SHRIRAM INSTITUTE FOR INDUSTRIAL RESEARCH

(A unit of Shriram Scientific and Industrial Research Foundation)

19, University Road, Delhi - 110007 (India) An ISO - 9001, 14001 & OHSAS 18001 Certified Institute

Website: www.shriraminstitute.org
E-mail id: customercare@shriraminstitute.org

C1/0000015497

1509-1-141-3949

RG1516/1/5973

29/09/2015

29/09/2015

TEST CERTIFICATE

Date 12/10/2015

NO.:

Job No.

Booking No. Booking Date

Customer Ref No.

Customer Ref Date

Issued To:

Client Code: A0421

ALUDECOR LAMINATION PRIVATE

LIMITED,

SUIT NO. 52, 5TH FLOOR, IRN MUKHERJEE ROAD,

KOLKATA

WEST BENGAL-700001

Kind Attn: MR. PARVEEN MAHAJAN

Sample Description:

ONE SAMPLE DESCRIBED AS ALUMINIUM COMPOSITE PANEL (ACP),4 MM ZINC COMPOSITE PANEL, MARKED AS AL-45 ZINC WITH 0.5MM THICK ALUMINUM COIL, WAS RECEIVED.

The sampling was not carried out by Shriam Institute for Industrial Research. The sample details provided in the test certificate are based on the decalaration by the party.

S.No	Tests	Results	Protocol Adopted
1	Flexural Modulus,MPa	12462	ASTM D-790-08
2	Shear Strength,MPa	20	ASTM D 732-08
3	Peel Strength, N/mm	12	ASTM D-903-08

DOR:29-09-2015 DOC:09-10-2015

AUTHORISED SIGNATORY
EMPLOYEE CODE: ()

Page 1 of 1

GC-01(Rev-04)



Report No. : GR:HL:6480013969

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER A

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN

INDIA

SAMPLE RECD ON 12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

DATE: 20/07/2015

TEST(S) REQUESTED

COEFFICIENT OF LINER THERMAL EXPANSION TEST

CLTE (COEFFICIENT OF LINEAR THERMAL EXPANSION) TEST:

Test Equipment:

Name	Brand	Model
hermomechanical Analyzer (TMA)	TA	Q-400

Test Method

Ref. ASTM D696 - 08

Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between

-30°C and 30°C With a Vitreous Silica Dilatometer.

Test Condition

Test temperature range

: Ramp 10°C/min from -30°C to 30°C

Purge gas

: Nitrogen (N₂), Purity 99.999%, Flow rate 50ml/min.

Measurement Direction

: in length

JOE No.: 1548805058

Page 1 of 3

Control No.:6485015118

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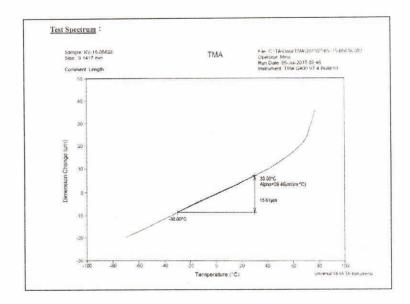
DATE: 20/07/2015

Report No. : GR:HL:6480013969

Test Results

Test Item	Test Result
Coefficient of linear hermal expansion (1/°ℂ)	-30°C~30°C : 28.46x106 ⁻⁶

Test Spectrum:



JOE No.: 1548805058

Page 2 of 3

Control No.:6485015118

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Report No. : GR:HL:6480013969

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMETAS:

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN

INDIA

12/06/2015

SAMPLE RECD ON

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

COEFFICIENT OF LINER THERMAL EXPANSION TEST

CLTE (COEFFICIENT OF LINEAR THERMAL EXPANSION) TEST:

Test Equipment:

Name	Brand	Model
hermomechanical Analyzer (TMA)	TA	Q-400

Test Method

Ref. ASTM D696 - 08

Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between

-30°C and 30°C With a Vitreous Silica Dilatometer.

Test Condition

Test temperature range

: Ramp 10°C/min from -30°C to 30°C

Purge gas

: Nitrogen (N₂), Purity 99.999%, Flow rate 50ml/min.

DATE: 20/07/2015

Measurement Direction

in length

JOE No. : 1548805058

Page 1 of 2

Control No 6485015118

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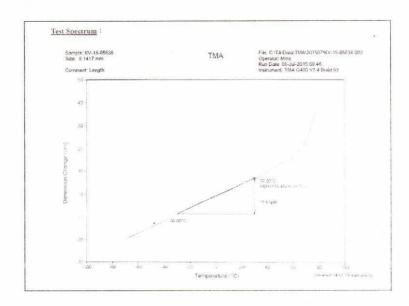
DATE: 20/07/2015

Report No. : GR:HL:6480013969

Test Results

Test Item	Test Result	
Coefficient of linear thermal expansion (1/°C)	-30°C~30°C : 28.46×106 6	

Test Spectrum:



Note

Test performed as per the conditions given by the client. Above test is subcontracted to SGS approved lab.

Per Pro SGS India Private Ltd

***** End of Report*****

Authorized Signatory

Lalit Raheja (Sr Executive)

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

JOE No.: 1548805058

Page 2 of 2

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Report No. : GR:HL:6480013964

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON: MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON

INDIA 12/06/2015

TESTING PERIOD: 18/06/2015 - 19/07/2015

TEST(S) REQUESTED

DENSITY TEST

DENSITY TEST

Test method

ASTM D 792 : 2013

Test condition

Preconditioned at 23±2°C & 50±10% RH for 40 hrs.

