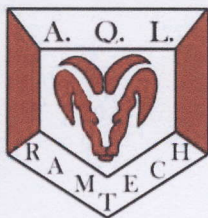


# RAMTECH LABORATORIES



14104 ORANGE AVENUE, PARAMOUNT, CALIFORNIA 90723-2019  
TELEPHONE (562) 633-4824 • FAX (562) 633-4128  
E-MAIL: [ramteclab@AOL.com](mailto:ramteclab@AOL.com)

## TEST REPORT

LABORATORY NUMBER:  
2767-10-01

EVALUATION OF:  
**"MIRAFLEX II"**  
(Resistance to Foot Traffic)

PREPARED FOR:  
Crossfield Products Corp.  
3000 E. Hardcourt Street  
Rancho Dominguez, CA

TEST CONDUCTED AT:  
Ramtech Laboratories  
14104 Orange Avenue  
Paramount, CA 90723

APPROVED BY:

**Steven  
Berggren**

STEVEN BERGGREN  
LABORATORY ADMINISTRATOR

DATE ISSUED: March 7, 2010

Digitally signed by Steven  
Berggren  
DN: CN = Steven Berggren, C =  
US, O = Ramtech Laboratories  
Date: 2010.03.07 08:43:55 -  
08'00'

REVIEWED BY:

Ron Ogawa P.E.  
Consulting Engineer  
3/10/10

Page 1 of 4

Ramtech Laboratories Reports are for the exclusive use of the client to whom they are addressed. Permission is granted to reproduce this Report provided it is reproduced entirely. The use of the name Ramtech Laboratories in any advertising or related materials must have prior written approval. Reports apply only to samples tested and are not necessarily indicative of the quality of apparently identical or similar products. Ramtech Laboratories is a recognized Testing Laboratory with the City of Los Angeles (RR23840) and the ICC Evaluation Service, Inc. (TL-167)



# TABLE OF CONTENTS

LABORATORY NUMBER: 2767-10-01

Issue Date: March 7, 2010

## COVER PAGE

## Page

A title (e.g. "Test Report")	1
The name of the laboratory	1
The address of the laboratory	1
The location where the tests were carried out	1
The unique identification of the test report	1
The name of the client	1
The name of the person authorizing the test report	1
The signature of the person authorizing the test report	1
A statement to the effect that the results relate only to the items tested	1

## BODY OF REPORT

1 The identification of the test method used	3
2 A description of the items tested	3
3 Unambiguous identification of the items tested	3
4 The date of sampling	3
5 Unambiguous identification of the product sampled	3
6 The location of sampling	3
7 A reference to the sampling plan and procedure	3
8 Details of the environmental conditions during sampling	3
9 The date of receipt of the test items	3
10 The date of performance of the test	3
11 Clarification of any deviations, additions and exclusions from the test method	3

## TEST RESULTS

A <u>Resistance to Foot Traffic</u>	3
-------------------------------------	---

## Appendix

1 <u>Photo of test specimen</u>	4
---------------------------------	---



RAMTECH LABORATORIES  
**BODY OF REPORT**

LABORATORY NUMBER: 2767-10-01

Issue Date: March 7, 2010

**Introduction:**

The purpose of this test program was to evaluate the "Miraflex II" walking deck system as manufactured under ICC-ES Evaluation Report ESR-1714 for its "Resistance to Foot Traffic" when installed over 3/4 inch Plywood (Nominal)

The following test data is presented in accordance with the required reporting procedures of ISO 17025 and the ICC-ES Acceptance Criteria for Laboratory Accreditation (AC-89).

