SHANETTE
STEEL FRAMES

Shanette Steel Frame Houses & Extensions

Dublin 01 459 4993 | Kilbeggan 057 93 32294
info@shanettesteelframes.ie
www.shanettesteelframes.ie

Follow US

WHY SHANETTE ?

Introducing Shanette Steel Frames – Your trusted steel building manufacturer for over forty years.

Our Team and Expertise

At Shanette Steel Frames, our team is made up of talented engineers, designers, logistics professionals, production managers, and assembly and installation specialists. Together, we deliver smart, structural solutions tailored to your projects, from residential to large-scale industrial builds.

Innovative Technology and High-Quality Manufacturing

Using cutting-edge 3D CAD software and modern methods of frame production, we manufacture premium off-site solutions for the residential and construction industry. Our advanced metal forming machinery allows us to produce certified, high-quality steel-framed structures and components that meet the highest industry standards.

Tailored Solutions for Every Project

From custom residential designs for homes and extensions to larger-scale developments, we bring the same unwavering commitment to excellence.

Light Gauge Steel Frame (LGSF) Systems

Our LGSF systems are fully designed and certified structural panel solutions, ideal for the rapid construction of buildings. By saving time and labour, they offer significant value to residential, commercial, and industrial projects.

Key Features:

- Engineered C profile LGS studs designed for optimal axial capacity.
- CE EN 1090 certification for the execution of steel structures.
- Flexibility to meet project needs with options including single-section components (stick form), pre-assembled steel frames, or complete pre-assembled panels.

At Shanette Steel Frames, we combine innovation, precision, and customer focus to deliver outstanding results. Let us help you build with confidence and efficiency.

PRODUCTS & SERVICES

Welcome to the future of construction with steel frame solutions. Experience the strength and reliability that sets us apart. Contact us today, and let's make your next project a success.

WHAT WE MANUFACTURE

- EXTERNAL WALLS
- FLOOR CASSETTES
- ROOF TRUSSES
- ANGLE TRIMS
- ACCESSORIES
- CUSTOM FABRICATION

1 | Self Assemble Frames

Ideal for Modular Building Contractors, POD Manufacturers, and Self-Builders who need a reliable supply of pre-engineered steel products to feed their assembly line or building project. Also known as stick form or sticks. All of our frame pieces and parts are individually ink-jet marked with ID numbers and accompanied by detailed assembly drawings. Self-assembly is quite straightforward.

2 | Pre - Assembled Frames for Collection or Delivery

With this option, Shanette assembles all parts into complete frames at our manufacturing facility, which are then loaded on stillages ready for collection or delivery. Once on-site, the frames are simply bolted together into complete structures. We supply pre-assembled frames that form complete structures to clients who then fit-out according to their own project specifications.

3 | Pre-Assembled Frames with On-Site Construction

With this option, Shanette assembles all parts into complete frames, which are then brought to the site and fully constructed by our installers. This method saves a huge amount of time for building contractors or one-off house builders.

OUR PROCESS

Contact & Initial Consultation

Discuss your plans with us, and we'll gladly provide guidance on the options available.

1| Planning

Whether you're a building contractor or a self-builder, our experienced team is here to guide you towards the ideal steel frame solution.

- **Wall Type Finishes:** We offer multiple exterior wall finishes—including brick, masonry, or external render—that your chosen builder will install on-site once Shanette has completed the steel frame structure.
- **Insulation Build-Ups:** You and your engineer can choose between several different insulation build-ups to suit your project's needs. We offer two main choices, Hybrid Frame and Warm Frame.
- **Energy Efficiency:** We can advise on U-values for each wall type, helping your building achieve the best possible energy rating.

For more in-depth information on specific wall and insulation build-ups, please see our wall build up page.

2| Design

Our skilled engineering team will collaborate with you, your architect, and your engineer to design the perfect steel frame system for your specific requirements.

- **Expert Collaboration**: We address technical queries promptly.
- **Detailed Drawings**: We produce 2D and 3D drawings to keep you informed at every stage of the process.

3| Production

Manufacturing takes place at our facility in Kilbeggan, Co. Westmeath.

Cold-Formed Steel: Using modern manufacturing techniques, we produce high-quality, CE-marked steel frame building solutions.
Rigorous Quality Control: Our production processes ensure consistent excellence.

