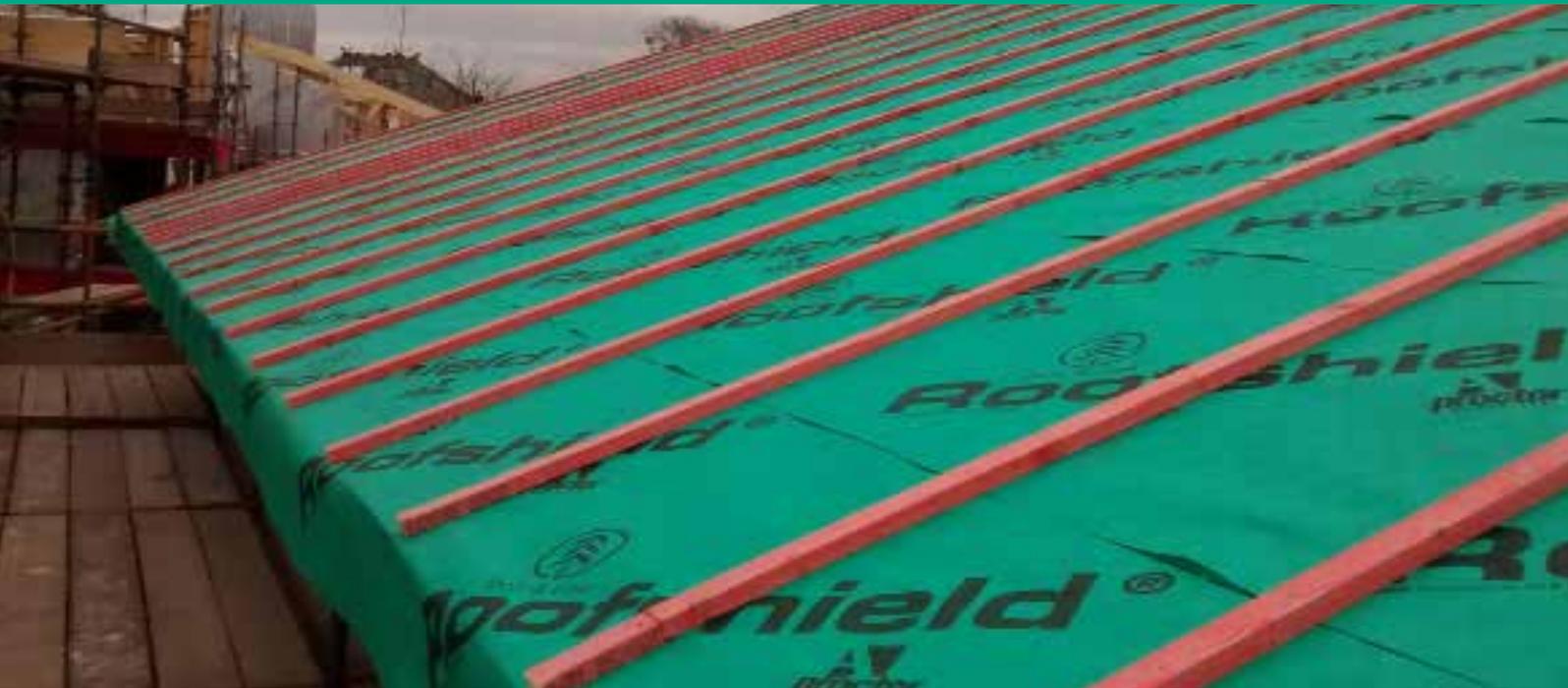


Roofshield

CASE STUDIES





Roofshield is the highest performing breathable roofing membrane on the market, and has been independently tested for compliance with all UK wind zones as defined in the new BS 5534 standard.

Roofshield is a vapour and air-permeable underlay (VPU) for pitched roof applications. First launched in 1996, the product's unique blend of physical properties has seen it consistently outperform not only competing vapour permeable underlays, but also traditionally ventilated roofs.

This booklet showcases some key examples which demonstrate Roofshield's abilities across a diverse range of projects.





BELFAST CITY HALL REFURBISHMENT

When Queen Victoria officially declared Belfast to be a city in 1888 it was agreed that a new city hall was needed to reflect this change in status. Belfast City Hall opened its doors on August 1st 1906.

Costing less than £500,000 to build, the city hall was designed by Alfred Brumwell Thomas following a public competition, with his winning classical renaissance design being constructed by the local firm of H & J Martin.

During 2009, the historic building underwent both internal and external refurbishment. An integral part of the roof refurbishment saw architects Consarc Design approving the use of Roofshield high performance breather membrane and main contractor Grahams of Dromore appointing roofing contractor D.Harkin Roofing Ltd to carry out the installation.



A COMPLEX ROOF DESIGN FOR ABERDEENSHIRE HOUSE

The construction of a unique and innovative private house in Aberdeenshire successfully incorporated Roofshield breather membrane to provide a range of benefits.

The architectural form is particularly distinctive, being circular with a split dual pitch roof. The construction is based on a high thermal efficiency timber frame using Scotframe's Val-U-Therm system. The roof's construction was particularly difficult due to its geometry, requiring a solution almost like slating the inside of a bowl. A total of 2.5 tonnes of Burlington Best random width slate was laid.

Being a complex roof, the roofing contractor John Rhind Slaters wanted to be sure that the best vapour and air permeable membrane was used.