**1     The identification of the test method used:**

- 1.1     Testing was conducted in accordance with the ICC Evaluation Service, Inc., Acceptance Criteria for Walking Decks (AC309)

**2     A description of the items tested & Sampling:**

- 2.1     The walking deck is described as the "MIRAFLEX II" as described in the ICC-ES Report ESR-1714  
2.2     The fabrication of the test sample was witnessed by Mr. Ron Ogawa under IAS Accreditation (AA-705) where he verified the test sample met the modified requirements of ESR 1714 (See Appendix)

**3     Unambiguous identification of the items tested:**

- 3.1     Ramtech Laboratories identified the test specimens as follows:  
3.1.1   "MIRAFLEX II" walking deck system installed over 3/4 inch plywood.

**4     The date of performance of the test:**

- 4.1     Ramtech Laboratories conducted the testing in February 2010.

**A     Resistance to Foot Traffic:**

**A1   General:**

In accordance with the client's request, Ramtech Laboratories conducted an "Resistance to Foot Traffic" on the "MIRAFLEX II" decking systems installed onto a **3/4 inch Substrate (12" x 12")** in general accordance with FM 4470 (Section 5.5) as required under the International Building code (1504.7):

**A2   Purpose:**

The purpose of this test was to determine the resistance of the "Decking System" to foot traffic:

**A3   Procedure:**

- A3.1   As required under FM 4470 (Section 5.5) a 3 in square steel plate with rounded corners was centered on the test specimen (See Note Below).  
A3.2   A 200 lb load was imposed on the plate.  
A3.3   The superimposed load was reduced to zero and the test specimen was reloaded four additional times  
A3.4   Penetration and residual reading were taken during each loading sequence without removing the plate

**Notes:**

1.   As a point of clarification, the test specimen was submitted to Ramtech Laboratories without any apparent "Butt Edges" or "Side Joints" as required in FM 4470 (Section 5.5.2 Item 2).  
2.   However, it is the opinion of Ramtech's consulting Professional Engineer that the results of this test report would be applicable for "Butt Edges" or "Side Joints" should they occur in the decking system

**A4   Condition of Acceptance per FM 4470 (Section 5.5.2):**

- A4.1   No Tearing of Protective Coating  
A4.2   No Cracking of Protective Coating  
A4.3   No Exposure of Core Material

**A5   Conclusions**

- A5.1   To the extent tested, the submitted test specimen meets the conditions of acceptance as stated above.