4| Delivery & Installation

Our pre-assembled frames are manufactured off-site at our quality-controlled facility in Kilbeggan, then loaded onto custom trailers for transport to your site.

- **On-Site Assembly:** Panels are bolted together in sections with the aid of truck-mounted cranes.
- **Supply-Only Option:** For supply-only customers, frames can be collected using returnable stillages or delivered directly to the site by our fleet of trucks.

WALL BUILD UP OPTIONS

Before selecting a wall build-up, it's important to understand that these choices – including insulation methods and external finishes – will be made by you, your engineer, and your builder, based on the thermal performance (U-Values) you want to achieve and how you choose to achieve them. Shanette manufactures and installs the steel frame structure only. All external finishes and wall build-up elements, including insulation layers and render, are completed on-site by your builder following frame installation.

When planning a steel frame house or extension, selecting the right wall build-up is key to ensuring thermal efficiency, structural integrity, and compliance with building regulations. External finish options may include brick, masonry, acrylic render, cladding and more — all applied by your builder to suit your chosen design.
You and your engineer can also choose from a range of insulation approaches. At Shanette, we offer two primary structural options to support this: **Hybrid Frame** and **Warm Frame** — each designed to meet different U-Value targets and project needs.

Key Differences

The primary distinction between Hybrid Frame and Warm Frame systems lies in the location of the insulation:

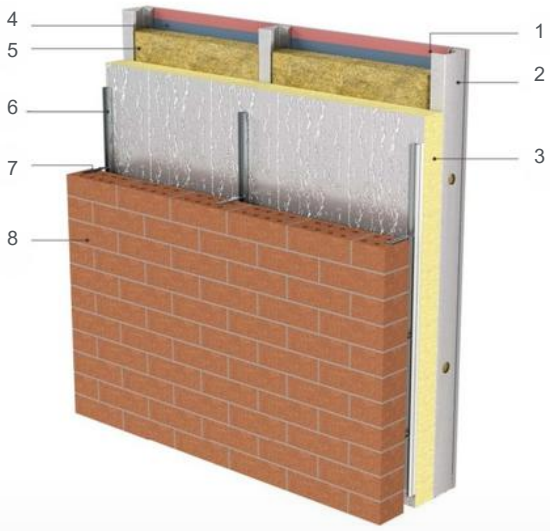
1. **Hybrid Frame:** Insulation is installed both within the 100 mm steel frame (to be fitted on-site by others) and on the external face of the frame, which is factory-fitted. Common external insulation materials include foil-backed PIR boards, Rockwool mineral wool, or metal-faced insulated sandwich panels—each offering unique advantages depending on project needs.
2. **Warm Frame:** All insulation is installed on the exterior face of the Shanette steel frame, creating a continuous, uninterrupted thermal layer.

Energy Efficiency:

We can provide guidance on U-values for both Warm Frame and Hybrid Frame wall types to help your building achieve the best possible energy rating.

1. External Wall with PIR Insulation and Masonry Outer Leaf – Hybrid Frame

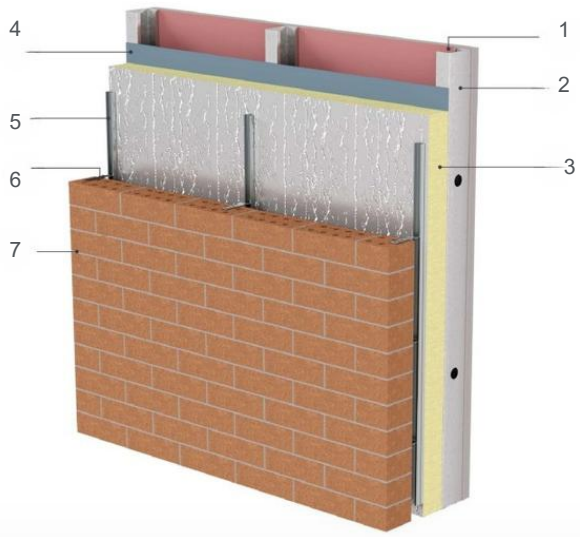
The Hybrid Frame system combines external PIR insulation with additional insulation placed within the steel frame. This approach balances thermal performance with cost-effectiveness, making it a practical choice for a wide range of designs.



