



Flat to Pitched Roofing

“A lifetime cure for persistent waterproofing problems ...”

Why Convert ...

Whilst flat roof membrane technology has come on in leaps and bounds over the past decade, there are still many buildings suffering as a result of poor design principles and working practices at their inception.

Often consistent water ingress has rendered roof structures beyond repair and insulation useless, resulting in fairly intensive refurbishment being required.

These old and problematic flat roofs can be transformed and revitalised with the new, innovative **Langley Waterproofing Flat to Pitched Roofing System**.

With minimal disruption to occupants during installation, a Langley Flat to Pitch conversion provides an aesthetically pleasing solution to ongoing waterproofing problems, whilst importantly adding value to your building.



It's all in the Design ...

For many years now, most, if not all, flat to pitch conversions have been let and constructed on a "design and build" form of contract.

However some of our clients have expressed concerns about "not being in control" or about "not having the most visually pleasing of completed projects", and "not being included in the design loop".

Having addressed most, if not all, of our client's concerns, we at Langley Waterproofing Systems feel we have a new and innovative approach to one of roofing's most technically challenging disciplines.



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The System ...

Construction Principles

The Langley Waterproofing Flat to Pitched Roofing System is based around the following simple steps;

- A lightweight galvanized steel truss which is erected on site.
- This framework is then mechanically fastened to the building structure.
- Typically it is then covered in a breathable membrane and battens.
- Lightweight tile strips are then installed.
- The supporting steelwork and any additional battens for the aluminium soffit and fascia are also installed at this time.
- The aluminium soffit, fascia and rainwater goods can then be installed in one operation.
- The installation of down pipes, drain adaptors and new ground drainage can be completed once the scaffold has been removed.

Roof Finishes

Traditional roof finishes of clay, slate or concrete tiles can be considered and supplied, as well as a timber based truss system, however these material choices are dependent upon the building's ability to carry these increased loads.

With this more flexible approach, considered design and the wide selection of materials available, Langley can assist the specifier in considering any type of construction for a flat to pitched conversion.



The System ...

(cont)

Specialist Survey

When considering the suitability for flat to pitched conversion, it is vitally important at an early stage to ascertain whether the building will be able to support and withstand the loads to be imposed.

Therefore as part of the new approach, Langley will arrange for a structural engineer to visit site, report on the viability of the building to carry a conversion and, if required, prepare an outline design.

Planning Restraints

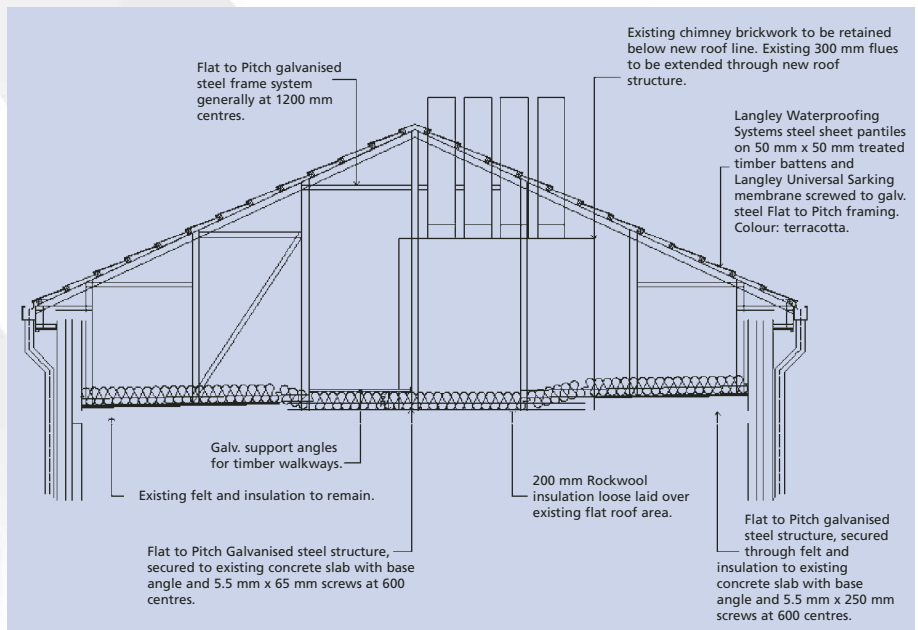
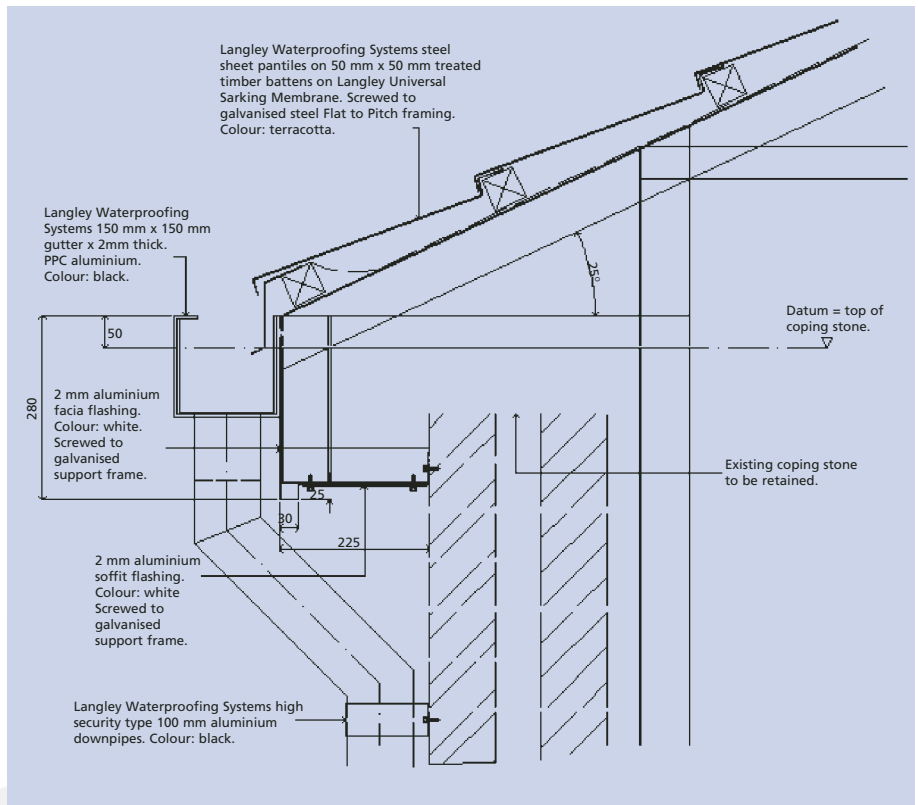
You will almost certainly require planning permission for your flat to pitched conversion. To assist you with this Langley Waterproofing will prepare; full before and after elevation drawings, samples of the roof finish being considered, together with samples of soffit, fascia and rainwater goods.

