

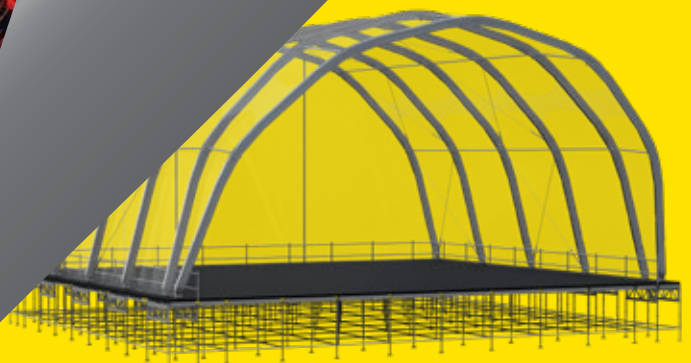


Roofs

We've got you covered

Category brochure

Flexibility Behind Your Show



Full range of our roofs solutions



About Us



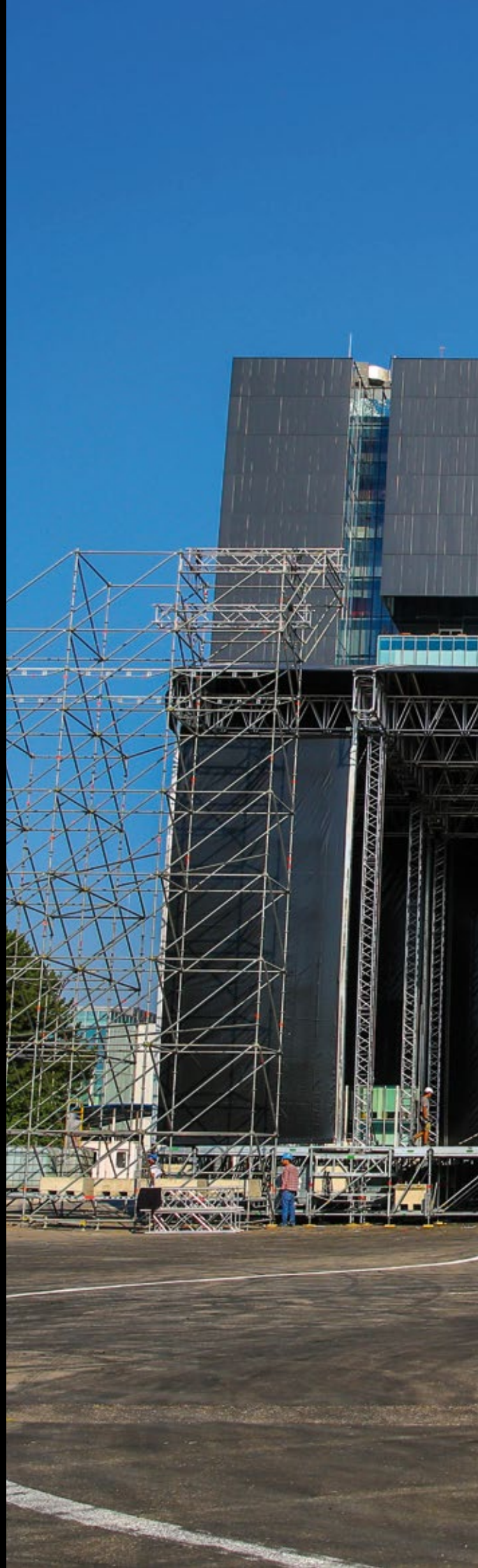
MILOS was the brainchild of young Czech DJ, Franti Zykan, who started manufacturing truss in 1994 out of a small garage in the Czech Republic. He chose MILOS as the name of his company in honour of his grandfather, with whom he spent a large part of his childhood.

From the very start, Franti adhered to two defining principles in the manufacture of MILOS truss products: simplicity and affordability, without compromising on quality. MILOS customers appreciated and valued this philosophy, which led to the quick growth of MILOS. Within a few years, it established a second office in Germany and then further expanded into the UK, the United States and China.

Fast forward to today, more than a quarter of a century after first opening the doors of its garage, and MILOS has grown into an international brand with a presence in 40 countries on every continent of the globe.

MILOS is currently driven by incredibly enthusiastic professionals and operates two state-of-the-art factories in Europe and China. Both factories follow a unique production process that was developed in-house in the Czech Republic. It focuses on a flexible production process that was successfully transferred from the automotive industry. Designed to solve the problem of constantly changing priorities, its production line operates at high speed, manufactures products with flawless quality and reduces manufacturing costs. Never content to rest on its laurels, MILOS continues to streamline and refine its production process year after year.

Going forward, MILOS will continue its long tradition of offering the highest quality products that feature professional craftsmanship, cutting edge technology and market leading user-friendliness.



Roofs

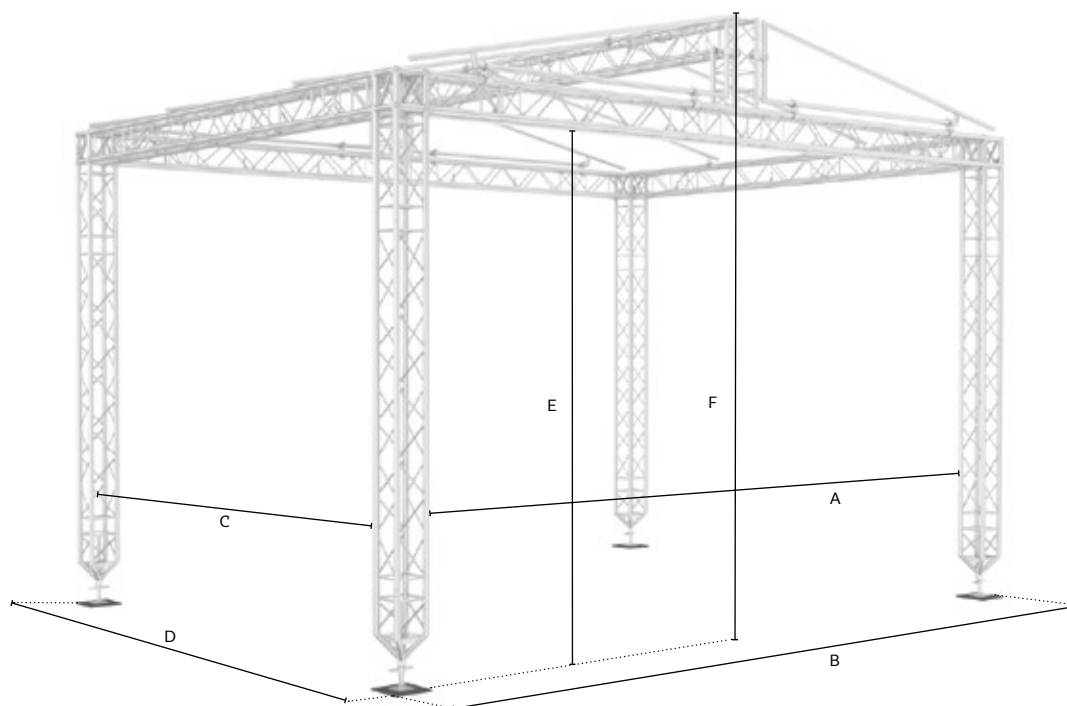
We've got you covered



Use QR code
for full range

MRO 6×5 No Guy Wires

- 6×5 m (19.68×16.40 ft) aluminium roof designed for medium-sized events
- No guy wires required due to implementation of Multicube HD
- Decreased times for roof construction
- Reduced ballast requirements
- Loading capacity up to 2962 kg (5935 lbs)
- Up to 30 m/s wind loading in accordance with DIN EN 17879



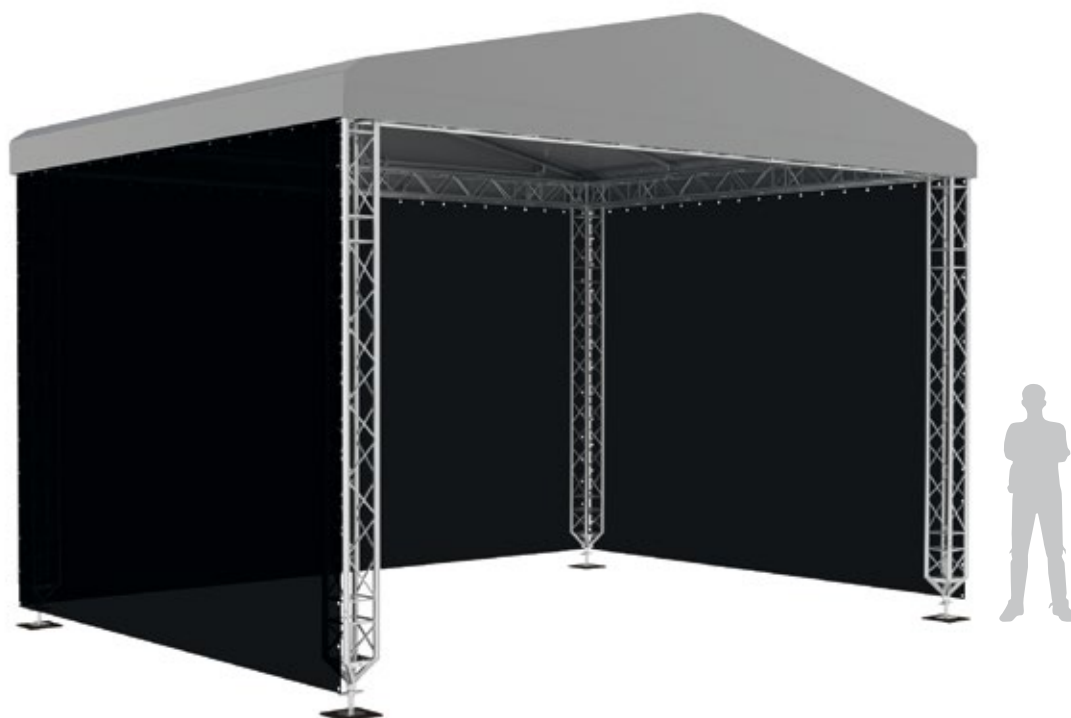
Technical specifications

MRO - NGW 6×5

		Size ›	6×5 m	(19.68×16.40 ft)
Dimensions	A	Internal width	6.13 m	(20.11 ft)
	B	Overall external width	6.73 m	(22.08 ft)
	C	Internal depth	4.42 m	(14.45 ft)
	D	Overall external depth	5.00 m	(16.40 ft)
	E	Clearance	3.95 m	(12.96 ft)
	F	Overall height	4.95 m	(16.24 ft)

Loading capacity

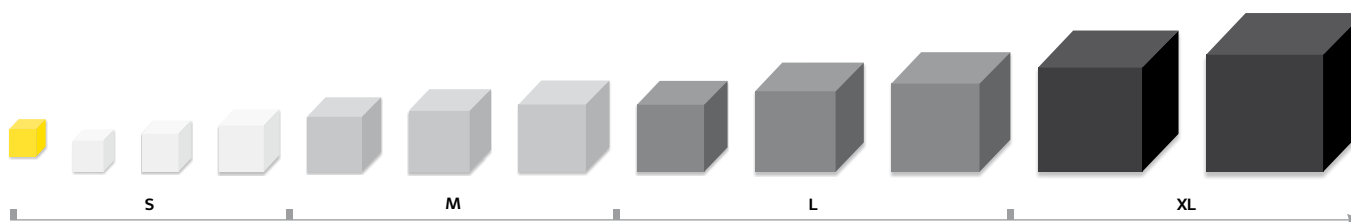
Loading capacity	Size ›	6×5 m	(19.68×16.40 ft)
	Main grid in total	2292 kg	(5053 lbs)
	PA load	400 kg	(882 lbs)
	Loading capacity	2692 kg	(5935 lbs)



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings Out of service * Side claddings and equipment with large areas exposed to wind need to be removed	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) Up to 30.0 m/s – 108 km/h – 67 mph (depending on terrain categories)
Ballast	Depending on configuration	
Canopy & sidewalls	B1 fire-retardant canopy, single-piece format Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocode	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

