



Sturdo
RESTROOM CUBICLES & LOCKERS



Technical Specifications

BACKWALL PANELING

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Product: Greenlam –Interior Cladding Grade Compact Laminate-CGS-9.0mm

Sr No.	Performances Properties	Ref. Clause as per EN 438-2 & 4 :2016	Unit	Specified values as per EN 438- 4 :2016	Greenlam Interior Clads' value
1	Thickness	EN 438-2: 5	mm	9.0 ± 0.50	8.75 to 9.10
2	Flatness of Panel	EN 438-2 : 9	mm/M	max 5.0mm/ M	Complies
3	Length & Width of Panel	EN 438-2 : 6	mm	+10 mm/-Nil	+5 mm/-Nil
4	Straightness of Edges	EN 438-2 : 7	mm/M	1.50 Max Deviation	1.00 Max Deviation
5	Squareness	EN 438-2 : 8	mm/M	1.50 Max Deviation	1.00 Max Deviation
6	Resistance to surface wear	EN 438-2 : 10	Revolutions Ip	150 Minimum	Complies
7	Resistance to Immersion in Boiling Water (2 hours)	EN 438-2 : 12			
	Mass Increase		%	2.0 Maximum	Complies
	Thickness Increase		%	2.0 Maximum	Complies
	Surface Rating		Rating	4, Suede Finish	Complies
	Edge Rating	Rating	3, Suede Finish	Complies	
8	Resistance to Impact by Large Diameter Ball	EN 438-2 - 21	mm	1800 (Drop Height)	2000 (Drop Height)
9	Resistance to water vapor	EN 438-2 : 14	Rating	4, Suede Finish	Complies
10	Resistance to dry heat (160°C)	EN 438-2 : 16	Rating	4, Suede Finish	Complies
11	Resistance to wet heat (100°C)	EN 438-2 : 18	Rating	4, Suede Finish	Complies
12	Resistance to crazing	EN 438-2 : 24	Grade	4, Suede Finish	Complies
13	Dimensional Stability at Elevated Temperature	EN 438-2 : 17			
	Longitudinal		%	0.30(Max.)	0.20 Max.
	Transverse	%	0.60 (Max)	0.49 Max	
14	Resistance to Scratching	EN 438-2 ; 25	Rating	3, Suede Finish	Complies

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15	Resistance to Crazing	EN 438-2 ; 24	Rating	3, Suede Finish	Complies
16	Resistance to Staining Group 1 & 2	EN 438-2 ; 26	Rating	5	Complies
	Group 3		Rating	4	Complies
17	Flexural Modulus	EN ISO 178:2003	Mpa	9000 (Min.)	9600
18	Flexural Strength	EN ISO 178:2003	Mpa	80 (Min.)	95
19	Density	EN ISO 1183 -1:2004	g/cm ³ (Min)	1.35 (Min.)	1.40 ± 0.05

LIGHT FASTNESS

1	Light Fastness (Xenon Arc)	Contrast EN 438-2 ; 27	Grey Scale Rating	4 to 5	Complies
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FIRE PERFORMANCE

Sr No.	Performances Properties		Unit	Performance Levels	Greenlam Interior Clads' Value
1	Light Fastness (Xenon Arc)	Classification standards EN 13501-1 : 2007 Tested according to EN 13823:2010 & EN 11925-2 :2010	Euro class	Classification T _z ≥ 6Mm	D-S2, D0 Cgs B-S1, D0 Cgf*

*Fire Retardant Variant

Gold standards for chemical emissions		Unit	Specified Values As Per UI 2818-2013	Greenlam Interior Clads' Value
1	Light Fastness (Xenon Arc)	mg/M ³	0.22 Maximum	Meets
2	Formaldehyde	µg/M ³	9 Maximum	Meets
3	Total Aldehydes	ppm	0.043	Meets

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Resistance to fixing	Unit	Specified Values As Per Iso13894-1:2000 Tm 15	Greenlam Interior Clads' Value
Screw Holding Capacity	N	3000	Meets

Thermal Resistance property	Unit	Test Method As Specified In En 12524, En 12664	Greenlam Interior Clads' Value
Thermal Conductivity	W/m ² K		Meets

Thermal Resistance property	Unit	Test Method	Specified Value	Greenlam Interior Clads' Value
Anti-Viral Efficacy & activity				
% Reduction in 24 hours	%	ISO 21702-2019	95% (Min.)	99.9% (Min.)
Activity after 24 hours	Log Reduction		2.0 (Min.)	Exceeds
Anti-bacterial Efficacy & activity				
% Reduction in 24 hours	%	JIS 2801-2012	95.0 (Min)	99.99
Activity after 24 hours	Log Reduction		2.0 (Min)	Exceeds
Anti-Fungus Efficacy				
Growth after 28 days	Rating		1	0 (No Growth)

• **Virus Tested :** MS2 Bacteriophage

• **Bacteria Tested :**

1. Pseudomonas Aeruginosa	5. Escherichia Coli
2. Enterococcus Faecalis	6. Klebsiella Pneumoniae
3. Candida Albicans	7. MRSA (Methicillin Resistant Staphylococcus Aureus)
4. Pseudomonas Aeruginosa	8. Salmonella Enterica

• **Fungus Tested :**

1. Aspergillus niger	4. Chaetobium globosum
2. Penicillium funicolosum	5. Aurobasidium pullulans
3. Gliocladium virens	