Observation

Density

1.936 g/cm³

Note

Test performed as per the conditions given by client.

Above test is subcontracted to SGS Approved lab.

***** End of Report*****

DATE: 20/07/20

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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Page -1 of 1

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Report No.: GR:HL:6480013965

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON: MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON INDIA

12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

TENSILE STRENGTH TEST

TENSILE STRENGTH TEST:

Test method

ASTM D 638: 2014

Test condition:

Preconditioning at 23±2°C & 50±5% Rh for 40hrs.

Type of machine used :

CRE

Test speed

5 mm/min.

Observation

Tensile strength

517 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report*****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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Control No: 6485015122

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Report No. : GR:HL:6480013966

ALUDECOR LAMINATION PVT LTD...

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN

INDIA

SAMPLE RECD ON

12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

FLEXURAL STRENGTH TEST

FLEXURAL STRENGTH TEST:

Test method

ASTM D 790: 2010

Test condition:

Pre-conditioned at 23±2°C & 50±10% RH for 40hrs.

Type of machine used

CRE

Speed

1.73 mm/min.

Observation

Flexural strength

1525 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report *****

DATE: 20/07/

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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Report No. : GR:HL:6480013967

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON

INDIA

12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

FLEXURAL MODULUS TEST

FLEXURAL MODULUS TEST:

Test method

ASTM D 790: 2010

Test condition:

Pre-conditioned at 23±2°C & 50±10% RH for 40hrs.

Type of machine used

CRE

Speed

1.73 mm/min.

Observation

Flexural modulus

184305 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report *****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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Report No. : GR:HL:6480013968

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN

INDIA

SAMPLE RECD ON

TESTING PERIOD: 18/06/2015 - 18/07/2015 12/06/2015

TEST(S) REQUESTED

HEAT DEFLECTION TEMPERATURE TEST

HEAT DEFLECTION TEMPERATURE TEST:

Test method:

ASTM D 648:2007

Test condition:

Test conducted at 23±2°C & 50±10% RH for 40 hrs.

Stress

1.82 Mpa

Heating rate

120°C/hr.

Observation

HDT

>240 °C

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report *****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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Report No. : GR:HL:6480013964

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON INDIA

12/06/2015

TEST(S) REQUESTED

DENSITY TEST

TESTING PERIOD: 18/06/2015 - 19/07/2015

DENSITY TEST

Test method

ASTM D 792 : 2013

Test condition

Preconditioned at 23±2°C & 50±10% RH for 40 hrs.

Observation

Density

1.936 g/cm³

Note

Test performed as per the conditions given by client.

Above test is subcontracted to SGS Approved lab.

***** End of Report*****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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Cantrol No. 6485015109

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Report No. : GR:HL:6480013965

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN

INDIA 12/06/2015

SAMPLE RECD ON

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

TENSILE STRENGTH TEST

TENSILE STRENGTH TEST:

Test method

ASTM D 638: 2014

Test condition:

Preconditioning at 23±2°C & 50±5% Rh for 40hrs.

Type of machine used

CRE

Test speed

5 mm/min.

Observation

Tensile strength

517 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report*****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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JOE No.: 1548805058

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Report No. : GR:HL:6480013966

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON

INDIA 12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

FLEXURAL STRENGTH TEST

FLEXURAL STRENGTH TEST:

Test method

ASTM D 790: 2010

Test condition :

Pre-conditioned at 23±2°C & 50±10% RH for 40hrs.

Type of machine used

Speed

1.73 mm/min.

Observation

Flexural strength

1525 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

Per Pro SGS India Private Ltd

***** End of Report *****

DATE: 20/07/2015

Authorized Signatory

Lalit Raheja (Sr Executive)

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Report No.: GR:HL:6480013967

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER (S)

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL INDIA

COUNTRY OF ORIGIN SAMPLE RECD ON

12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

FLEXURAL MODULUS TEST

FLEXURAL MODULUS TEST:

Test method

ASTM D 790: 2010

Test condition :

Pre-conditioned at 23±2°C & 50±10% RH for 40hrs.

Type of machine used

Speed

1.73 mm/min.

Observation

Flexural modulus

184305 kgf/cm²

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

Per Pro SGS India Private Ltd

***** End of Report *****

DATE: 20/07/2015

Authorized Signatory

Lalit Raheja (Sr Executive)

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Report No.: GR:HL:6480013968

ALUDECOR LAMINATION PVT LTD..

SUITE NO- 52 FIFTH FLOOR, 1RN MUKHERJEE ROAD

KOLKATA-70001

INDIA

CONTACT PERSON : MR. SURESH GHORAWAT

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS

SAMPLE DESCRIPTION

ZINC COMPOSITE PANEL

COUNTRY OF ORIGIN SAMPLE RECD ON INDIA

12/06/2015

TESTING PERIOD: 18/06/2015 - 18/07/2015

TEST(S) REQUESTED

HEAT DEFLECTION TEMPERATURE TEST

HEAT DEFLECTION TEMPERATURE TEST:

Test method

ASTM D 648:2007

Test condition:

Test conducted at 23±2°C & 50±10% RH for 40 hrs.

Stress

1.82 Mpa

Heating rate

120°C/hr.

Observation

HDT

>240 °C

Note

Test performed as per the conditions given by the client.

Above test is subcontracted to SGS Approved lab.

***** End of Report *****

DATE: 20/07/2015

Per Pro SGS India Private Ltd

Authorized Signatory

Lalit Raheja (Sr Executive)

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JOE No.: 1548805058

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