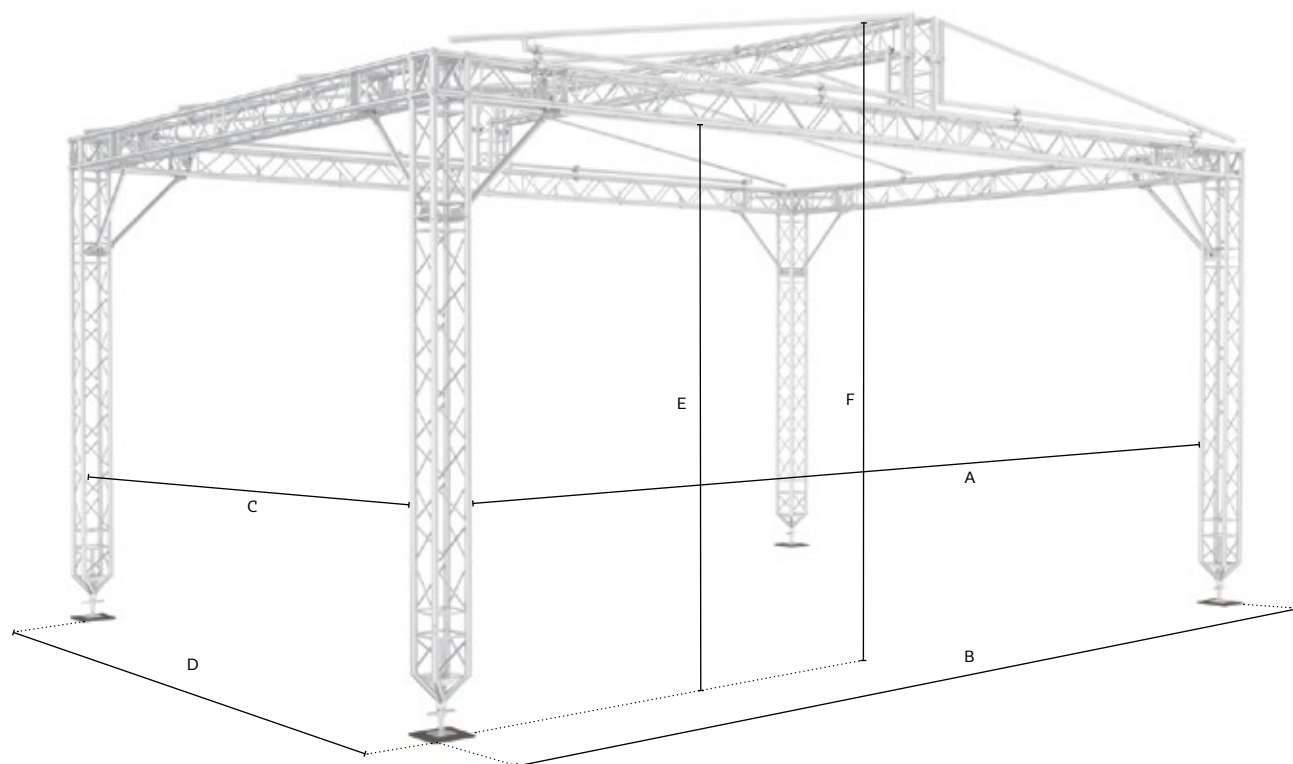
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MRO 8×6 m No Guy Wires

- No guy wires required due to implementation of Corner Brace HD
- Decreased times for roof construction
- Reduced ballast requirements
- Up to 30 m/s wind loading in accordance with DIN EN 17879
- Loading capacity up to 2000 kg (4409 lbs)
- Clear area from all sides
- Adjustment to terrain by 572–950 mm using screw jack legs



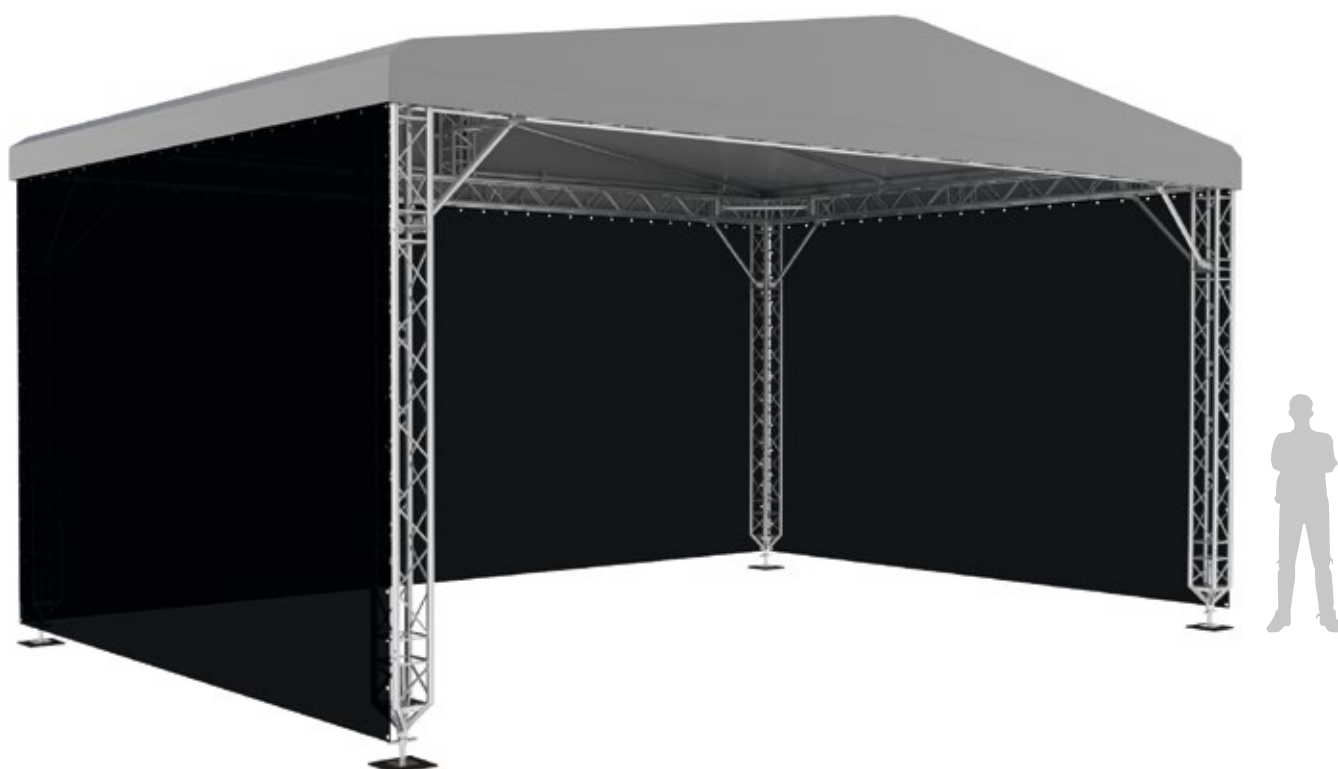
Technical specifications

MRO - NGW 8×6

		Size ›	8×6 m	(26.25×19.70 ft)
Dimensions	A	Internal width	8.16 m	(26.77 ft)
	B	Overall external width	8.73 m	(28.64 ft)
	C	Internal depth	5.44 m	(17.85 ft)
	D	Overall external depth	6.03 m	(19.78 ft)
	E	Clearance	3.95 m	(12.96 ft)
	F	Overall height	4.95 m	(16.24 ft)

Loading capacity

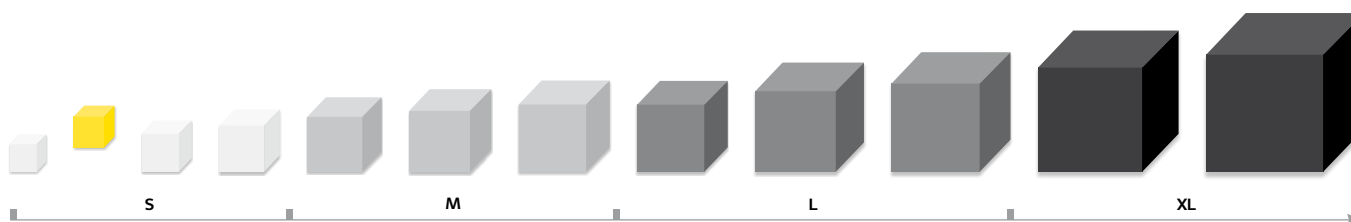
Loading capacity	Size ›	8×6 m	(26.25×19.70 ft)
	Main grid in total	1627 kg	(3587 lbs)
	PA load	400 kg	(882 lbs)
	Loading capacity	2027 kg	(4469 lbs)



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings Out of service * Side claddings and equipment with large areas exposed to wind need to be removed	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) Up to 30.0 m/s – 108 km/h – 67 mph (depending on terrain categories)
Ballast	Depending on configuration	
Canopy and side walls	B1 fire-retardant canopy, single-piece format Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocode	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

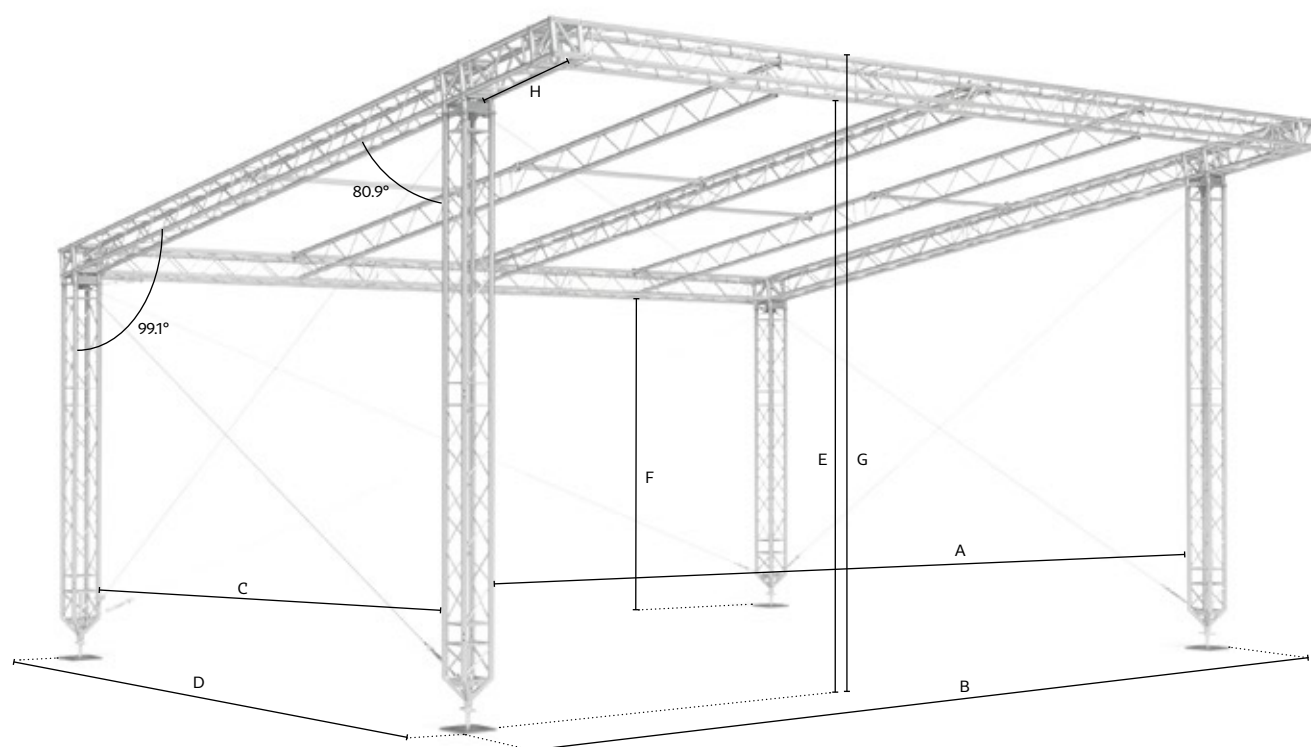
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MRO sloping roofs

- 6×4 m (19.70×13.10 ft) and 8×6 m (26.25×19.70 ft)
- sloping roof set-up for temporary events
- Heavy-duty M290 Quatro structure with Duo canopy support
- Gentle sloping roof design using special wedges and reinforced multicubes
- Supplied complete with internal wind bracing wires and connection accessories
- Full structural calculation report and build manual available
- Loading capacity up to 3950 kg (8708 lbs)
- PVC roof colour options and side walls available

