

EWI Consultants Limited



ENERGY

WALLS

INSULATION



'Experience is the key'

EWI Consultants Ltd has over 25 years of experience in the External Wall Insulation and render markets, in addition to that of the general insulation industry. The experience EWI Consultants Ltd has acquired covers all aspects from conceptual designs of new products, specification and report writing, compliance assessments, site supervision, post installation surveys, and site investigation.

EWI Consultants Ltd was established by Gary Peacey who has worked in the construction industry for over 35 years, and is well known for his passion, especially regarding the future of the external wall insulation and render industry.

The future of the EWI / Cladding industry will be subject to change and a large part of this change will be the requirement for more independent professionals. Experts in their field who can provide advice, reports and surveillance, either as part of a designated team or as required at specific critical points of the project.

EWI Consultants Ltd is an independent eye, to not just help assess the installation and application of materials, but also the compliance of information supplied prior and during each individual project.

Experience to enhance your team or project.



Independent advice for everyone

With the nature of business changing and companies looking at their overheads, utilising specialist knowledge as and when you need it is quick, efficient, and cost effective.

For organisations who rely on information from outside sources, there is a need to ensure that the advice given is correct and matches their set requirements.

If you are a designer, homeowner, or researcher, the internet is a great place for information but in order

to truly evaluate that information, then specialist assistance may be required.

As EWI Consultants Ltd provide a range of pricing structures, no job is too big or too small. Hourly, half day, or full day rates are available in addition to individual pricing for our Concept 2 Completion (C2C) Service and site monitoring programs. Retaining rates to guarantee our services throughout the year, can also be provided.



'Quality assurance'

The CONCEPT 2 COMPLETION (C2C) service can provide either a (full, or part) quality assurance program to ensure that a performance criteria is written, and adhered to throughout the project.

Our service can provide expert independent verification for any proposed amendments to the specification, including analysis of any changes with regard to the thermal performance and condensation risk.



Survey

The early stage identification of any potential issues or detailing problems will help with the overall program delivery and cost, as these can then be written into the specification for the tender package.



Design

Assistance with early stage design can help establish a set of minimum defined details for the tender process. The earlier key details are identified, the more comprehensive the initial tender package.



Site Monitoring

Independent monitoring of the installation process provides peace of mind that the works are being inspected correctly and that the specified detailing is being adhered to. A full reporting service is also available.

Reviews of tendered systems for compliance, along with advice regarding thermal detailing and structured site monitoring during the installation process, will help ensure that the scheme meets with the originally proposed criteria.

Post installation inspections (including thermal imaging surveys) also help to independently verify the as-built thermal performance of the installed measure.



Specification

Independent specifications can be produced to a project benchmark level to be issued with tender documentation. This includes requirements for addressing thermal bridging details to ensure a more accurate tender process.



Procurement

A review of the returned tender information and compliance with the original specification is essential to ensure that the performance criteria is maintained with any substitutions offered on a cost efficient scale.



Post Installation

Post installation surveys and reviews can help determine actual as-built performance. Thermal imaging surveys can also demonstrate thermal compliance.

