

### **2.1.6 Air Permeability Test**

# Pre-Lodgement of Air Permeability Test



Test Undertaken By

Tim Sullivan of STROMA Built Environment Ltd

## Registered Company Details

### STROMA Built Environment Ltd

**Address:** Unit 6  
Silkwood Business Park  
Fryers Way  
Wakefield  
WF5 9TJ

**Telephone:** 08456 212222

**Email:** Mick.Smith@Stroma.com

## Registered Tester Details

**Technician:** Tim Sullivan

1230

1

2

3

PH

EA

For clarification on technician qualifications please visit:

<https://www.bcta.group/attma/members/>

## Building Details

Building identifier:	Ambient (SHELL AND CORE)			
<b>Site address:</b>	Panattoni Park - Aylesford - Unit 1 & 2, Bellingham Way, Aylesford, Kent, ME20 7DL			
<b>Type:</b>	Non-Dwelling	<b>Description:</b>		Warehouse
<b>Construction:</b>	Steel Frame	<b>Warm roof:</b>		Yes
<b>Size:</b>	<b>Footprint (m<sup>2</sup>)</b> 10611.2	<b>Envelope (m<sup>2</sup>)</b> 25024.7	<b>Volume (m<sup>3</sup>)</b> 89939.9	<b>Storey</b> 1
<b>Ventilation:</b>	None			
<b>Primary heating:</b>	None	<b>Air conditioning:</b>		None
<b>Mastic sealing:</b>	External Walls Only (exc. sanitary ware)			

## Test Details

12/11/2024

<b>Report reference:</b>	PRO-073257 AAC T1		
<b>Retest:</b>	No	<b>Build progress:</b>	Pre-Test
<b>Data acquisition:</b>	Manual	<b>Test type:</b>	Whole Building
<b>Temporary sealing:</b>	Temporary seals on external doors/frames? (Yes), Temporary seals on loading bay doors? (Yes)		

## Deviations from Test Standard

**Deviations:** Temporary sealed components / building preparations are not all in accordance with the recommendations of ATTMA TSL2:SHELL AND CORE TEST (Yes), 2 X SHUTTER DOORS NOT YET FITTED TEMP SEALED (Yes), 2 X PERSONNEL DOORS NOT YET FITTED, TEMP SEALED (Yes)

**Notifications:**

## Test Results

<b>Target:</b>	<b>&lt;= 3.00</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.m<sup>-2</sup>@50Pa</b>	<b>Air Permeability:</b>	Pass
<b>Air Flow Coefficient (C<sub>env</sub>):</b>	<b>2,508.193</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.Pa<sup>n</sup></b>	<b>0.83</b> m <sup>3</sup> .h <sup>-1</sup> .m <sup>-2</sup> @50Pa	
<b>Air Leakage at 50 Pa (Q<sub>50</sub>):</b>	<b>20882.71</b>	<b>m<sup>3</sup>.h<sup>-1</sup></b>		
<b>Air Flow Exponent (n):</b>	<b>0.54</b>			
<b>Coefficient of Determination (r<sup>2</sup>):</b>	<b>0.994</b>			

This is to certify that the above named building has been tested by a registered provider in accordance with ATTMA TSL1, TSL2 or TSL3, subject to the above statements regarding temporary sealing and deviations from these test standards.

This certificate is a short form report. If a full compliant report is required please contact the company that issued the certificate. Enquiries about this certificate should be made to: Scheme Manager, ATTMA, Unit 3, Tannery Road, Loudwater, Buckinghamshire, HP13 7EQ or visit [www.bcta.group/attma/](https://www.bcta.group/attma/) or email [admin@bcta.group](mailto:admin@bcta.group).



TM88-SF5Q-84XZ



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# Pre-Lodgement of Air Permeability Test



Test Undertaken By

Tim Sullivan of STROMA Built Environment Ltd

## Registered Company Details

### STROMA Built Environment Ltd

**Address:** Unit 6  
Silkwood Business Park  
Fryers Way  
Wakefield  
WF5 9TJ

**Telephone:** 08456 212222

**Email:** Mick.Smith@Stroma.com

## Registered Tester Details

**Technician:** Tim Sullivan

1230

1 ✓

2 ✓

3

UCRN: 11590088

EA

For clarification on technician qualifications please visit:

<https://www.bcta.group/attma/members/>

## Building Details

<b>Building identifier:</b>	Chiller (SHELL & CORE)			
<b>Site address:</b>	Panattoni Park - Aylesford - Unit 1 & 2, Bellingham Way, Aylesford, Kent, ME20 7DL			
<b>Type:</b>	Non-Dwelling	<b>Description:</b>	Warehouse	
<b>Construction:</b>	Steel Frame	<b>Warm roof:</b>	Yes	
<b>Size:</b>	<b>Footprint (m<sup>2</sup>)</b> 33056.4	<b>Envelope (m<sup>2</sup>)</b> 73345.2	<b>Volume (m<sup>3</sup>)</b> 290143.2	<b>Storey</b> 2
<b>Ventilation:</b>	None			
<b>Primary heating:</b>	None	<b>Air conditioning:</b>	None	
<b>Mastic sealing:</b>	External Walls Only (exc. sanitary ware)			