Roofshield's unique vapour and air permeability characteristics allow even the most complex of pitched roofs to breathe without the need for traditional air gaps or secondary venting products. Roofshield is as easy to install as traditional roofing felt.

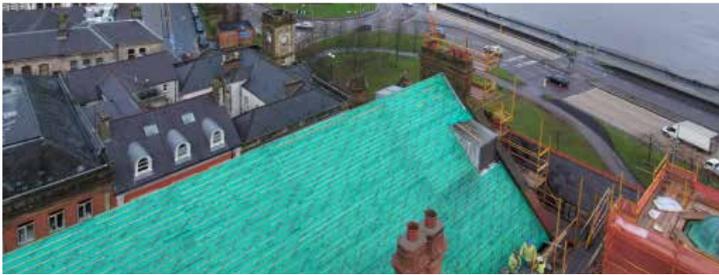
The product's very low vapour resistance of 0.065MN/g combined with high air permeability minimises interstitial condensation without the requirement for a vapour control layer. Roofshield provides a robust and dependable solution that can be specified with confidence.

REFURBISHMENT

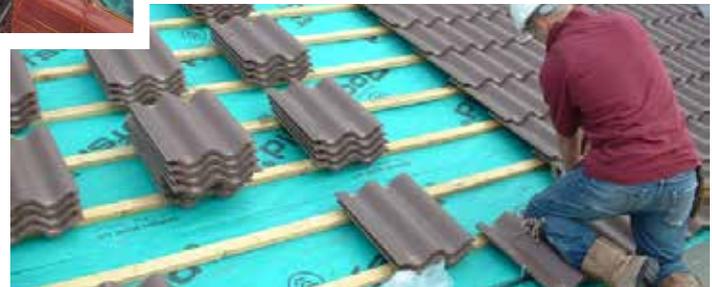


HOUSING

BS 5
COMP



COLD ROOFS



WARM ROOFS



CHURCHES



UNIQUE DESIGN

534 LIANT



COLLEGES



BARN CONVERSION



ROOFSHIELD USED IN REFURB OF ICONIC ST ANDREWS BUILDING

Roofshield was used as part of the roof refurbishment at Hamilton Hall, St. Andrews, a Grade B listed building which overlooks the 18th green of the Old Course, a historic golf venue. The benefits offered by the high performance vapour and air permeable membrane were significant for this project, including its very low vapour resistance, which combined with high air permeability reduces any risk of interstitial condensation and means there is no requirement for a separate vapour control layer:

The hall has been transformed by the refurbishment, returning it to its glory days and creating 26 luxury apartments, a members lounge, restaurant and a public bar and grill. The building's original façade has been reinstated with traditional sash-and-case style windows, and a slate-covered mansard roof has been constructed.

In addition to the product's credentials as a robust and dependable solution, the track record of the A. Proctor Group and the technical back-up the company provides throughout design and installation were key reasons for the product's specification.



MESSINGHAM PRIMARY SCHOOL EXTENSION

Roofshield vapour and air permeable underlay was installed on the 1400m² roof extension at Messingham Primary School, Scunthorpe, for client North Lincolnshire Council.

Following discussions with the A. Proctor Group's team of experienced technical advisors, the benefits provided by the high performance Roofshield membrane were obvious to the project's specifiers. The combination of very low vapour resistance combined with high air permeability was the key factor for the school in choosing Roofshield.

Roofshield's impressive track record of success, plus the comprehensive specification advice provided by the A. Proctor Group throughout design and installation (and the product's full BBA certification for warm and cold roofs) gave the client peace of mind that the specification would provide the performance the school needed.



ROOFSHIELD IS TOP OF THE CLASS IN BELFAST

D. Harkin & Co from Londonderry used 1500m² of Roofshield breather membrane for the roof refurbishment of the Lynn Library at Queens University in Belfast, which required a major restoration comprising new insulation, membrane and slates.

Roofshield is the best performing breather membrane on the market providing the highest vapour permeability available, together with the added benefit of being air permeable.

Due to the membrane's exceptional performance, Roofshield is fully BBA & NHBC compliant for both warm & cold roofs, without the need for vents or a vapour control layer. Due to the savings this provides, Roofshield demonstrates that increased performance need not mean increased cost.



SENSITIVE REFURB FOR ST WILFRID'S CHURCH

St. Wilfrid's Church in Burnsall is steeped in history, with its oldest part, the South Chantry – otherwise known as the Lady Chapel – dating back to the 12th Century.

The Parochial Church Council of St Wilfrid's embarked on a refurbishment project which posed challenges due to the historic existing architecture and the need to protect the valuable contents contained within. When it came to re-roofing, the specifier had to have absolute confidence in the materials used.

Blackett-Ord Conservation Architecture of Cumbria specified Roofshield as a high specification vapour permeable underlay which would be ideal for the job partly due to its ability to be left exposed for up to four months prior to the roof covering being installed.

Roofshield is suitable for use in both warm and cold roof applications without the requirement for ventilation to the roof space. It is fully BBA compliant, and due to its additional air permeability benefits, it does not require a vapour control layer to be installed.

The contractor, Crighton Conservation and Steeplejacks Ltd was able to install the Roofshield membrane within a fully supported application so that the historic rafters were left exposed below.



“I believe the success of the A.Proctor Group is down to a solid foundation of innovation backed up by an excellent loyal and committed team, every one of them playing an important role in our continued success. Scotland provides us with a unique platform to launch our ideas, systems and products. I am fiercely proud of this heritage and our brand.”

Keira Proctor
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