

**Advance Asia Fiber Co., Ltd.**  
**HardBoard Product Specification**

<b>Department</b> : Quality Control	<b>Prepared by :</b>
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**Specification for AAA Grade**

**1. Physical Property and Dimension**

Property	Unit	Thickness Range (mm)																Test Method
		1.8	2.0	2.2	2.5	3.0	3.2	3.5	3.8	4.0	4.5	4.8	5.0	5.5	6.0	6.5	7.0 - 11.0	
Thickness Tolerance	mm	± 0.25	± 0.25	± 0.25	± 0.30	± 0.30	± 0.30	± 0.40	± 0.45	± 0.50	± 0.50	± 0.50	± 0.50	± 0.50	± 0.50	± 0.50	± 0.50	EN 324-1
Size Standard 4' x 8'	mm	1220 x 2440																EN 324-1
Size Tolerance	mm	± 3.0																EN 324-1
Squareness (variation in diagonal)	mm	≤ 5.0																EN 324-2
Density	kg/m <sup>3</sup>	900-1100																EN 323
Moisture Content	%	4 - 9																EN 322
Bending Strength	N/mm <sup>2</sup>	≥ 38						≥ 35										EN 310
Modulus of Elastic	N/mm <sup>2</sup>	≥ 3500						≥ 3000										EN 310
Thickness Swelling	%	≤ 35																EN 317
Water Absorption	%	≤ 65																EN 317

**2. Appearance**

Items	Details	Criterion						Amount
		Criterion	Size					
Smooth surface	dark spot	allowed	≤ 5 mm				4	
	scratch	allowed	area				1%	
	blister	not allowed	-				-	
	crack	not allowed	-				-	
	black edges (trimmed)	allowed brown color	≤ 20 mm				1	
	black edges (un-trimmed)	allowed brown color	≤ 30 mm				1	
	stain	allowed	area				≤ 3%	
Mesh surface	peeling	allowed depth ≤ 0.3mm	≤ 1 cm <sup>2</sup>				5	
	carbon color	allowed	area				≤ 10%	
Edges	edges	smooth	-				-	

**1 Apr 14**