Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

CERTIFICATE

of constancy of performance

1922 - CPR - 0751

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Exterior Grade Compact Laminate with flame retardant (thickness - more than 2.0 mm), Interior Grade Compact Laminate with flame retardant (thickness - more than 2.0 mm), Composite high pressure laminate (HPL) with flame retardant (thickness - less than 2.0 mm)

(List of tested characteristics described in Annex I, that is an integral part of this certificate)

placed on the market under the name or trade mark of

M/s GREENLAM INDUSTRIES LIMITED
1501-1505, NARAIN MANZIL, 23-BARAKHAMBA ROAD, NEW DELHI, PIN CODE-110001, INDIA

and produced in the manufacturing plant

M/S GREENLAM INDUSTRIES LIMITED
VILL PATERH BHONKU, PO- PANJEHRA, TEHSIL-NALAGARH, DISTRICT-SOLAN, HIMACHAL PRADESH, PIN CODE-174101, INDIA

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 438-7:2005

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 09.09.2016 and will remain valid until 09.09.2019 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

CE

Issued:
Burgas, 05 September 2018

Embossed stamp of "Dedal - A&C" Ltd.

Manager:

Dedal Attestation & Certification

arch. Galina Vasileva

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ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE 1922 - CPR - 0751/05.09.2018

List of controlled characteristics:

Characteristics, dimension	Clause	Method	Results			
			COMPACT BRANDS			HPL BRANDS
			Greenlam Exterior Clads™, EDF/EDS	Greenlam Safeguard Plus (CGF)	Greenlam Labguardian Chemical Resistance Laminate	GREENLAM, NEWMIKA, GREENTOUCH, NEW POINT EIGHT,SPLENDOR,UNI CORE, HD- GLOSS & POSTFORMING LAMINATE
Thickness			6.0 mm	12.0 mm	13.0 mm	0.8 mm
Substarte			NA	NA	NA	(Particle board) -44.0 mm
Reaction to fire	4.2.2	EN 13823	B-s1, d0	B-s1, d0	C-s1, d2	C-s1, d0
		EN 13501-1				
Fire resistance	4.3.2	EN 13501-2	NPD	NPD	NPD	NPD
Water vapour permeability	4.4	EN ISO 12572	NPD	NPD	NPD	NPD
Resistance to fixings	4,5	ISO 13894-1	≥ 2000	≥4000	≥ 4000	No Requirement
Direct airborne sound insulation	4,6	EN ISO 140-3	NPD	NPD	NPD	NPD
		EN ISO 717-1				
Bonding strength N/mm2	4,7	EN ISO 13894-1	1,49	1,42	1,42	NPD
Flexural strength N/mm2	4,8	EN ISO 178	≥ 80	≥ 80	≥ 80	NPD
Flexural Modulus N/mm2		EN ISO 178	≥ 9000	≥ 9000	≥ 9000	
Tensile Strength N/mm2		ISO -527-2-1996	84,3	77,1	77,1	
Thermalresistance/ Conductivity W/mo K	4,9	EN-12524, EN-12664	0,24	0,24	0,24	1,8
Content of pentachlorophenol	4.10.1	EN 323	NPD	NPD	NPD	NPD
Release of formaldehyde (µg/m³)	4.11.1	EN 717-1, UL-2818	NPD	9 (7.3 ppb)	9 (7.3 ppb)	HPL – 9 (7.3 ppb), SUBSTRATE EN13986 – E1
Sound absorption	4.11.2	EN ISO 354 & EN ISO 11654	NPD	NPD	NPD	NPD
Thermal shock resistance	4.12.1	EN 438-2	pass	pass	pass	NPD
Durability	4.13	ISO 13894-1	Resistance to wet conditions pass	Immersion in boiling water pass	Immersion in boiling water pass	NPD
		EN ISO 1183-1, Density-g/cm3	≥ 1.350	≥ 1.400	≥ 1.400	Particle board - 0.620, HPL - 1.380, Composite Panel - 0.654
		EN 438-2	Rating - 5, Mass Increase Max 2.5 %	NPD	NPD	NPD

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Technical Specifications
Greenlam High Pressure Laminates (1mm)

Properties	Unit	Specified Values As Per IS:2046 Type HGS	Greenlam Conforms
Resistance to surface wear	Revolutions	350 (Min.)	√
Resistance to Immersion in boiling water			
a) Mass increase	%	10.0 (Max.)	√
b) Thickness increase	%	11.8 (Max.)	√
c) Appearance	Grade	Not worse than 4	√
Dimensional stability at deviated temperature			
Longitudinal	%	0.55 (Max.)	√
Transverse	%	1.025 (Max.)	√
Dimensional stability at 20 Ċ temperature			
Longitudinal	%	0.375 (Max.)	√
Transverse	%	0.60 (Max.)	√
Resistance to impact by small diameter ball	N	20.0 (Min)	√
Resistance to cracking	Grade	Not worse than 4	√
Resistance to scratching	N	2.0 (Min.)	√
Resistance to staining			
a) Group 1& 2	Grade	Not worse than 5	√
b) Group 3 & 4	Grade	Not worse than 4	√
Resistance to colour change			
a) In xenon Arc light	Grade	Not worse than 6	√
b) In enclosed Carbon Arc light	Grade	Not worse than 5	√
Resistance to Cigarette burn	Grade	Not worse than 3	√
Resistance to steam	Grade	Not worse than 4	√