

trueform



In partnership with



GREEN ROOF SHELTERS

ECO FRIENDLY & SUSTAINABLE SHELTERS

DESIGNED TO ALLOW FOR HABITAT CREATION
AND LOW MAINTENANCE NATIVE PLANTING

An advertisement for trueform is displayed on a shelter. The ad features the trueform logo at the top left, followed by the headline "We believe in the power of community!". Below this, it states "We're not just building infrastructure, we're building futures." and shows a photograph of two women jogging on a path. At the bottom of the ad, the website "trueform-outdoor.com" is listed. The shelter itself has a green roof with various plants and a sign that says "WALK CYCLE ENJOY".

trueform
Inspiring places. Improving lives.

We believe in the **power of community!**

We're not just building infrastructure, we're building futures.

WALK CYCLE ENJOY

trueform-outdoor.com



Introducing Trueform Green Roofs



Trueform proudly pioneered the design and installation of Green Roofs in the UK, being the first company to install a Green Roof in Britain, and remaining at the forefront of green infrastructure ever since.

Our Green Roofs are an innovative solution designed to foster biodiversity while helping reduce CO₂ emissions in local environments, whilst delivering a beautiful alternative to more common shelter solutions that will naturally enrich your local environment.

Key Benefits of Trueform Green Roofs

- **Environmentally Enhancing Aesthetics:** Green Roofs add natural beauty to urban spaces while enriching the local ecosystem.
- **Low Maintenance:** Pre-grown in rich substrate, our plant selections are chosen for longevity and robust root systems, ensuring they thrive with minimal upkeep.
- **Durable and Cost-Efficient:** Designed for a long lifespan with minimal maintenance needs.
- **Reduced Heat Flux and Stormwater Runoff:** A practical solution that mitigates urban heating and flooding risks.

Studies indicate that Green Roofs can support up to 172 unique species, reducing:

- Up to 37% of CO₂
- Up to 21% of nitrous acid
- Up to 0.2 kg of dust particles



Supporting Biodiversity

In partnership with wildlife organisations, Trueform Green Roofs play a role in reviving biodiversity in urban areas, offering essential habitats for flora and fauna. England's Local Nature Recovery Strategies identify these efforts as crucial for restoring biodiversity in line with national environmental goals.

“Exposure to greenery, proven to benefit mental health, is estimated to contribute around £6.8 billion to London's economy over 30 years, underscoring the health and economic value of natural spaces.”
(Greater London Authority 2019)

Enhanced Climate Resilience

Trueform Green Roofs support sustainability goals by managing urban temperatures and retaining stormwater—50-80% of rainfall is absorbed by our roofs.

Research shows significant potential for Green Roofs to alleviate the “urban heat island” effect, contributing to reduced energy needs and more sustainable cities. Trueform's specific plant mixtures and substrates optimise water retention and climate adaptability, offering a resilient solution for future environmental challenges.

Sustainability Advantages of Trueform Green Roofs

Trueform Green Roof shelters enhance resilience to climate change through effective rainwater channelling, reducing flood risks, lowering urban temperatures, and contributing to cleaner air.