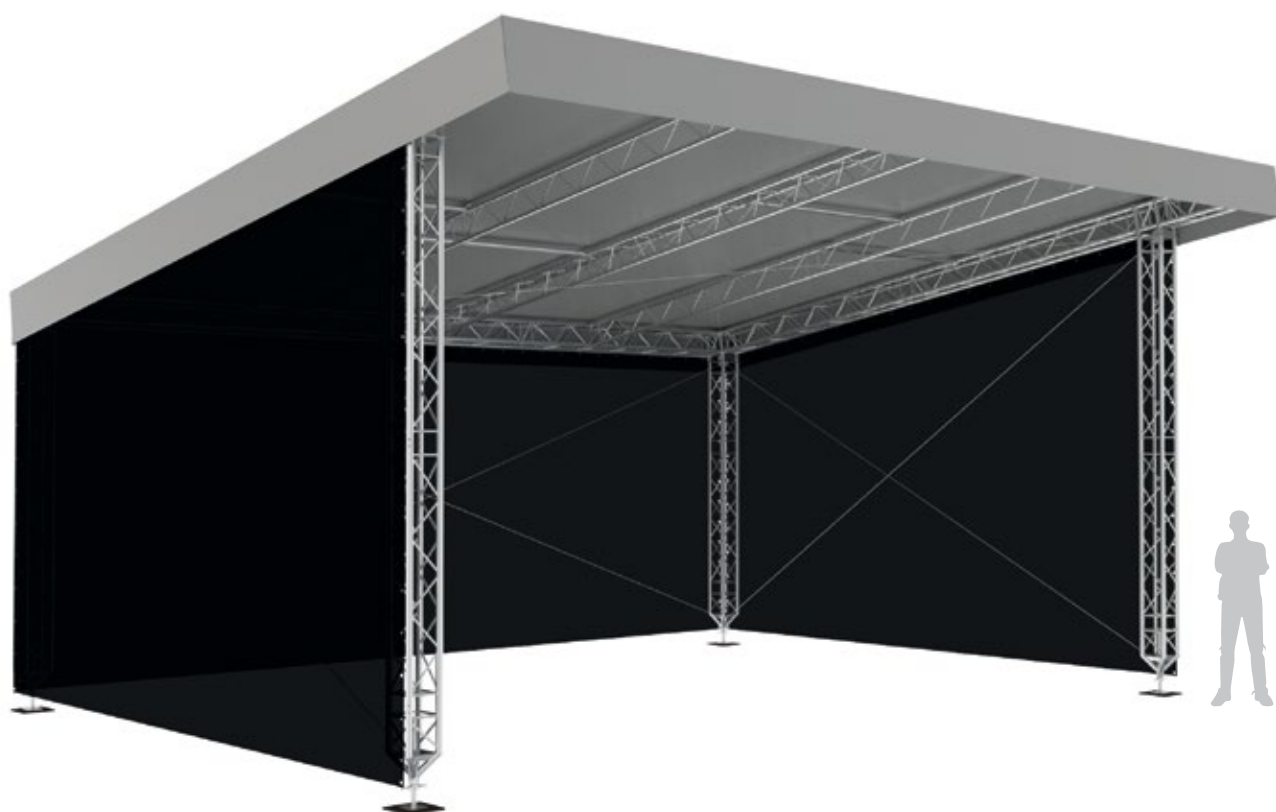


Technical specifications

		Size >	6×4 m	(19.70×13.10 ft)	8×6 m	(26.25×19.70 ft)
Dimensions	A	Internal width	6.50 m	(21.33 ft)	8.50 m	(27.89 ft)
	B	Overall external width	7.10 m	(23.29 ft)	9.10 m	(29.86 ft)
	C	Internal depth	3.95 m	(12.96 ft)	5.92 m	(19.42 ft)
	D	Overall external depth	4.53 m	(14.86 ft)	6.50 m	(21.32 ft)
	E	Front clearance	4.68 m	(15.35 ft)	4.76 m	(15.62 ft)
	F	Back clearance	3.87 m	(12.70 ft)	3.55 m	(11.65 ft)
	G	Overall height	4.97 m	(16.30 ft)	5.48 m	(17.98 ft)
	H	Cantilever depth	0.59 m	(1.94 ft)	1.10 m	(3.60 ft)

Loading capacity

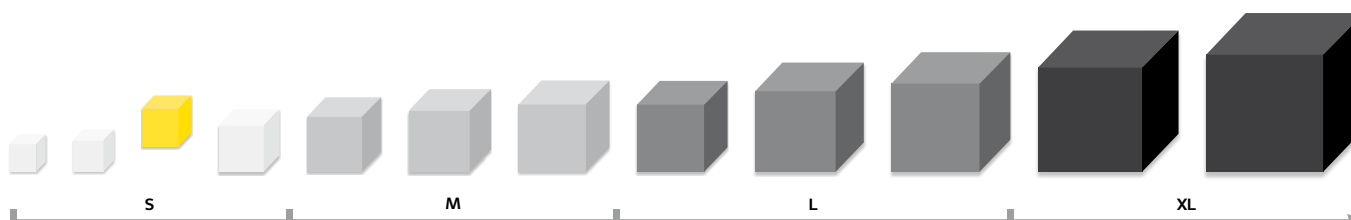
		Size >	6×4 m	(19.70×13.10 ft)	8×6 m	(26.25×19.70 ft)
Loading capacity	Main grid in total		3553 kg	(7833 lbs)	1720 kg	(3791 lbs)
	PA load		400 kg	(800 lbs)	400 kg	(800 lbs)
	Loading Capacity		3953 kg	(8714 lbs)	2120 kg	(4673 lbs)
* See structural report for exact load positioning						



Operational specifications

Design standards	EN 17879	Event structures – Safety requirements
	EN 1991-1-4	Loads on structures: Wind loads
	EN 1993	Design of steel structures
	EN 1999	Design of aluminium structures
Wind management	In service	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed)
	* Calculation based on 100% windproof wall claddings	
	* Side claddings and equipment with large areas exposed to wind need to be removed	
	Out of service	28.0 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration	
Canopy and side walls	B1 fire-retardant canopy on request, single-piece format	
	Silver-grey; other colours or black inner side on request	
	B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

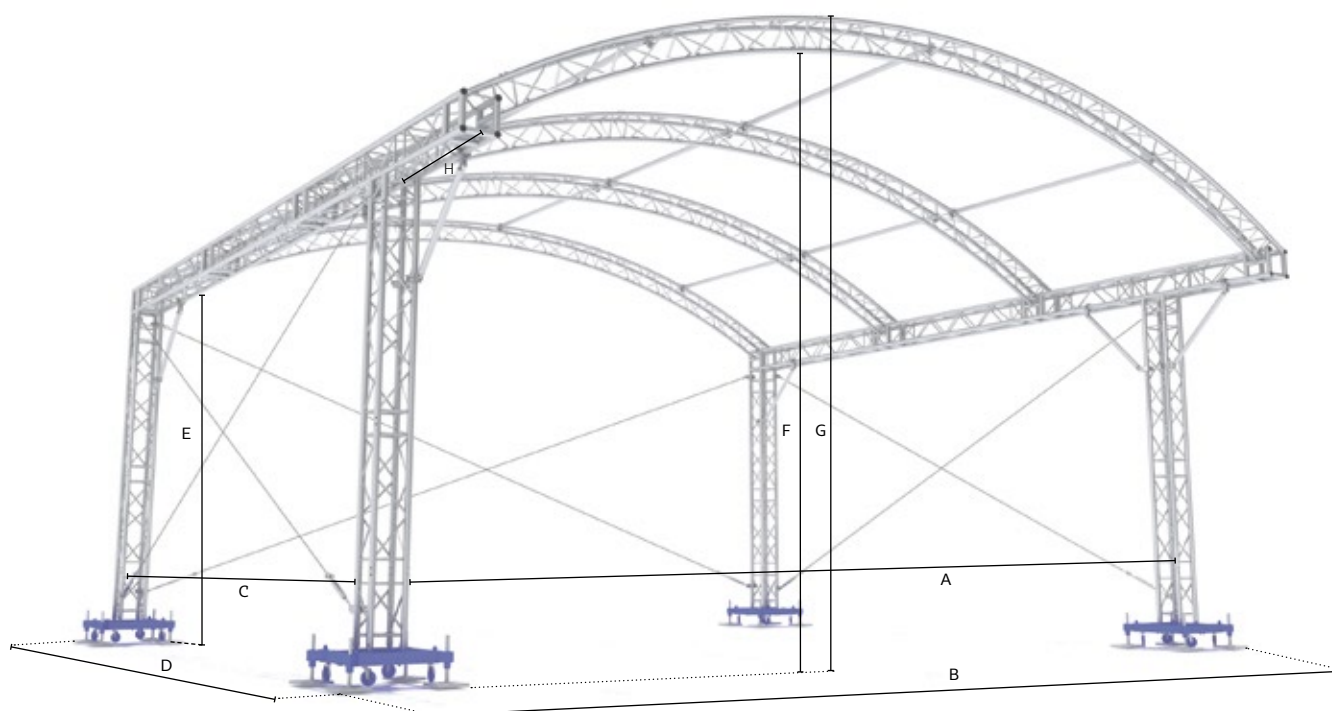
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MR1 arched roofs

- 6×4 m (19.70×13.10 ft) and 8×6 m (26.25×19.70 ft) arched roof set-up for temporary events
- Heavy-duty M290 Quatro structure with Trio arches
- Loading capacity up to 4006 kg (8831 lbs)
- Supplied complete with internal wind bracing wires and connection accessories
- Fast connection for quick, simple and secure assembly
- Full structural calculation report and build manual available
- PVC roof colour and side wall options

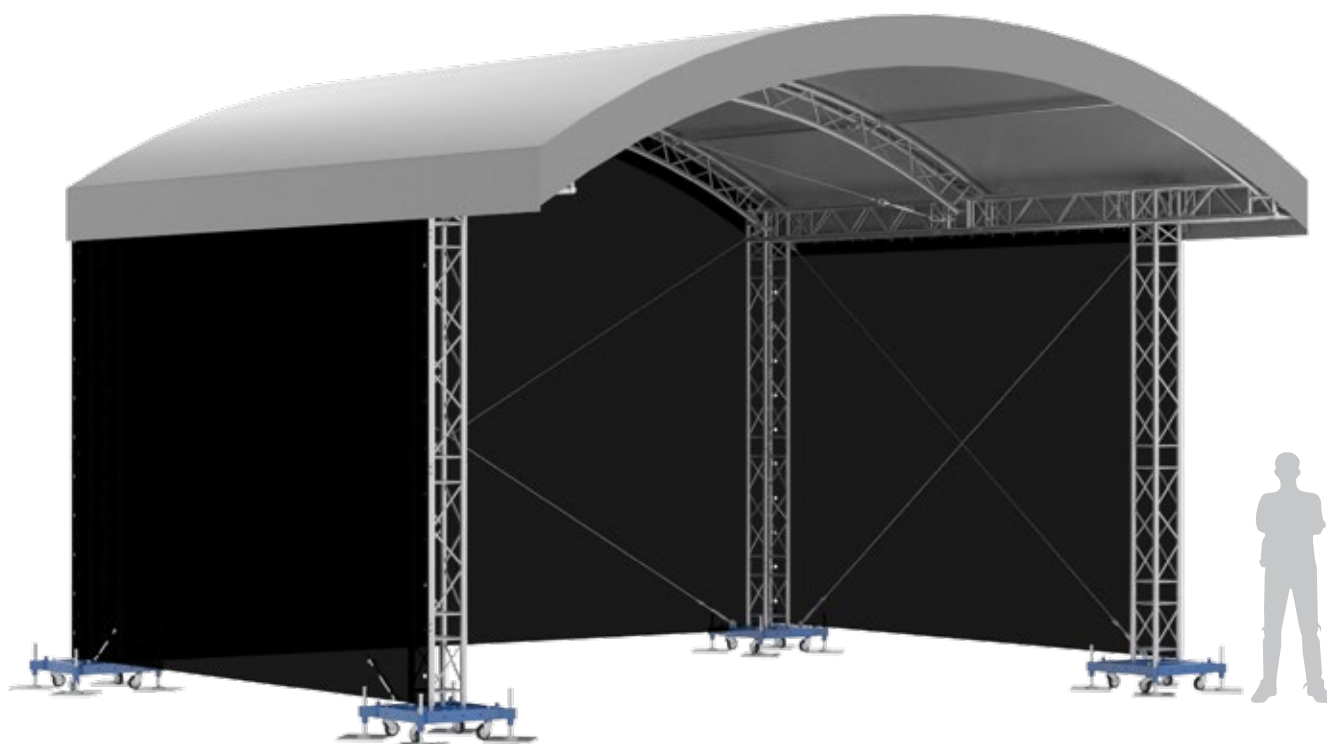


Technical specifications

		Size >	6×4 m	(19.70×13.10 ft)	8×6 m	(26.25×19.70 ft)
Dimensions	A	Internal width	6.00 m	(19.69 ft)	8.00 m	(26.25 ft)
	B	Overall external width	7.06 m	(23.16 ft)	9.06 m	(29.72 ft)
	C	Internal depth	4.40 m	(14.44 ft)	6.40 m	(20.99 ft)
	D	Overall external depth	5.43 m	(17.81 ft)	7.48 m	(24.54 ft)
	E	Side clearance	3.43 m	(11.26 ft)	3.43 m	(11.26 ft)
	F	Middle clearance	4.42 m	(14.50 ft)	4.69 m	(15.39 ft)
	G	Overall height	4.68 m	(15.36 ft)	4.95 m	(16.24 ft)
	H	Cantilever depth	1.21 m	(3.97 ft)	1.21 m	(3.97 ft)

