to heat x 100  
2. Curling, mm = Dimension after exposure to heat – Dimension before exposure to heat



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