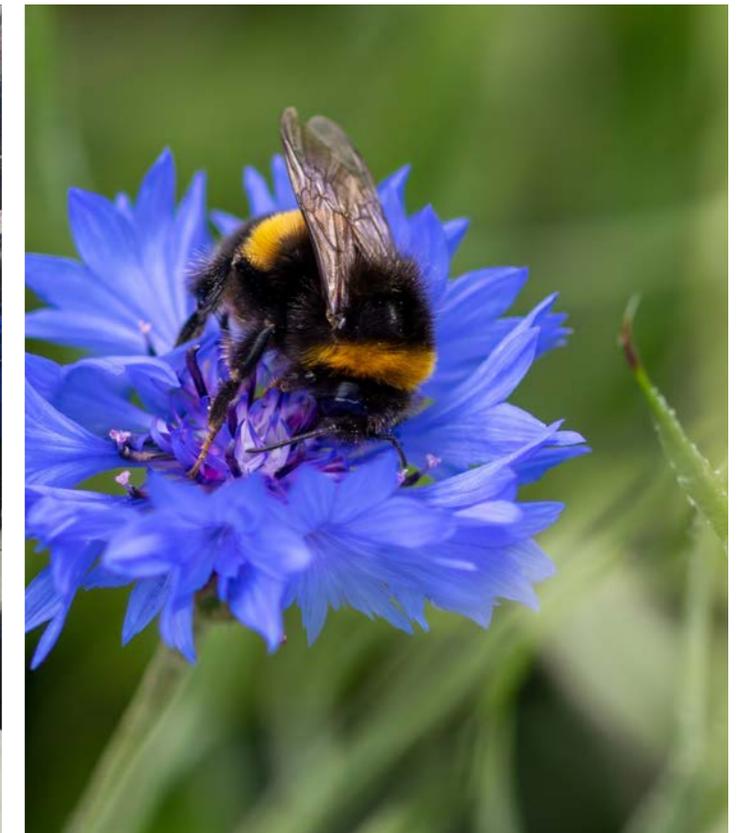
These benefits contribute to a healthier, greener environment that supports both mental and physical wellbeing.

Our roofs combine specialised sedum and wildflower varieties to create habitats for bees and other pollinators, and we can customise plant selections to meet any specific ecological needs.



Green roofs provide cities with long-term ecological, economic, and social benefits, transforming urban areas into more sustainable, resilient, and liveable spaces, via:

- **Enhanced Biodiversity:** Provide habitats for pollinators like bees and butterflies, supporting urban biodiversity.
- **Improved Air Quality:** Capture dust and filter pollutants, reducing CO₂ and improving air quality.
- **Stormwater Management:** Absorb up to 80% of rainfall, reducing runoff, easing drainage systems, and lowering flood risks.
- **Climate Resilience:** Cool surrounding air, mitigating the urban heat island effect, and decreasing energy demand for air conditioning.
- **Extended Roof Lifespan:** Protect roof membranes from UV radiation and temperature extremes, reducing maintenance costs.
- **Energy Efficiency:** Act as natural insulation, stabilising temperatures and reducing heating and cooling costs.
- **Mental Health and Wellbeing:** Access to greenery promotes stress reduction and mental health benefits for city residents.
- **Aesthetic Value:** Add natural beauty to cityscapes, creating tranquil spaces and potentially raising property values.





Delivering Green Roof Solutions via 100% in-House Resources

Trueform's in-house production provides a seamless experience from design through to installation and maintenance, ensuring exceptional quality, consistency, and efficiency at every stage. By managing each step internally, Trueform offers clients unmatched value and peace of mind.

All designs comply with relevant health, safety, and quality BS/EN/ISO standards.

Key Benefits:

- **Customised Design:** Trueform's expert design team works closely with clients to tailor products to exact specifications, creating solutions that are both innovative and perfectly suited to each unique environment.
- **Quality Manufacturing:** With skilled in-house craftsmen and technicians, Trueform guarantees that every product meets its high-quality standards, ensuring durability and excellent performance.
- **Efficient Logistics and Installation:** Trueform's dedicated logistics and installation teams ensure timely delivery and smooth on-site assembly, reducing disruptions and expediting project completion.
- **Comprehensive Maintenance Support:** Trueform's in-house maintenance service ensures that products stay in optimal condition, extending their lifespan and maximising long-term value for clients.

By offering a complete, end-to-end solution, Trueform's in-house production process is a reliable, efficient choice for delivering high-quality, lasting urban infrastructure solutions.



Product Details



Trueform Green Roofs, designed with ecological and sustainable materials, provide modular flexibility for a variety of urban and suburban applications.

Materials and Finishes:

Environmental and Durability Benefits

Trueform's bus shelters are constructed with high-quality, sustainable materials, designed to offer both environmental benefits and exceptional durability. By using recycled and robust materials, we create long-lasting shelters that align with environmental goals while maintaining functionality and aesthetic appeal.