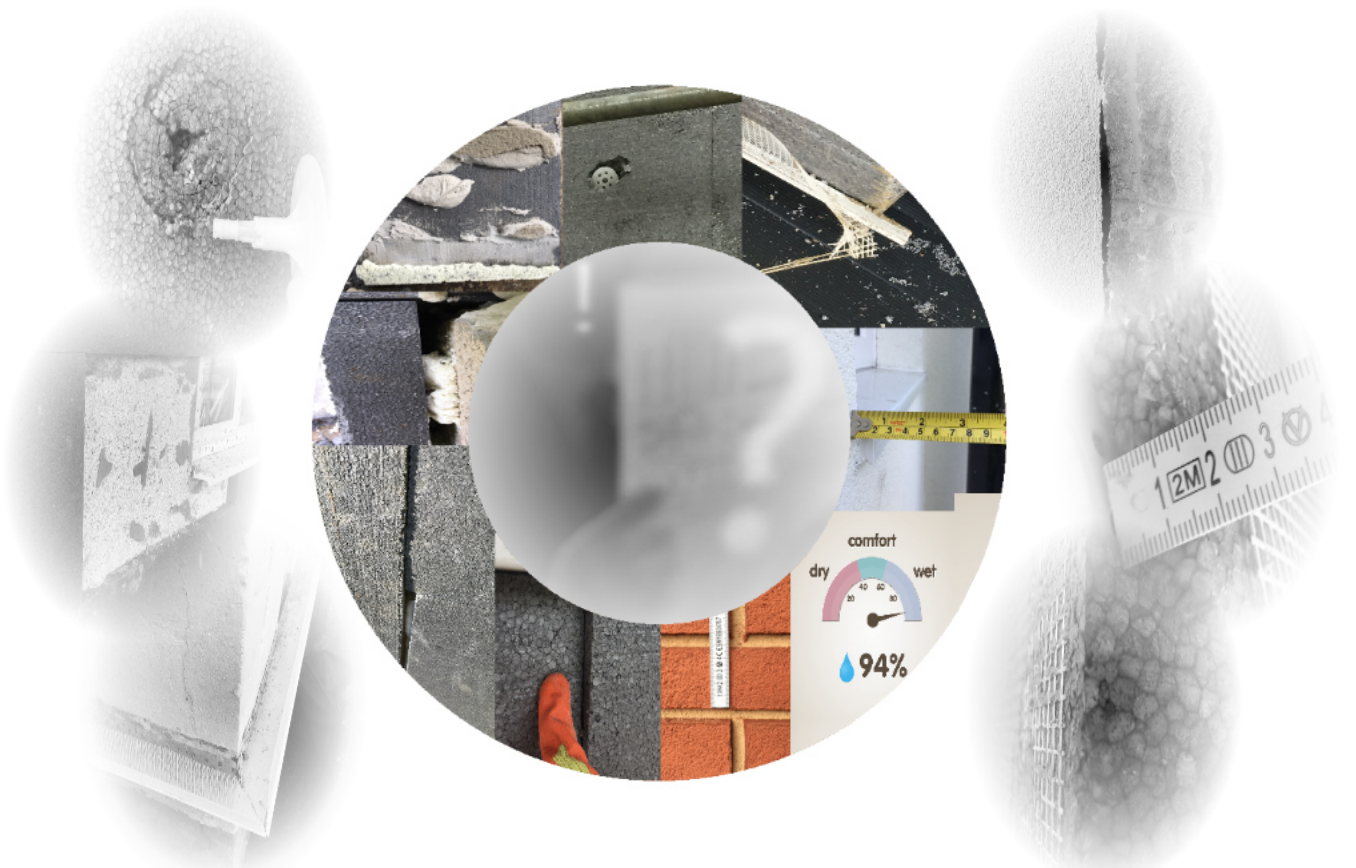


'Ensuring compliance'

Technical monitoring of installations is becoming more important within the industry and, with further developments expected in associated regulations, ensuring compliance is essential.

Onsite technical monitoring is not just about having a black and white list of acceptable methods and details; with existing properties you are dealing with

inconsistencies in the substrate, detailing, and landscapes, whereby generic installation and specification methods may not be suitable. It is important to have an in-depth knowledge of the practicality of the systems installed so that any deviations from the original documentation can be verified as acceptable to the performance criteria required.



Our technical monitoring service will provide a report of the installation, either in our own format or your company's desired format. Onsite weather and humidity details will be taken and recorded. As part of this service we can also take intermediate thermal images to give guidance on the unseen installation and whether there appears to be any potential for thermal bypass.

Technical monitoring is available for both new build and refurbishment schemes. A full program of monitoring can be arranged where there is a need for a weekly or bi-weekly visit to the site. Alternatively, there is the possibility to use the service as a periodic or one-off drop-in service.



'A problem solved'

In the unfortunate situation where there may be a problem with a building that has been insulated or rendered, then a swift and expert review of the property is required. Identifying the cause of a problem is not always obvious, as the visual issues may only be a consequence of the actual problem. This can often be seen with defective seals and detailing, which can lead to moisture ingress which appear at different points in the building.

EWI Consultants Limited will provide a full onsite investigation of the property (including damp meter readings and thermal imaging) to track where issues are originating from. This, plus the experience of monitoring and investigating over 5000 properties within the UK, will ensure that you get the best possible independent advice on the problem, in addition to any potential remedial action required.



In solving a problem, there may be many and various processes undertaken. Initially, where possible we would always try and make sure that these are non intrusive methods. However, it may be necessary to take an intrusive approach in core testing and inspecting to ascertain the cause of the problem. Investigate the **problem** - Identify the **cause** - Produce the **solution**.

Some potential issues:

- Lack of cavity insulation or slumping.
- Moisture ingress causing render delamination.
- Stress movement or lack of stress patches.
- High moisture content due to poor details.
- Pillowing effect of insulation boards.
- Poor or unfinished detailing.