1. Type F plasterboard lining to provide adequate protection to the steel frame, installed by others
2. Shanette Steel Frame Panel
3. PIR Insulation board
4. AVCL layer, installed by others
5. Mineral wool insulation fitted between studs by others.
6. Stainless steel wall tie channel
7. Stainless steel wall tie, installed by others.
8. External masonry outer leaf, installed by others

Figure 1. External Wall with PIR Insulation & Masonry Outer Leaf – Hybrid Frame

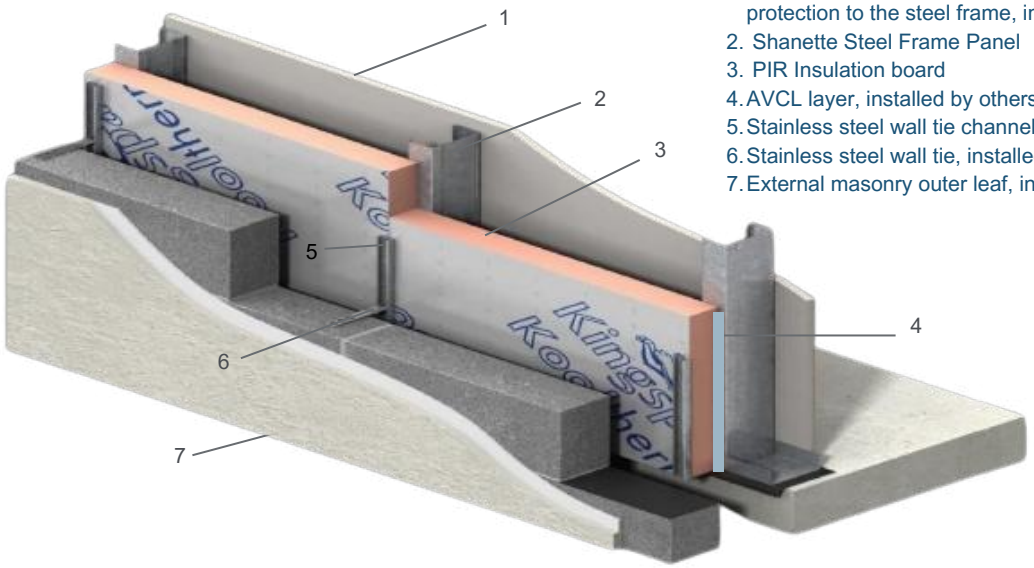
2. External Wall with PIR Insulation and Masonry Outer Leaf – Warm Frame
This build-up includes a brick masonry exterior, providing a traditional yet durable finish. The external PIR insulation ensures a seamless thermal barrier.



1. Type F plasterboard lining to provide adequate protection to the steel frame, installed by others
2. Shanette Steel Frame Panel
3. PIR Insulation board
4. AVCL layer, installed by others
5. Stainless steel wall tie channel
6. Stainless steel wall tie, installed by others
7. External masonry outer leaf, installed by others

Figure 2. External Wall with PIR Insulation & Masonry Outer Leaf – Warm Frame

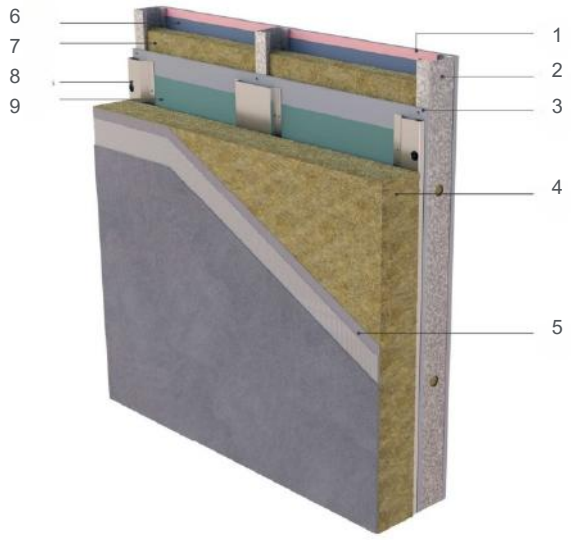
3. External Wall with PIR Insulation and Rendered Masonry Outer Leaf – Warm Frame
This system places all insulation outside the steel frame, creating a continuous thermal envelope. By minimising thermal bridging, it ensures superior energy efficiency and a consistent interior climate.



