WILGER LIAISON COMPANY, INC.
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AIR LEAKAGE TESTING REPORT

MANUFACTURER: Tripar Inc.
9750 Maurice-Duplessis, Montreal, QC, H1C 1G1, Canada

WILGER PROJECT NO.:	WSP25188
MODEL NOS.:	Recessed IC Housing (Item #1781-11) w/ Max 5in dia. Aperture.
SAMPLE NO.:	T129-25-1
SAMPLE RECEIVED DATE:	2025-05-28
SAMPLE TEST DATE:	2025-06-04
REPORT DATE:	2025-06-04

INTRODUCTION:

This report gives the results of air leakage testing. The sample was selected and supplied by the client. The sample appeared to be in a new, unused condition.

GENERAL:

The specimen was tested in accordance with the ASTM Standard E283-04 “Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Difference Across the Specimen.”

TEST METHOD:

This test method describes the leakage of air through a building component under controlled laboratory conditions. The test unit was sealed into a flow test chamber and a negative pressure of 75 pascals (1.57 lbs/ft^2) was applied to the rear of the unit.

The pressure differential was measured across the plenum chamber’s orifice plate to determine airflow rate.

Prior to the test, the face of the unit was sealed and a tare measurement was obtained for the flow measuring station to ensure accurate results.

EQUIPMENT:

Asset No.	Instrument Type	Equipment. Serial No.	Function /Range	Last Cal. Date	Next Cal. Date
0305	Digital Manometer	Dwyer 475-000-FM	0 - 1.000 in W.C.	2024-08-05	2025-08-05
0309	Incline Manometer	Dwyer Type 400-10	0 - 10 in W.C.	2024-08-02	2025-08-02
0191	Digital Calipers	Mitutoyo/ CD-8"CX/ 08171132	203 mm/ 8 in	2024-07-26	2025-07-26

DESCRIPTION OF TEST SPECIMEN:

The test specimen consisted of a Models _Recessed IC Housing (Item #1781-11) w/ 5 in dia._, sample #_T129-25-1_. The fixture is shown in the photograph below.

The Recessed IC Housing w/ 5in dia. aperture includes a gasketed junction box and gasketed junction box cover. Additionally, the Recessed IC Housing may have any aperture 5 inches in dia. or less. The largest aperture tested is/ was deemed worst case.

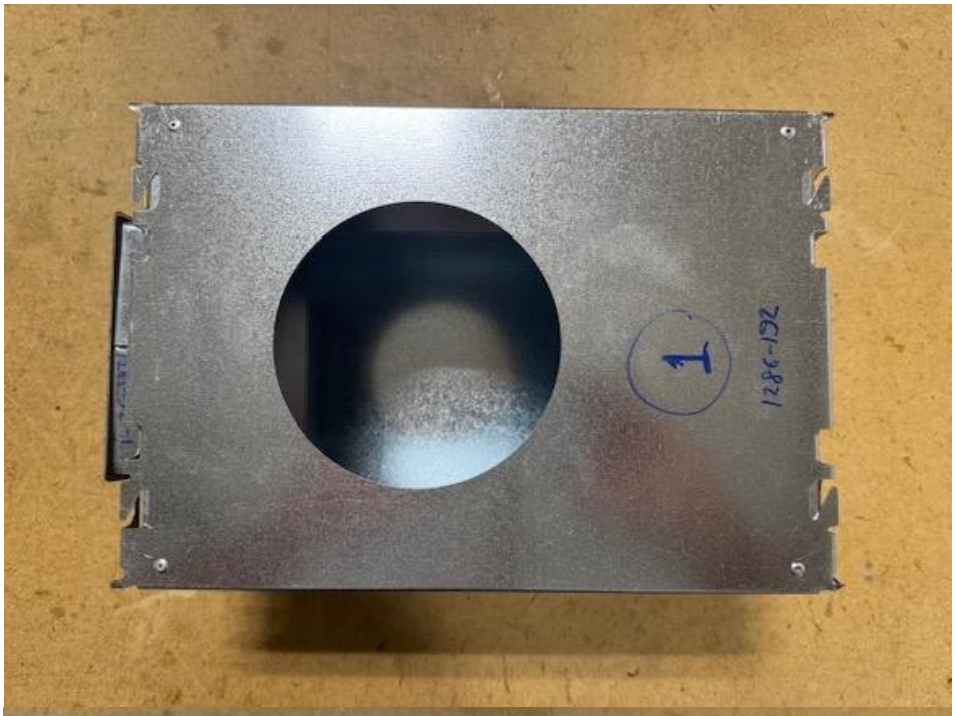
RESULTS OF TEST:

