

CONDENSATION RISK ANALYSIS

Property Reference	Isotex blocks		Issued on Date	19/12/2024
Assessment Reference		Prop Type Ref		
Project				
Calculation Type	New Build (As Built)			
SAP Rating		DER		TER
Environmental		% DER<TER		
CO ₂ Emissions (t/year)		DFEE		TFEE
General Requirements Compliance		% DFEE<TFEE		
Assessor Details	Mr. Sam Townsend, Sam Townsend, Tel: 0114 230 2812, stownsend@energy-test.co.uk			Assessor ID
				R584-0001
Client				

Wall - Isotex Block Wall

Environmental conditions

External conditions Temperature: °C Relative Humidity: %
Internal conditions Temperature: °C Relative Humidity: %

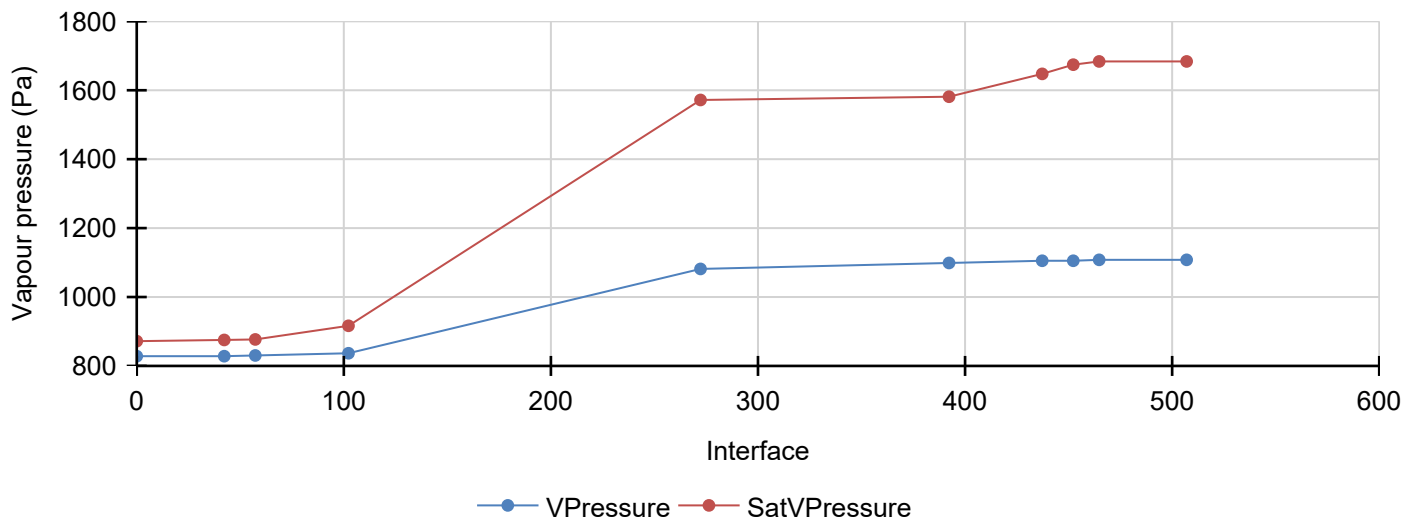
Table of layers

Layer	Thickness mm	Thermal conduct. W/m.K	Thermal resistance m ² .K/W	Cumulative thermal resistance m ² .K/W	Vapour resistivity GN.s/kg.m	Vapour resistance GN.s/kg.m	Cumulative vapour resistance GN.s/kg.m
External surface	-	0.0000	0.0400	0.0400	0.0	0.00	0.00
1.External Render	15.0	0.9000	0.0167	0.0567	30.0	0.45	0.45
2.Wood-Cement	45.0	0.1040	0.4327	0.4894	29.5	1.33	1.78
3.Graphite EPS	170.0	0.0310	5.4839	5.9732	300.0	51.00	52.78
4.Concrete, reinforced (1% steel)	120.0	1.9100	0.0628	6.0361	30.0	3.60	56.38
5.Wood-Cement	45.0	0.1040	0.4327	6.4687	29.5	1.33	57.71
6.airspace/plaster dabs	15.0	0.0000	0.1700	6.6387	0.0	0.00	57.71
7.Plasterboard, standard	12.5	0.2100	0.0595	6.6983	45.0	0.56	58.27
Internal surface	-	0.0000	0.1300	6.6983	0.0	0.00	58.27

Vapour pressure table

Interface - between layers	Interface temp. °C	Vapour pressure Pa	Satur. vapour pressure Pa	Dew point °C	Cond. rate g/m ² h	Cond. rate 60 days g/m ² h	Cond. risk Y/N
External surface	5.00	828.3	871.9	4.27	0.00	0.00	No
1. External surface / External Render	5.06	828.3	875.4	4.3	0.00	0.00	No
2. External Render / Wood-Cement	5.08	830.4	876.9	4.3	0.00	0.00	No
3. Wood-Cement / Graphite EPS	5.72	836.8	916.5	4.4	0.00	0.00	No
4. Graphite EPS / Concrete, reinforced (1% steel)	13.75	1081.5	1571.8	8.1	0.00	0.00	No
5. Concrete, reinforced (1% steel) / Wood-Cement	13.84	1098.8	1581.2	8.4	0.00	0.00	No
6. Wood-Cement / airspace/plaster dabs	14.47	1105.2	1647.5	8.4	0.00	0.00	No
7. airspace/plaster dabs / Plasterboard, standard	14.72	1105.2	1674.2	8.4	0.00	0.00	No
Plasterboard, standard / Internal surface	14.81	1107.9	1683.6	8.5	0.00	0.00	No
Internal surface	15.00	1107.9	1683.6	8.48	0.00	0.00	No

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Interface temperature / Dew point graphical representation

