Refurbishment and Regeneration EWI Solutions
Edward Woods Estate, Shephards Bush
Extending the life of three 1960s residential tower blocks by significantly improving the insulation, thereby increasing thermal comfort and making the flats more economical for residents to heat, whilst improving the external appearance of the buildings.

Your long term refurbishment partner

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In fact, using external wall insulation is one of the best ways to protect a building and its occupants from the environment. This type of energy efficiency measure is based around adding high quality insulation slabs to the external fabric of a building, which are then protected by specialist exterior render.

Our Systems and Solutions

Our REDArt® external insulation systems are ideal for large refurbishment programmes as they can be installed unobtrusively, without the need to move residents out - a logistical challenge for many social housing providers.

A cost-effective alternative to demolition and reconstruction, refurbishment causes less disruption to communities and residents, whilst also extending the life of the building.

However we recognize that products and systems are only part of the challenge of any refurbishment project.

Ensuring the successful delivery of any project requires planning and detailed execution, as a result we provide support and tools to ensure a smooth total project delivery, from pre-project, helping you to develop the business case, to project installation and post project analysis and review.

Ensuring Smooth Project Delivery

1. PRE-PROJECT
   - Developing a Business Case
   - Design and Planning
   - Technical Detailing

2. PROJECT DELIVERY
   - Community Liaison
   - Bespoke Logistics
   - Installation Monitoring
   - Accredited National Installer Network

3. POST-PROJECT
   - Installation Sign Off
   - Post Project Review
   - Maintenance Training
   - Recycling

Why ROCKWOOL?

Whether you’re a social housing provider, an architect or a contractor, ROCKWOOL has a solution for your specific needs.

For decades, our insulation has been widely used on social housing, as well as commercial and new-build properties throughout the UK and Europe.

A range of solutions for your individual requirements
Technical Detailing and System Specification

In order to ensure the correct system for your project, we utilize the technical expertise of our in-house Architectural Design Consultants to run a detailed assessment of the building, including substrate analysis, providing a review and recommendations on design and details, including any difficult to treat areas.

Our Technical Team are also able to provide the following services:

- Wind Load Calculation
- BBA Accredited Thermal Performance Calculation
- Condensation Risk Analysis
- Acoustic Performance Analysis
- BIM and CAD Detailing
- SAP Assessment.

Developing a Solid Business Case

Understanding total project requirements are key to ensuring success from start to finish. With an experienced team of Business Development Managers we can act as a consultant to help you develop a detailed business case, undertake site surveys and determine aesthetic requirements on an individual project by project basis.

Developing a Solid Business Case

Energy efficiency and cost savings are usually a key consideration for any refurbishment project. Demonstrating return on your investment is often not easy to assess/achieve. In order to help understand that return on investment we have developed a SAP Tool that can provide indicative energy and cost savings per dwelling, along with the SAP rating improvement.

Whether you’re aiming to reduce the burden on tenants or improve your SAP rating, we can help you build and develop a structured business case.

Design, Aesthetics and Planning

Whilst the energy and thermal efficiency improvements are crucial, the aesthetic improvements of any regeneration scheme cannot be underestimated. A choice of colors, finishes and textures are vital in achieving the right environment.

As part of our planning and designing a business case we provide photo realistic representation of your finished project. This visual transformation can be vital in a resident communication plan.

Before... …photo realistic representation... …and after

Bespoke Logistics

The result of the pre-consultancy work is a comprehensive and detailed project plan which will also include a review of on site logistics. Throughout your project, our dedicated Systems and Solutions Team will liaise with all relevant parties to ensure that products are delivered according to your specific project requirements.

Recycling Requirements

Our material is 97% recyclable as it is made out of natural materials and will help support waste management regulations for sites and clients.

Before the start of any project our Systems and Solutions Team work with you to identify the recycling requirements for the project, enabling you to recycle ROCKWOOL insulation via our ROCKCYCLE® service and reduce your requirement for landfill, reducing costs.
Once the project is underway we understand that there are a number of areas to consider in order to ensure successful project delivery.

Communication with residents regarding the nature of the project is key, our National Sales Team can assist with resident days. Also important are bespoke logistics to ensure ordering and delivery is handled efficiently. In addition we have a network of approved installers backed up by our national team of Installer Support Technicians who will monitor projects to ensure correct installation of the system.

**Community Liaison**

We recognise the importance of good communication and resident communication is often the start point for any project, keeping tenants informed of activity, project plans and what they can expect throughout and at the end of the process.

To support the delivery of the project, our National Commercial and Installer Support Teams are on hand to engage with all stakeholders, including; architects, contractors, residents and social housing landlords, via attending regular project meetings and resident open days, communicating the system benefits via a range of supporting marketing collateral.

**On-site Project Management**

Our national team of on-site Project Managers are in regular contact with the site manager, using the latest technology to ensure the project runs smoothly, from making sure the installation contractor is installing properly throughout, to checking that the detailing and application match the original specification.

**Technical Compliance**

Although a detailed assessment of the substrate will take place, we will also monitor the integrity of the substrate throughout to ensure fixing details are adhered to and applied in the correct conditions. Our team of National Installer Support Technicians make regular site visits throughout the entire project, providing advice and making regular quality checks, from which feedback reports are generated for the client.

**Accredited National Installer Network**

With a comprehensive network of trained and accredited system installers we can help you identify the right partner for your specific project. Or if you have a recommend installer we can train your preferred contract.

