



CASE STUDY



Structural Insulated Panels



Chimney Pot Park - Salford

Client:

Salford City Council

Architects:

shedkm

Main Contractor:

Urban Splash

Type:

Regeneration/Residential

System:

SIP Roof Panels with Pre-assembled
Chimney/Light Wells

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Structural Insulated Panels



Chimney Pot Park

Chimney Pot Park, a £26-million Salford-based residential housing project, fuses traditional terrace design and contemporary layout. Redesigned to create a more up-to-date living space, upside-down interiors create lighter, modern and comfortable layouts. Traditional Victorian terraces meet energy-efficient 21st-century construction and design.

The Concept Behind Chimney Pot Park

Designed to bring the terraced house up to date with all the style and benefits of modern construction technology, Chimney Pot Park is a 359-house residential plot creating a community of award-winning homes in Langworthy, Salford. The result of collaboration between Urban Splash, and architects, shedkm, Chimney Pot Park re-imagines the outdated version of the Victorian terraced street while keeping all of the benefits of a tight-knit neighbourhood environment.

By increasing outdoor areas through timber-decked balconies and rooftop garden design, homes have a lighter, more spacious feel than their traditional predecessors. Chimney Pot Park homes turn interior design on its head, taking an upside-down approach - with bedrooms on the ground floor and communal living areas on the higher floors. Every inch of the design and layout, from the roof to the ground, was carefully planned and executed to maximise the total amount of usable space.

Built to take the best parts of community living, Chimney Pot Park sits on an elevated position overlooking the Salford landscape with plenty of local green spots, secure parking, and community amenities increasing the neighbourhood feel and making it ideal for young families.

SIPCO Technology - The Benefits of SIPs

There are multiple benefits to the use of SIP technology in residential construction, with the system designed to exceed standards and regulations for Fire, Acoustic, Structural and Thermal performance. Further to this, Structured Insulated Panels (SIPs) minimise energy waste and noise penetrations while being more airtight than alternative building materials. Panels can reduce the energy used to heat and cool rooms by up to 50%, meaning homes benefit from being quieter and more robust. In addition, homeowners benefit from much lower energy bills throughout the building life and lowered carbon emissions. SIP technology also allows for better control over design and layout, meaning greater flexibility over room shape and size.

The SIPCO Team - Bringing the Vision to Life

Winning multiple awards since its completion, Chimney Pot Park utilises advanced methods of construction to further improve building functionality. With modern technology meeting traditional concepts, the decision to use SIP panels formed an integral part of the design plan from the early stages. SIP technology is a high-performance building system consisting of a sandwich structured composite used as a building material in residential and light commercial construction.

As one of the leading and most-widely recognised SIP companies in the UK and having completed multiple high-profile projects in the residential and commercial sectors, the SIPCO team were the ideal choice to facilitate the integration of SIP technology in the Chimney Pot Park project.

Offering a time and cost-efficient sustainable solution to meeting strict building regulations, BREEAM, and Passivhaus standards, the experienced team was able to work collaboratively with clients Urban Splash to successfully deliver the project on time and within budget. With the project taking around two years to complete, the team were responsible for carrying out the installation of fully-fabricated SIP roof panels as well as pre-assembled chimney/light wells for 327 out of the 359 homes provided.

Installation of SIP technology provided multiple benefits to the project, bringing to life a modernised vision of terraced housing.

One of the main benefits of using SIP panels in the project was the resulting increased roof capacity which contributed to additional living areas for use as kitchens or lounges. Utilising SIP roof panels meant that installation was far quicker than using traditional attic trusses, making buildings weather-tight and exceptionally thermally efficient while requiring less construction time on site. Further benefits included the utilisation of false chimney stacks to increase natural brightness and light flow through light wells/skylights.





SIP Technology

Structural Insulated Panels are an advanced method of construction, exploiting composite panel techniques - delivering excellent structural and thermal characteristics in one system.

SIPs have two parallel faces - usually Oriented Strand Board (OSB) - sandwiching a rigid Polyurethane (PUR) foam core. The result is a lightweight system, quick to erect and free from the complications surrounding compression shrinkage and thermal bridging, often associated with other forms of construction. Delivering rapid and robust energy-efficient buildings with superior insulation, structural strength, and airtightness - SIP systems are used for walls, roofs, and floors.

Structural Insulated Panels offer extremely high thermal performance throughout the building lifecycle, while minimising wall thickness. The PUR core of rigid insulation and OSB3 facing panels achieve U-values as low as 0.10 W/m²K, significantly lowering operating costs. Using SIPs technology for residential applications will reduce build programmes, enabling a much faster completion time than conventional building methods.

SIPs provide the ideal solution for houses designed to facilitate habitable living space in the roof zone. No requirement for roof trusses allows for maximum space efficiency while providing superb thermal performance and limited air leakage.

By purchasing from SIPCO, you can be confident in a fully engineered structural insulated panel system (SIPs) that is fully BBA compliant for panel manufacture and fabrication and FSC®/ PEFC® certified.



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award winning services:**

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