



GUARDIAN

FIRE TESTING LABORATORIES INC.

Testing & Listing Field Labeling
Engineering & Product Certification Services
Factory Inspections

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GL 37512

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480 Hinman Ave.
Buffalo, NY 14216 (laboratory): Phone: 716 877 2760

FIRE TEST REPORT: **Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30-min. Tunnel Test)**

CLIENT/MFG: Starrco Co., Inc.
11700 Fairgrove Industrial Blvd.
Maryland Heights, MO 63043

MODEL, NAME & NUMBER: 3" thick composite panel of 1/2" gypsum board with polystyrene core and aluminum framing

STANDARDS TESTED TO: ASTM E-2768-2011

TEST RESULTS:
Flame Spread Index of 5
Smoke Developed Index: 10

REPORT NO: GL 37512
REPORT DATE: 7/27/12

TEST DATE: 7/19/12

REPORT PREPARED BY: GUARDIAN FIRE TESTING LABORATORIES, INC.
480 Hinman Ave.
Buffalo, NY 14216

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Test Equipment Statistical Data Sheets (2 pages furnished by NGC Testing Services)	
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**Summary of Starrco 3” Composite Panel of 1/2” Gypsum Board with Polystyrene Core
and Aluminum Framing Test Results**

Flame Spread Index: 5

Smoke Developed Index 10

Material was self-supporting.

Material ignited at 0:28 seconds

Max. Flame Front @ 9:39: 1.31 ft.

Max. Flame Front @ test termination was 4 ft.

Starrco Composite Panel sample is rated Class “A”

MATERIAL TESTED:

Material tested was described as 3 Inch Thick Sandwich Panel of 1/2 in. Gypsum Board with Polystyrene Core and Aluminum Framing.

The material provided was submitted in 24 in. wide x 48 in. long panels.

The composite panels were inserted into transverse mullions as directed by Starrco. The longitudinal supports were not included in the testing.

METHOD OF SUPPORT

The test samples were placed on the furnace ledges and butted tightly together end to end to achieve the required 24 ft. length. No additional support was required.

LID PROTECTION: 1/4 in. thick non-combustible fiber reinforced cement board was placed over the specimen as lid protection.

RESULTS:

The test results are shown on page 1 and 3 of this report.

Test Performance

The testing of the Starrco 3 in. thick Sandwich Panel of 1/2" Gypsum Board and Polystyrene Core with Aluminum Framing was conducted in the Steiner tunnel at:

NGC Testing Services
1650 Military Road
Buffalo, NY 14217-1198

NGC Testing Services is an ISO 17025-2005 compliant testing laboratory, report #TL-216.

Statistical data sheets, Section C of this report, have been provided by NGC Testing Services.

Test Witness

The conducting of the tests on Starrco's Sandwich Panel and the testing procedures followed by NGC Testing, were monitored and witnessed by Guardian Fire Testing personnel.

Test Reviewed by:

R. Joseph Pearson
Fire Testing Engineer

Uncertainty Measurement in Guardian's fire testing is less than 1% as per ASTM E 2536-06.

This test is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI/ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation Report AT1247.

Guardian is accredited as an Inspection Agency per ISO 17020 through ANSI/ASQ National Accreditation Board/ACLASS, Report 1547.

Guardian is accredited as a Product Certification Agency (Product Listing & Labeling) by ANSI/ASQ National Accreditation Board/ACLASS, Accreditation ID# 1028.

N.B.: ANSI/ASQ/ACLASS is a signatory member of the International Laboratory Accreditation Cooperation's (ILAC) Mutual Recognition Arrangement (MRA). ANSI/ASQ/ACLASS accreditation of Guardian ensures global recognition for Guardian's services.

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The laboratory's test report does not constitute or imply product certification, approval or endorsement by this laboratory.

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