



Declaration of Performance

DoP no: SHERA-QA 008/2021

1. Unique identification code of the product-type: **SHERA Board and Wood**
2. Product identification: **Non asbestos fiber cement flat sheet reinforced with cellulose fiber.**
3. Intended use of product:
 - **3.2, 3.5, 4, 4.5, 6, 8, 9, 10, 12 mm thickness for interior & exterior ceiling and wall finishes.**
 - **15, 18, 20, 25mm thickness for floor and decking applications.**
 - **6.5, 8mm thickness for Planks and Strips.**
 - **25, 30mm thickness for Floor Planks.**
4. Manufacturer: **SHERA - 59 Moo 12 Saraburi-Lomsak Rd., Km 16, Chongsarika, Lopburi 15220, Thailand**
5. Representative: **Not applicable.**
6. System or systems: **AVCP - System 1 +**
7. Notified body: **Intertek & PSB Singapore**
8. Technical Assessment Body: **Not applicable.**

Harmonised Standard:

Physical Durability: BS EN12467:2012+A1:2016. (Intertek)
 Physical Durability: BS EN12467:2012 (PSB Singapore)
 Physical Durability: ASTM C1185 : 2008 (2012). (PSB Singapore)
 Fire Classification: EN13501-1:2007+A1:2009 (PSB Singapore)
 Fire Properties: BS476 part 5,6,7,22 (PSB Singapore)

Product Classification: Category A

Sheets which are intended for applications where they may be subjected to heat, high moisture and severe frost.

9. Declared performance:

9.1 Board group (Ceiling, Wall and Flooring board)

Essential Characteristics	Standard	Unit	Requirement	Performance
a) Physical Properties				
Thickness Variation Of 3.2, 3.5, 4, 4.5, 6, 8, 9, 10 mm.	BS EN12467	%	±10%	+1% (Pass)
Thickness Variation Of 12, 15, 18, 20, 25 mm.	BS EN12467	%	+6%	+1% (Pass)
Density of 6, 8, 9, 10, 12 mm.	BS EN12467	kg/m ³	1350+50	1324 (Pass)
Density of 15, 18, 20, 25 mm.	BS EN12467	kg/m ³	1300+50	1312 (Pass)
Flexural Strength (Wet)	BS EN12467	Mpa	>7	9.4 (Class 2)
Toughness in Machine Direction (wet)	In House	J/m ²	≥10	Pass
Toughness in Cross Machine Direction (wet)	In House	J/m ²	≥3.5	Pass
Water Absorption	ASTM C 1186	%	≤35	31.9 (Pass)
Water Impermeability	BS EN12467			No water drops
Length Change by Moisture Movement	ASTM C 1186	%	-	0.04
Length Change by Moisture absorption	ASTM C 1186	%	-	≤0.2
b) Durability Properties			Requirement	Result
Freeze / Thaw Resistance	BS EN12467		0.75	1.01 (Pass)
Warm Water Resistance	BS EN12467		0.75	0.95 (Pass)
Heat / Rain Resistance	BS EN12467		No Cracks or structural alteration	
Soak / Dry Resistance	BS EN12467		0.75	0.94 (Pass)
c) Fire Properties				Result
Ignitability	BS 476 Part 5	-		Pass
Fire Propagation Index	BS 476 Part 6	-		I = 0
Surface Spread of Flame	BS 476 Part 7	-		Class 1
Fire Resistance	BS 476 Part 22	mins		30-180
d) Fire Classification				Result
Fire Behavior	EN13501-1			A2
Smoke Production	EN13501-1			s1
Flaming Droplets	EN13501-1			d0



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9.2 Wood group (Plank, Strip and Floor Plank)

Essential Characteristics	Standard	Unit	Requirement	Performance
a) Physical Properties				
Thickness Variation of 6.5, 8.0mm.	BS EN12467	%	+10%	+1% (Pass)
Thickness Variation of 25, 30mm.	ASTM C1186	%	+6%	+1.6% (Pass)
Density of 6.5, 8.0mm.	BS EN12467	kg/m ³	1350+50	1324 (Pass)
Toughness in Machine Direction (wet)	In House	J/m ²	≥16	Pass
Plank Load in Machine Direction (wet) Product Thickness 8 mm. - 150 mm. on width - 200 mm. on width - 300 mm. on width Product Thickness 6.5 mm. - 150 mm. on width - 200 mm. on width - 300 mm. on width	In House	J/m ²	≥31 ≥41 ≥56 ≥19 ≥26 ≥38	Pass
Strip Load in Machine Direction (wet) Product Thickness 8 mm. - 50 mm. on width - 75 mm. on width			≥10.5 ≥15.5	
Floor Planks Flexural Strength (Wet)	ASTM C 1186	Mpa	≥8	
Water Absorption	ASTM C 1186	%	≤35	22.3 (Pass)
Water Impermeability	BS EN12467			No water drops
Moisture Movement	ASTM C 1186	%	-	0.02
Moisture absorption	ASTM C 1186	%	-	22.3
b) Durability Properties			Requirement	Result
Freeze / Thaw Resistance	BS EN12467		0.75	1.0 (Pass)
Warm Water Resistance	BS EN12467		0.75	0.95 (Pass)
Heat / Rain Resistance	BS EN12467		No Cracks or structural alteration	
Soak / Dry Resistance	BS EN12467		0.75	0.92 (Pass)
c) Fire Properties				Result
Ignitability	BS 476 Part 5	-		Pass
Fire Propagation Index	BS 476 Part 6	-		I = 0
Surface Spread of Flame	BS 476 Part 7	-		Class 1
Fire Resistance	BS 476 Part 22	mins		30-180
d) Fire Classification				Result
Fire Behavior	EN13501-1			A2
Smoke Production	EN13501-1			s1
Flaming Droplets	EN13501-1			d0

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This Declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 4.

Name: Rungroj Rangyai
Function: Quality Assurance Manager
Location: Lopburi, Thailand
Date: 20th April 2021

Signature: