DELTA

ROOF SYSTEMS

TRANSFORMING ROOFS, TRANSFORMING HOMES

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Delta Roof Systems' range of products offer customers a truly unique and innovative roofing solution that is supported with a customer focused, architecturally qualified, design team that have over 30 years experience in building and product design.

The combination of cutting edge design, created using the latest technologies and coupled with closely supervised manufacture and pre-assembly of every project provide our customers with both reliability and confidence in our guarantee of a perfect fit every time.

The Delta Promise ensures that time on site is reduced and disruption to the home minimised. To do this, we invest in full professional training of all installers on all aspects of the roof design.

Delta is committed to delivering the highest standard of product, performance, durability and appearance and to ensure this as standard, independent structural engineers certify every product.

Additionally and as a mark of confidence in our superior roof systems, every Delta Roof comes with a 10 Year Guarantee – Delta Roof Systems stand the test of time.

Delta Roof Systems is committed to safe working practises for all employees and to the purchase of renewable materials wherever possible as well as the promotion of equal opportunities throughout its business.

Delta - transforming roofs, transforming homes and transforming the ordinary into the extraordinary.

Delta Roof Systems, one system, many choices

Delta Roof Systems – an ideal choice for New Builds.

Tried and tested, Delta Roof Systems were initially designed for new build Sunrooms or Home Extensions. The steel portal frame rests on concrete used in the floor construction and avoids the need to erect steelwork from the foundations. This enables walls to be built first and then the complete steel structure and roof to be erected in one operation usually over a two-day period.

Using this method the overall build time is considerably reduced and mistakes on site are avoided as all components are pre-made to order in advance. At Delta Roof Systems it is our attention to the fine details and options available that ensures a Delta Roof System adds the perfect finish to any home.

Delta Roof Systems – a superior choice for Conservatory Roof Conversions.

The Delta-lite roof is a development of the proven Delta System and was designed specifically for conservatory roof replacement.

In response to the common conservatory issue of being 'Too Cold In Winter' and 'Too Hot In Summer', the Delta- lite product is the perfect solution. With exceptional insulation standards and carefully selected construction and finishes, the overall weight is minimised so as not to overstress existing window frames. Structurally certified, with many unique features the Delta-Lite roof offers a superior and cost effective solution to transform your existing conservatory.

Delta Roof Systems – a perfect choice in Home Extension Projects.

The Delta Roof System is the ideal for use in home extensions. The Delta roof can be manufactured to any size, pitch or layout and is able to carry any finish even including stone tiles commonly used in the Midlands. The Delta-lite roof is also an option where concrete or heavier tiles are not essential.

Structurally certified, beautifully detailed and highly insulated, the roofs meet all building regulation requirements. The Delta roof is exceptionally quick to install with factory pre-assembly ensuring no mess and ultimate efficiency on site.

Sloped ceilings, roof windows concealed lighting are amongst the many choices available in a Delta Roof System which makes it the perfect choice for your home extension.

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External Finishes

Designed to carry any slates or tiles (including stone tiles commonly used in Midlands).

Insulation

Delta roof is a 'warm roof' system which uses the latest multi layer foil insulation over the rafters. No ridge or eaves ventilation is required, further enhancing the insulation performance. The timber rafters easily facilitate additional insulation. 80mm of PIR (rigid polyurethane foam) between rafters achieves 0.18 U value required to meet building regulations and this can be increased should even higher insulation quality be required.

External Fascias and Soffits

Detailed with PVC fascias and soffits projecting beyond the walls and windows for superb weather protection and traditional appearance.

Internal Ceilings

Ceilings can be plastered or timber sheeted. They can be either flat or sloped with the detailing above windows giving the appearance of traditional heads facilitating easy fixing of blinds and curtains. Recessed lights are easily accommodated.

Rafters

Timber rafters are used to provide better insulation quality and negate the need for electrical conduits. These also resist thermal movement and therefore prevent the risk of cracking in plastered ceilings.

Flexibility

Manufactured to virtually any size or shape the roof can link to existing roofs, be hipped back to valley gutters, rest on walls or window frames or many of the various requirements to meet the customer needs. The detailed product design overcomes many site issues such as existing building off square or the need to accommodate upper window sills below the ridge line thereby eliminating time spent resolving any details on site.

Snow and Wind Loads

The roof system is designed, as standard, to carry 600mm of snow (60kgs sq m) and resist storm force winds in addition to the weight of the roof, tiles and live loads. Heavier loads are allowed for if deemed necessary, depending on location.