Loading capacity

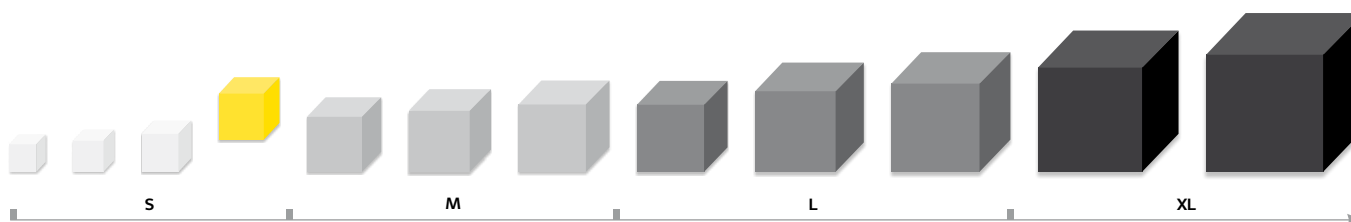
Loading capacity	Size >	6×4 m	(19.70×13.10 ft)	8×6 m	(26.25×19.70 ft)
	Main grid in total	2171 kg	(4786 lbs)	3406 kg	(7509 lbs)
	PA load	600 kg	(1322 lbs)	600 kg	(1322 lbs)
	Loading capacity	2771 kg	(6109 lbs)	4006 kg	(8831 lbs)
	* See structural report for exact load positioning				



Operational specifications

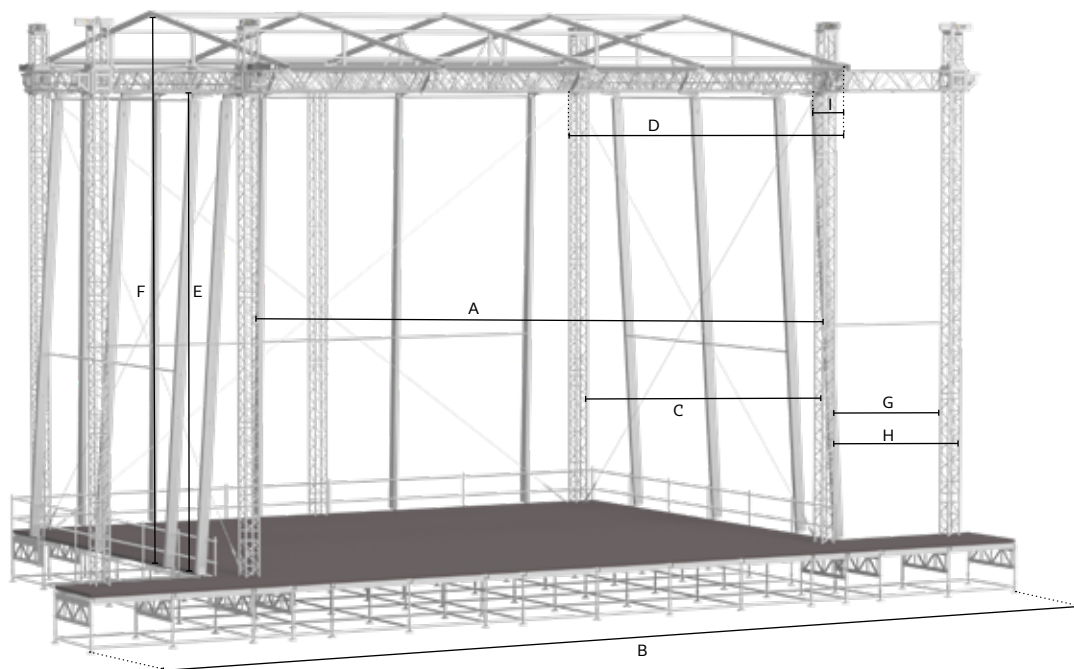
Design standards	EN 17879	Event structures – Safety requirements
	EN 1991-1-4	Loads on structures: Wind loads
	EN 1993	Design of steel structures
	EN 1999	Design of aluminium structures
Wind management	In service	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed)
	* Calculation based on 100% windproof wall claddings	
	* Side claddings and equipment with large areas exposed to wind need to be removed	
	Out of service	28.0 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration	
Canopy and side walls	B1 fire-retardant canopy on request, single-piece format or keder profiles on request	
	Silver-grey; other colours or black inner side on request	
	B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

MILOS roof size/UDL overview



MR2K keder roofs

- Keder roof structure for temporary events
- Roof top framework can be used with existing ground support inventory
- MT1 Towers with horizontal M390 grid for maximum production rigging
- MT2 Tower with horizontal M520 grid for higher loading also available
- Loading capacity up to 13 t (28660 lbs) with 15×12 m (49.21×39.37 ft) stage configuration
- Low-profile keder roof construction for ease of canopy installation
- Additional rear tower for LED support using back stage beams
- Can be operated with manual or electric chain hoist (bracket required)
- Supplied complete with internal wind bracing wires and connection accessories
- Full structural calculation report and build manual available
- PVC roof colour and side wall (mesh or solid) options
- Integrated tower base / stage components available
- PA wings options available on request

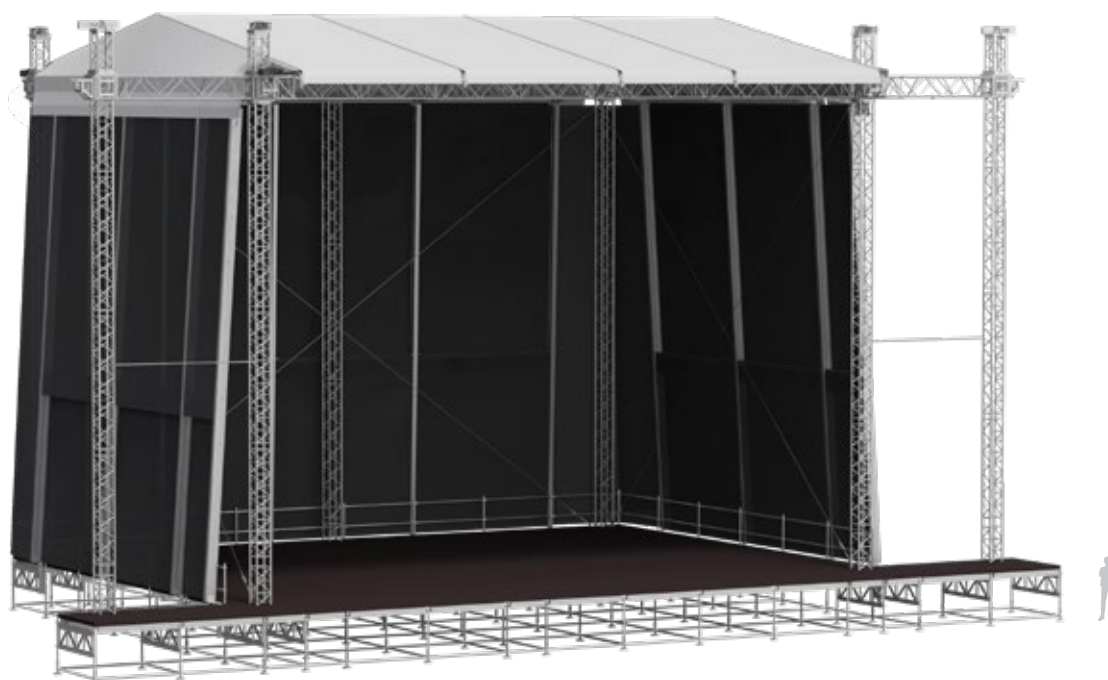


Technical specifications

		Size >	12×10 m	(39.37×32.81 ft)	15×12 m	(49.21×39.37 ft)
Dimensions	A	Internal width	12.26 m	(40.22 ft)	15.31 m	(50.23 ft)
	B	Overall external width	21.14 m	(69.36 ft)	25.15 m	(82.51 ft)
	C	Internal depth	9.23 m	(30.28 ft)	11.73 m	(38.48 ft)
	D	Overall external depth	12.37 m	(40.58 ft)	14.41 m	(47.28 ft)
	E	Clearance	6.29 m	(20.64 ft)	11.00 m	(36.09 ft)
	F	Overall height	7.85 m	(25.75 ft)	13.13 m	(43.08 ft)
	G	PA wing - internal width	3.15 m	(10.33 ft)	3.35 m	(10.99 ft)
	H	PA wing - overall external width	3.44 m	(11.29 ft)	3.74 m	(12.27 ft)
	I	Cantilever depth	1.00 m	(3.28 ft)	1.00 m	(3.28 ft)

Loading capacity

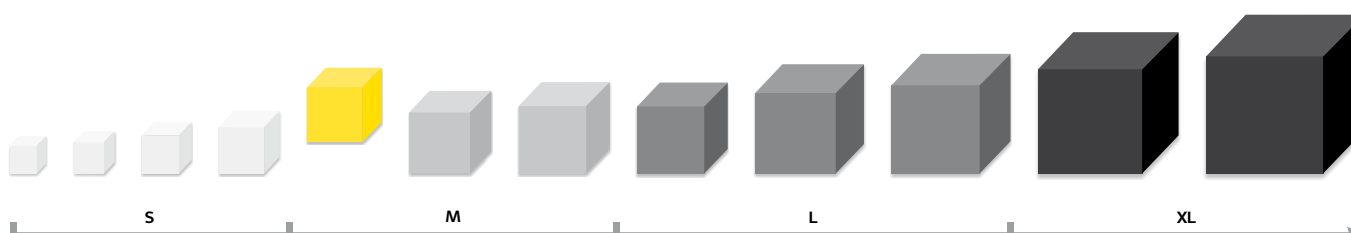
		Size >	12×10 m	(39.37×32.81 ft)	15×12 m	(49.21×39.37 ft)
Loading capacity	Main grid		7000 kg	(15432 lbs)	9100 kg	(20062 lbs)
	Side wings and PA in total		3000 kg	(6614 lbs)	6000 kg	(13227 lbs)
	Loading capacity		10000 kg	(22046 lbs)	15100 kg	(33290 lbs)
* See structural report for exact load positioning						



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures - Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings * Side claddings and equipment with large areas exposed to wind need to be removed Out of service	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 28.8 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure.	
Canopy and side walls	B1 fire-retardant canopy on request, in keders, configurable for various sizes Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

