



TWINING
CONSULTING

Watermill Express Inc.

Uniform Loading of Exterior Steel Structural Door

Testing Location:

18071 Mount Washington Street Unit A
Fountain Valley, CA 92708

Prepared for:

Watermill Express Inc.
1177 S. 4th Ave
Brighton, CO 80601

3/30/2025
256023.R



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Issue Date: March 30, 2025
Project No. 256023.R

Watermill Express Inc.
1177 S. 4th Ave
Brighton, CO 80601

Subject: ASTM E330-14 "Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference"

Dear Watermill Express Inc.,

We appreciate the opportunity to be of service on this project. Should you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Respectfully submitted,
TWINING CONSULTING Inc. dba Radco

Tested by:	<i>Javier Islas</i>	Submitted by:	 Andrew Falkenburg 2025.03.30 21:50:13 -07'00'
Javier Islas Lab Technician		Andrew Falkenburg Laboratory Director	



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1.0 INTRODUCTION

At the request of Watermill Express Inc., Twining Consulting Inc. dba “RADCO” conducted the tests listed below in section 2.0 on a steel structural door at the RADCO test facility located in Fountain Valley, CA. The test specimens were tested in accordance with ASTM E330-14 “*Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*”. The testing occurred in March 2025.

2.0 TEST PROGRAM

Referenced Test Methods

ASTM E330-14 “*Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*”

Table 1: Applied Performance Sections

Description	Test Method
Uniform Structural Loading	ASTM E330-14

3.0 TEST SPECIMEN DESCRIPTION

Sample Identification:

Sample Material: Steel Exterior Door

Inspection Date: February 7, 2024

Manufactured Date: February 6, 2024

Sample Selection Method: Radco Inspector – Shawn Tibbits

4.0 TEST EQUIPMENT

Table 2: Test Equipment per Test Method:

Test Method	Category	Type	Manufacturer	Model #	Serial #	ID#
ASTM E330	Apparatus	AWS Wall	ATS	N/A	8473401	54

5.0 CONDITIONING

The samples were conditioned for a minimum of 40 hours in Lab ambient conditions. There is not a specified conditioning requirement.

6.0 ASTM E330-14, “Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference”**PROCEDURE:**

Loading: The door initially received one half of the load for ten (10) seconds. This was followed by a load to the designated design pressure. The load was applied and held for 10 seconds and released. The door was allowed a 60 second recovery period before evaluation. This process was repeated for the negative pressure direction.

RESULTS:*Table 3: Test results for ASTM E330:*

<u>Test Applied</u>	<u>Allowable</u>	<u>Results</u>
ASTM E330 +70psf	No Damage	<u>Pass</u>
ASTM E330 -70psf	No Damage	<u>Pass</u>

Requirement: No damage after DP ± 70 psf

7.0 CONFORMITY TABLE

Report Section	Conformity Statement	Applicable Standard	Decision Rule Applied
6.0	Pass	ASTM E330-14	Simple Acceptance

8.0 REVISION LOG

Revision Number	Date	Page(s)	Revision
N/A	N/A	N/A	N/A

*****END REPORT*****