Specification and Design Assistance

Once your planning application is approved we can then prepare the draft specification and start work on detailing your design requirements. Full detailed drawings and engineering calculations will also be prepared at this stage as these will be required for your building control application.

On your approval of the design, and full tender drawings the final specification can be completed and will include;

- The flat to pitch structure, together with the truss layouts.
- Required holding down details.
- Firewall locations and details.
- Roof finish and detailing.
- Soffit and fascia system layout together with rainwater goods and flow calculations.
- Suggested ground drainage layouts.
- Full risk assessment.



Before ...



Under construction ...



Completed

Accompanying Services and Guarantees ...

Understanding what is required

A successful project is dependant on three integral factors, namely; Quality Product, Quality Design and Quality Workmanship.

At Langley Waterproofing Systems Limited we help our clients achieve satisfaction in these key areas by assuming a duty of care throughout the duration of any project.

This 'Partnering' approach in project planning and management is intended to eliminate unnecessary workload from our clients and give them complete peace of mind.

Product Specification

Langley Waterproofing Systems Limited have a range of products suitable for your requirements. It is essential to choose a suitable product in any given structural situation. Langley Waterproofing Systems Limited will assist you with that choice.

Designing the system into the project

Throughout the UK our Regional Technical Managers work tirelessly with our clients. These key people are trained and experienced to meet your expectations of a genuine 'Technical' Manager. They will meet, advise, and formulate specifications. This will include the design of specific details for areas of the project where standard practices will not suffice.

This information is analysed by the Technical Department at our Head Office, who in consultation with the Regional Manager, will compile full specification packages that are unique to our client's requirements.

The final documentation is a real aid to the specifying client, for use within official contract documents. This information can be supplied in a format to match standard forms of contract and electronically, to aid today's paper free environment.

Services with the system include:

- Roof surveys
- Specific detailing
- Thermal calculations
- Thermal imaging
- Budget pricing
- Full specification
- Detail drawings

Langley Listed Contractors

Unfortunately a correctly specified and designed project, being compromised on site by inferior contracting methods, remain all too common place. Langley Waterproofing Systems Limited understand the need to reassure our clients in this area.

Over our history we have formed alliances with the country's most proficient contractors. Our listed installers are constantly monitored for 'delivery' in the key areas of quality workmanship and contract management.

We can assist you with the contractor selection process and we insist on monitoring ongoing projects to ensure compliance with our demands and the criteria of our **Insurance Backed Guarantees**.

You can rely upon our ceaseless endeavours to partner with only the contracting companies, whose customer service principles mirror our own.

BBA Approval ...

It is important to our clients that certain products carry British Board of Agrément (BBA) approval. The existence of a BBA Certificate for many of our products is all the independent reassurance you require that our products are fit for purpose.



Single Premium Guarantees with no strings ...

The products and related services provided by Langley Waterproofing Systems give us the confidence in turn to provide guarantees for our systems. These warranties are available for up to a twenty year duration.

We have deliberately steered away from guarantees that are dependent upon the continuation of **annual premium payments**, by either manufacturer or contractor.

We have opted to supply single premium insurance backed guarantees that cover your specific project against failure in product, workmanship, design and third party consequential damage (membranes).