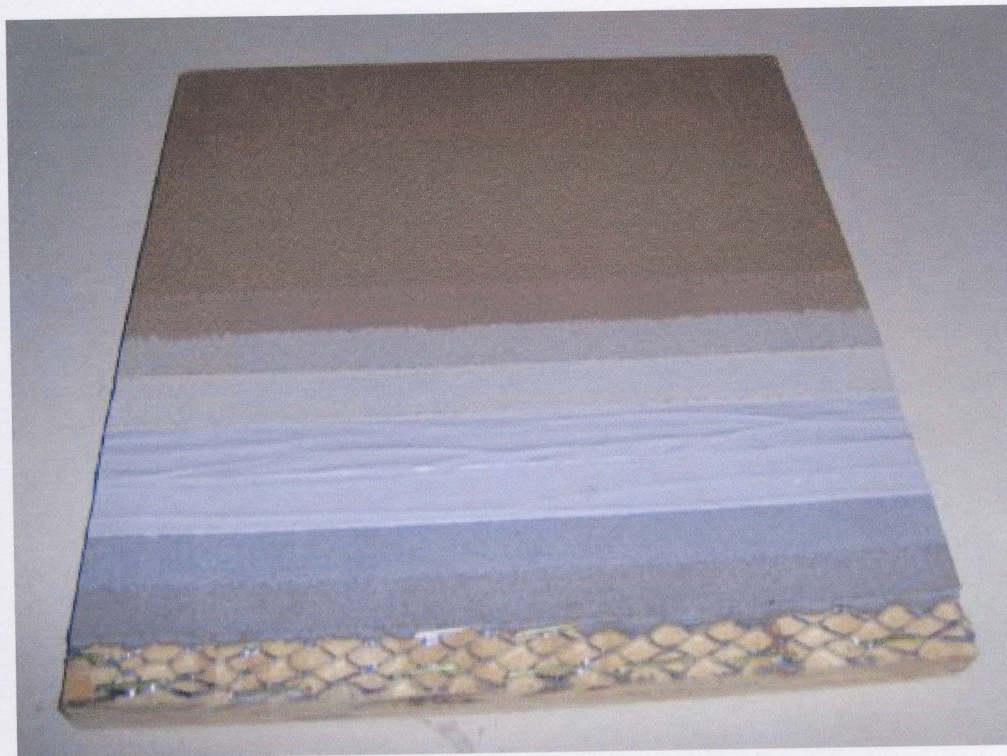


RAMTECH LABORATORIES

# APPENDIX

LABORATORY NUMBER: 2767-10-01

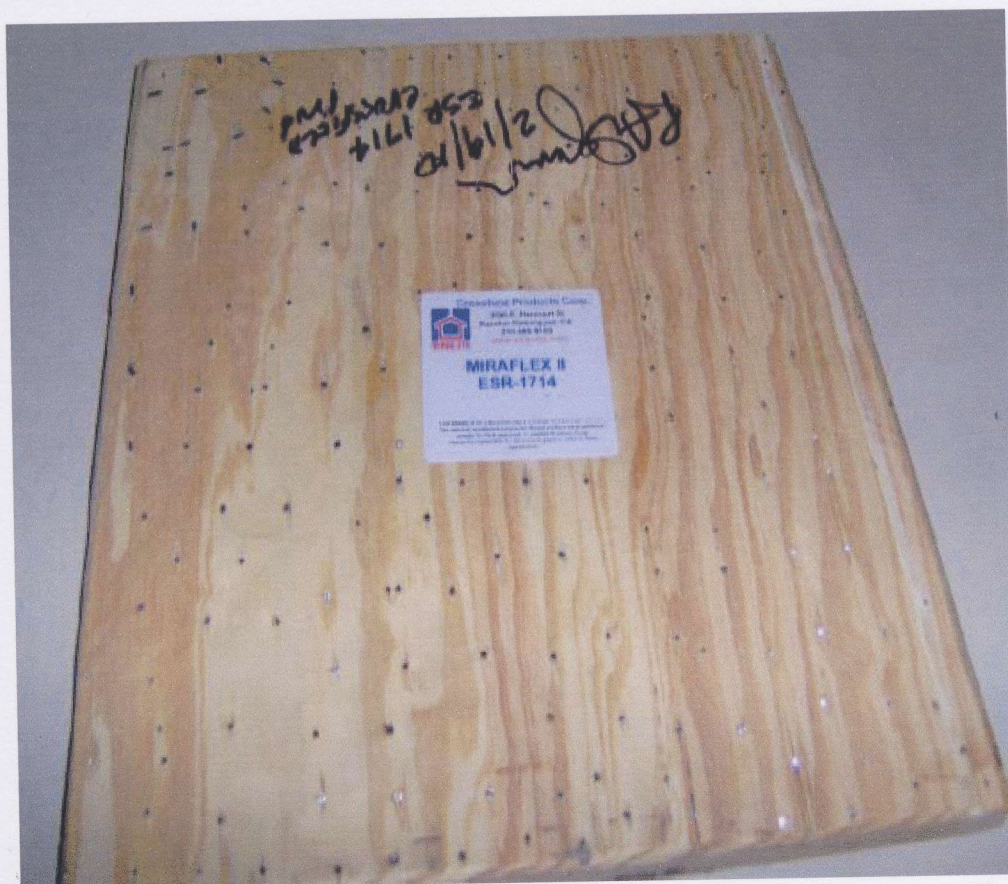
Issue Date: March 7, 2010



**Photograph 1  
(Tested Side)**

Test specimen verified by  
Mr. Ron Ogawa

(See Section 2.2 of this Report)



**Photograph 1  
(Back Side)**

Test specimen verified by  
Mr. Ron Ogawa

(See Section 2.2 of this Report)