Environmentally Friendly Materials

- **Recycled Aluminium:** Trueform prioritises the use of recycled aluminium for shelter frames. Aluminium is lightweight, highly durable, and can be recycled indefinitely without loss of quality. Using recycled aluminium reduces the need for raw material extraction, significantly lowering the shelter's carbon footprint and supporting a circular economy.
- **Recycled Steel:** Steel is known for its strength and resilience, making it an ideal choice for structural components. By using recycled steel, Trueform reduces greenhouse gas emissions associated with steel production and conserves natural resources. This approach contributes to sustainable development while ensuring structural integrity.

Durable, Long-Lasting Materials

- **Galvanised Steel:** For components exposed to harsh weather conditions, galvanised steel provides unmatched durability. A protective zinc coating ensures high resistance to rust and corrosion, even in extreme climates. Galvanised steel's durability reduces the need for frequent maintenance or replacements, which in turn minimises waste and conserves resources.
- **Coastal Performance Powder Coating:** Trueform applies specialised powder coatings, such as Interpon D2525, to provide additional protection from corrosion, UV exposure, and salt spray in coastal areas. This finish preserves the shelter's appearance and structure, ensuring a long service life with minimal environmental impact.

By choosing sustainable, high-performance materials and finishes, Trueform's bus shelters are designed to withstand diverse environmental conditions, reduce maintenance requirements, and contribute positively to environmental goals. This approach ensures our shelters are not only robust and aesthetically pleasing but also sustainable for future generations.



ENVIRONMENTALLY FRIENDLY



DURABLE & LONG LASTING



MODULAR DESIGN



RECYCLED MATERIALS



REGULAR MAINTENANCE



Scalability

Trueform's modular Green Roof shelter designs are crafted with scalability in mind, allowing for seamless expansion or adaptation to meet changing requirements. The modular approach means that components can be added or removed based on space, functionality, or usage demands without compromising the integrity or aesthetic of the structure.

Our shelters are designed as interlocking modules, which enables flexibility in size and configuration. This approach supports various settings, from busy urban centres requiring larger, multi-panel structures to more compact, rural locations needing simpler units.

Additionally, modularity allows for easy upgrades to incorporate new features like digital screens, additional seating, or enhanced lighting as needs evolve.

Scalability also supports efficient installation and maintenance, with modules designed for quick assembly and minimal disruption.

If a client's requirements grow, additional modules can be installed in a streamlined process, saving both time and cost. This flexibility makes Trueform's modular shelters an ideal, future-proof choice for councils and organisations seeking adaptable solutions, ensuring shelters remain functional and visually cohesive as community needs change over time.

Maintenance and Installation

Green Roof components are assembled off-site at our HQ in a controlled environment, allowing for superior quality control and rapid production as we avoid site-based risks such as weather and traffic effects.

Regular inspections ensure sustainability, and fortnightly maintenance, including fertilisation and trimming, keeps Green Roofs in prime condition. In drought conditions lasting six weeks or more, supplemental watering may be required.

Diverse Plant Selections

Our roofs feature a curated mix of native wildflowers and sedum, specially chosen to support biodiversity and resilience.

These flowering species provide a stunning display from spring to autumn and are known to thrive in dry conditions, requiring little maintenance while supporting pollinators. Our wildflower and grass selection promotes ecological diversity, and the seed mix ensures seasonal renewal for long-lasting beauty.

Wildflower Varieties:

- **Thrift** - Flowering period: May to September Approx. height 25cm
- **Common Daisy** - Flowering period: May to July Approx. height 25cm
- **Wild Strawberry** - Flowering period: Summer Approx. height 5cm
- **Kidney Vetch** - Flowering period: June to September Approx. height 30cm
- **Poppy** - Flowering period: Spring Summer Approx. height 60cm
- **Pansy** - Flowering period: May to October Approx. height 20cm
- **Thyme** - Flowering period: May to September Approx. height 15mm
- **Birdsfoot** - Flowering period: May to September Approx. height 10cm
- **Wild Marjoram** - Flowering period: Spring/Summer Approx. height 10cm
- **Cowslip** - Flowering period: March to May Approx. height 25cm
- **Selfheal** - Flowering period: June to September Approx. height 20cm

Sedum Varieties: (Year-round hardy plants)

- **Biting Stonecrop** - Flowering period: June-July Approx. height 10mm
- **Czar's Gold** - Flowering period: May to August Approx. height 10mm
- **Sedum Hispanicum** - Flowering period: very little flowers Approx. height 6mm
- **Sedum Album** - Flowering period: June to August Approx. height 10mm
- **Sedum Pullchellum** - Flowering period: May to July Approx. height 10mm



Environmental Impact of Trueform Green Roofs



Green roofs bring a range of advantages to urban spaces, contributing positively to the environment, economy, and overall quality of life.



