UniSIPS
Structural Insulated Panels
PIR Insulation

Walls & Roofs
High-performance, energy efficient, structural building system

Xtratherm®
More than insulation
Expect More

For over 30 years Xtratherm has led the way in developing innovative thermal solutions, through advancement in product performance and detailing, backed by a team that understands the technical issues and site practices in the UK & Ireland.

UniSIPS has been developed by UNILIN as a high performance Structural Insulated Panel System (SIPs) providing advanced thermal, acoustic and air tightness performances in a lightweight insulated panel. The UniSIPS solution for walls, floors and roofs provides low energy results for domestic, commercial and educational projects.

As part of the Unilin Group, Xtratherm has introduced UniSIPS to the UK and Irish construction industry. We provide a uniquely innovative product that offers many advantages for both the SIPs processors/OEMs and for the end-user. UniSIPS panels are manufactured under strict quality control procedures in one of the most advanced facilities in Europe. In-line fabrication ensures consistency and unrivalled quality of performance backed by extensive 3rd party certifications.

– Manufactured with PIR providing very efficient U-values
– Self-supporting and load bearing, quick and easy to assemble
– Available with Insulated lining for Passive Performance
– Excellent Thermal Bridging performance
– Offers design flexibility
– Wide dimension variability
– ‘Just in time’ procurement

Our Production Facilities

Xtratherm owns and operates two state-of-the-art production facilities in Ireland and the UK providing security of supply for a range of insulation products. We have the experience and expertise to deliver quality, whatever your market or size of project.

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“We have worked with Unilin over the last couple of years developing our SIP building system. We carefully selected their products over several other manufacturers because of their quality and ability to meet our exacting requirements. We hope that as our company expands in the UK we will be able to grow our relationship with Xtratherm to enable us to find new and innovative solutions to building and green construction projects.”

Carl Dodd, Architectural Director for Property Revolutions Limited

“The pair of semis was fully weatherproof within one working day, whereas a traditional room-in-the-roof house type would take approximately 3 weeks from roof plate to being fully covered. In total I would estimate that approximately 10 working days were saved by the Unilin method of construction.”

Construction Director, David Wilson Homes, UK

“At an early stage in the design development, it was clear that the roof deck of the new Performing Arts Building at Parliament Hill School would need to be light in weight and with a degree of prefabrication. Site, time, and cost constraints demanded a simple and effective solution. Unilin offered a structural insulated roof panel to meet our demands while also providing a factory finish to the exposed spruce plywood soffit.”

Construction Director, David Wilson Homes, UK

“We have been extremely fortunate to have worked with Unilin on our CarbonLight Homes project. They are a well-respected specialist within the construction industry and their support has been vital to the success of the project in ensuring that the homes achieve a high fabric efficiency and a recognised zero carbon status under the UK Government’s new definition. We are extremely proud of what we have achieved together.”

Paul Hicks, Design and Construction Coordinator for the VELUX Model Home2020 project in the UK

“Having worked with Unilin for many years we strongly believe their products to be the best available in the current market place. The panels give a high thermal efficiency and greatly reduce air leakage; they are the perfect solution when trying to achieve higher levels of sustainability.”

Ian Johnson, Director Tophaven Properties Northampton Limited
Product Benefits

Xtratherm UniSIPS is the ideal product when considering structural insulation solutions for wall, floor and roof panels. Technically advanced and thermally efficient, the load bearing panels provide a lightweight and economical solution to facilitate modern methods of construction.

In Walls, UniSIPS can achieve U-values as low as 0.10W/m2K to suit bespoke dimensions, meet the highest tolerances and provide an airtight solution with excellent thermal bridging results when used with Xtratherm lining boards.

Roof Panels can be pre-finished or ready for decoration, with a special acoustic panel for improved interior sound absorption. There is an Xtratherm panel for every application. UniSIPS panels are suitable for any type of roof covering – eg, traditional tiles, slates, concrete tiles, zinc etc, and for roof pitches up to 60°. This versatile system is suitable for both refurbishment and newbuild projects and has a full warranty. The panels comply with all European standards for quality control and thermal performance, meeting and exceeding Building Regulations requirements, and with BBA Certification (No. 02/3897).

Benefits for the client:

- The Xtratherm structural insulated panel is a high quality product that complies with all European standards – you can be assured it will be an asset to your project.

- Its simple uncomplicated design means it is durable, environmentally sound and cost effective. Its speed of construction means you move in quicker!

- By virtue of its structural nature and built in insulation you can create more roof space instantly.