The principle behind our scheme is simple. In return for a single premium payment by **Langley Waterproofing Systems Limited**, your project obtains its own insurance policy. This policy is not dependent on any change in building owner or the ongoing existence of original contractor or supplier. Quite simply it is a form of guarantee you can rely on to still be in existence on completion of the period of cover.

The guarantees issue is dependent upon a survey by the insurance backer. Comfort can be taken from this independent approach. Only when both Langley Waterproofing Systems Limited and the insurance company are happy with the completed project, will the certificate be issued.

The success of our systems over eight decades speaks for itself, but it is comforting to know that a worthwhile guarantee is in place should problems occur.



Many Satisfied Customers ...

Langley Waterproofing Systems Limited would like to thank all our clients that have chosen to rely on our high performing waterproofing products and services over the years.

Below is just a small selection from our client portfolio stretching across the UK.

Accumen Facilities
 Anglia University
 Atkins
 ATP Group
 Aylesbury Dist. Council
 Baily Garner
 Barker Associates
 Barrie Vincent & Partners
 Basildon District Council



Bath & North East Somerset Council
 Brent Housing
 Brooke Vincent & Partners
 Building & Property Ltd
 Building Design
 Building Link Design
 Calfordseaden
 Capita Property Services
 Cardinal Property Design
 Carillion Services Ltd
 Chelsea B.S
 Chelmsford Borough Council
 Chesterton
 Chetwood Associates
 City of Nottingham
 Cluttons
 Colliers CRE
 Conrad Ritblat
 Countryside Properties
 Crawley Borough Council
 Dearle & Henderson
 Dobson & Poole
 Donaldsons C S



East Riding of Yorkshire Council
 Ellesmere Port & Neston Council
 Enfield Council Design & Maintenance
 Exeter City Council
 Fulcrum Design
 Harlow Council



Haywards Property Services
 Horsham D.C.
 HSB Partnership
 HSBC Bank
 Hunter & Partners
 Ingleton Wood C.S
 Keith Snell & Partners
 Kendall Kingscott
 King Sturge & Co
 Kingston upon Hull City Council
 Knight Frank
 L B Tower Hamlets



L B Hackney
 L B Hammersmith & Fulham
 L B Haringey
 L B Islington
 L B Lambeth
 L B of Barnet
 L B of Enfield
 L B of Greenwich
 L B of Hackney
 L B of Hammersmith & Fullham
 L B of Hounslow
 L B of Islington
 L B of Lambeth
 L B of Newham
 L B of Redbridge
 L B of Tower Hamlets
 L B of Waltham Forest
 L B of Wandsworth



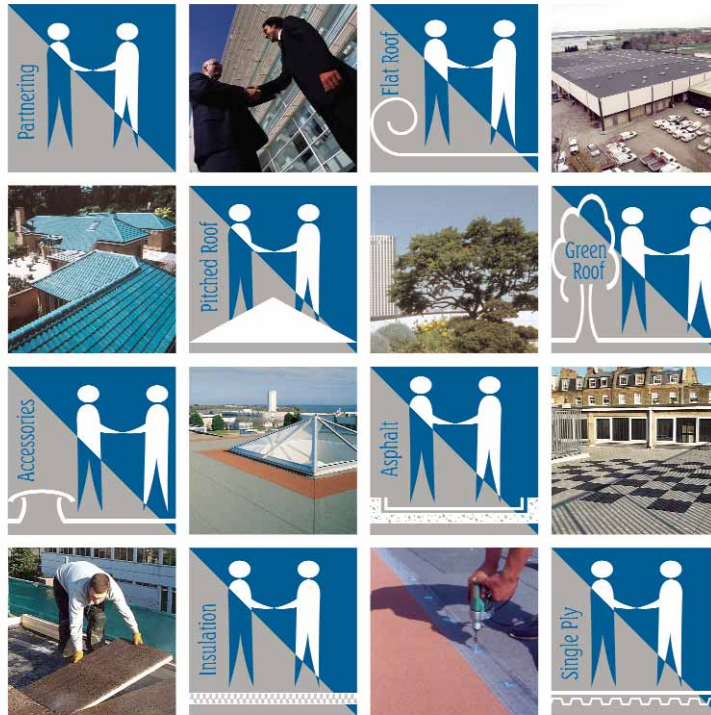
Lambert Smith Hampton
 M.E.P.K Architects
 Malcolm Hollis
 McBains Cooper
 Monk & Partners
 Paddington Churches
 Parkman
 Pellings
 Peterborough City Council
 Pinnacle Housing Ltd
 Poole Borough Council
 Portsmouth City Council
 Royal Borough of Kensington & Chelsea
 Serco Property & Design
 Shepherd Epstein Hunter
 Shropshire County Council
 Steve Frankham Associates
 Swansea University Estates



Tuffin Ferraby & Taylor
 UCI Cinemas
 Unicorn Consultancy Services Ltd
 W S Atkins Architects
 Watford Council
 Welwyn & Hatfield Council
 West Midlands Police Headquarters



West Sussex County Council
 William Martin & Partners
 Yorkshire Building Society



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