



SIXTY82™

# OLYMPION

## Roof System

The Innovators

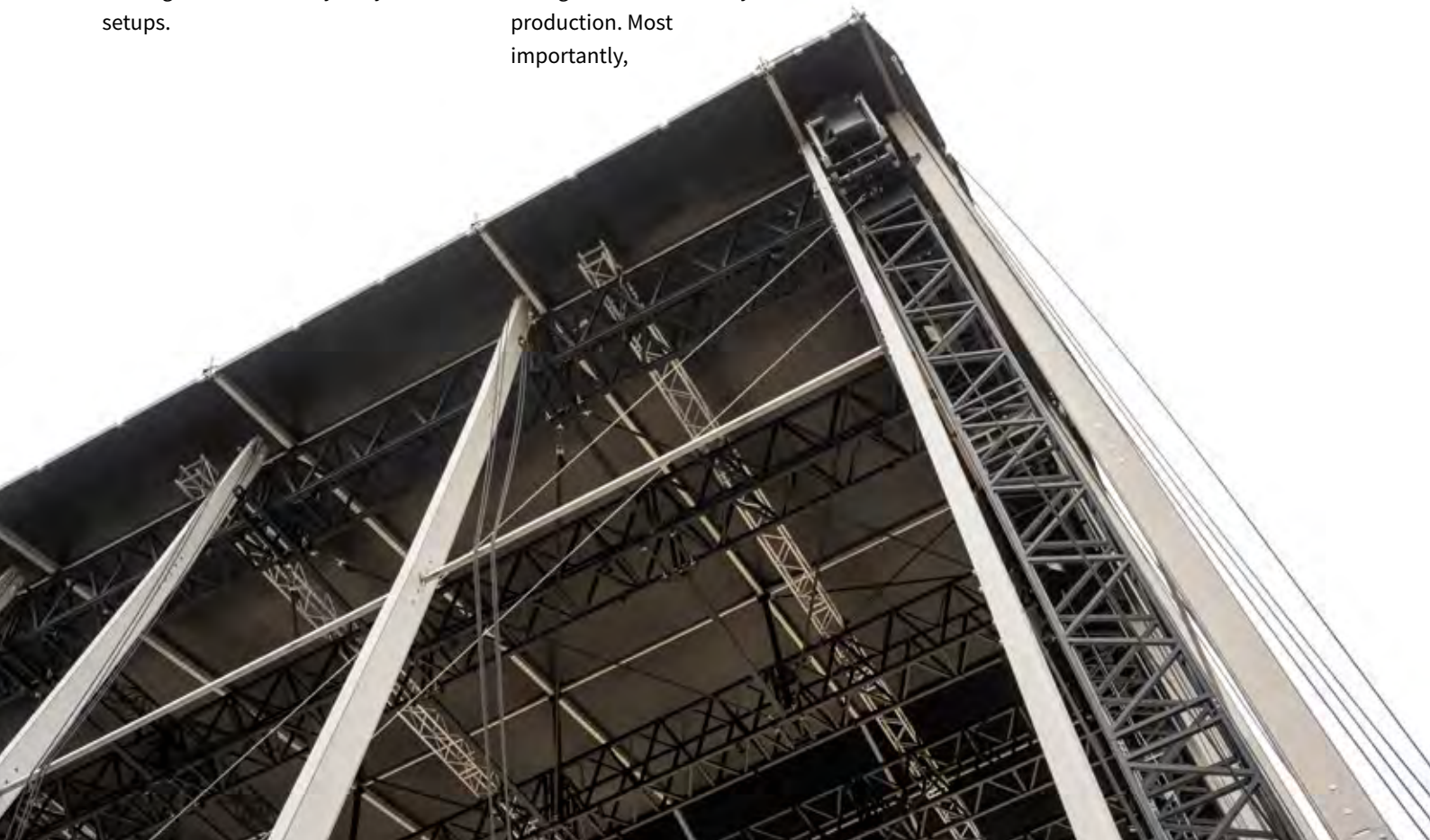
# Introducing the **Olympion** Roof System

**The Olympion Roof System sets a new benchmark for temporary event structures. Engineered for reliability, performance, and adaptability, it combines high-grade materials with smart modular design to meet the demands of modern productions. Whether used for concert, festivals or other large-scale events, Olympion delivers uncompromising strength and fast deployment.**

Designed around standardized scaffolding dimensions, the Olympion Roof System integrates seamlessly with existing scaffolding platforms including direct compatibility with Sixty Scaff decks. Its core structure offers generous dimensions and a high load capacity ranging from 50 - 85 tons, making it ideal for heavy-duty event setups.

Thanks to its modular design, the system is scalable in width and adaptable to a wide range of site layouts. Smart engineering reduces build time significantly compared to traditional roof structures, while a variety of add-ons – such as LED wings and side stages – allow for tailored configurations to suit any production. Most importantly,

the Olympion Roof System is fully compliant with the latest international safety and structural standards, ensuring total confidence for both engineers and event organizers.

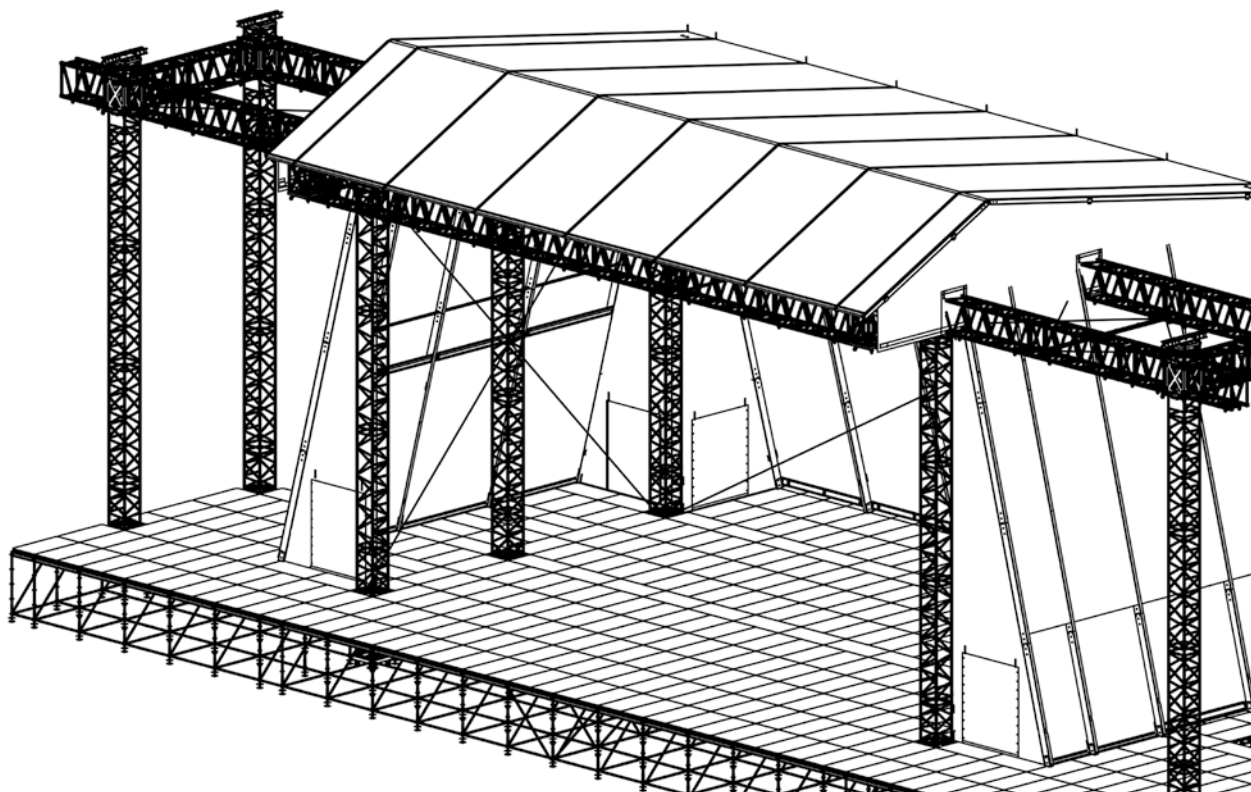


## KEY FEATURES

- Modular and Scalable Design
- High Load Capacity (50-85 tons)
- XXL119 Truss System with Easy Pre-camber Option
- XL77 Tower System
- Tower Base Integration in Scaffolding
- Based on Standard Scaffolding Dimensions
- Keder Roof and Wall Integration
- Optional Side Houses & LED Wings

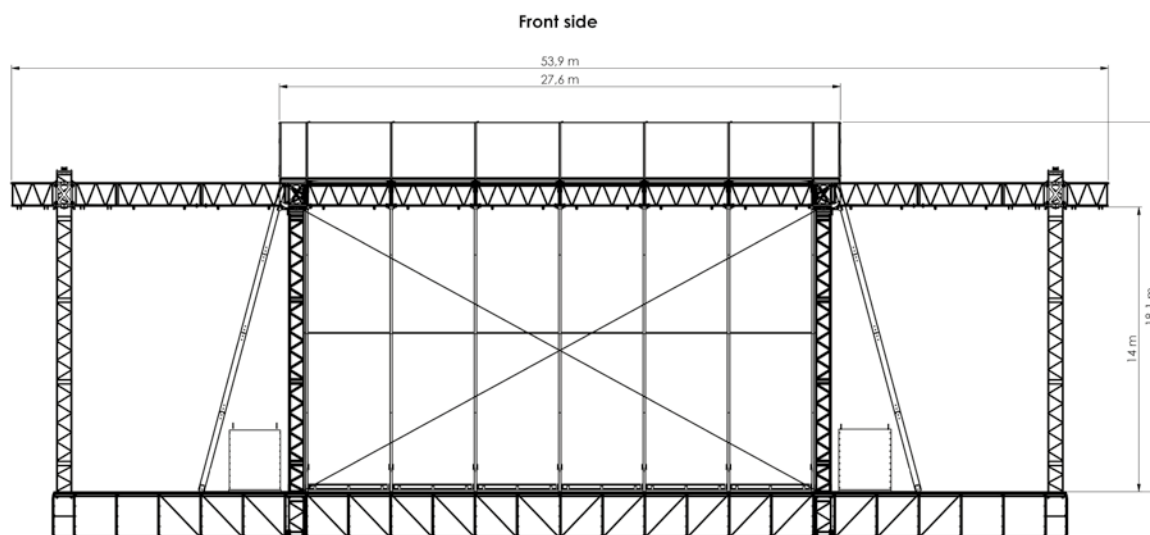
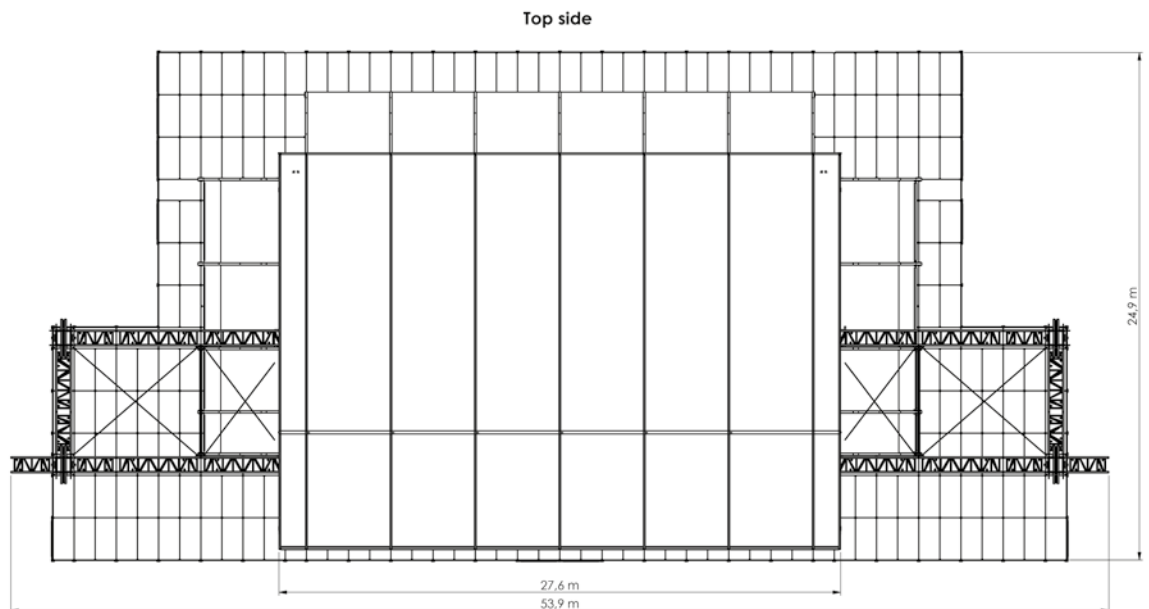
## General Specifications

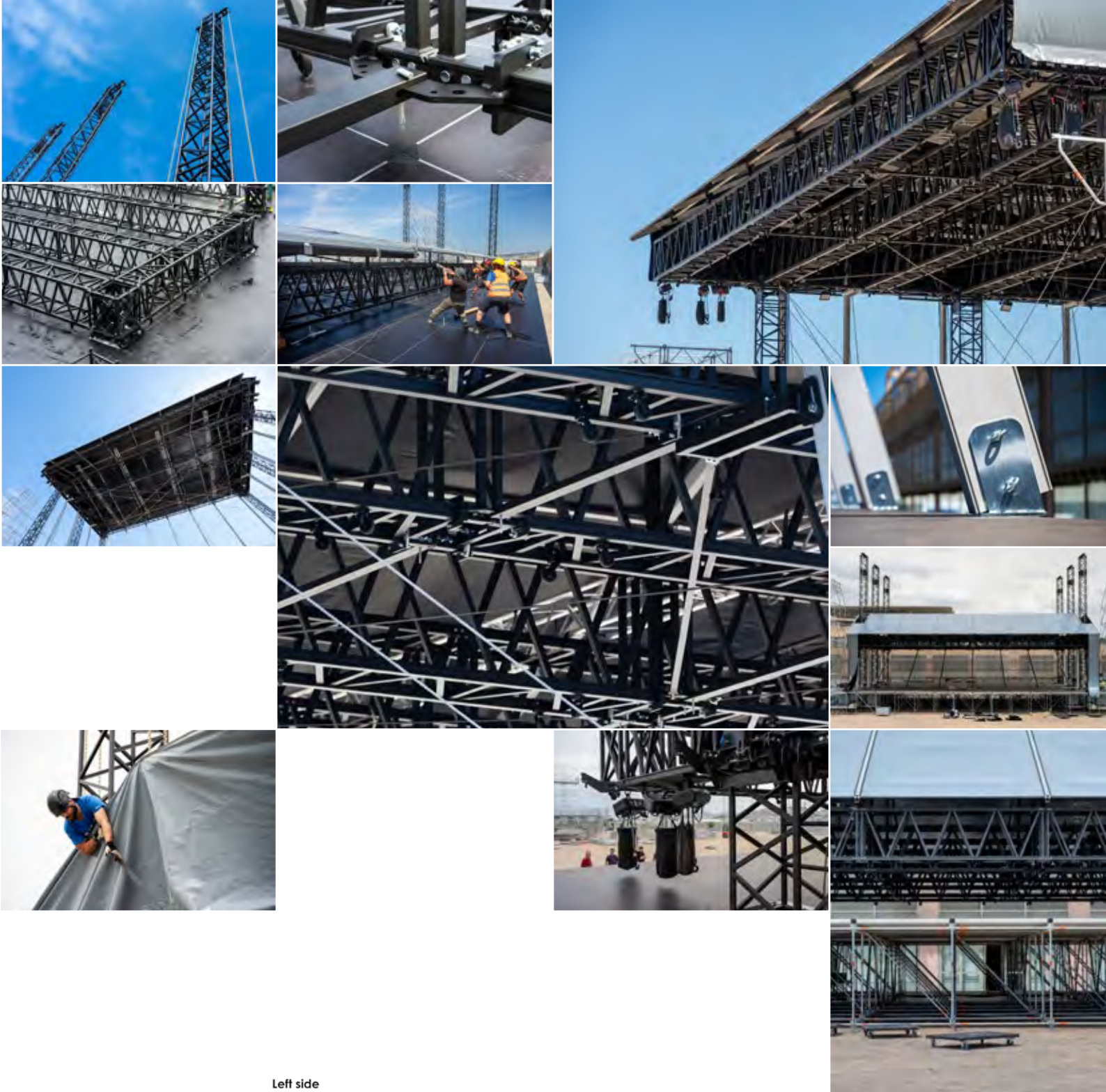
Specification	Details
Main Roof Dimensions	25 m (W) x 18m (D) x 14 m (H)
Load Capacity	50 - 85 tons (depending on configuration)
Scalability	Scalable in width in 4.14 m increments
Structural Basis	Designed around standard scaffolding dimensions
Deck Compatibility	Integrates with Sixty Scaff deck system and other scaffolding brands
Deck Construction	Aluminium frame, 15mm plywood, double beam with anti-slip top layer
Build Efficiency	Smart design allows significantly faster assembly and dismantling
Add-On Options	Compatible with LED/sound wings and side stages
Compliance	Designed and fully compliant with the latest EN 17879:2024 standard