'Support when you need it'

Providing support for your business, when you need it most. Being able to cope with spikes in the demand for technical information can put companies under undue pressure, and having a greater control of your overheads is important within an industry well known for its commercial fluctuations. EWI Consultants Ltd offer a range of technical support services which can be engaged on a long-term or single-use basis.

Outsourcing specific technical requirements can be difficult within the insulation industry as specific knowledge and experience is required. With 35 years of experience covering most of the technical support services within the insulation and render sector, our services can be used to help utilise the corporate branding of your own company if required.

EWI Consultants Ltd
Energy Walls Insulation

Outside surface resistance	1.1	
Slab-on-ground 1.5m	5.0	
Diaper coat	17.0	
Aspacolux Cement Board	4.0	
Aspacolux, half Row horizontal, 80 mm thick	4.0	
TR 200 Thermal Breaker Mortar	5.0	
Rockwool Pathrock Duo 50k (60mm to 230mm)	200.0	
Insulation Mortar (IS 1710)	0.0	
Aspacolux Cement Board	12.0	
Aspacolux, half Row horizontal, 2 mm thick	2.0	
Rockwool Flock 50k	30.0	0.0
Polyethylene D 15mm	0.1	0.170
Gyproc FUTURE	19.0	0.238
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Inside surface resistance	-	-
Total thickness	298.6mm	
U-value = 0.181W/m²K		

M21 Insulation with rendered finish

To be read with Preliminaries General conditions. The details contained within this proposal are based on information available at the time of writing and covers the installation of EWI Company products. EWI Company cannot be held responsible for unforeseen site conditions or for the performance of materials within the system other than those manufactured, supplied or traded by EWI Company. The requirements of all relevant British Standards and Industry Codes of Practice should be complied with at all times. All clauses that are not applicable should be deleted.

GENERAL / SYSTEM REQUIREMENTS

1.20 SURVEY OF EXISTING WALLS

- **Timing:** Before starter work covered in this section.
- **Objective:** To confirm suitability for application of the external wall insulation system.
- **Survey report:** Submit covering all relevant matters listed below:
 - A schedule of repairs and / or additional works necessary to render the substrate suitable to receive the system.
 - A schedule of services, fixtures and fittings requiring removal to facilitate installation of the system.
 - Any other information considered relevant.

EXTENT OF SURVEY WORKS

The following items should be allowed for:

- Existing services should be removed and replaced following the completion of work. All renderwork should be suitably removed on a temporary basis, ensuring that no rain or water can affect the surface of the External Wall Insulation system during installation.
- All protrusions through the system like chimneys, waste pipes, overflows, air bricks etc.) should be extended accordingly. Allow for services to the extent above.
- Allow for all pointing modifications associated with the installation of the system. Due care should be taken where there might be the necessity to move drainage entry points.

Technical Support Services:

- Specification writing.
- U Value calculations.
- Condensation risk analysis.
- 2D detail drawings.
- Technical blog writing.
- Technical reports.
- Desktop studies.
- Training support.



'Checks and evaluations'

The Peace of Mind Service is a new, low cost concept supporting all clients; whether you are a home owner having new rendering undertaken on your property, or a large scale organisation with multiple properties. Clients can provide details of the proposed works (such as photos and technical information) and EWI Consultants Ltd are able to review the data supplied.

Upon reviewing the information, we will then compile a desktop study report for issue and look to comment on the progression of the works and technical compliance. This can be undertaken during any stage of the project, whether it is a compliance check on the specification issued for the property, works as they progress, or post installation prior to the final sign-off.



The Peace of Mind Service can be used as a single check point on a project or, alternatively, can be used at critical points of the installation program. The cost for this service starts at just £49.00 and is dependent upon the scale of the project and complexity of the installed products and systems. This is a visual desktop report and therefore only a guideline to compliance, but can highlight some unforeseen issues, such as detail problems or can

generate questions to be asked of the supply chain. It can also offer Peace of Mind that the progression of the work is compliant with the specified requirements.

For further information or a quote for the Peace of Mind Service, please contact us by email at info@ewiconsultants.co.uk.

CLADDING

**EXTERNAL WALL
INSULATION**

**COMPLIANCE
MONITORING**

TRAINING

RENDERS



SURVEYS

TECHNICAL SUPPORT

DESKTOP STUDIES

**CAVITY
WALLS**

**INTERNAL WALL
INSULATION**

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