

Pro-Magnes Pure Sulfate Magnesium Veneer Decorative Board  
National Inspection Physical & Chemical Properties  
Test Date

NO.	Test Item		Test Standard	Technical Index	Test Date	Verdict
01	Surface bonding strength, Mpa		GB/T 17657-2013 4.16	$\geq 1.00$	1.07	Pass
02	Surface Resistance to Cracking, Grade		GB/T 17657-2013 4.36	Reaching level 4 or above	5	Pass
03	Surface Wear Resistance	Wear Value, mg/100r	GB/T 17657-2013 4.44	$\leq 80$	33	Pass
		Surface Condition (Plain Color)		After grinding for 350r, there should be no bottom exposure phenomenon	No bottom exposure after grinding for 350r	Pass
04	Surface resistance to cigarette burning, grade		GB/T 17657-2013 4.45	Reaching level 4 or above	5	Pass
05	Impact resistance (height 1000mm)	Indentatio n diameter, mm	GB/T 17657-2013 4.51		11.9	
		Damaged board surface			No damage to the board surface	



06	Cracking resistance		GB/T 17657-2013 4.52		Level 5 : No minor cracks	
07	Radionu-clides	Internal Exposure Index ( $I_{Ra}$ )	GB 6566-2010 Class A	$\leq 1.0$	0.01	Pass
		External Exposure Index ( $I_e$ )	decorating and refurbishing materials	$\leq 1.3$	0.04	Pass
08	Asbestos		GB/T 23263-2009		Not detected	
09	Formaldehyde / ( $\text{mg}/\text{m}^3$ )		GB 17657-2013 GB 18580-2017	$E_1 \leq 0.124$ $E_0 \leq 0.050$ $E_{NF} \leq 0.025$	0.034	$E_0$
10	Volatile organic compound / ( $\text{mg}/\text{m}^2\text{h}$ )		HJ 571-2010	$\leq 0.5$	0.1	Pass
11	Dimensional stability	Thickness change, %	GB/T 17657-2013 4.52	$\Delta t_{65.85} : 0.4; \Delta t_{65.30} : -0.5$		
		Length change rate, mm/m		$\Delta l_{65.85} : 0.4; \Delta l_{65.30} : -0.8$		
12	Color fastness to light, level		GB/T 15102-2017 6.3.18	Blue wool fabric, level 6, reaches grayscale card level 4		
13	Antibacterial properties, %	Escherichia coli ATCC 25922	JC/T 2039-2010	Antibacterial rate $\geq 90.00$	93.86	Pass
		Staphylococcus aureus ATCC 6538		Antibacterial rate $\geq 90.00$	98.98	Pass
14				Reting 0 or 1	0 级	Pass



	Performance of antibacterial & mildew-proof						
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Grade A Fire performance	FIGRA <sub>0.2MJ</sub> , W/s	GB/T2028 4-2006	A <sub>2</sub> Grade	≤120	74	Pass	
	THR <sub>600s</sub> , MJ			≤7.5	0.5	Pass	
	LFS			LFS < edge of specimen	LFS < edge of specimen	Pass	
	Finish Layer PCS, MJ/m <sup>2</sup>	GB/T1440 2-2007		≤4.0	2.8	Pass	
	Mesh cloth PCS, MJ/m <sup>2</sup>			≤4.0	0.01	Pass	
	Magnesium trioxides PCS, MJ/kg			≤3.0	0.6	Pass	
	Whole product PCS, MJ/kg			≤3.0	0.8	Pass	
	SMOGRA, m <sup>2</sup> /s <sup>2</sup>	GB/T2028 4-2006		A <sub>2</sub> Grade	S1 ≤30	4	S1
	TSP <sub>600s</sub> , m <sup>2</sup>				S2 ≤180		
					Flaming Droplets/particles	S1 ≤50	64
S2 ≤200							
			d0 : No flaming droplets particles within 600s		No flaming droplets/particles within 600s	d0	
			d1 : No flaming droplets/particles persisting longer than 10s within 10s600s				

