

GREENLAM INDUSTRIES LIMITED	Revision :00
TEST REPORT	Date: 26.12.2019

Resistance of Greenlam Clads to airborne chemical stresses

Air and rain contain natural and manmade chemicals, such as:

- •Carbon dioxide CO₂
- Sulphur Oxides SO_x
- Nitrous gases NOx
- Hydrogen chloride HCl

Greenlam Clads offer protection against weather and are largely resistant to acid rain containing one or more of the above chemicals.

Test description:	To study effect on Décor Surface of Greenlam Exterior Grade		
	Compact Laminate-Clads upon immersion in 10% HCl for 24 hours.		

S. No.	Details of sampling and test	Particulars
1.	Sample Size/ Nos. per variant	100mm X 100 mm/ Four each
2.	Thickness of samples	6.0mm
3.	Decor description /Finish	Vermilion Red (9275) Suede Finish
		Arch Wood (9108) Suede Finish
4.	Manufacture Standard	EN 438-Part 6 2016, Grade EDF
5.	Test Start Date	25.12.2019, 11.30 AM
6.	Test Completion Date	26.12.2019, 11.30 AM
7.	Sampling Method	Random From Production
8.	Conditioning	None
9.	Laboratory Environment	Temperature:25°±2°C
		Relative Humidity, RH 50± 5%
10.	Discipline	Chemical Testing

Samples' surface appearance before and after the test:

Sample before immersion	Sample after immersion	Remark
		No Change in surface appearance of the décor
		No Change in surface appearance of the décor

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Test Results:

Sl.	Particulars	Test	Test	Observation		
No.	of test	condition	Method	Time	#9275 Suede	#9108 Suede
01	Resistance	Observe the	In house.	After 8	No visible changes in	No visible changes in
	to	sample	Each	hours	appearance and tested	appearance and tested
	immersion	specimen for	sample is		surface area is	surface area is
	in 10% HCl	appearance	immersed		indistinguishable from	indistinguishable from
	solution	for a total test	50mm		the adjacent	the adjacent
		Duration of	into the		unexposed portion.	unexposed portion
		24 hours –on	test	After	No visible changes in	No visible changes in
		8 hourly basis	solution	16	appearance and tested	appearance and tested
				hours	surface area is	surface area is
					indistinguishable from	indistinguishable from
					the adjacent	the adjacent
					unexposed portion.	unexposed portion
				After	No visible changes in	No visible changes in
				24	appearance and tested	appearance and tested
				hours	surface area is	surface area is
					indistinguishable from	indistinguishable from
					the adjacent	the adjacent
					unexposed portion.	unexposed portion

 $\underline{\text{Conclusion}}$: It is demonstrated that in a 24-hour test with 10% Hydrochloric Acid there is no visible changes in the surface appearance of the panel.

Tested by: Sukesh Jangir	Checked by: Ankush Kuman			
Validated & Approved by: GSRA Sharma				
End of the Test Report				