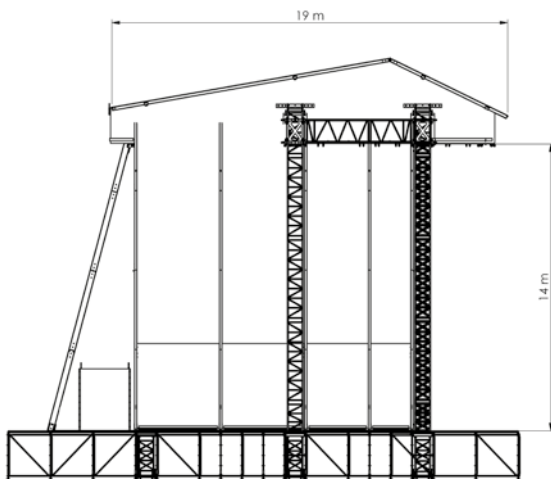
## Roof Technical Specifications

Component	Specification
<b>Towers</b>	XL77 Aluminum or Steel Towers
<b>Bases</b>	Integrated in scaffolding system
<b>Main Truss</b>	XXL119 Truss
<b>Raked Side Houses</b>	4.14 m x 13.5 m
<b>Load Capacity - PA Front Corners</b>	3000 kg per corner
<b>Load Capacity - LED Wing Side Corners</b>	2000 kg per corner
<b>Staging</b>	Scaffolding combined with Sixty82 Scaff Decks
<b>Canopy</b>	Grey/Black PVC with Keder profiles
<b>Hoists</b>	Main roof 10 x 2500 kg, LED wings 4 x 2500 kg
<b>Ballast Requirements</b>	35 to 55 tons
<b>Back Area</b>	4.14 m x 25 m





Left side

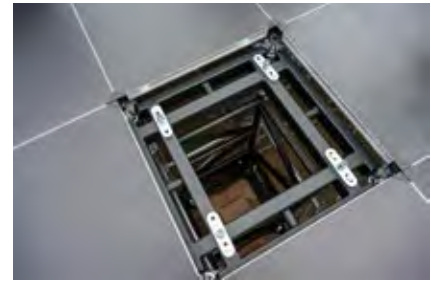


### Roof Dimensions

Specification	Measurement
Width (free span)	25 m
Depth	16 m
Clearance from stage	14 m
Clearance from ground	16 m
Total height	20.1 m
Width including side houses	35.9 m
Width including LED Wings	53.9 m
Depth including back area	20.1 m

## 1. Staging

The Olympion Roof System is designed to align with standard stage scaffolding dimensions (2072), allowing for straightforward adjustments in roof width. By utilizing these widely available standard scaffolding sizes, the setup process becomes straightforward and quick. This compatibility removes the necessity for customized adapter solutions, which are often costly and complex to produce. Additionally, the integration of Sixty82 Scaff Beams and Scaff Decks contributes to a fast, and rigid stage floor, optimizing both construction efficiency and overall stability.