- We have extensive technical knowledge and UK building partners, ensuring that our system solutions meet all relevant performance and Building Regulations requirements. You can have confidence that we will provide the “smart living” edge to bring distinction to your project.

Benefits for the specifier:

- Xtratherm is a large international manufacturer with the support and technical backup that you need to bring your project to life.

- It is technically a superior energy efficient product and complies with the most stringent UK building regulations. It is inherently airtight by design, not by complex details and unworkable specification clauses.

- Our range of products and solutions is suitable for virtually any project you can dream of. Contact us early in the design phase and we will help you produce cost-effective, fast track, buildable, environmentally sound projects that clients and builders want.

Benefits for the contractor:

- The Xtratherm way of building is a result of over 35 years of refining and developing highly insulated and innovative panels all over Europe and the UK.

- It is simple, practical, safe and fast to build with the correct planning and tools. That means it is cost effective, you don’t need special trades, or tools that you don’t already use.

- It is trouble free and watertight as soon as it’s built – because it’s a sealed roof/wall that avoids thermal bridging problems and condensation.

- You keep everybody happy by delivering on your promise to finish on time and on budget!

Unilin have been producing SIPs in Europe for over 30 years, where over 90% of the Dutch market, 25% of the French and 15% of the Belgian market use Structural Insulated Roof Panels. They are rapidly being adopted by the UK and Irish Construction Industries.
Product Detailing

UniSIPS advantages

- Can be used to create highly energy efficient buildings
- Can achieve air leakage values of 3 or better
- Controlled factory production of kits, for site assembly, minimises site wastage
- Reduced construction time on site, due to fast track panelised system
- Complete airtight and weathertight shell, enables following trades to start sooner
- Defects are vastly reduced due to factory controlled manufacturing, design and engineering processes

Internal walls

Load bearing and non-load bearing walls are constructed by our approved contractor network, usually from 89mm Kiln dried timber. For walls constructed from UniSIPS that will require services installed, it will be necessary to create a batten cavity with 25mm battens and plasterboard, alternatively, two layers of plasterboard fixed directly to the UniSIPS, chasing out the first layer of plasterboard to carry the services.

Party and separating walls

Robust Standard detail E-WT-1/2 is normally used

Fire stops

Current building regulations/standards should be considered with regard to requirements for the provision of fire stops

Fire performance

The UniSIPS system in the construction detailed below, when subjected to BRE Global Fire test to British standard EN1365-1 2012 achieved 90 minutes fire performance.

Loaded wall incorporating UniSIPS 174mm clad on exposed face with 2 layers of 15mm type f plasterboard and incorporating 2 electrical sockets.

The results were as follows:

- Load bearing capacity
  - 90 minutes
- Integrity cotton pad
  - 90 minutes
- Sustained flaming
  - 90 minutes
- Gap gauge
  - 90 minutes
- Insulation
  - 90 minutes

Other wall cladding details can be used, for specific requirements, please contact our technical services department

The following are examples of external cladding for Roofs

- Tiles onto treated tiling battens
- Slates onto treated timber battens
- Profiled metal sheets onto treated battens
- Flat roof membranes strictly in accordance with manufacturers details

Other roof coverings can be used, for specific requirements please contact our technical services department.

Thermal bridging

UniSIPS achieve less repeated thermal bridging, due to the continuous nature of the insulation. There are some unavoidable thermal bridges, where Structural timbers or steels are necessary to support the building point loads.

Please contact our Technical department for design considerations.

Passivhaus

Passivhaus standards can be achieved by installing additional Xtratherm insulation boards, to the internal or external face of the UniSIPS

Please contact our technical department for guidance.
## Thermal Performance

### Xtratherm Roof Panels

<table>
<thead>
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### Roof build up

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<tr>
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<tr>
<td>Slate/tile</td>
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<tr>
<td>Tiling batten</td>
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<td>Breathable membrane</td>
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<tr>
<td>Insulated roof panel</td>
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<tr>
<td>Timber battens (Service void)</td>
<td>25mm</td>
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<tr>
<td>Plasterboard</td>
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</table>

**Fixings** 4 per m2 stainless steel cross sectional area 18mm²

**Correction - 1% Timber**

The above U-Value calculations should be used as guidance only.
Thermal Performance

Xtratherm Wall Panels

Wall type 1 (Brick)

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<tr>
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<th>Thickness</th>
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<tbody>
<tr>
<td>Brick</td>
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<tr>
<td>Cavity</td>
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<td>Breathable membrane (Standard)</td>
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<tr>
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</table>