**Want to use your own DLO?**

We can also train your DLO (Direct Labour Organization) or you can choose ROCKWOOL approved installers to provide subcontracting. Through our external wall insulation training courses, DLO’s can use their own local labour to install and maintain insulation on their housing stock, whilst providing future employment opportunities for residents.

The wider economic and social issues often found in high density social housing areas are also recognised and addressed through apprenticeships within the ROCKWOOL installer network, in some cases leading to job creation.

With pressure on public finances, we recognise that private sector organisations need to do their bit to support communities to thrive and give individuals the skills they need to succeed.

To achieve the twin goals of empowerment and funding we form strategic partnerships with organisations to access funding for improvement works as well as training and development programs.
Once the project is completed the installation is signed off by our installer technician and any required guarantee is issued. Any leftover insulation can be recycled at our plant in South Wales.

We will also work with you to conduct a post project review to ensure all parties are satisfied with the outcome.

**Installation Sign-Off**

Having been involved at the early stages and throughout, our team of National Installer Support Technicians will be on hand to check that the system has been installed in line with the agreed specification.

**Tenant Satisfaction**

Tenant engagement is important too, so ROCKWOOL will provide the tenant with a detailed pack which will help to make sure that the system continues to function at its best. Providing information on what measures have been taken, the benefits of External Wall Insulation and maintenance of the system.

Always keen to understand not just the financial but also the social impacts we have invested in working with the London School of Economics to undertake research into the social implications of refurbishment work. We’d like to extend that scope of research, therefore happy to discuss further projects which you may be interested in reviewing.

**Post-Project Review**

As part of overall project completion we will carry out a post-project review, assessing areas for improvement and future development.

**Maintenance and Repair**

As part of any good practice, buildings should be routinely inspected and maintained, based on several years of experience we will advise you on what to look out for and provide advice and guidance on maintenance and building management.

**Recycling**

At the end of the project we can arrange to recycle any leftover insulation material, which is 97% recyclable, via our ROCKCYCLE® Service, reducing the need for landfill.
Stone Wool - The Benefits

ROCKWOOL External Wall Systems comprise a decorative and protective finish applied onto a stone wool insulation layer. It is the stone wool, which forms the core of our system, that provides a variety of natural mineral properties including:

- **Fire Resistance**
  Exceptional fire protection for improved building and occupant safety during and after the installation process.

- **Superior Acoustics**
  Special fibrous nature of ROCKWOOL helps reduce and dampen noise from both inside and outside the building.

- **Dimensional Stability**
  Made from stone it performs for the lifetime of the building and does not expand, contract or degrade, continuing to perform year after year.

- **Vapour Permeability**
  Because ROCKWOOL insulation can ‘breathe’, it can be used in constructions which reduce the risk of condensation by allowing natural drying out of the building fabric.

Our EWI System

In addition to these core benefits of stone wool insulation our Façade System range has been designed to significantly improve the thermal performance and appearance of a building.

Along with providing warmth to occupants, ROCKWOOL external wall insulation has a number of benefits:

- Insulation is positioned on the external face of the building keeping it warm and dry.
- Stone wool insulation helps to create vapour permeable systems which help avoid interstitial condensation.
- Energy bills can be reduced through improved thermal performance.
- A2 Eureclass non-combustible systems with no restriction on building type or heights based on fire.
- Acoustic performance improved to make a more comfortable living environment.
- Range of finishes from silicone, dry dash to brick effect.
- Can meet Enerphit performance criteria.
REDArt® Silicone external wall insulation system offers triple value - thermal and weather protection plus an attractive exterior for new build and refurbishment projects.

- Available in a range of over 200 colours
- Enables you to achieve a finish appropriate to the building’s character and context
- Suitable for all exposure zones.

Further details on REDArt® Silicone

Due to screen calibration or printer quality, the colours in this colour chart are purely illustrative in nature and may not be an accurate representation of the final tinted product.

For additional colours and finishes please contact: systems.solutions@rockwool.co.uk
**REDArt® Systems**

Silicone • Dash • Brick Effect

**REDArt® Dash external wall insulation system** improves the energy efficiency of a building’s external envelope whilst providing a durable, decorative dry-dash finish.

- Available in a variety of aggregate colours and sizes
- Combines a traditional dry-dash finish with the benefits of EWI
- A durable and protective dry-dash finish.

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**Available colours**

- Ashton Cream
- Brightstone
- Classic Spar
- Derbyshire Spar
- Harvest Spar
- Iris
- Polar Black & White
- Polar White
- Sunset
- White Calcined Flint

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Further details on REDArt® Dash.
**REDArt® Systems**

RedArt® Brick Effect external wall insulation system improves the energy efficiency of a building’s external envelope whilst providing a durable classic brick effect finish.

- Quick-to-apply render system
- Range of colours to suit the local environment
- Can be used in conjunction with other RedArt® systems.

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BrickShield® is a BBA approved, insulated, external wall cladding system with a real brick finish.

- Available in a range of Standard, Premier and Premier Plus real clay brick slips
- Compatible with other external cladding systems
- Weatherproofs the wall, protecting failing and porous brickwork and masonry

BrickShield® Adhesive

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For additional colours and finishes please contact: systems.solutions@rockwool.co.uk

Further details on BrickShield®
Further Information

ROCKWOOL also offer a wide range of other refurbishment solutions such as cavity wall insulation, blown and rolled loft insulation and flat roofing insulation.

For further information on any ROCKWOOL Façade Systems product or service, contact our helpful Systems and Solutions team:

Tel: 01656 868 445
Email: systems.solutions@rockwool.co.uk

Visit our website for further information on insulation products and services available: rockwool.co.uk