## Test Details

12/11/2024

<b>Report reference:</b>	PRO-073257 CC T1		
<b>Retest:</b>	No	<b>Build progress:</b>	Pre-Test
<b>Data acquisition:</b>	Manual	<b>Test type:</b>	Whole Building
<b>Temporary sealing:</b>	Temporary seals on external doors/frames? (Yes), Temporary seals on loading bay doors? (Yes)		

## Deviations from Test Standard

**Deviations:** Temporary sealed components / building preparations are not all in accordance with the recommendations of ATTMA TSL2:SHELL AND CORE TEST (Yes), 6 X SHUTTER DOORS NOT YET FITTED TEMP SEALED (Yes), 6 X PERSONNEL DOORS NOT YET FITTED, TEMP SEALED (Yes)

**Notifications:**

## Test Results

<b>Target:</b>	<b>&lt;= 1.00</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.m<sup>-2</sup>@50Pa</b>	<b>Air Permeability:</b>	Pass
<b>Air Flow Coefficient (C<sub>env</sub>):</b>	<b>4,857.435</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.Pa<sup>n</sup></b>		
<b>Air Leakage at 50 Pa (Q<sub>50</sub>):</b>	<b>40124.37</b>	<b>m<sup>3</sup>.h<sup>-1</sup></b>		
<b>Air Flow Exponent (n):</b>	<b>0.53</b>			
<b>Coefficient of Determination (r<sup>2</sup>):</b>	<b>0.981</b>		<b>0.55</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.m<sup>-2</sup>@50Pa</b>

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Pass



634B-9W75-N992



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# Pre-Lodgement of Air Permeability Test



Test Undertaken By

Steven Chinery of STROMA Built Environment Ltd

## Registered Company Details

### STROMA Built Environment Ltd

**Address:** Unit 6  
Silkwood Business Park  
Fryers Way  
Wakefield  
WF5 9TJ

**Telephone:** 08456 212222

**Email:** Mick.Smith@Stroma.com

## Registered Tester Details

**Technician:** Steven Chinery

**Registration No:** 0441

**Qualification:**

1	2	3	PH	EA
✓	✓		✓	

For clarification on technician qualifications please visit:

<https://www.bcta.group/attma/members/>

## Building Details

<b>Building identifier:</b>	Freezer Only excluding Chilled & Ambient (Shell Stage Test)			
<b>Site address:</b>	Panattoni Park - Aylesford - Unit 1 & 2, Bellingham Way, Aylesford, Kent, ME20 7DL			
<b>Type:</b>	Non-Dwelling	<b>Description:</b>	Warehouse	
<b>Construction:</b>	Steel Frame	<b>Warm roof:</b>	Yes	
<b>Size:</b>	<b>Footprint (m<sup>2</sup>)</b> 9676.4	<b>Envelope (m<sup>2</sup>)</b> 25903.7	<b>Volume (m<sup>3</sup>)</b> 161707	<b>Storey</b> 2
<b>Ventilation:</b>	None			
<b>Primary heating:</b>	None	<b>Air conditioning:</b>	None	
<b>Mastic sealing:</b>	None			

## Test Details

12/11/2024

<b>Report reference:</b>	PRO-073257 FOECAST T1		
<b>Retest:</b>	No	<b>Build progress:</b>	Pre-Test
<b>Data acquisition:</b>	Manual	<b>Test type:</b>	Zone Test
<b>Temporary sealing:</b>	Temporary seals on loading bay doors? (Yes)		

## Deviations from Test Standard

**Deviations:** The ATTMA requirements for 'Zone/Sample' testing recommends at least 20% of the exterior building envelope area to be tested, and be representative of all the envelope construction methods, with the zone target leakage rate required to be improved upon by 10% upon the whole building target permeability. 17 external roller panel doors and 1x high internal roller door temporarily sealed (not part of base build handover). Tested as a shell prior to fitout - the Energy Assessor / Architect / Client should call for a final...

**Notifications:**

## Test Results

<b>Target:</b>	<b>&lt;= 0.23</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.m<sup>-2</sup>@50Pa</b>	<b>Air Permeability:</b>	Pass
<b>Air Flow Coefficient (C<sub>env</sub>):</b>	<b>51.550</b>	<b>m<sup>3</sup>.h<sup>-1</sup>.Pa<sup>n</sup></b>		
<b>Air Leakage at 50 Pa (Q<sub>50</sub>):</b>	<b>1856.6</b>	<b>m<sup>3</sup>.h<sup>-1</sup></b>		
<b>Air Flow Exponent (n):</b>	<b>0.92</b>			
<b>Coefficient of Determination (r<sup>2</sup>):</b>	<b>0.997</b>			

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**0.07**

m<sup>3</sup>.h<sup>-1</sup>.m<sup>-2</sup>@50Pa



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