Correction - 4% Timber

The above U-Value calculations should be used as guidance only
Xtratherm Wall Panels

Wall type 2 (Brick & Foil membrane)

<table>
<thead>
<tr>
<th>PIR Thickness</th>
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<tr>
<td>Cavity (Low E) R Value 0.65m2 W/k</td>
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Correction - 4% Timber

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Thermal Performance

Xtratherm Wall Panels

Wall type 3 (Block & Render)

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<td>Concrete block</td>
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<td>Cavity</td>
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Correction - 4% Timber

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Xtratherm Wall Panels

Wall type 4 (Block & Render & Foil membrane)

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# Thermal Performance

**Xtratherm Wall Panels**

**Wall type 5 (Cladding)**

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<td>Air layer between battens (Ventilated)</td>
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Xtratherm Wall Panels

Wall type 6 (Cladding & Foil membrane)

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Correction - 4% Timber

The above U-Value calculations should be used as guidance only

Passivhaus

Passivhaus standards can be achieved by installing additional Xtratherm insulation boards, to the internal or external face of the UniSIPS

Please contact our Technical department for guidance
Xtratherm UniSIPS with Masonry brickwork

Wall Tie specification to be confirmed by fixing manufacturer

Approved breather membrane

50mm cavity

102mm Facing brickwork

Xtratherm SIP Panel

-12.5mm Plasterboard

25x50mm Treated softwood battens @ 400cs

REFERENCE:
Drawing Title: Xtratherm SIP Details
XT-SIP-01
1:5 (As noted at A4)

REVISION:
DATE:
DETAIL:
November 2018

Xtratherm SIP panel with Masonry brickwork

REFERENCE:
Drawing Title: XT-SIP-02
1:5 (As noted at A4)

Xtratherm SIP Details
REVISION:
DATE:
DETAIL:
November 2018

Xtratherm SIP Panel - Typical Roof Spline with support

Seal and adhere using urethane sealant to be applied by the contractor

Screws per structural engineers recommendations with 25mm minimum penetration into support below spacings minimum 300mm c/c

Engineered timber beam as designed by the structural engineer

Minimum 75mm support required below panel joint and continuous below top spline

Fasten splices using 2.8x63mm galvanised nails @ 150mm c/c

SIP Wall Details

SIP Wall Details
Xtratherm UniSIPS
T - Junction detail

50mm treated softwood end blocking glued and nailed in place

Fasten end blocks using 2.6x63mm galvanised nails @ 150mm c/c

Screws per structural engineer’s recommendations with 25mm minimum penetration into end blocking minimum 300mm c/c

2 beads of urethane sealant to be applied by the contractor

Xtratherm UniSIPS
with External Finish

Textured flexible coating applied in accordance with the manufacturers instructions

10mm cement particle board screwed to battens

15x25mm treated softwood battens fixed vertically

Approved breather membrane

External cladding rendered finish
External
Cladding Systems

Brick slip system fixings may vary
25x38mm treated softwood battens fixed vertically
Approved breather membrane
Xtratherm SIP Panel

Brick Slip cladding detail

Horizontal timber of uPVC cladding
25x38mm treated softwood battens fixed vertically
Approved breather membrane
Xtratherm SIP Panel

Timber cladding system

Internal
Cladding Systems

12.5mm foil back plasterboard

Xtratherm SIP Panel

Plasterboard fixed using battens @400cs

12.5mm foil backed plasterboard

Xtratherm SIP Panel

50mm x 25mm battens @ 400cs

9.5mm plasterboard Mechanically fixed and cut out to form service chase

Plasterboard Mechanically fixed and cut out to form service chase
Internal Cladding Systems

Plasterboard Mechanically fixed to SIP panel

12.5mm foil back plasterboard

Xtratherm SIP Panel

Vapour Check Membrane

12.5mm plasterboard

Xtratherm SIP Panel

Plasterboard Mechanically fixed to SIP Panel
Plasterboard Mechanically fixed to SIP panel

Xtratherm SIP Panel
174 x 1200mm

12.5mm foil back
Plasterboard

Xtratherm SIP Panel
174 x 1200mm

9.5mm plasterboard Mechanically fixed and cut out to form service chase

PlasterboardMechanically fixed using battens @400cs

50mm x 25mm
Battens @ 400cs

12.5mm foil back
Plasterboard

Vapour Check Membrane

Plasterboard Mechanically fixed and cut out to form service chase

Xtratherm SIP Panel
174 x 1200mm

12.5mm foil back
Plasterboard
Xtratherm UniSIPS
External Finishes UniSIP-D002

114mm x 1200mm Xtratherm SIP Panel

Horizontal Timber of uPVC Cladding
25 x 38mm Treated Softwood Battens Fixed Vertically
Approved Breather Membrane
Xtratherm SIP Panel 114mm x 1200mm