1. Type F plasterboard lining to provide adequate protection to the steel frame, installed by others
2. Shanette Steel Frame Panel
3. PIR Insulation board
4. AVCL layer, installed by others
5. Stainless steel wall tie channel
6. Stainless steel wall tie, installed by others
7. External masonry outer leaf, installed by others

Figure 3. External Wall with PIR Insulation & Rendered Masonry Outer Leaf – Warm Frame

4. External Wall with NSAI Agrément Certified External Wall Insulation Façade System – Hybrid Frame
This advanced system uses an NSAI Agrément-certified external wall insulation façade, such as the Kilsaran External Wall Insulation (KEWI) system. It layers insulation externally and within the steel frame, delivering exceptional thermal efficiency and compliance with stringent building standards.



1. Type F plasterboard lining to provide adequate protection to the steel frame, installed by others
2. Shanette Steel Frame Panel
3. Exterior Board as per NSAI Agrement Certified External wall insulation system specification
4. Exterior Mineral Wool insulation as per NSAI Agrement Certified External wall insulation system specification
5. External render as per NSAI Agrement Certified External wall insulation system specification
6. AVCL layer, installed by others
7. Mineral wool insulation fitted between studs by others.
8. Render systems vertical rails as per NSAI Agrement Certified External wall insulation system specification
9. Breather membrane as per NSAI Agrement Certified External wall insulation system specification.

Figure 4. External Wall with NSAI Agrément Certified External Wall Insulation Façade System – Hybrid Frame

MASONRY WALL FOUNDATION DETAIL

1. External masonry outer leaf, installed by others
2. Stainless steel wall tie channel
3. External insulation board
4. Shanette Steel Frame Panel
5. DPC layer
6. Radon barrier, installed by others
7. Thermal block, installed by others
8. Mineral wool insulation fitted between studs, installed by others
9. AVCL layer, installed by others
10. Type F plasterboard lining to provide adequate protection to the steel frame, installed by others
11. Ground floor concrete slab, installed by others
12. Ground floor insulation, installed by others

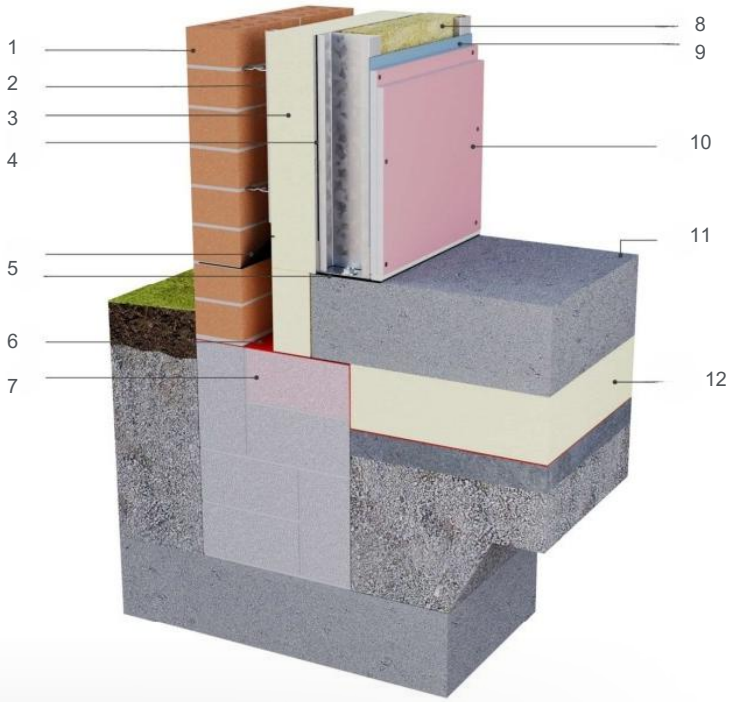


Figure 5. Masonry wall foundation detail

FINISHING OPTIONS

While masonry-based wall build-ups remain the most popular choice, we also offer alternative options to achieve distinctive aesthetics and enhanced functionality. These include seamless cladding for a sleek, contemporary finish, external insulation systems with acrylic render for improved thermal performance and design flexibility, Fortex PVC foam board, and burnt larch for a unique, rustic charm. With this extensive range of finishes, your steel frame home can be tailored to your vision, delivering bespoke architectural appeal that truly stands out.