## 2. Tower System

**The towers consists of XL77 aluminium towers with integrated treads, for easy and secure climbing.**

The tower bases are integrated directly in the scaffolding substructure, significantly increasing the overall strength and stability of the construction. This design ensures effective load distribution throughout the entire structure. Additionally, the towers include an integrated deadhang safety pin system, enhancing the safety and ease of deadhanging operations. For applications requiring higher load capacities, XL77 steel towers are also available.

### 3. Horizontal Grid

**The horizontal grid is built using steel sleeve blocks combined with newly developed XXL119 trusses.** These XXL119 trusses feature a uniquely engineered main chord profile that enables strong yet straightforward connections using steel connection plates. This design simplifies assembly but also allows for an easy application of a pre-camber to the horizontal spans. As a result, the bridge trusses remain level under load, avoiding the typical downward sag often seen in large-span roof systems. The system also incorporates an efficient approach to compression bracing. Rather than relying on bespoke truss designs or integrating the braces during the build of each bridge, the compression braces are added afterward in a quick and straightforward way. This means that all bridge trusses can be kept



standard, and the brace installation process is quick and foolproof,

improving both setup speed and structural consistency.



### 4. Keder Roof & Wall integration

**The Olympion Roof System features a canopy structure built with keder profiles that connect via adapters to the XL119 roof trusses.** This connection method ensures quick, secure installation while maintaining structural integrity. The tower structures and hoists are positioned entirely beneath the canopy, resulting in a continuous, rainproof roof surface without interruptions or exposed components. The wall system uses high strength (300mm) keder profiles, offering a clean and professional appearance while ensuring strength and weather resistance. Because the roof is based on standard scaffolding dimensions, the wall

canopies naturally align with the vertical scaffolding uprights, making installation straightforward and repeatable across different setups. The use of keder walls

also provides flexibility in design, allowing for the easy integration of multiple doors or access points as needed.



## Loading Capacity

Load Type	Specification
Uniformly Distributed Load (UDL)	50 – 85 tons (depending on configuration)
LED Wing Load Capacity	600 kg per meter
Front PA Load Capacity	3000 kg per tower
LED Wing PA Load Capacity	2000 kg per LED wing
Max Peak Gust Wind Speed – In Service	20 m/s
Max Peak Gust Wind Speed – Out of Service	35.5 m/s

## Options & Add-Ons

Option	Specification / Description
LED Wings	10.35 m free span wings for LED screens or line array systems
Raked Side Houses	4.14 x 13.5 m covered structures for additional stage or technical space
Staging Extensions	Scalable platform expansions integrated into the scaffolding system
Deadlegs	Additional rear support legs under the back truss for increased loading capacity
Powder Coating	Fine Texture black powdercoating available



# About **Sixty82**

**SIXTY82 B.V. is an innovative, Netherlands-based manufacturer specialized in premium modular staging and truss systems, trusted worldwide for delivering reliable, safe, and user-friendly structural solutions. Born from decades of combined expertise within the entertainment and events industry, SIXTY82 blends unmatched craftsmanship with advanced engineering to create solutions that meet the highest standards of performance and safety.**

At the heart of SIXTY82's success lies a commitment to precision and flexibility, ensuring every product not only meets but exceeds client expectations. Our dedication to custom and unique solutions distinguishes us from the competition. By leveraging cutting-edge design and manufacturing techniques, we deliver tailor-made systems that optimize ease of installation, structural integrity, and durability.

Our core strengths include pioneering designs such as the XXL119 trussing system with its unique chord profile for effortless pre-cambering, and the robust XL77 tower system, providing unmatched stability and rapid setup. Sustainability and customer-centricity are integral to our philosophy, with a continuous focus on developing solutions that reduce setup time, enhance safety, and contribute to a seamless, efficient event experience.

Choosing SIXTY82 means investing in innovation, reliability, and expertise—qualities that have firmly established our brand as a global leader in modular event structures.







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ΔΕΗ

EJEKT FESTIVAL 20 YEARS

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SIXTY82™

SIXTY82 BV  
Ampèrelaan 9 | 9207 AM Drachten | The Netherlands  
+31 88 13 422 00  
info@sixty82.nl  
www.sixty82.nl

The Innovators