Brick slip system - Shown. Fixing details may vary
25 x 38mm Treated Softwood Battens Fixed Vertically and drained at bottom
Approved Breather Membrane
Xtratherm SIP Panel 114mm x 1200mm

Note for vertical cladding a 25 x 38mm counter batten will be required

Xtratherm UniSIPS
External Finishes UniSIP-D003

Wall Tie specification to be confirmed by fixing manufacturer
Approved Breather Membrane
50mm Clear Cavity
102.5 mm Facing Brickwork
External Facing Brick finish
Xtratherm SIP Panel 114 x 1200mm

12.5mm Plasterboard
25x50mm Treated softwood battens @ 400ca
Approved Breather Membrane

Textured flexible coating applied in accordance with the manufacturers instructions
10mm Cement Particle Board screwed to battens
15x25mm treated softwood battens fixed vertically
Approved Breather Membrane
External cladding rendered finish
Xtratherm SIP Panel 114mm x 1200mm
SIP Wall Details

Xtratherm UniSIPS
External Finishes UniSIP-D008
Xtratherm UniSIPS
External Finishes UniSIP-D009

Xtratherm SIP Panel 174 x 1200mm

2.8mm Ø 64mm nails used to fix panels at 100 C/C once panels assembled.

94x47 C24 Timber Fillet
Xtratherm SIP Panel 174mm x 1200mm

47mm Rebate
12mm OSB3
150mm PIR to Specification

REFERENCE:
SCALE:
Drawing Title:
1:10 @ A3

Xtratherm SIP Panel Details
REVISION:
DATE:
November 2018

Xtratherm - SIP Assembly using Timber Fillets
**Xtratherm UniSIPS**

**External Finishes UniSIP-D010**

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**SIP Wall Details**

**Xtratherm SIP Panel Details**

- **2.8mm Ø 64mm Nails @ 100 CRs.**
- **Timber Post to Support Beam/Joist as per Engineers Specification**
- **Routed Rebates**
- **47mm Rebate**
- **150mm PIR to Specification**
- **12mm OSB3**
- **Xtratherm SIP Panel 174 x 1200mm**
- **94x47 C24 Timber Fillet**
- **150x141mm C24 Timber Post**
- **94x47 C24 Timber Fillet**

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**REFERENCE:**

**SCALE:**

**Drawing Title:**

**XT-SIP-D010**

**1:10 @ A3**

**Xtratherm - SIP Assembly using Timber Post**

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**REVISION:**

**DATE:**

**DETAIL:**

November 2018

Xtratherm UniSIPS

External Finishes UniSIP-D010
Xtratherm UniSIPS
External Finishes UniSIP-D011

SIP Wall Details

Xtratherm Structural Insulated Panels

Xtratherm SIP panel 174mm x 1200mm

150x47 Timber End Stud
12mm OSB3

Overlap Panel

Butt Jointing Panel

Beads of Silicone Sealant

150mm PIR Insulation

Timber Lock Screw x 2 No. Next to each other, 1 through the panel, 1 through the timber end stud.

1200

Xtratherm SIP panel 174mm x 1200mm

Battens as required

Plasterboard as Specified

REFERENCE:

SCALE:

Drawing Title:

XT-SIP-D011

1:20 @ A3

Xtratherm SIP Panel Details

REVISION:

DATE:

November 2018

Xtratherm - Wall SIP corner junction fixing assembly details

www.xtratherm.com

UniSIPS

Xtratherm SIP Wall Details
Xtratherm UniSIPS
External Finishes UniSIP-D012

150mm PIR Insulation
12mm OSB3 Board

Urethane Sealant

Silicone Sealant
150x47mm Bottom Plate

180mm x depth of Flange is the Backer size, to be fitted parallel to and between Joists

150x47mm Head Plate

Timber Lattice Floor Joist

Xtratherm SIP panel 174 x 1200mm

REFERENCE:
SCALE:
Drawing Title: XT-SIP-D012
1:20 @ A3
Xtratherm SIP Panel Details

REVISION:
DATE:
DETAIL:
November 2018
Xtratherm - SIP Intermediate Floor Junction
Type 1