STEEL FRAME BENEFITS

WHY STEEL FRAME?

- Planning & Design Flexibility
- Fast Production Time
- Structural Integrity
- Reduced Labour Costs
- Off-Site Manufacturing

Steel Frames offer significant advantages over traditional construction methods:

1 | Planning & Design Flexibility

Our experienced team guides you through the process, offering a wide range of design possibilities. We work with you to create a bespoke solution that meets your exact needs, providing 2D and 3D drawings to visualise the final product.

2 | Faster Production Time

Prefabrication and off-site construction at our Kilbeggan facility significantly reduce on-site construction time, allowing you to complete projects faster and meet deadlines with ease. This minimises disruption and accelerates your return on investment.

3 | Superior Structural Integrity

Steel frames provide exceptional strength, stability, and durability, ensuring your building withstands harsh conditions and meets stringent safety standards. Our modern manufacturing processes and CE-marked steel guarantee high-quality, long-lasting structures.

4 | Reduced Labour Costs

The precision engineering of our steel components enables efficient on-site assembly, minimising the need for extensive on-site labour and resulting in significant cost savings.

5 | Off-Site Manufacturing

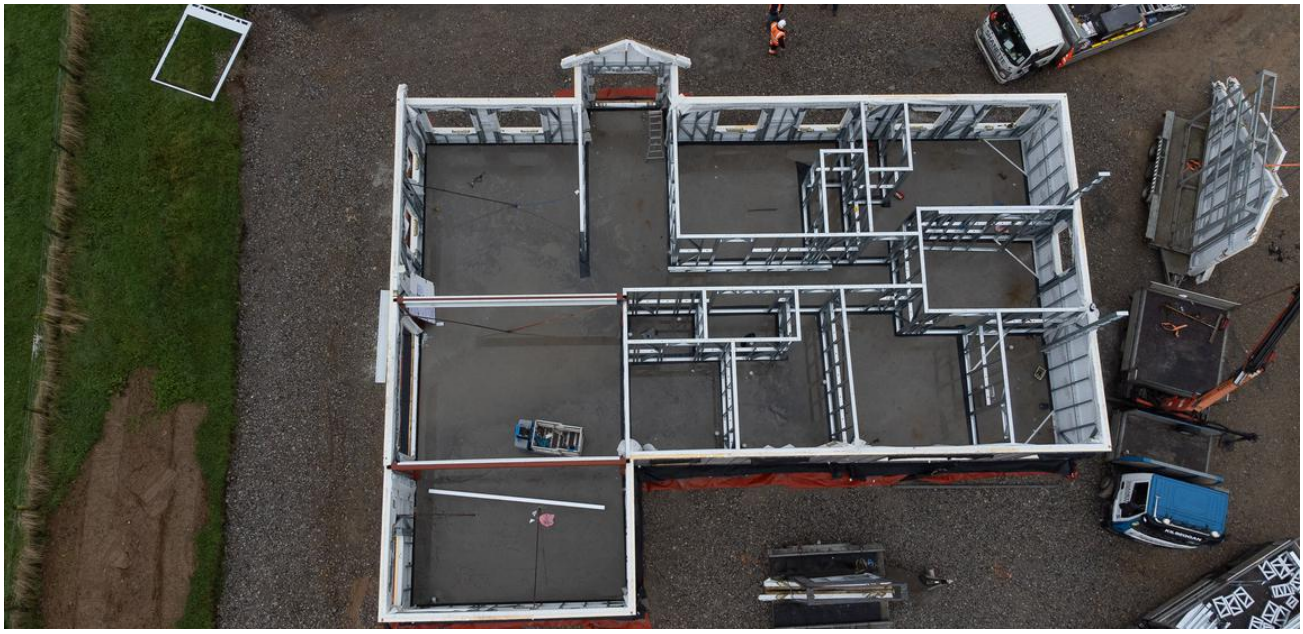
Pre-assembled frames are manufactured off-site at our facility. Once on-site, the frames are simply bolted together. Pre-assembled frames can be collected on returnable stillages or delivered directly to the site by our fleet of trucks.

PORTFOLIO

In the following pages, you'll find a selection of our projects, including house extensions—both outward and upward—as well as some of our most recent new builds. To explore more, visit our website. If you have any questions, feel free to contact us at our headquarters in Kilbeggan or Dublin 12.

