



میدیل ایست لخدمات الفحص ذ.م.م.  
Middle East Testing Services L.L.C.

TEST REPORT

Report No.: METS-R I 776-02/2019 Rev.01

Client / Establishment	: M/s. Intertek Government & Trade Services P.O. Box: 26290, Dubai United Arab Emirates
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Sample ID : METS-S-I 776-02  
Sample Receiving Date : 21/10/2019  
Reporting Date : 31/10/2019  
Date of Analysis : 21/10/2019-31/10/2019  
Tested by : AJ/SC  
Issue No : 02(Re-Issue Date: 25/03/2020)

**Sample Information:**

Sample Description	: Composite Panels
Sample Size	: SKIN THK 0.5 mm
Brand Name	: ALUCLAD
Manufactured by	: IDCMI (International Development Company Metal Industries)

**Brief Evaluation of the Results**

	Test	Compliance#
METS-S-I 776-02	Physico-Chemical Analysis	Pass

The corresponding test results are furnished in following page  
#The product complies with SASO 2752:2018 specification limit

Verified by

*For*  
*Raj*

Dr. Rasmi Krishnakumar, Ph.D.  
Chemist



Approved by

*Andu*

Quality Department



Test Results:

Parameter		Test Method	Unit	Result	Specification Limit: SASO 2752:2018
Dimension*1	Length	SASO 2752:2018	mm	1500	-
	Width	SASO 2752:2018	mm	1000	-
	Thickness	SASO 2752:2018	mm	4.08	-
Appearance		Visual	-	Pass	Shall free from scratch, stains, concaves and convexes.
<b>Core mechanical properties requirements</b>					
Tensile Strength		ASTM D 638-14	Mpa	46.5	30 Min
Tensile Strength at Yield		ASTM D 638-14	Mpa	40.9	-
Elongation at Break		ASTM D 638-14	%	220	-
Flexural Bending Strength		ASTM D 790-17	Mpa	117	70 Min
Flexural Elastic Modulus		ASTM D 790-17	Mpa	1680	1200
<b>Thermal properties (core thermal properties)</b>					
Heat Deflection Temperature		ASTM D 638-14	°C	119	85 Min
Linear Thermal Expansion Coefficient		ASTM D 638-14	µm/m°C	186	200 Max
Thermal Resistance (R Value)		SASO ASTM C 518-17	k.m <sup>2</sup> /w	0.21	0.2 Min
Coefficient of Thermal Conductivity (µ Value)		SASO ASTM C 518-17	w/m <sup>2</sup> .k	0.093	4.5 Max
<b>Panel coating requirements (Coating method: Panels coating characteristics)</b>					
Coating thickness, µm (External Wall)		SASO 2752:2018	µm	17.1	-
Gloss deviation		Not applicable			
Pencil hardness		SASO GSO ISO 15184:2015	-	F-4H	2H minimum
Coating Flexibility (External Wall)		ISO 17132:2007	-	3	≥2 Without any cracks damage on the coating
Adhesion Grade		SASO ISO 2409:2013	Grade	0 <sup>2</sup>	≥1
Impact resistance(kg.cm)		SASO ISO 6272-2:2014	-	No peel off and cracks observed	Shall not be any peel off and cracks





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Date on analysis: 21/10/2019-31/10/2019

Test Results:

Parameter	Test Method	Unit	Result	Specification Limit: SASO 2752:2018
Hot water resistance	SASO ISO 2812-2:2014	-	Resistant	Shall be resistant
Stain resistance	SASO ISO 11997-1:2007	%	8	15 max
<b>Chemical stability and resistance</b>				
Alkali resistance	ASTM D 1308-02 (2013)	-	Resistant	Shall be resistant
Oil resistance	ASTM D 1308-02 (2013)	-	Resistant	Shall be resistant
Solvent resistance	ASTM D 2247-01a(2018)	-	Resistant	Shall be resistant
Brush resistance	SASO ISO 11998:2007	-	Resistant	Shall be resistant

**Note:** \*1-Other sizes tolerance is depending on mutual agreement between customer, design engineer, and the manufacturer.

\*2-The edges of the cuts are completely smooth, none of the squares of the lattice is detached.

**Remark:** The report was revised to modify the brand name from Fire bond to Aluclad as per client request.

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.

-End of Report-



Issue No: 2

Form MRF 27