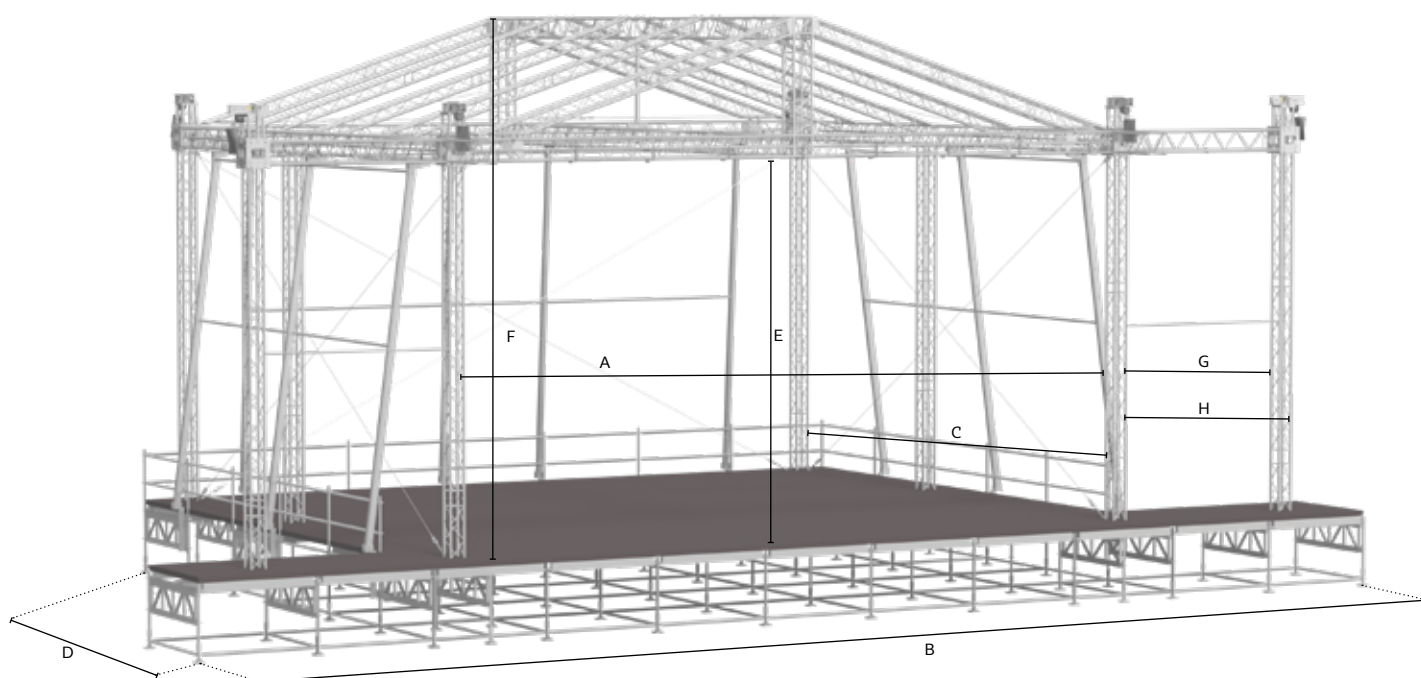
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MR2 saddle roofs

- MR2 saddle roof structure for temporary events
- MT1 self-climbing towers, 10×8 m (32.80×26.25 ft), 12×10 m (39.37×32.80 ft) options available
- Fast connection for quick, simple and secure assembly
- Loading capacity up to 10.5 t (23148 lbs) with 12×10 m (39.37×32.80 ft) stage configuration
- Can be operated with manual or electric chain hoist (bracket required)
- Supplied complete with internal wind bracing wires and connection accessories
- Full structural calculation report and build manual available
- PVC roof colour and side wall options
- Integrated tower base / stage components available
- PA wings options available on request

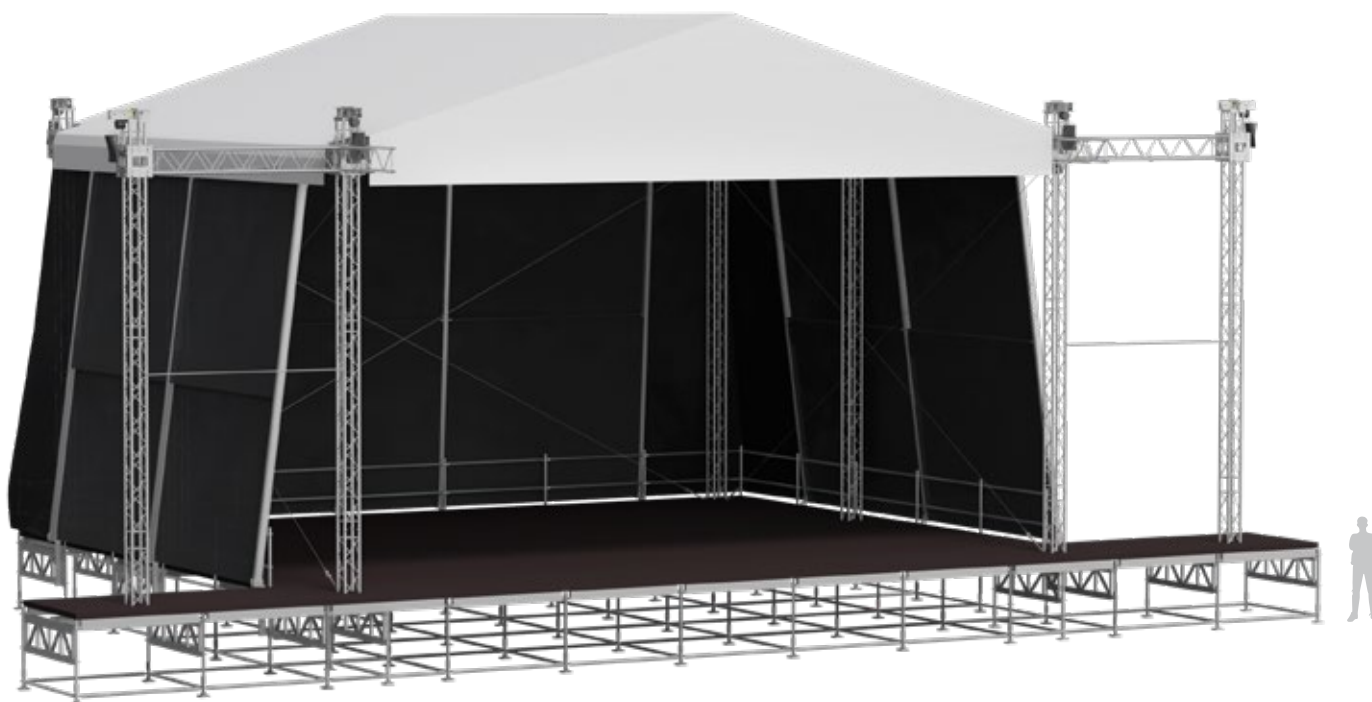


Technical specifications

		Size >	10×8 m	(32.80×26.25 ft)	12×10 m	(39.37×32.80 ft)
Dimensions	A	Internal width	10.42 m	(34.19 ft)	12.30 m	(40.35 ft)
	B	Overall external width	19.64 m	(64.44 ft)	22.15 m	(72.67 ft)
	C	Depth	8.65 m	(28.38 ft)	10.60 m	(34.78 ft)
	D	Overall external depth	10.97 m	(35.99 ft)	12.80 m	(41.99 ft)
	E	Clearance	7.12 m	(23.36 ft)	6.29 m	(20.64 ft)
	F	Overall height	9.14 m	(29.99 ft)	8.64 m	(28.35 ft)
	G	PA wing - internal width	3.15 m	(10.33 ft)	3.15 m	(10.33 ft)
	H	PA wing - overall external width	3.44 m	(11.29 ft)	3.44 m	(11.29 ft)

Loading capacity

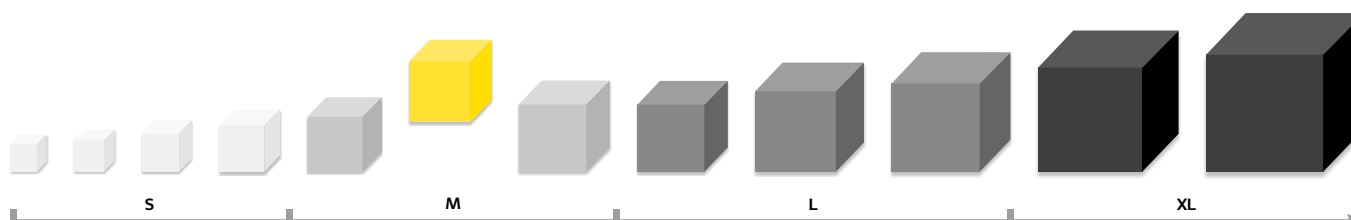
Loading capacity	Size >	10×8 m	(32.80×26.25 ft)	12×10 m	(39.37×32.80 ft)
	Main grid	5000 kg	(11023 lbs)	7500 kg	(16534 lbs)
	Side wings and PA in total	3000 kg	(6614 lbs)	3000 kg	(6614 lbs)
	Loading capacity	8000 kg	(17637 lbs)	10500 kg	(23148 lbs)
	* See structural report for exact load positioning				



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures - Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings * Side claddings and equipment with large areas exposed to wind need to be removed Out of service Training recommended	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 29.6 m/s – 106 km/h – 66 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure	
Canopy and side walls	B1 fire-retardant canopy on request, single-piece format or keder profiles Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

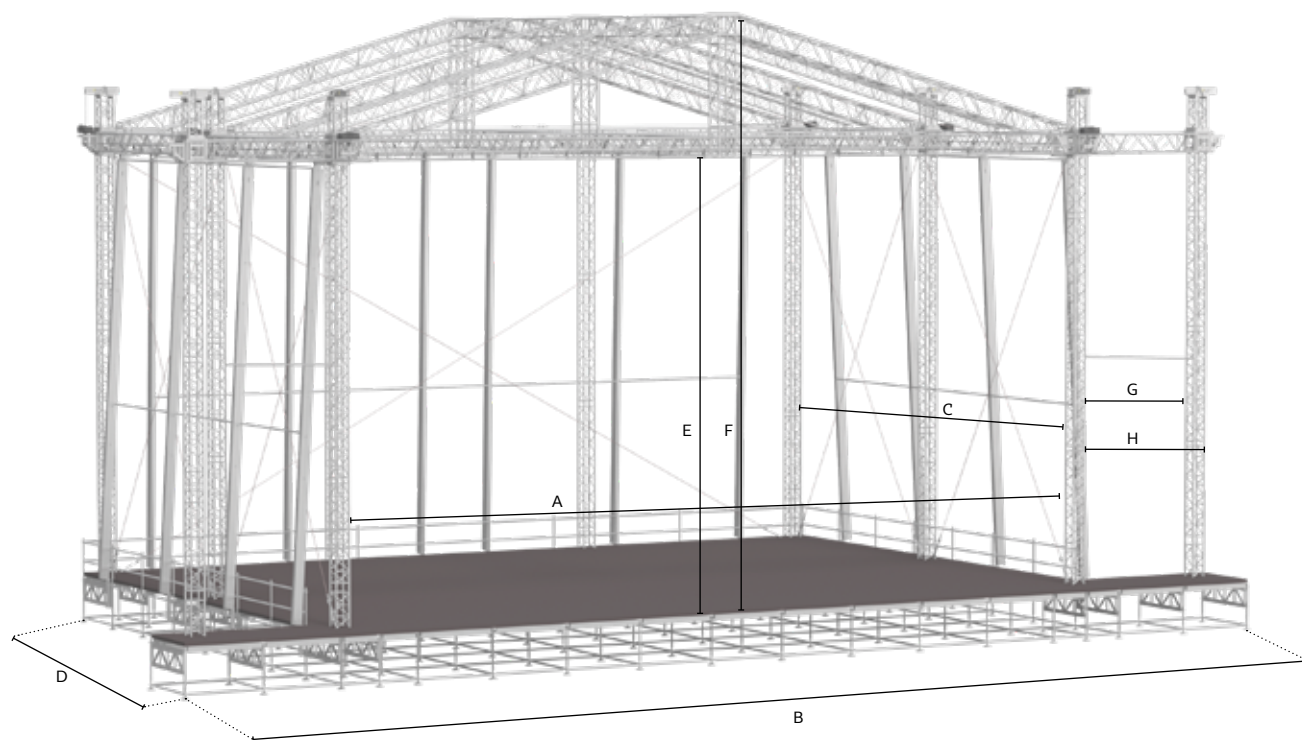
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

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
- Loading capacity up to 15 t (33069 lbs) with 16×14 m (52.49×45.93 ft) stage configuration
- Fast connection for quick, simple and secure assembly
- Supplied complete with internal wind bracing wires and connection accessories
- Full structural calculation report and build manual available
- PVC roof colour and side wall options
- Integrated tower base / stage components available
- PA wings options available on request



Technical specifications

		Size >	16×14 m (52.49×45.93 ft)	20×14 m (65.62×45.93 ft)
Dimensions	A	Internal width	16.53 m (54.23 ft)	20.53 m (67.34 ft)
	B	Overall external width	26.00 m (85.30 ft)	30.00 m (98.43 ft)
	C	Internal depth	14.03 m (46.03 ft)	14.03 m (46.03 ft)
	D	Overall external depth	16.40 m (53.81 ft)	16.40 m (53.81 ft)
	E	Clearance	11.09 m (36.38 ft)	11.09 m (36.38 ft)
	F	Overall height	16.00 m (52.49 ft)	16.00 m (52.49 ft)
	G	PA wing - internal width	3.35 m (10.99 ft)	3.35 m (10.99 ft)
	H	PA wing - overall external width	3.75 m (12.30 ft)	3.75 m (12.30 ft)

