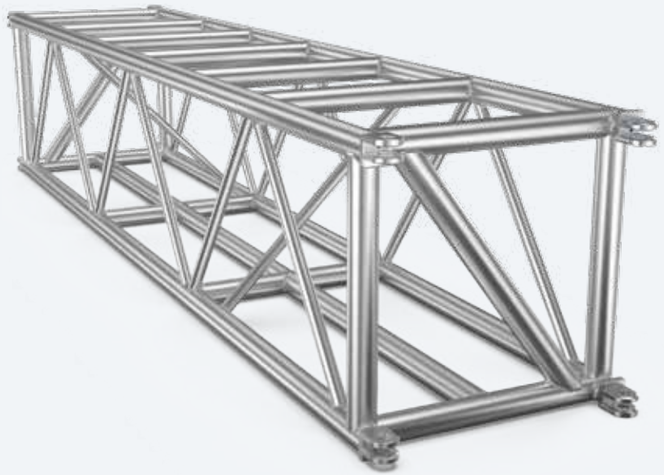
FORK TRUSS

QL52Z



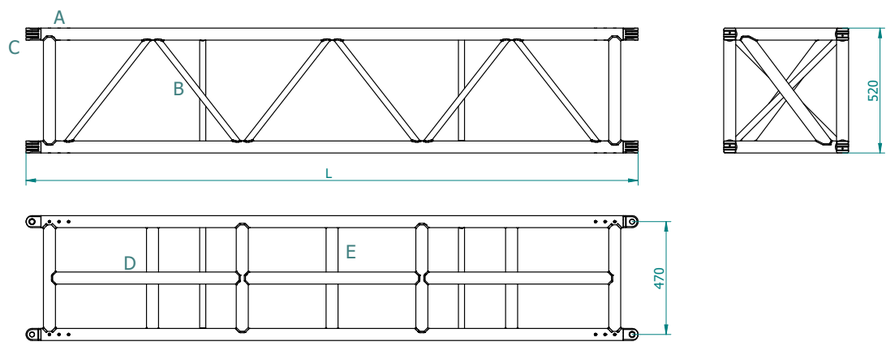
MIDDLE CHORD TRUSS

Square-section High-Load aluminium truss with 52 cm sides.

The addition of the fifth central chord balances the load in applications requiring the support of heavy loads, especially LED walls.

Available in lengths of 100, 150, 200, 250 and 300 cm. Other lengths on request.

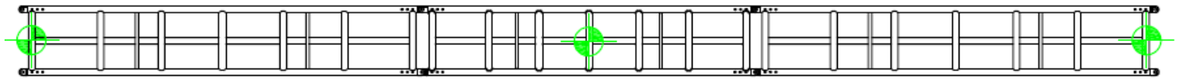
Chords A	Diagonals B	Ends C	Chord D	Diagonals E	Connection systems
Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	Extruded tube Ø 30 × 3 mm EN AW – 6082 T6	Aluminium Forks Connector EN AW – 6082 T6	Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	Extruded tube Ø 50 × 4 mm EN AW – 6082 T6	KHLP: cylindrical pin + safety R-clip



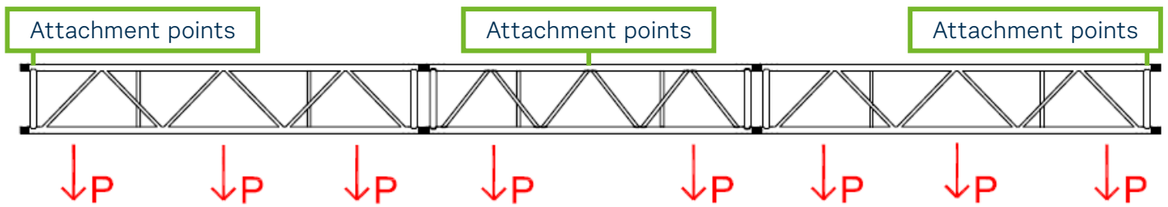
Safety Factor and Dynamic Factor

The use of a truss with an additional central chord allows for a better distribution of the suspended load. As a case study, we report an example where two 3-meter trusses and one 2.5-meter truss in the center were used, with 8 rigging points and 3 chain hoists.

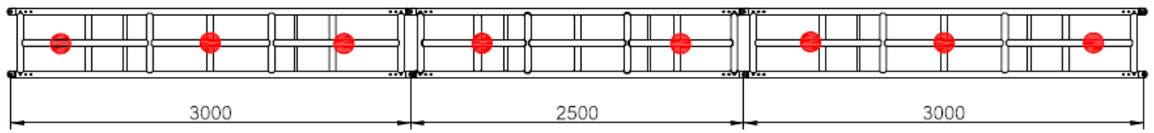
Top view:



Side view:



Bottom view:



P = **285 kg** (safety and dynamic factor included).
A **safety factor of 1.5** has been applied in accordance with EN 1990-1 (Eurocode) for variable loads.

NOTE. During lifting and lowering operations with electric chain hoists, starting and stopping generate additional dynamic forces, expressed by a dynamic factor. **The dynamic factor varies depending on several parameters**. In this simulation, a **dynamic factor of 1.2** has been applied.

This represents a basic configuration, illustrating the behavior of a structure with defined length and loads. Our technical team is available for consultation regarding applications with different configurations.