150mm PIR Insulation
12mm OSB3 Board

Urethane Sealant

Silicone Sealant
150x47mm Bottom Plate

180x38mm Sole Plate

Backer Parallel to and between Joists

150x47mm Head Plate

Timber Lattice Floor Joist

Xtratherm SIP panel 174 x 1200mm

REFERENCE:
SCALE:
Drawing Title: XT-SIP-D012
1:20 @ A3
Xtratherm SIP Panel Details

REVISION:
DATE:
DETAIL:
November 2018
Xtratherm - SIP Intermediate Floor Junction
Type 1

150mm PIR Insulation
12mm OSB3 Board

Urethane Sealant

Silicone Sealant
150x47mm Bottom Plate

180x38mm Sole Plate

Backer Parallel to and between Joists

150x47mm Head Plate

Timber Lattice Floor Joist

Xtratherm SIP panel 174 x 1200mm

REFERENCE:
SCALE:
Drawing Title: XT-SIP-D012
1:20 @ A3
Xtratherm SIP Panel Details

REVISION:
DATE:
DETAIL:
November 2018
Xtratherm - SIP Intermediate Floor Junction
Type 1

150mm PIR Insulation
12mm OSB3 Board

Urethane Sealant

Silicone Sealant
150x47mm Bottom Plate

180x38mm Sole Plate

Backer Parallel to and between Joists

150x47mm Head Plate

Timber Lattice Floor Joist

Xtratherm SIP panel 174 x 1200mm
Xtratherm UniSIPS
External Finishes UniSIP-D013

150mm PIR Insulation
12mm OSB3 Board

Bead of Urethane Sealant
150x47mm Bottom Plate

Beads of Silicone Sealant
150x47mm Head Plate

Floor Joist
Joist Hanger

Xtratherm SIP panel
174 x 1200mm

150mm PIR Insulation
12mm OSB3 Board

Bead of Urethane Sealant
150x47mm Bottom Plate

Beads of Silicone Sealant
150x47mm Head Plate

Floor Joist
Joist Hanger

Xtratherm SIP panel
174 x 1200mm
Xtratherm UniSIPS
External Finishes UniSIP-D014

- 150mm PIR Insulation
- 12mm OSB3 Board
- Bead of Urethane Sealant
- 180x38mm Sole Plate
- Beads of Silicone Sealant
- 150x47mm Head Plate
- Xtratherm SIP panel 174 x 1200mm

- 150mm PIR Insulation
- 12mm OSB3 Board
- 150x47mm Bottom Plate
- Beads of Silicone Sealant
- Xtratherm SIP panel 174 x 1200mm

- 150mm PIR Insulation
- 12mm OSB3 Board
- 150x47mm Head Plate
- Rimboard to match Joist
- 150x47mm Head Plate
- Xtratherm SIP panel 174 x 1200mm

- 150mm PIR Insulation
- 12mm OSB3 Board
- 150x47mm Bottom Plate
- Bead of Urethane Sealant
- Xtratherm SIP panel 174 x 1200mm

- 150mm PIR Insulation
- 12mm OSB3 Board
- 150x47mm Head Plate
- Floor Joist
- Xtratherm SIP panel 174 x 1200mm

REFERENCES:
SCALE:
Drawing Title: XT-SIP-D014
1:20 @ A3
Xtratherm SIP Panel Details
REVISION:
DATE:
DETAIL:
November 2018
Xtratherm - SIP Intermediate Floor Junction
Type 3
Xtratherm UniSIPS
External Finishes UniSIP-D015

#### Roof Type: Vaulted Ceiling
- 174mm Unilin Sip Roof Panel
- 150mm Insulation and 12mm OSB Board
- Roof Tile
- Continuous Ventillation Gap
- Cavity Closer (as required)
- Breather Membrane
- Mineral wool insulation between timber joists

#### Roof Type: Attic Space
- 174mm Xtratherm SIP Panel
- 150mm Insulation and 12mm OSB Board
- Roof Tile
- Continuous Ventillation Gap
- Cavity Closer (as required)
- Breather Membrane
- 50mm Cavity
- 100mm External Block Leaf with Wall Ties not more than 900mm Horizontally & 450mm Vertically

Roof Membrane and Roof build-up to Roofing Contractors Specification
Chamfered Wall Plate with Cheese Wedge support
Silicone Sealant to all junctions
Xtratherm UniSIPS
External Finishes UniSIP-D016

Mechanically fixed ridge tile
Lap breather membrane over sw ridge batten
Screws per structural engineers recommendations with 25mm min. penetration into support below spacings min. 300mm c/c
Polyurethane adhesive/sealant
Xtratherm - SIP Panel
Ventilation spacers part of fixing system

Xtratherm - SIP Panel

Engineered timber ridge beam to suit Engineers requirements
25mm service zone formed using 38x25mm sw battens

12.5mm foil backed plasterboard
Seal and adhere using polyurethane sealant to be applied by contractor.