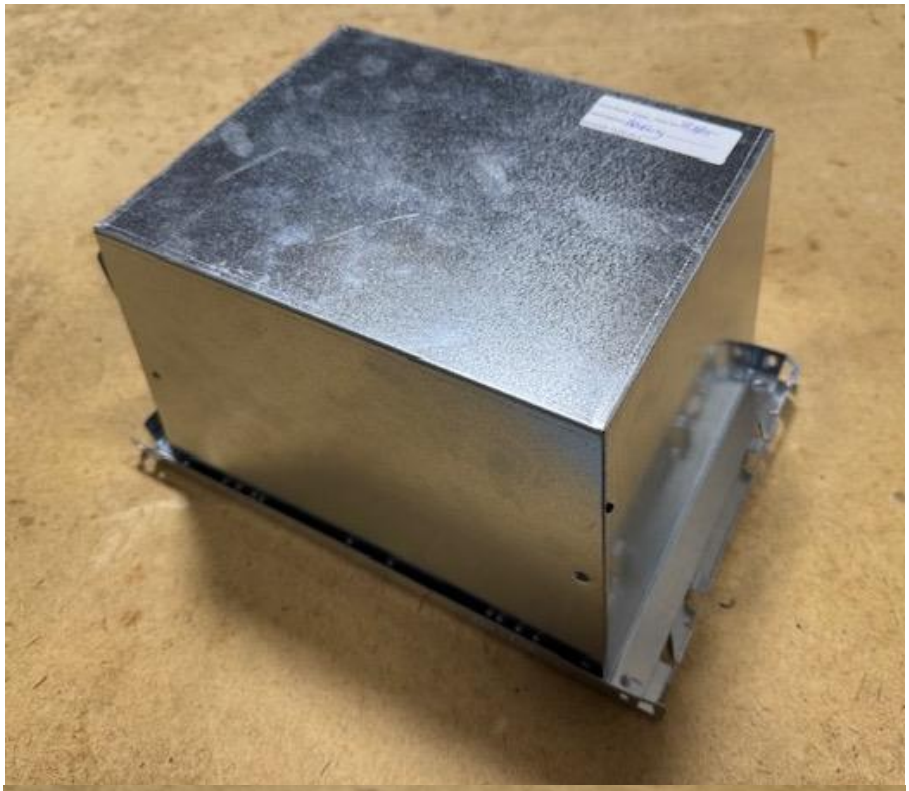
The following table gives a summary of the air leakage through the light fixture with a 75 Pascal (1.57 lbs/ft^2) pressure differential across the unit.

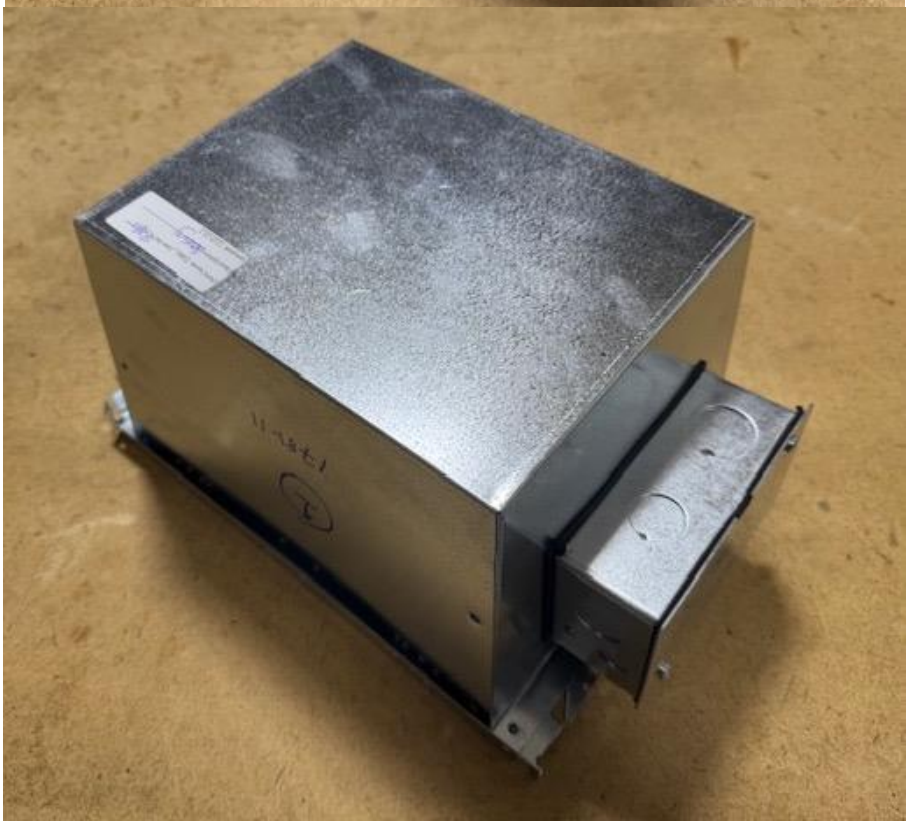
Model	Airflow (CFM)	Pass/ Fail
Recessed IC Housing (Item #1781-11) w/ 5 in dia.	1.68 CFM	Pass

The maximum leakage allowable by the above listed requirements is 2 CFM through the light fixture with a pressure differential of 75 pascals (1.57 lbs/ft 2). Therefore, the test sample meets the leakage requirement.

PHOTOS:







Test Conducted by:

Adam Gyson
Engineering Team Leader

Report Reviewed By:

William Plank, LC
Vice President
Quality Manager

End of Report