Loading capacity

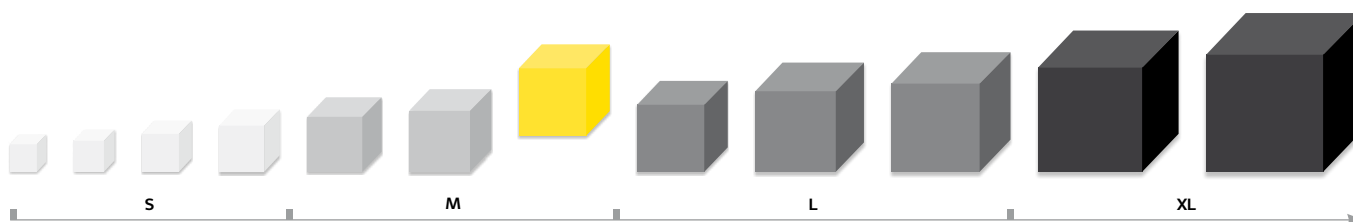
Loading capacity	Size >	16×14 m (52.49×45.93 ft)	20×14 m (65.62×45.93 ft)
	Main grid	20000 kg (44092 lbs)	20000 kg (44092 lbs)
	Side wings and PA in total	4000 kg (8818 lbs)	4000 kg (8818 lbs)
	Loading capacity	24000 kg (52910 lbs)	24000 kg (52910 lbs)
	* See structural report for exact load positioning		



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings * Side claddings and equipment with large areas exposed to wind need to be removed Out of service Training recommended	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 27.5 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure	
Canopy & sidewalls	B1 fire-retardant canopy on request, keder profiles optional Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

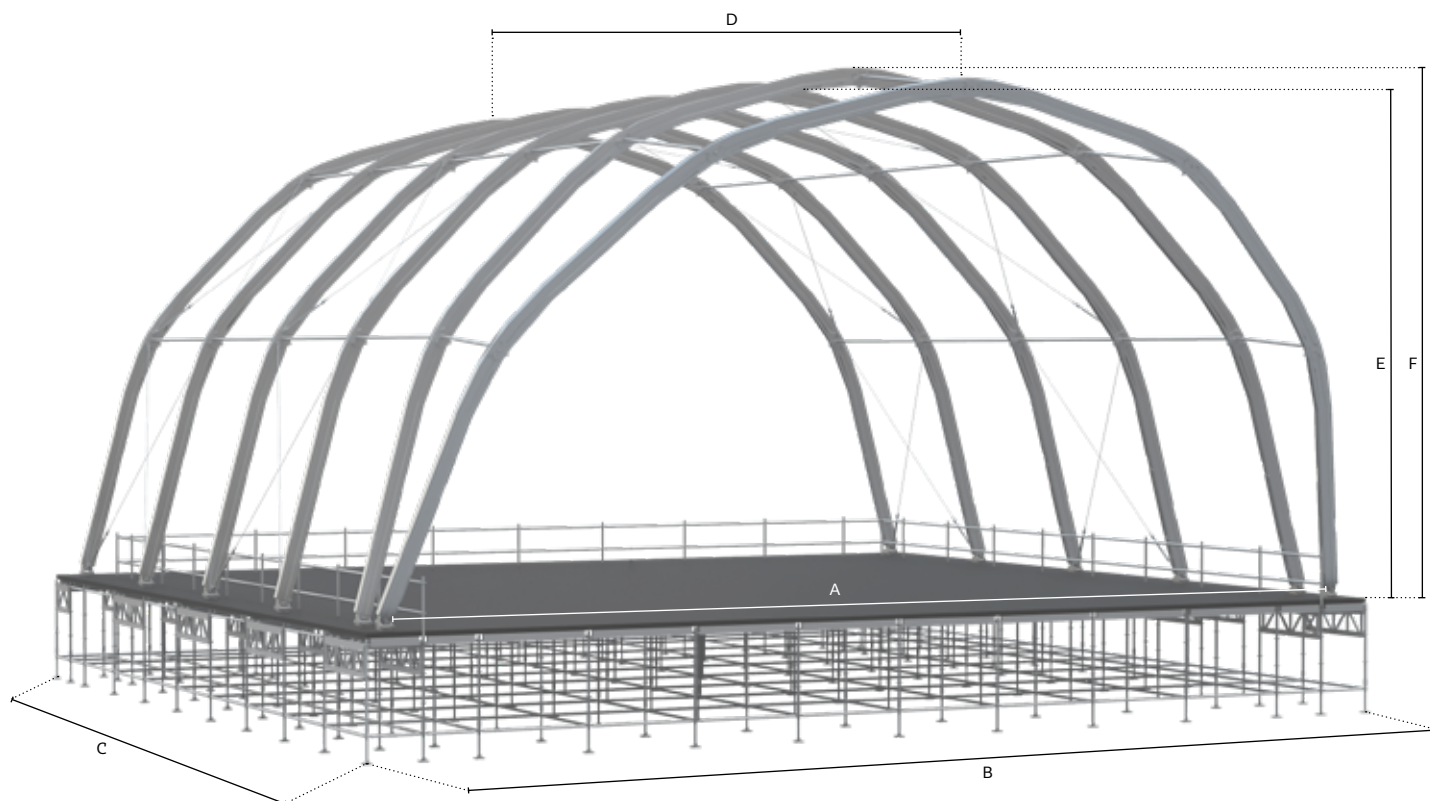
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

I-MR4 Invisible roof

- 19×18 m (62×59 ft) or 14×12 m (46×39 ft) aluminium keder arched roof
- Endless depth option by adding more keder arches
- 19 m (62 ft) span and clearance height of 9.5 m (31 ft) with 19×18 m
- Loading capacity of up to 5 t (11023 lbs) per arch (19×18 m)
- Standard configuration can support 30 t (66138 lbs)
- Quick and simple assembly with universal parts
- Transparent or solid canopy options available
- Easy logistics with special transport frames



Technical specifications

		Size >	14×12 m	(45.93×39.37 ft)	19×18 m	(62.33×59.05 ft)
Dimensions	A	Internal width	13.75 m	(44.11 ft)	18.73 m	(61.45 ft)
	B	Overall external width	15.20 m	(49.87 ft)	20.20 m	(66.27 ft)
	C	Depth	10.50 m	(34.45 ft)	17.50 m	(57.41 ft)
	D	Overall external depth	12.65 m	(41.50 ft)	20.65 m	(67.75 ft)
	E	Clearance	7.05 m	(23.13 ft)	9.50 m	(31.16 ft)
	F	Overall height	7.30 m	(23.95 ft)	9.80 m	(32.15 ft)

Loading capacity

		Size >	14×12 m	(45.93×32.80 ft)	19×18 m	(62.33×59.05 ft)
Loading capacity	Each arch		5×900 kg	(5×1984.16 lbs)	5×1000 kg	(5×2204.63 lbs)
	Main grid in total		27000 kg	(59523 lbs)	30000 kg	(66137.00 lbs)
	* See structural report for exact load positioning					



Use QR code
for video

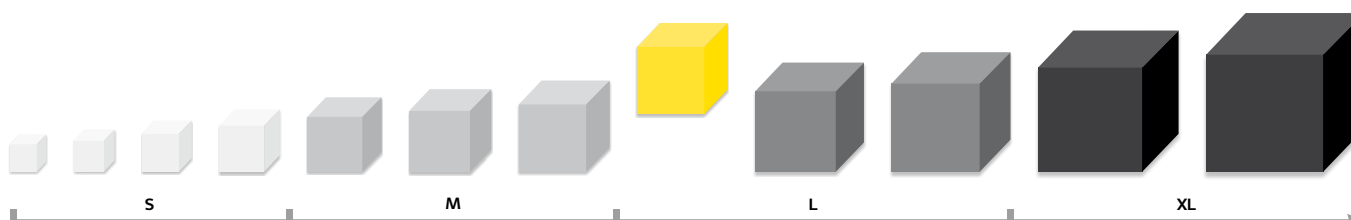


Scaffolding substructure is for visualisation only.
Bracing and ballast depend on the requested configuration.

Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	The operation must be stopped at 15 m/s, so that removing the wall covers, LED-wall and PA is finished when the windspeed is 17.8 m/s. The out of service windspeed is 27.5 m/s Training recommended	
Ballast	Depending on configuration, side wing, covering, substructure	
Canopy and side walls	B1 fire-retardant canopy, in keders, configurable for different sizes on request Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. alternative dimensions, roof adjustability) on request	

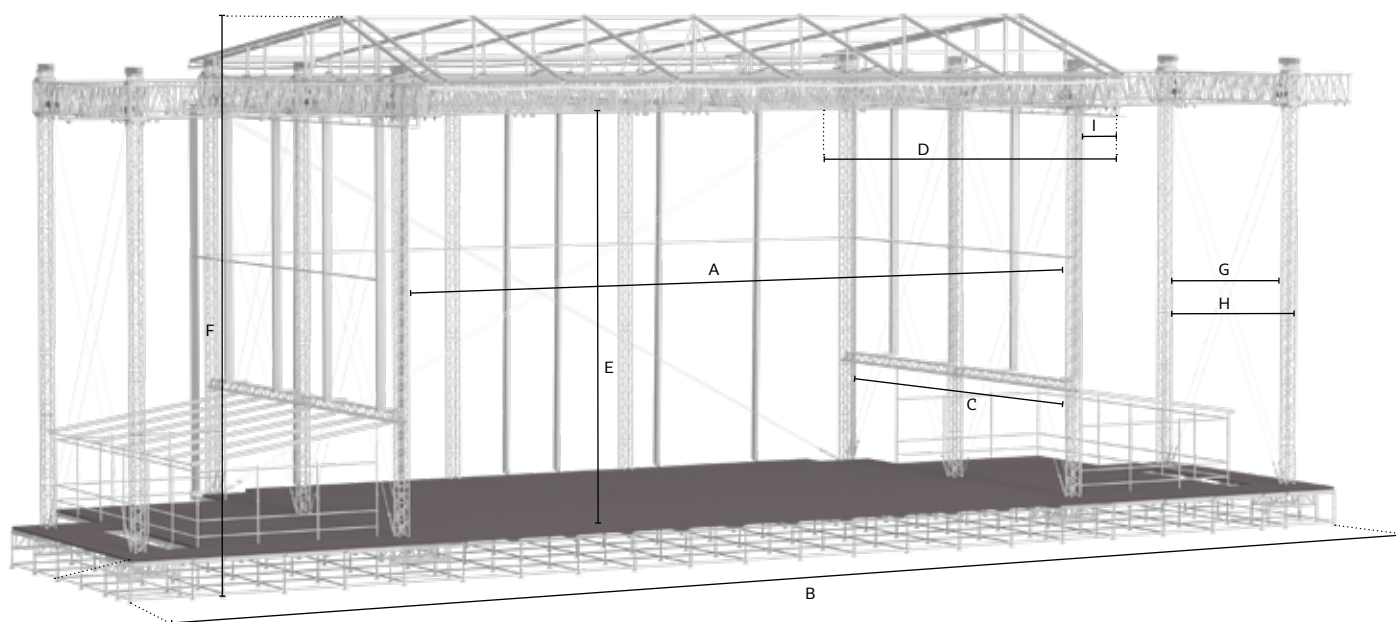
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MR5 pitched roofs

- MR5 pitched roof for temporary events
- Standard or Arnold version for max. loading capacity
- MT2 self-climbing towers with M950 main grid
- Convenient backstage area integration with main structure
- Loading capacity up to 36 t (79366 lbs) with 24×14 m (78.74×45.93 ft)
- Full structural calculation report and build manual on request
- Covered backstage areas on sides as an option
- Wind bracing wires and connection accessories included
- Range of coloured PVC roof options available
- Integrated tower base / stage components available
- Side wings options available on request