DORMER - CLONASLEE

This large dormer bungalow, built in Co. Laois with a floor area of 297m² (3,200ft²), was completed in just eight working days. The project featured CE-certified welded steelwork to support the first floor and roof structure. A custom Shanette-manufactured steel frame staircase further demonstrated the adaptability of our steel frame solutions for both structural integrity and design flexibility. The external walls were built using System 1 of our wall build-up options: an external wall with PIR insulation and a masonry outer leaf – Hybrid Frame.



BUNGALOW - KILBEGGAN

This 19.2m x 10.7m steel-frame house, with a floor area of 205m² (2,206ft²), was built in Westmeath using System 4 of our wall build-up options. The external walls were finished with an **NSAI Agrément Certified External Wall Insulation System – Hybrid Frame.**

Manufactured at our Kilbeggan headquarters, the prefabricated components ensured efficient on-site assembly while maintaining exceptional quality. This project highlights the durability and energy efficiency of our steel frame systems, meeting the highest standards of modern construction.

RAISING THE ROOF IN MEATH!

This project was completed in two phases. Phase one involved a 21m × 5m ground-floor extension to the original bungalow, featuring a combination of a standing seam façade and Kilsaran KEWI render. Internally, the space was divided into a large dining room, kitchen, utility, and sitting room, with an outdoor area designed for summer use.

In phase two, the building contractor removed the old bungalow roof, and a precast hollow-core slab was installed to support a 15m × 8m steel-framed first-storey extension. This extension included three bedrooms, an en-suite, a bathroom, and a storeroom. The complex steel roof design incorporated trusses, three dormer windows, and a rear flat roof, while additional features included a vaulted ceiling with roof lights over the stairway.

The external walls combined masonry with PIR insulation and the Kilsaran render system. Thanks to prefabrication at our Kilbeggan headquarters, on-site construction was completed in just four days.

HIPPED ROOF BUNGALOW - GALWAY

This hipped-roof bungalow, with a floor area of 215m² (2,314ft²), was constructed in just four days. Pre-insulated, off-site manufactured exterior wall panels with an A2 energy rating ensured exceptional energy efficiency. The interior walls were bolted into place, ready for plasterboard installation.

This project employed System 1 of our wall build-up options: an external wall with PIR insulation and a masonry outer leaf – Hybrid Frame. Manufactured to CE EN 1090 standards, our panels delivered top-quality results. The efficiency of off-site prefabrication enabled swift completion, allowing the site to be handed over to the builder for final finishes.

HOUSE EXTENSION WITH LINK CORRIDOR - ATHLONE

This impressive house extension in the Midlands featured a 13.5m × 6m steel-framed structure with a mezzanine office area above the utility room and a custom link corridor connecting it to the main house. Vaulted ceilings in the kitchen and dining area enhanced the sense of space, adding to the open and airy design.

Installed on-site in just two days, the exterior walls were insulated and finished by the builder with Burnt Larch charred timber cladding. The design seamlessly combined functionality with aesthetic appeal, creating a modern and elegant addition to the home.

STANDING SEAM EXTENSION

This contemporary 5.8m × 4.9m kitchen extension was built using Shanette's steel frame system. The exterior was finished with modern standing seam cladding, creating a sleek and timeless aesthetic. Inside, a vaulted ceiling enhanced the sense of space in the kitchen and dining area.
Prefabricated off-site in sections, the extension was constructed quickly with minimal disruption to the family, ensuring a fast and efficient build.

HOUSE EXTENSION KILBEGGAN

This 5.8m × 4.9m kitchen extension was built using Shanette's modern Standing Seam Extension system. Prefabricated off-site, it was securely weathered into place with minimal disruption to the family, ensuring a fast and efficient installation.

OUR CERTIFICATION AND COMMITMENT TO EXCELLENCE

Shanette are the original, Off-Site, Sectional Built, Steel Buildings manufacturer in Ireland. Established in 1983, we are the largest & longest established CE certified manufacturer of Sectional (Panel form) LGS frames for steel buildings in Ireland. We provide a professional service with a proven, reliable track record.

Our certification and commitment to excellence are the pillars that support our vision for innovative and quality-driven steel building solutions. We proudly hold two essential certifications.

