

## Mould Risk Indicator

Identify High Mould Risk Remotely





## The Mould Risk Indicator is an online calculator that assesses the risk of mould in rooms and buildings.

The indicator identifies high mould risk remotely, and before it can be seen growing. Using monitored internal temperature and humidity data, the Mould Risk Indicator puts cutting edge analysis into the user's hands using algorithms developed and validated in collaboration with experts from Loughborough University.

### Why is the Mould Risk Indicator needed?

Exposure to mould is a serious threat to health, costing the NHS in excess of £865m per year, but can be difficult to identify by eye.

What you don't measure you can't manage. By identifying buildings particularly at risk of mould growth, the indicator helps building owners and users to more actively assess and mitigate serious respiratory health risks.

In our field trial in more than 100 homes across the UK we found that there was a **significant mould risk in a quarter of all rooms**, while mould was visible in less than 10%.

## Key Features

### Expert-Validated Algorithm

Specialised algorithm developed and validated in collaboration with experts from Loughborough University and SOAP Retrofit.

### Clear, Actionable Results

Results presented as an easy to interpret overall score for a building and detailed room-by-room analysis.

### User-Friendly Interface

Easy-to-use browser interface for data upload, calculations, viewing and sharing results.

### Portfolio-Wide Comparison

The browser interface allows users to compare quickly across their building stock.

### Diagnostic Insights

Diagnostic capability to assess the causes of observed mould risk.

### Real-World Validation

Validated through field trial in more than 100 homes in collaboration with Loughborough University.

### Seamless Integration

Integratable into monitoring platforms through APIs.

### Part of the BTS Ecosystem

Part of BTS product family, allowing inputs from SmartHTC, Pulse, U-value kit and Heat3D.

### Standards-Aligned

Meets PAS2035 requirements for monitoring and evaluation.

## Applications

### Housing Providers

Understand and manage mould risk in your stock with planned maintenance rather than costly complaints and reactive maintenance.

### Building Surveyors

Add an additional capability to your business.

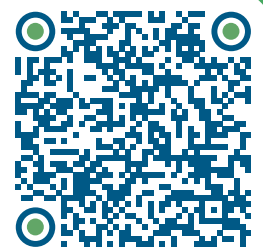
### Smart Technology Companies

Add an expert, verified capability to your platform and extra insights for your customers.



Did you know  
Mould Risk  
Indicator integrates  
with SmartHTC?

Scan to find out more!





## How Does It Work?

1.



### Collect Environmental Data

Temperature and relative humidity data are collected in a house.

2.



### Enter Building Details

Enter building information through the browser interface or integrate into your product using our APIs.

3.



### Upload or Stream Data

Upload data to the calculator through our browser interface or automate through our APIs.

4.



### Review Mould Risk Insights

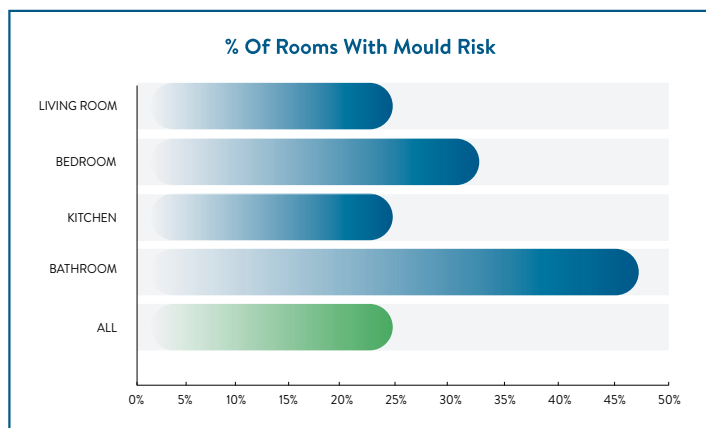
Receive comprehensive mould risk analytics at both room and building level with actionable insights.

## Field trial

During the winter of 2020-21 internal temperature and relative humidity was monitored in more than 100 homes across the UK as part of an Innovate UK-funded project run by BTS in collaboration with Loughborough University and SOAP Retrofit.

The field trial provided a unique validation of BTS' Mould Risk Indicator, allowing us to ensure that we provide accurate insights.

More than 400 rooms were monitored in the field trial, with **a significant mould risk identified in around 1/4 of them**. Unsurprisingly, bathrooms were found to be at particularly high risk, but more surprising and worrying was that **a significant risk was found in more than 1/4 of all bedrooms**. Given the time spent in the bedroom and the increased risk of respiratory illness that the presence of mould causes, there's a clear message that the risk needs to be better understood and managed.



### Refine with Advanced Measurements

Optionally, add measurements of airtightness, U-values or Heat Transfer Coefficients to better tailor the analysis to the building and receive more detailed diagnostic information.



### Mould Risk Indicator

<b>Data inputs</b>	Temperature accurate to $\pm 0.5^{\circ}\text{C}$
<b>Building Information</b>	<ul style="list-style-type: none"> <li>Location</li> <li>Construction details to estimate U-value</li> <li>Optional inputs: measured U-value, Heat Transfer Coefficient and airtightness</li> </ul>
<b>Outputs</b>	<ul style="list-style-type: none"> <li>Overall Risk Score, ranked 0-100</li> <li>Risk score for each room monitored, ranked 0-100</li> <li>Vapour pressure excess analysis according to BS5250:2021</li> <li>Analysis of compliance with guidance in UK Building Regulations Approved Document F</li> </ul>

Compatible with sensors and smart technologies from:

**Elitech**<sup>®</sup>

**AIRTHINGS**

**PURRMETRIX**

**Tinytag**



### Contact

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