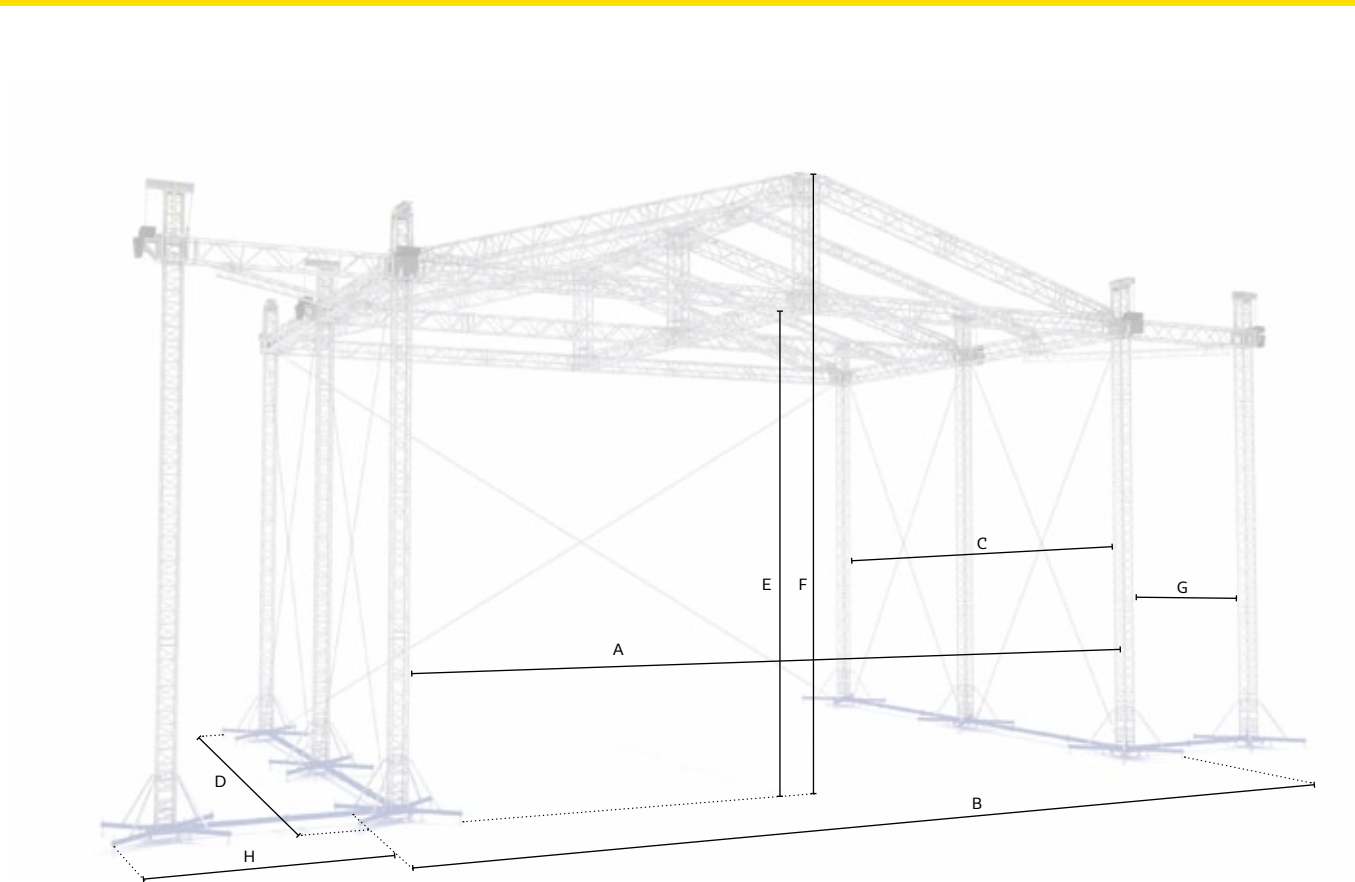


# MR3 saddle roofs

- MR3 Saddle Roof structure for temporary events
- MT2 self-climbing towers up to 12.5 m high (41.01 ft) with M520 main grid
- Various standard sizes and optional front cantilever available
- Fast connection for quick, simple and secure assembly
- Supplied complete with internal wind bracing wires & connection accessories
- Full structural calculation report & build manual available
- PVC roof colour and side wall options
- Integrated tower base / stage components available
- PA wing options available on request