By integrating vegetation atop buildings, green roofs offer a sustainable approach to urban challenges, making cities cleaner, cooler, and more liveable.

Key Benefits of Green Roofs:

- **Enhanced Biodiversity:** Green roofs provide habitats for bees, butterflies, and other pollinators, promoting biodiversity in urban environments.
- **Improved Air Quality:** By capturing dust and filtering pollutants, green roofs contribute to cleaner air and reduced CO₂ levels in cities.
- **Stormwater Management:** Green roofs absorb up to 80% of rainfall, reducing stormwater runoff, easing the strain on drainage systems, and lowering flood risks.
- **Climate Resilience:** By cooling the surrounding air, green roofs combat the urban heat island effect and reduce the need for air conditioning, leading to energy savings.
- **Extended Roof Lifespan:** Vegetation shields roof membranes from UV radiation and extreme temperature changes, prolonging their durability and reducing maintenance costs.
- **Energy Efficiency:** With natural insulation properties, green roofs help maintain steady indoor temperatures, reducing heating and cooling costs year-round.
- **Mental Health and Wellbeing:** Access to greenery is proven to reduce stress and improve mental health, enhancing the quality of life for urban residents.
- **Aesthetic Value:** Green roofs transform grey cityscapes with natural beauty, creating tranquil green spaces that enhance community aesthetics and potentially increase property values.

Green roofs represent a holistic solution to modern urban challenges, delivering long-term ecological, economic, and social benefits to cities and their communities.



Why choose Trueform?



Trueform is recognised as the UK's and world's leading provider of shelters, canopies, and intelligent public infrastructure. Established in 1977, we have installed over 100,000 products in towns and cities worldwide, building a strong reputation for excellence, quality, and reliability in on-street infrastructure.

- **First company to Deliver Green Roofs:** Trueform's pioneering role as the first company to deliver Green Roofs demonstrates our commitment to innovation and sustainability. Our proven expertise ensures clients receive reliable, high-quality installations that enhance urban resilience, biodiversity, and energy efficiency, setting industry standards and delivering immediate and long-term environmental and economic benefits.
- **Collaborative Approach:** Trueform partners with a wide range of stakeholders, including local councils, transport authorities, architects, and contractors, to deliver customised infrastructure solutions tailored to each location's needs. This collaborative model supports efficient, high-quality installations that enhance urban mobility and accessibility.
- **Comprehensive Services:** Our expertise extends beyond product supply, encompassing design, manufacturing, installation, and ongoing maintenance. We provide a fully managed service for premium public transportation infrastructure, smart city initiatives, e-mobility, and digital advertising, ensuring a seamless delivery from start to finish.
- **Advanced Field Support:** Trueform's field support includes installation, logistics, commissioning, project management, maintenance, and remote monitoring. These services are critical in maintaining the quality and longevity of our installations in both high-traffic urban centres and environmentally challenging locations.
- **Proven Track Record in Global Markets:** With nearly 50 years of international experience, Trueform supports some of the world's largest cities across sectors such as bus, rail, BRT, light rail, pedestrian wayfinding, and air transport. Our designs meet the high standards of modern, sustainable cities.
- **Supporting Sustainable Mobility:** Trueform's solutions encourage public transport use by creating a safe, reliable, and attractive travel experience that reduces congestion and lowers carbon emissions. Our infrastructure promotes a modal shift towards public transport, enhancing accessibility and benefiting the environment.

Trueform's intelligent and durable solutions make us a trusted partner in urban mobility, transforming the transit experience and supporting the future of sustainable, connected cities.