The roof system is structurally approved for use throughout the UK and Ireland.

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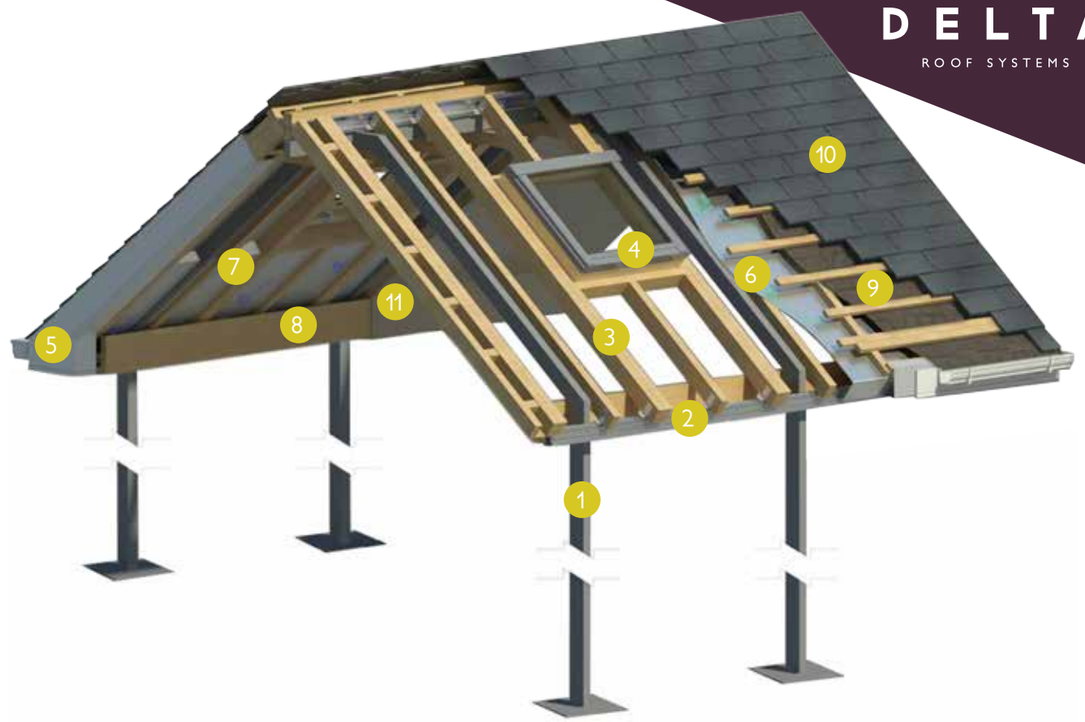

KEY:

1 - Steel portal frame fixed to concrete at floor level
2 - Aluminium ring beams
3 - Timber rafters
4 - Optional roof window
5 - PVC fascias & soffits
6 - Multi layer foil insulation
7 - Additional rigid PIR insulation
8 - Ceiling shaped for blinds & curtains
9 - Breathing felt
10 - Tiles or slates
11 - Plaster or sheeted celing

STRUCTURALLY CERTIFIED

10 YEAR GUARANTEE

PATENTED TECHNOLOGY

DELTA LITE

External Finishes

Designed to carry any slates or tiles up to 20kgs per sq metre - eg Tapco, Tegral, Decralite or Envirotile.

Insulation

Delta-lite roof is a 'warm roof' system based on the proven Delta roof and uses the same high-tech multi-layer foil insulation over the rafters.

No ridge or eaves ventilation is required further enhancing the insulation performance.
The timber rafters can easily facilitate additional insulation. 80mm of PIR (rigid polyurethane foam) between rafters achieves 0.18 U value required to meet building regulations and this can be increased should even higher insulation quality be required.

External Fascias and Soffits

Traditional appearance with PVC fascias, soffits and gutters the Delta-lite roof offers similar quality design, looks and weather protection as the Delta roof.

Internal Ceilings

Sloping or flat ceilings can be provided to receive a choice of finishes such as plaster or timber sheeting. Traditional appearance and detailing above windows facilitates easy and secure fixing of blinds and curtains.

Rafters

Timber rafters help provide high quality insulation performance. They also resist thermal movement thereby preventing plaster cracks in ceilings.