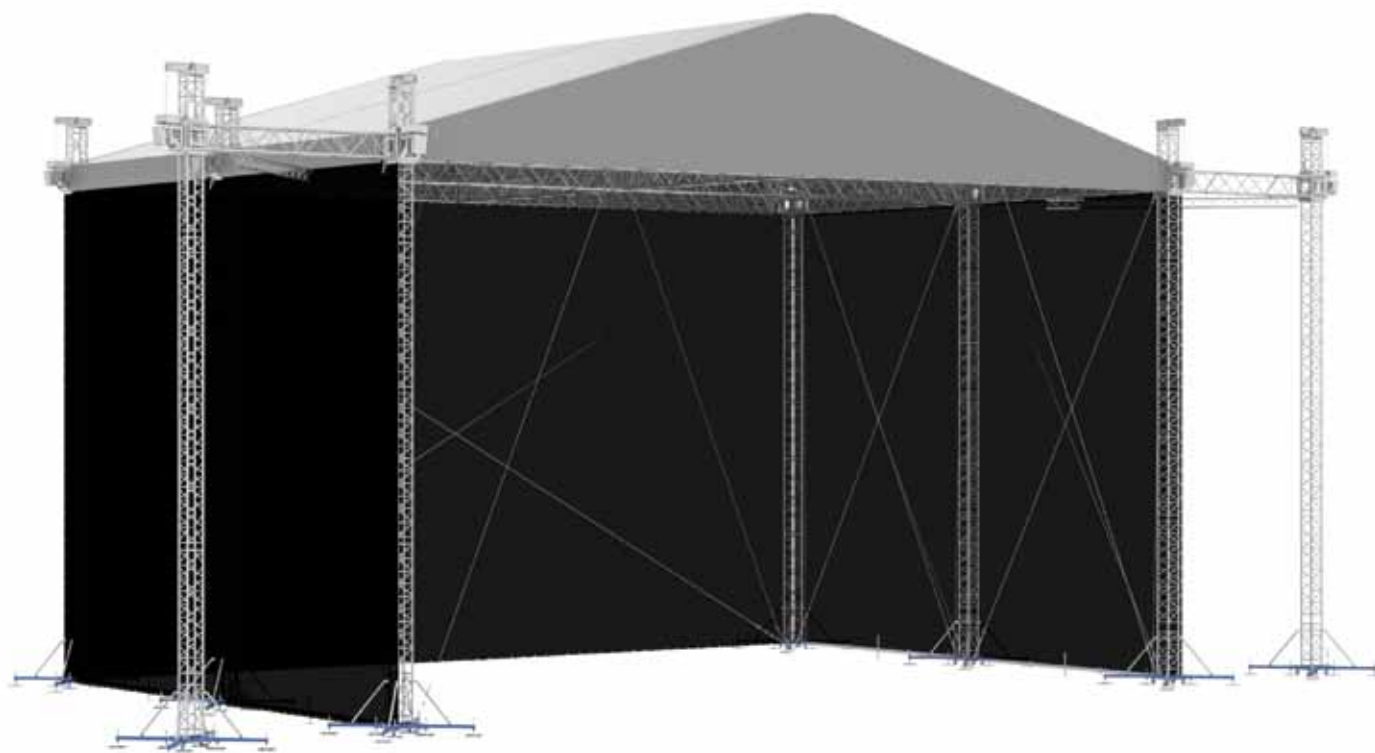


## Technical specifications

|            |   | Stage size ›                     | 20x14 m<br>(65.62x45.93 ft) | 18x14 m<br>(59.06x45.93 ft) |  |
|------------|---|----------------------------------|-----------------------------|-----------------------------|--|
| Dimensions | A | Internal width                   | 20.53 m<br>(67.34 ft)       | 18.53 m<br>(60.79 ft)       |  |
|            | B | Overall external width           | 23.15 m<br>(75.95 ft)       | 21.15 m<br>(69.39 ft)       |  |
|            | C | Internal depth                   | 14.80 m<br>(48.56 ft)       | 14.80 m<br>(48.56 ft)       |  |
|            | D | Overall external depth           | 16.65 m<br>(54.63 ft)       | 16.65 m<br>(54.63 ft)       |  |
|            | E | Clearance                        | 11.50 m<br>(37.73 ft)       | 11.50 m<br>(37.73 ft)       |  |
|            | F | Overall height                   | 15.02 m<br>(49.28 ft)       | 15.02 m<br>(49.28 ft)       |  |
|            | G | PA wing - internal width         | 4.31 m<br>(14.14 ft)        | 4.31 m<br>(14.14 ft)        |  |
|            | H | PA wing - overall external width | 4.71 m<br>(15.45 ft)        | 4.71 m<br>(15.45 ft)        |  |

## Loading capacity

|                  |  | Stage size ›                | 20x14 m<br>(65.62x45.93 ft) | 18x14 m<br>(59.06x45.93 ft) |  |
|------------------|--|-----------------------------|-----------------------------|-----------------------------|--|
| Loading capacity | Main grid  | Uniformly distributed (UDL) | 7420 kg<br>(16344 lbs)      | 7791 kg<br>(17161 lbs)      |  |
|                  |  | Point loads                 | 7500 kg<br>(16520 lbs)      | 7875 kg<br>(17346 lbs)      |  |
|                  | PA wing  | Central Point load (CPL)    | 1500 kg<br>(3304 lbs)       | 1500 kg<br>(3304 lbs)       |  |
|                  | * See structural report for exact load positioning |                             |                             |                             |  |



## Operational Specifications

|                    |  |   |
