



**BUILDING ENVELOPE TECHNOLOGIES**  
A PHENNA GROUP COMPANY

Job No. 23057  
Rev. Rev 1  
Date: 15/09/2023

## AIRTIGHTNESS TEST CERTIFICATE

Test Specimen: STIRA Semi-Automatic Loft Ladder System (Attic Hatch)  
Manufacturer: STIRA  
Date tested: 30<sup>th</sup> June 2023  
Test Engineer: Ross Norman  
Test carried out on behalf of: STIRA

This is to certify that the airtightness of this product has been tested in accordance with the following standards;

- EN 12114 TESTING –  
*AIR PERMEABILITY OF BUILDING COMPONENTS AND BUILDING ELEMENTS LABORATORY TEST METHODS.*

Air Leakage via Infiltration (Positive)	0.47	(m <sup>3</sup> .hr)/m <sup>2</sup> @ 50Pa
Air Leakage via Exfiltration (Negative)	0.26	(m <sup>3</sup> .hr)/m <sup>2</sup> @ -50Pa

### **Test Procedure:**

The test sample was securely installed into the test rig. All joints were sealed with adhesive tape, this would prepare the specimen for the “Sealed” test. The test sample is tested both with positive (Infiltration) and negative (Exfiltration) tests in order to determine the performance of the specimen under both conditions. Three positive pressure pulses were applied to the sealed specimen, each being 11% ±1% greater than the  $\Delta p_{max}$  (50 Pa). Following the pulses the air pressure differentials were applied. Upon the air pressure differential stabilising the air flow rate (m<sup>3</sup>/h) was measured and recorded. The test process was repeated for the negative pressure differentials.

The test specimen is unsealed, and the above testing procedure is repeated, started applying the three pressure pulses with the unsealed air flow rate is determined, measure and recorded. The overall air leakage through the specimen is determined by finding the difference between the “Sealed” and Unsealed” results.

### **NOTE:**

*These laboratory results are valid for the conditions under which the test was conducted.  
All measuring devices/equipment including instruments have been calibrated & are traceable to national standards*

Rev No.	Description	Prepared By	Checked by	Title	Date
1	ISSUE	Michael Murphy	Ross Norman	Lab Testing Manager	15/09/2023