Flexibility

Delta-lite roof is available in many sizes and shapes and its detailed design allows for tolerances on site. This is particularly useful when fitting to existing frames which may not be same size or angles on all sides. Consideration has to be allowed for the strength of existing windows, but if there is doubt the Delta-lite roof can be specified with additional posts to transfer weight directly to the inner walls.

Snow and Wind Loads

The roof system is designed to carry 600mm of snow (60kgs sq m) and resist storm force winds. It is structurally approved for use throughout the UK and Ireland.

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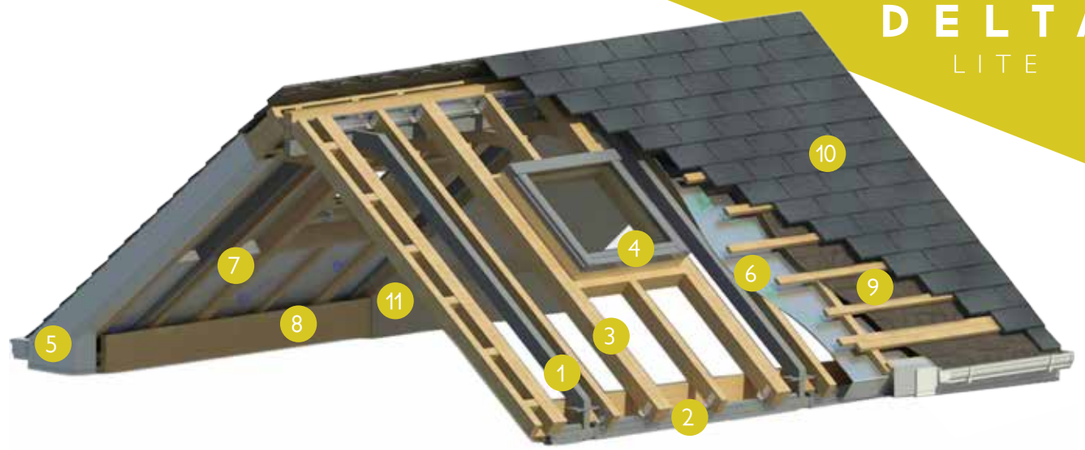
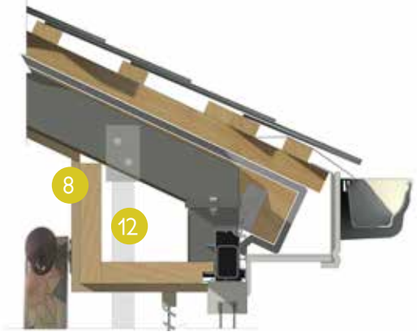
LITE



KEY:

1 - Steel 'A' frame
2 - Aluminium ring beams
3 - Timber rafters
4 - Optional roof window
5 - PVC fascias & soffits
6 - Multi layer foil insulation
7 - Additional rigid PIR insulation
8 - Ceiling shaped for blinds & curtains
9 - Breathing felt
10 - Tiles or slates up to 20kgs per square metre
11 - Plaster or sheeted celing
12 - Optional post



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PATENTED TECHNOLOGY

Our 4 step build process...

Step 1

Our build process starts with new or existing frames

Step 2

New basic steel structure is put in place

Step 3

Rafters are fitted and attached to the steel structure

Step 4

Roof is weather proofed and prepared for roof tiles

Planning and Building Control Permission

Planning Permission and Building Control Permission are often confused.

Planning regulations deal with the overall size, appearance and location of buildings or extensions. The majority of extensions are exempt from regulations provided they are under a certain size and are to the rear or side of a property and not facing a main road. Size, height, distance from boundaries and other limitations apply so it is always best that you check with your Local Planning Authority to see if application is necessary.

Websites which offer guidance are as follows

England and Wales	www.planningportal.gov.uk
Scotland	www.scotland.gov.uk or internet search - circular1/2012
Northern Ireland	www.planningni.gov.uk

Building Control requirements examine structural, damp proofing, fire resistance, insulation and many other elements of building construction. The need to apply for permission varies considerably throughout the country, even from local authority to local authority. Generally Scotland and N Ireland require application to be made. In England and Wales the picture is not always so clear especially for replacement roofs on conservatories or extensions. It is important that you check with your Local Building Control office or Local Council if application is necessary.

Delta Roof Systems will meet the requirements necessary for compliance with Building Regulations but this does not mean that application is not required.

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Delta Roof Systems, 48 CIDO Business Complex, Carn Drive, Portadown BT63 5WH
T: +44(0) 28 3835 4949 F: +44(0) 28 3839 4155