|--------------------|--|---|
| Design standards   | <p>DIN EN 13814 (2005)</p> <p>DIN 1055-4</p> <p>DIN 4113</p> <p>DIN 18800</p> <p>• All of our structures are produced under EN 1090 EXC2 as standard and include the necessary guy wires, instruction manual and engineering report</p>  | <p>Fairground and amusement park machinery and structures</p> <p>Actions on structures / wind</p> <p>Design of aluminium structures</p> <p>Design of steel structures</p> |
| Wind management    | <p>In service</p> <p>17.8m/s - 64km/h - 40mph (Max. gust wind speed)</p> <p>* Calculations based on 100% closed side canopies</p> <p>* Side canopies to be removed above this wind speed if not considered</p> <p>Out of service</p> <p>27.5m/s - 100km/h - 62mph (Max. gust wind speed)</p> <p>Training recommended</p>   |   |
| Ballast            | <p>Can vary from 3900kg / 8590lbs up to 10400kg / 22907lbs per tower and depends on:</p> <ul style="list-style-type: none"> <li>• If tower bases are interconnected or free standing</li> <li>• Layout of canopies</li> <li>• Self-weight of load or interconnected stage is considered (Might be deducted from ballast under certain conditions)</li> <li>• Friction material used between screw jacks, padding and sub soil</li> </ul> |   |
| Canopy & sidewalls | <p>B1 fire retardant canopy on request, keder profiles optional</p> <p>Silvergrey; other colors or inside black on request</p> <p>B1 fire retardant side nets in compliance with latest Eurocodes</p>  |   |
| Customized         | Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) upon request  |   |

## Transportation data

|                  | Stage size >                                 | 20x14 m | (65.62x45.93 ft) | 18x14 m | (59.06x45.93 ft) |  |
|------------------|--|---------|------------------|---------|------------------|--|
| Self-weight      | * Exact self-weight depends on configuration | 7300 kg | (16079 lbs)      | 6980 kg | (15374 lbs)      |  |
| Transport volume | * Packed in carton boxes and bubble foil     | 80 m³   | (2825 ft³)       | 70 m³   | (2472 ft³)       |  |