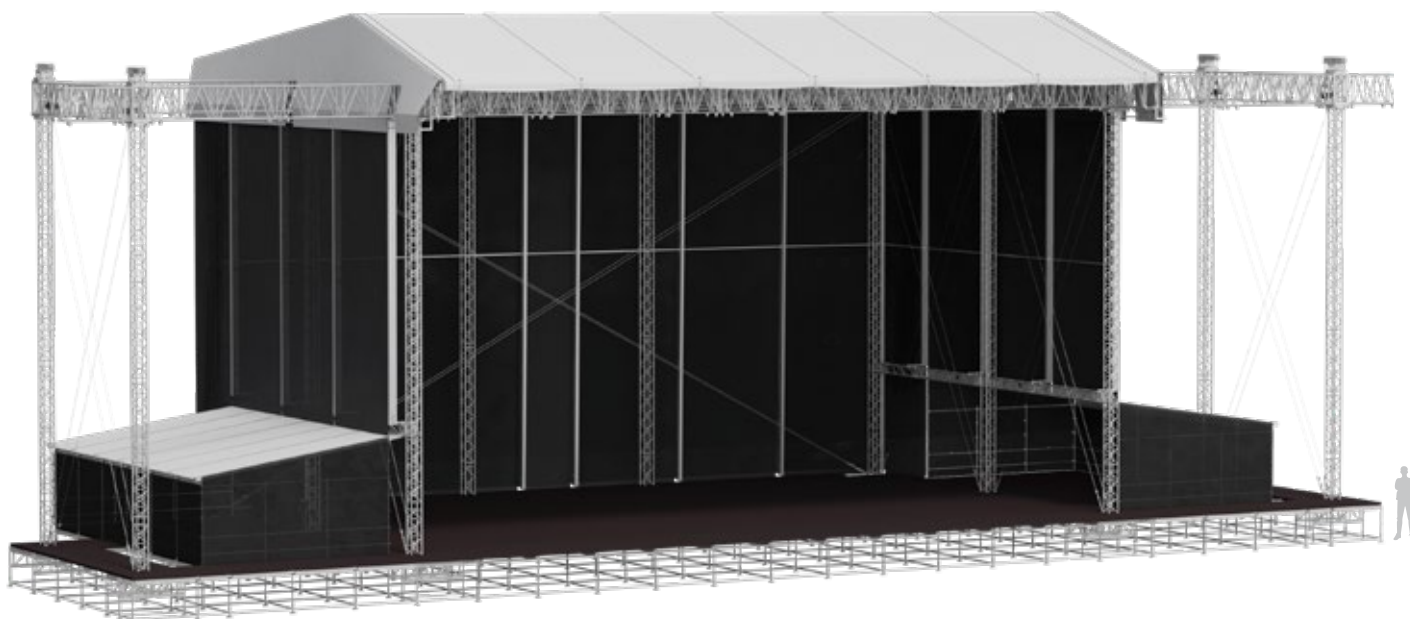


Technical specifications

		Size >	20×14 m (65.62×45.93 ft)	24×14 m (78.74×45.93 ft)
Dimensions	A	Internal width	20.37 m (66.83 ft)	24.37 m (79.95 ft)
	B	Overall external width	43.03 m (141.17 ft)	47.03 m (154.30 ft)
	C	Internal depth	14.64 m (48.03 ft)	14.64 m (48.03 ft)
	D	Overall external depth	18.78 m (61.61 ft)	18.78 m (61.61 ft)
	E	Clearance	13.14 m (43.12 ft)	13.14 m (43.12 ft)
	F	Overall height	16.20 m (53.15 ft)	16.20 m (53.15 ft)
	G	PA wing – internal width	8.37 m (27.46 ft)	8.37 m (27.46 ft)
	H	PA wing – overall external width	8.76 m (28.74 ft)	8.76 m (28.74 ft)
	I	Cantilever depth	2.32 m (7.61 ft)	2.32 m (7.61 ft)

Loading capacity

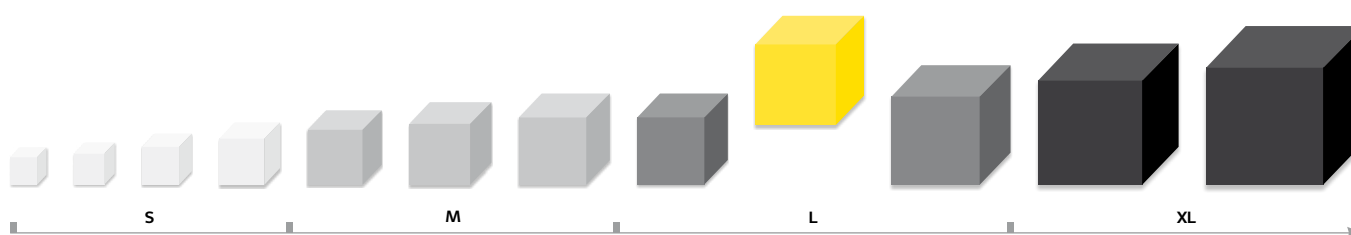
Loading capacity	Size >	20x14 m (65.62x45.93 ft)	24x14 m (78.74x45.93 ft)
	Main grid	26000 kg (57320 lbs)	30000 kg (66138 lbs)
	Side wings and PA in total	6000 kg (13228 lbs)	6000 kg (13228 lbs)
	Loading capacity	32000kg (70548 lbs)	36000 kg (79366 lbs)
	* See structural report for exact load positioning		



Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures - Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings * Side claddings and equipment with large areas exposed to wind need to be removed Out of service Training recommended	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 28.3 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure	
Canopy and side walls	B1 fire-retardant canopy, in keders, configurable for different sizes on request Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

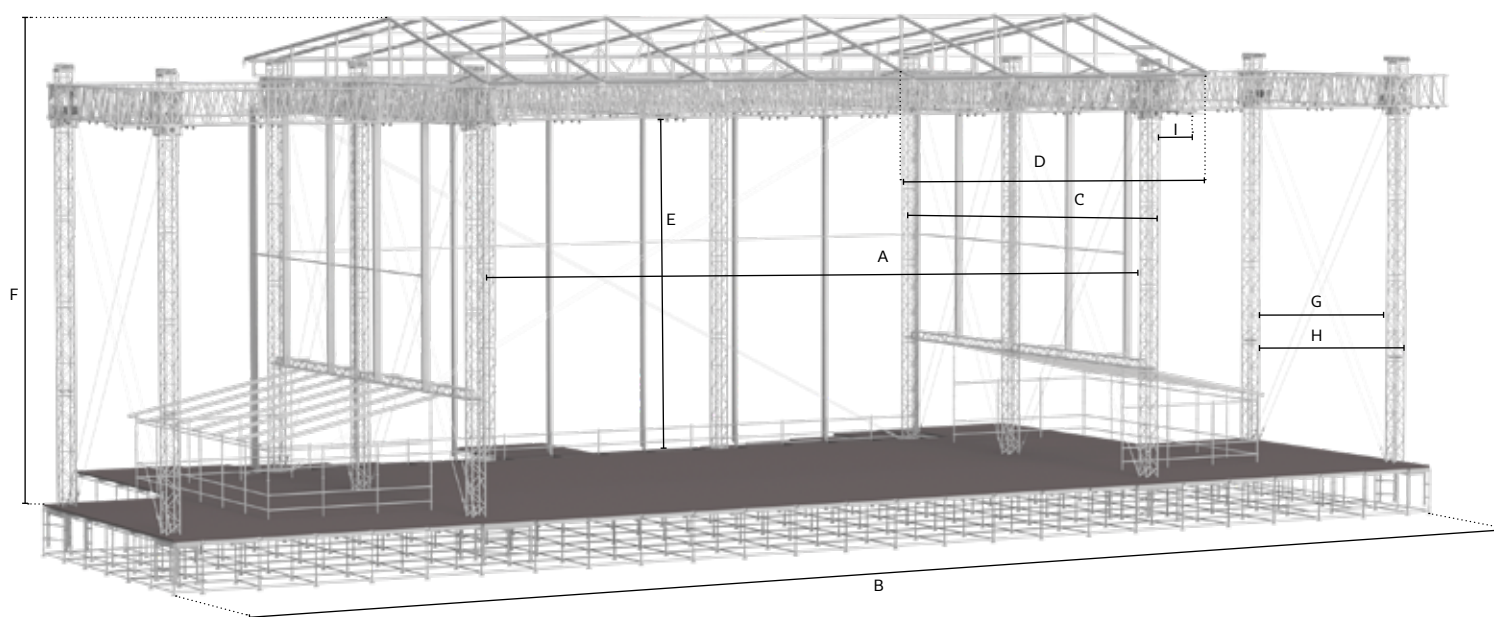
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

MR6 pitched roof

- MR6 large-scale pitched roof structure
- Dimensions 26×16 m (85×52 ft) or 30×16 m (98×52 ft)
- Loading capacity up to 55.5 t (122356 lbs) with 26×16 m (85×52 ft) configuration
- Clearance height 13.3 m (43.63 ft)
- Main grid constructed of 5 spans of M1200 RTR truss
- Rear and side walls from keder profiles for easy canopy installation
- Range of PVC colours and options available covered backstage areas on sides as an option
- Side wings options available on request

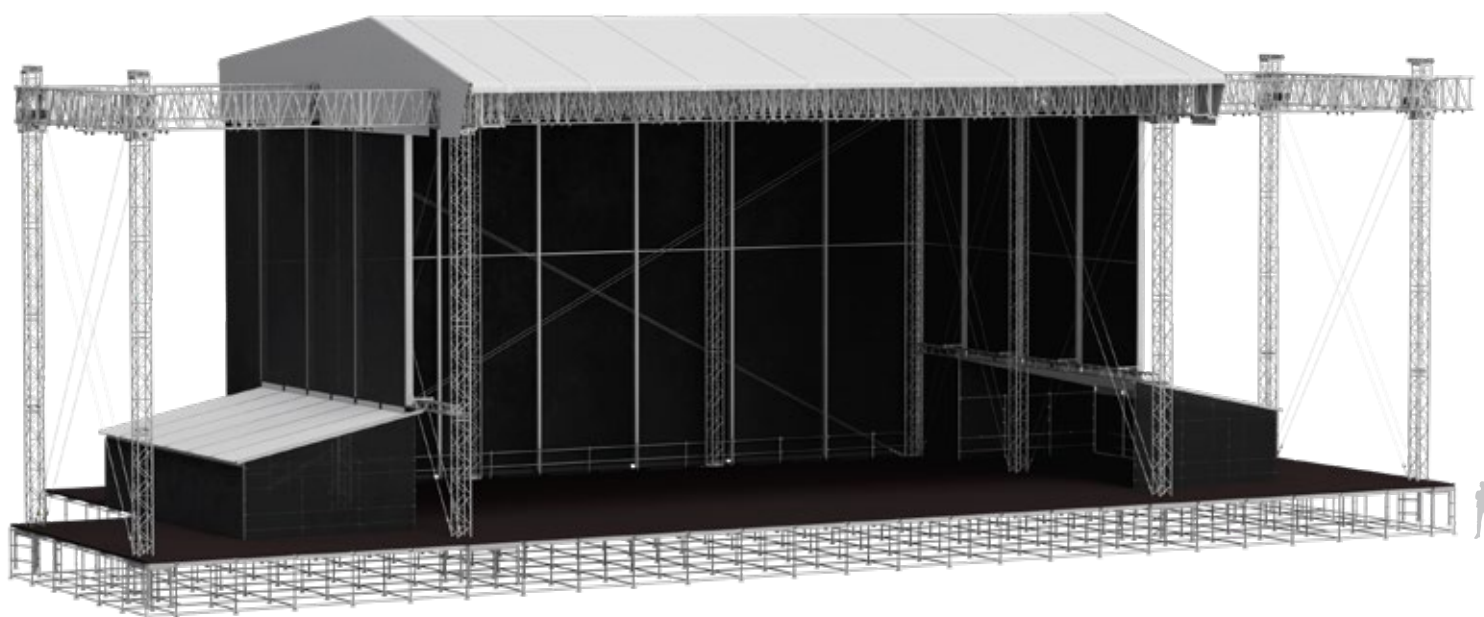


Technical specifications

		Size ›	26×16 m (85.30×52.49)	30×16 m (98.43×52.49 ft)
Dimensions	A	Internal width	26.47 m (86.84 ft)	30.47 m (99.97 ft)
	B	Overall external width	53.00 m (173.88 ft)	57.00 m (187.01 ft)
	C	Depth	17.70 m (58.07 ft)	17.70 m (58.07 ft)
	D	Overall external depth	20.70 m (67.91 ft)	20.70 m (67.91 ft)
	E	Clearance	13.30 m (43.63 ft)	13.30 m (43.64 ft)
	F	Overall height	16.70 m (54.79 ft)	16.70 m (54.79 ft)
	G	PA wing – internal width	10.47 m (34.35 ft)	10.47 m (34.35 ft)
	H	PA wing – overall external width	11.00 m (36.09 ft)	11.00 m (326.09 ft)
	I	Cantilever depth	2.40 m (7.87 ft)	2.40 m (7.87 ft)