Figure 1: I.S. EN 1090 - 1:2009 + A1:2011 (EXC 2) Certification:

NSAI

NSAI, 1 Swift Square, Northwood, Dublin 9, Ireland, D09 A0E4

Certificate of conformity of the factory production control,

0050 - CPR - 0537

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s):

The manufacture (excluding welding) of structural steel components up to and including Execution Class 2 (EXC 2) as defined in EN 1090-2

Placed on the market under the name of:

Shanette Sheds Ltd
Tullamore Road, Kilbeggan, Co. Westmeath
and produced in the manufacturing plant:
Shanette Sheds Ltd
Tullamore Road, Kilbeggan, Co. Westmeath

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

I.S. EN 1090-1:2009+A1:2011

under system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements

This certificate was first issued on 7 September 2016 and remains valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

File Number: 1.144.089
Approval Date: 7 September 2016
Last Amended Date: 12 September 2024
Expiry Date: 6 September 2025

Signed:

Mr. Kevin D. Mullaney
Director of Certification, NSAI

All valid NSAI certifications are listed on NSAI's website - www.nsai.ie. The continued validity of this certificate may be verified under "Certified Company Search"

Cert 316 – WM Certificate of Conformity FPC System 2+ INAB (2)

Figure 2: I.S. EN ISO 9001:2015 Certification:

NSAI

Certificate of Registration
of Quality Management System
to I.S. EN ISO 9001:2015

Shanette Sheds Ltd
Tullamore Road
Kilbeggan
Co. Westmeath
Ireland

NSAI certifies that the aforementioned company has been assessed and deemed to comply with the provisions of the standard referred to above in respect of:-

The design, manufacture and installation of sectional steel buildings

Approved by:
Stewart Hickey
Head - Business Excellence, NSAI

QUALITY
ISO 9001:2015
NSAI Certified

Registration Number: 19.7059
Original Registration: 18 October 2023
Last amended on: 18 October 2023
Valid from: 18 October 2023
Remains valid to: 17 October 2026

This certificate remains valid on condition that the Approved Quality Management System is maintained in an adequate and efficacious manner. NSAI is a partner of IQNet - the international certification network (www.iqnet-certification.com)

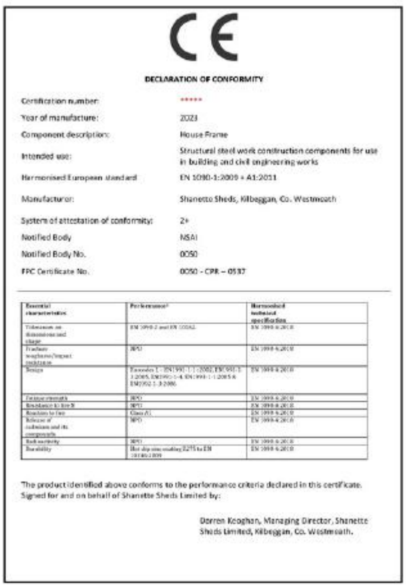
Partner of: IQNET

All valid certifications are listed on NSAI's website - www.nsai.ie. The continued validity of this certificate may be verified under "Certified Company Search"

NSAI (National Standards Authority of Ireland), 1 Swift Square, Northwood, Santry, Dublin 9, Ireland T +353 1 807 3800 E: info@nsai.ie www.nsai.ie

CERT-155 WM: 9001 2015 INAB (4)

Figure 3. Declaration of Conformity



CE

DECLARATION OF CONFORMITY

Certification number:	*****
Year of manufacture:	2023
Component description:	House Frame
Intended use:	Structural steel work construction components for use in building and civil engineering works
Harmonised European standard	EN 1090-1:2009 + A1:2011
Manufacturer:	Shanette Sheds, Kilbeggan, Co. Westmeath
System of attestation of conformity:	2+
Notified Body	NSAI
Notified Body No.	0050
FPC Certificate No.	0050 - CPR – 0537

Essential characteristics	Performance	Harmonised technical specification
[illegible]	[illegible]	[illegible]
[illegible]	NPD	[illegible]
Design	[illegible]	[illegible]
[illegible]	NPD	[illegible]
[illegible]	NPD	[illegible]
[illegible]	Class A1	[illegible]
[illegible]	NPD	[illegible]
[illegible]	NPD	[illegible]
[illegible]	[illegible]	[illegible]

The product identified above conforms to the performance criteria declared in this certificate.
Signed for and on behalf of Shanette Sheds Limited by:

Darren Keoghan, Managing Director, Shanette Sheds Limited, Kilbeggan, Co. Westmeath.

