



TEST REPORT

Report No.: METS-R 3530/2020

Client / Establishment	: International Development Company Metal Industries Mafreq – 2, Abu Dhabi United Arab Emirates
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Sample ID : METS-S20-3530
Sample Receiving Date : 17/10/2020
Reporting Date : 26/10/2020
Date of Analysis : 17/10/2020-26/10/2020
Tested by : AJ/SC
Issue No : 01 (Re-Issue Date: NA)

Sample Information:

Sample Description	: Aluminium Composite Panel
Brand Name	: Aluclad
Manufactured by	: International Development Company Metal Industries

Brief Evaluation of the Results

	Test	Compliance#
METS-S20-3530	Chemical Analysis	Pass

#The tested parameters comply with the SASO 2752:2019 specification limit
The corresponding test results are furnished in following page

Verified by

Chemist
Material Science Division (MSD)
Employee Code: METS AJ EC 136



Approved by

Quality Department

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

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Date of analysis: 17/10/2020-26/10/2020

Test Results

Parameter	Test Method	Unit	Result	Specification Limit: SASO 2752:2019	
Thermal properties:					
Heat deflection temperature	ASTM D 648-18	°C	87	85 Min	
Linear thermal expansion coefficient	ASTM D 696-16	µm/m-°C	131	200 Max	
Thermal resistance	ASTM C518-10	m²K/W	0.225	≥0.06	
Coefficient of thermal conductivity (U-Value)	ASTM C518-10	W/mk	4.45	≤4.5	
Mechanical properties:					
Bending strength	ASTM C393/C 393M-16/ SASO 2752:2019	MPa	109	≥100	
Bend elastic modulus	ASTM C393/C 393M-16/ SASO 2752:2019	Mpa	22121	≥20000	
Shear strength	SASO 2752:2019	Mpa	23	≥22	
180 degree peel strength	SASO 2752:2019	N/mm	12	≥9.0	
Drum peel strength	ASTM D1781-98	N.mm/mm	105	≥100	
Panel Coating Requirement:					
Coating Thickness	Front side	SASO 2752:2019	µm	30.85	≥30
	Back side	SASO 2752:2019	µm	28.65	≥23
Gloss deviation*	ISO 2813:2014	-	4	≤10	
Pencil hardness	SASO GSO ISO 15184:2015	-	F-2H	≥HB	
Coating flexibility, No. of sample bending	ISO 17132:2007	-	Pass	≤2 Without any cracks damage on the coating	
Adhesion	SASO ISO 2409:2013	Grade	0*1	≥1	
Impact resistance	SASO ISO 6272-2:2014	-	No cracks observed at 50 kg.cm	Shall not be any peel off and cracks	
Abrasion resistance	SASO 2752:2019	Lµm	>2	≥ 2	
Stain resistance	SASO 2752:2019	%	2	≤5	

*Parameter accredited by IAS in accordance with ISO/IEC 17025:2017

*1 The edges of the cuts are completely smooth, none of the squares of the lattice is detached.

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APPENDIX

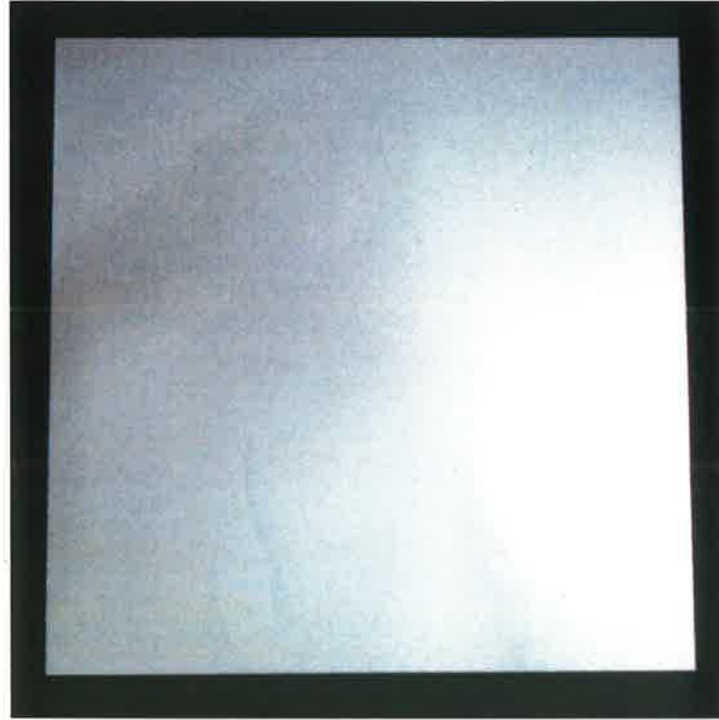


Image of tested sample

-End of Report-

