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EVALUATION OF "MODELPAN" BOARD MATERIAL FOR COMPRESSIVE INDENTATION PROPERTIES IN ACCORDANCE WITH ICC-ES AC386 (FEB 2016)

A Report to:	**Ak Alev Manyezit Levha Üretim San. ve Tic. A.Ş.** No. 1/A Kat: Atasehir Istanbul, Turkiye
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Report No.:	16-06-P0117-CI, RV1 3 pages, 1 appendix
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1.0 INTRODUCTION

At the request of *Ak Alev Manyezit Levha Üretim San. ve Tic. A.Ş.*, Exova was retained to evaluate a cement / gypsum board type material for Compressive Indentation properties in accordance with ICC-ES AC 386 (Feb 2016), "Acceptance Criteria for Fiber Reinforced Magnesium-Oxide-Based Sheets", Section 3.1.6, referencing ASTM D2394 test method.

Upon receipt, the sample was assigned the following Exova Sample No.:

Client Sample Identification	Exova Sample No.
"Modelpan" a fire protective glass fiber reinforced magnesium-oxide board Board size: 8' x 4' x 1/2" (nominal)	16-06-P0117-CI

2.0 PROCEDURE

The sample was tested using the following sections ICC-ES AC386:

Test Description	AC 386, Section	Referenced Test Method
Compressive Indentation	3.1.6	ASTM D2394, Section 7 (modified)

3. 0 RESULTS

A summary of test results is presented in Table 1. Detailed test results are shown in Appendix A. SI units are the primary units of measure.

Result Table 1 – Compressive Indentation Test Result Summary
Evaluated against ICC-ES AC386 (Feb 2016) requirement
Exova Sample No.: 16-06-P0117 – CI

Test Description	Requirement	Result	Comment
Compressive Indentation at 1.3 mm comp. extension, kPa	8620	12499	Pass

4.0 CONCLUSIONS

The "Modelpan" material submitted by *Ak Alev Manyezit Levha Üretim San. ve Tic. A.Ş.*, has met the compressive indentation testing requirement set by ICC –ES AC 386, when tested as described in this report.

5.0 REVISION HISTORY

Date:	Revision:	Comments:
2016-12-11	Original Document	N/A
2016-12-28	1	"Modelplan" is replaced by "Modelpan"

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APPENDIX A

Detailed Test Results for Compressive Indentation
Applicable Standard: ASTM D2394, Section 7
(1 page)

A1 COMPRESSIVE INDENTATION

Method: ICC-ES AC 386, Section 3.1.6, ASTM D2394, Section 7 (modified)

Test Date:	2016-08-08	Instron UTM Frame:	MII# A04407
Test Conditions:	23°C; 50% RH	Instron Load Cell:	MII# A08308
Calipers:	MII# B13123	Environ. Controller:	MII# A11356
Diameter of the Steel Indenter:	25 mm	Crosshead Speed:	2.5 mm/min
Substrate:	Steel		

Table A1 – Compressive Indentation @1.3 mm compressive Extension
ASTM D2394, Section 7 (M)
Exova Sample No.: 16-06-P0117-CI

Loading position, Specimen No.	Load, N	Stress, kPa
Center 1, Specimen 1	7127	14519
Center 2, Specimen 2	6505	13251
Center 3, Specimen 3	4248	8654
Center 4, Specimen 4	4577	9324
Center 5, Specimen 5	3449	7026
Corner 1, Specimen 6	6722	13694
Corner 2, Specimen 7	6546	13334
Corner 3, Specimen 8	7730	15748
Corner 4, Specimen 9	7457	15191
Corner 5, Specimen 10	6993	14245
Average	6135	**12499**

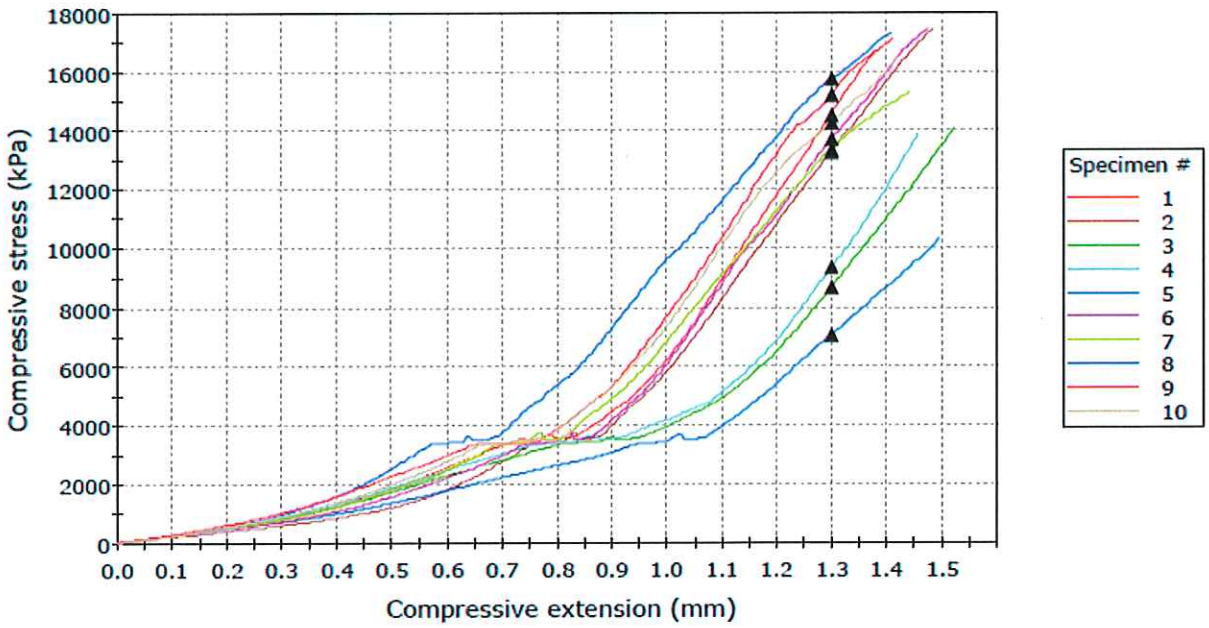

Figure A1 – Compressive Stress @1.3 mm Compressive Extension