1. I.S. EN 1090 - 1:2009 + A1:2011 (EXC 2) Certification:

This certification ensures that our steel buildings meet the highest safety and quality standards established by European regulations. In simple terms, it means our structures are built to last, ensuring your peace of mind.

2. I.S. EN ISO 9001:2015 Certification:

ISO standards are internationally recognised as a mark of quality management. To achieve ISO 9001 certification, a company must undergo a thorough evaluation by an accredited certification body. At Shanette, it signifies our unwavering commitment to continuous improvement in our design, manufacturing, and supply processes, as we constantly strive for excellence.

Why THESE CERTIFICATIONS MATTER TO YOU?

Our commitment to quality is evident in our CE-marked and certified materials. Every stage of design, manufacturing, and supply is expertly managed by our skilled team.
We use an integrated system that prioritises quality, environmental sustainability, and health and safety across all projects. Our structural-grade steels meet EN standards, offering exceptional strength to withstand heavy snow loads and deliver superior wind resistance.

All Ancillary Certs provided by Shanette

ED ACEI/EI-BCR 1401	*(Ancillary Design Certificate)* Ancillary Certificate of Compliance : Design Commencement Notice | 7 Day Notice	✓
EC ACEI/EI-BCR 1402	Ancillary Certificate of Compliance on Completion *(Ancillary Completion Certificate)* Design of the works	✓
EI ACEI/EI-BCR 1403	Ancillary Certificate of Compliance on Completion *(Ancillary Completion Certificate)* Inspection Plan	✓
CS CIF / 01	Ancillary Certificate of Compliance on Completion Certificate signed by sub-contractor| Specialist Contractor | Specialist assigned by the builder | Main contractor on completion	✓
SD RIAI ACD 02	Ancillary Certificate of Compliance : Design Commencement Notice | 7 Day Notice To be completed by a specialist or unregistered consultant	✓
SC RIAI ACCD 02	Ancillary Certificate of Compliance : Design (Completion) To be completed by a specialist or unregistered consultant	✓
SI RIAI ACI 02	Ancillary Certificate of Compliance on Completion (Ancillary Completion Certificate - Inspection) To be completed by a specialist or unregistered consultant	✓

NSAI CERTIFIED

CE

EN 1090

ISO 9001

CHECKLIST

Please review the information on our website and our brochure to gain a clear understanding of our operations.

At Shanette, we are not a building company; we are a specialist off-site steel frame manufacturer. We construct the superstructure of your project – including exterior walls, interior walls, and roof trusses – all produced as panels and sections in our factory. These components are then transported to your site and installed in just a matter of days.
Please note that we install the house panels on foundations prepared by others. Once we have completed the structural frame, you or your builder can proceed with the remainder of the construction.
Our steel frame buildings are designed to suit most projects. However, as with any job, the more customised and off-standard your design is, the higher the cost. Therefore, if you are working within a budget, we recommend keeping your design both innovative and straightforward.
To provide you with an accurate quote for your steel frame structure, please supply the following details:

WHAT DO WE NEED FROM YOU TO PROVIDE A QUOTE?

- [ ] **Architect / Engineer:**
  Are you working with an architect or engineer?
- [ ] **Accurate Drawings:**
  Do you have a complete set of drawings for your project?
- [ ] **Planning:**
  Have you planning permission?
- [ ] **Wall Type:**
  Decide if you will be using masonry walls or external insulation and render?
- [ ] **Exterior Wall Build-Up:**
  Have you chosen an exterior wall build-up for your project?
- [ ] **Target U-Value:**
  Have you selected a target U-value for your exterior walls?

SCAN ME

(Please refer to our brochure by scanning the QR code for the different wall build-up options available.)

Providing this information will help us better understand your project requirements and offer you a competitive and accurate quote. If you have any questions or need further assistance, please do not hesitate to get in touch.

CONTACT US TODAY!

Dublin 01 459 4993
Kilbeggan 057 93 32294
thomas@shanette.ie
darren@shanette.ie
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SHANETTE
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Tullamore Road. Kilbeggan. Co. Westmeath. N91 PC56
160 JFK Road. JFK Industrial Estate. Dublin 12. D12 PY54

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