Screws per structural engineers recommendations with 25mm min. penetration into support below spacings min. 300mm c/c.

Factory cut chamfer to ridge beam.

Fasten end blocks using 2.8x63mm galvanized nails @ 150mm c/c.

50mm treated softwood end blocking glued and nailed in place.

Engineered timber beam as designed by structural engineer.

Seal and adhere using polyurethane sealant to be applied by contractor.

Xtratherm SIP Roof Details
Xtratherm UniSIPS
External Finishes UniSIP-D018

- Proprietary timber frame lintel
- 12.5mm foil backed plasterboard
- 25mm service zone formed using 38x25mm sw battens
- 50x50mm insulated combined cavity barrier and fire stop
- 100x75mm shaped sw wall plate nailed to Xtratherm SIP Panel header
- 18mm OSB floor decking taken through between header and wall plate
- Engineered wood I-joist or softwood floor joists
- Joist hanger with nailed top flange
- Wall ties to be specified by structural engineer
- 100mm brickwork outer leaf
- Lap breather membrane over cavity tray
- Cavity tray with stop ends
- Weepholes at 450mm max. centers with min. of 2 per opening
- Soffit ventilation strip
- Fascia
- 25mm timber packers to the end of each joist
- Polyurethane adhesive/sealant
- Seal panel to panel joint with mastic sealant
- Maintain continuous ventilation gap
- Protect floor during construction
- 25x38mm counter battens
- Battens suitable for tiling specified
- Galvanized restraint straps if required by the structural engineer
- Xtratherm - SIP Panel
- Approved breather membrane

REFERENCE:
SCALE:
Drawing Title: XT-SIP-D018
1:5 @ A3
Xtratherm - SIP Panel Details
REVISION:
DATE:
Xtratherm - SIP Eaves Detail
DETAIL:
January 2019
Xtratherm - SIP Roof Details
Xtratherm UniSIPS
External Finishes UniSIP-D019

Lap breather membrane into roof light flashing

Xtratherm SIP Panel

Lap breather membrane under tiles and into roof light drainage

Polyurethane adhesive/sealant

Roof light installed in accordance with the manufacturers instructions using the appropriate fitting kit

Timber purlins to suit Engineers requirements

145x45mm C24 see lining the opening
Project Gallery

Residential project, Essex
Panel type: UNIPUR (Open element, PIR insulation, GFB)
Robert Ward-Booth, Conservation & Design

SMART LIFE Construction Center Panel type:
UNISPAN MW (sandwich panel, mineral wool insulation, perforated board for improved sound absorption performances) Annand & Mustoe Architects, Cambridge

Zero Carbon House, Lurgashall, West Sussex
Panel type: UNIPUR-OSB (Unipur panel, PIR insulation/OSB)
Architects: Mitchell Evans & Partners, Guildford

Ryedale house, Barratt Homes, Farndon Fields, Market Harborough Panel type: UNIPUR (Open element, PIR insulation, PB) Barratt Architect

Velux, CarbonLight Homes, Kettering Panel type: UNISPAN HPIR (sandwich panel, HPIR insulation, OSB) HTA Architects
Working towards a sustainable future

Operating within the construction industry and as a leading investor within the insulation sector, Xtratherm remains at the forefront of energy efficiency and sustainable construction.

Specifying Xtratherm is a real commitment to minimising energy consumption, harmful CO2 emissions and their impact on the environment. Using our products is one of the most effective ways to reduce energy consumption – in fact, after just eight months the energy they save far outweighs the energy used in their production.
Good workmanship and appropriate site procedures are necessary to achieve expected thermal and airtightness performance. Installation should be undertaken by professional tradespersons. The example calculations are indicative only, for specific U-value calculations contact Xtratherm Technical Support. Xtratherm technical literature, Agrément certifications and Declarations of Performance are available for download on the Xtratherm website. The information contained in this publication is, to the best of our knowledge, true and accurate at the time of publication but any recommendations or suggestions which may be made are without guarantee since the conditions of use are beyond our control. Updated resources may be available on our website. All images and content within this publication remain the property of Xtratherm.

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