Loading capacity

Loading capacity	Size ›	26×16 m	(85.30×52.49 ft)	30×16 m	(98.43×52.49 ft)
	Main grid	31500 kg	(69446 lbs)	25000 kg	(55115 lbs)
	Side wings and PA in total	24000 kg	(52910 lbs)	24000 kg	(52910 lbs)
	Loading capacity	55500 kg	(122356 lbs)	49000 kg	(108026 lbs)
	* See structural report for exact load positioning				

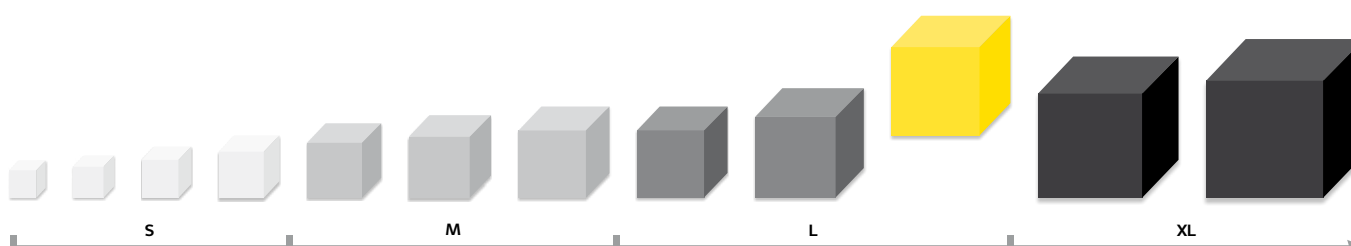


Scaffolding substructure is for visualisation only.
Bracing and ballast depend on the requested configuration.

Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof wall claddings * Side claddings and equipment with large areas exposed to wind need to be removed Out of service Training recommended	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 28.3 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure.	
Canopy and side walls	B1 fire-retardant canopy, in keders, configurable for different sizes on request Silver-grey; other colours or black inner side on request B1 fire-retardant side nets in compliance with latest Eurocodes	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

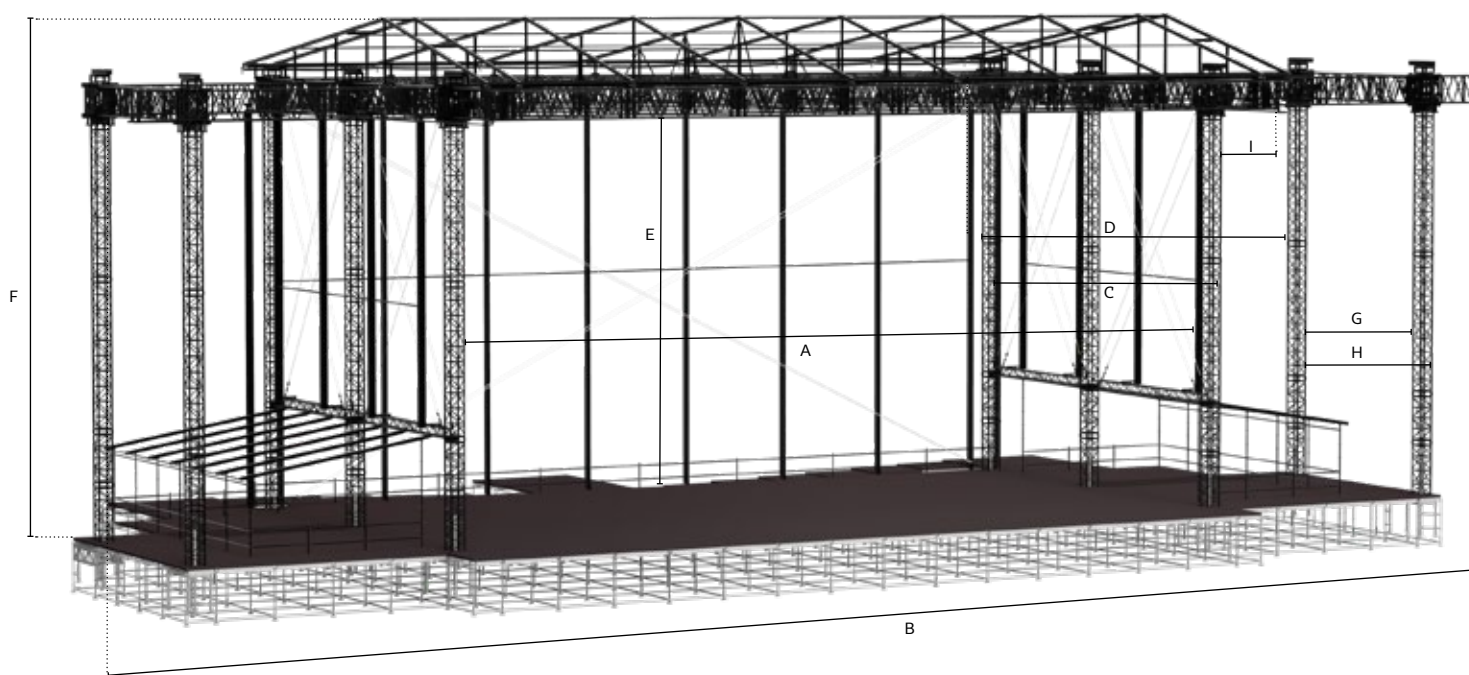
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

S-MR10 steel roof

- Constructed from ultra-high-strength steel
- Unique locking system with capacity of 45 t per tower
- Steel head section with aluminium wheels and heavy-duty bearings
- Dimensions 28×19 m (92×62 ft) or 32×19 m (105×62 ft)
- Loading capacity up to 68 t (149914 lbs) for 28×19 m version
- Durable industrial black paint finish as standard on all trusses
- Towers with integrated ladder for easy climbing
- Canopy tensioning system for roof top canopies
- Keder profiles for secure attachment of canopies
- Covered backstage areas on sides as an option
- Side wings options available on request

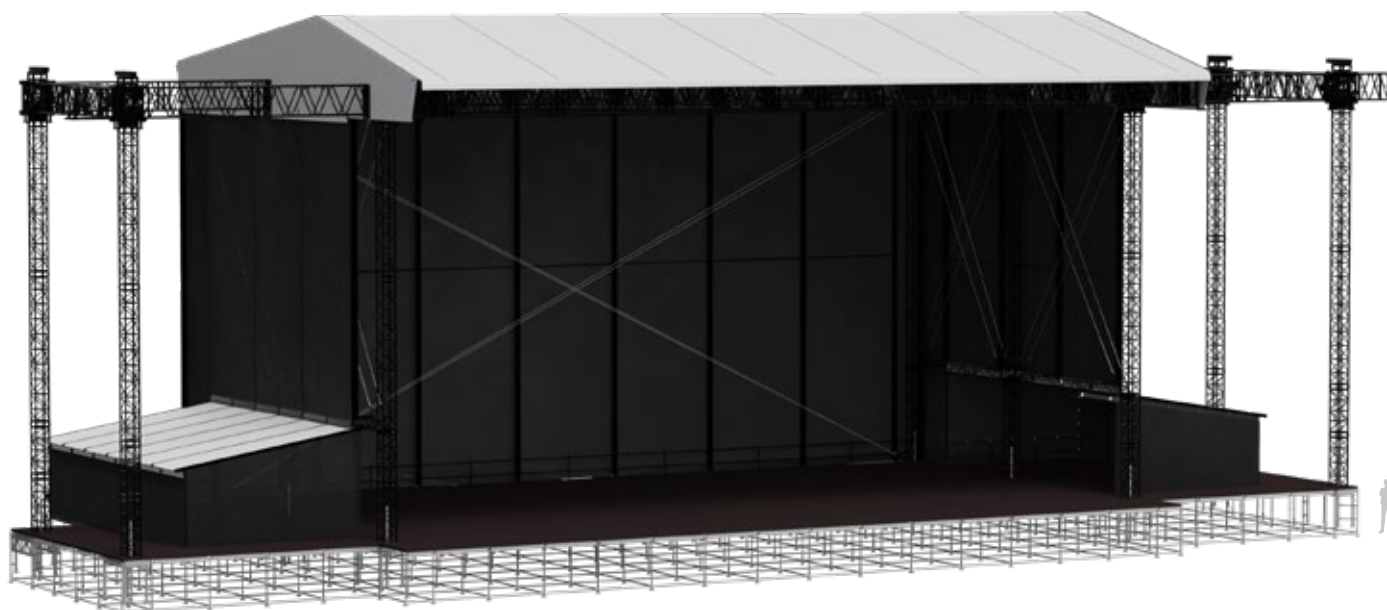


Technical specifications

		Size >	28×19 m (91.86×62.33 ft)	32×19 m (104.99×62.33 ft)
Dimensions	A	Internal width	28.50 m (93.50 ft)	28.80 m (94.50 ft)
	B	Overall external width	51.10 m (167.65 ft)	51.40 m (168.65 ft)
	C	Depth	15.80 m (51.83 ft)	15.80 m (51.84 ft)
	D	Overall external depth	20.30 m (66.60 ft)	20.30 m (66.60 ft)
	E	Clearance	13.90 m (45.60 ft)	13.90 m (45.60 ft)
	F	Overall height	17.30 m (56.76 ft)	17.30 m (56.76 ft)
	G	PA wing – internal width	8.47 m (27.79 ft)	8.47 m (27.79 ft)
	H	PA wing – overall external width	9.00 m (29.53 ft)	9.00 m (29.53 ft)
	I	Cantilever depth	3.50 m (11.48 ft)	3.50 m (11.48 ft)

Loading capacity

Loading capacity	Size ›	28×19 m	(91.86×62.33 ft)	32×19 m	(104.99×62.33 ft)
	Main grid	50000 kg	(110228 lbs)	40000 kg	(88182 lbs)
	Side wings and PA in total	18000 kg	(39682 lbs)	18000 kg	(39682 lbs)
	Loading capacity	68000 kg	(149914 lbs)	58000 kg	(127868 lbs)
	* See structural report for exact load positioning				

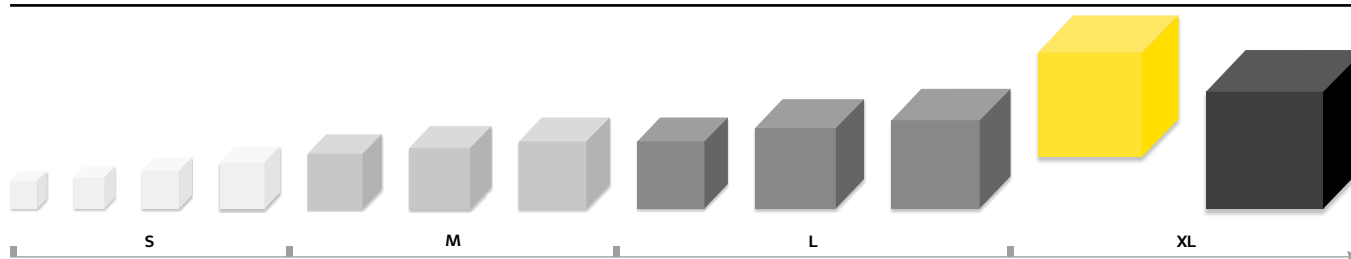


Scaffolding substructure is for visualisation only.
Bracing and ballast depend on the requested configuration.

Operational specifications

Design standards	EN 17879 EN 1991-1-4 EN 1993 EN 1999	Event structures – Safety requirements Loads on structures: Wind loads Design of steel structures Design of aluminium structures
Wind management	In service * Calculation based on 100% windproof cladding on rear wall, side walls and side wing fronts Out of service *Cladding on side walls and rear wall must be dismantled; the upper half of the side wing fronts can remain covered (e.g. by LED screens)	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed) 28 m/s – 100 km/h – 62 mph (max. gust wind speed)
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure	
Canopy and side walls	B1 fire-retardant canvas in keders, configurable for different sizes on request Silver-grey; other colours or black inner side on request	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

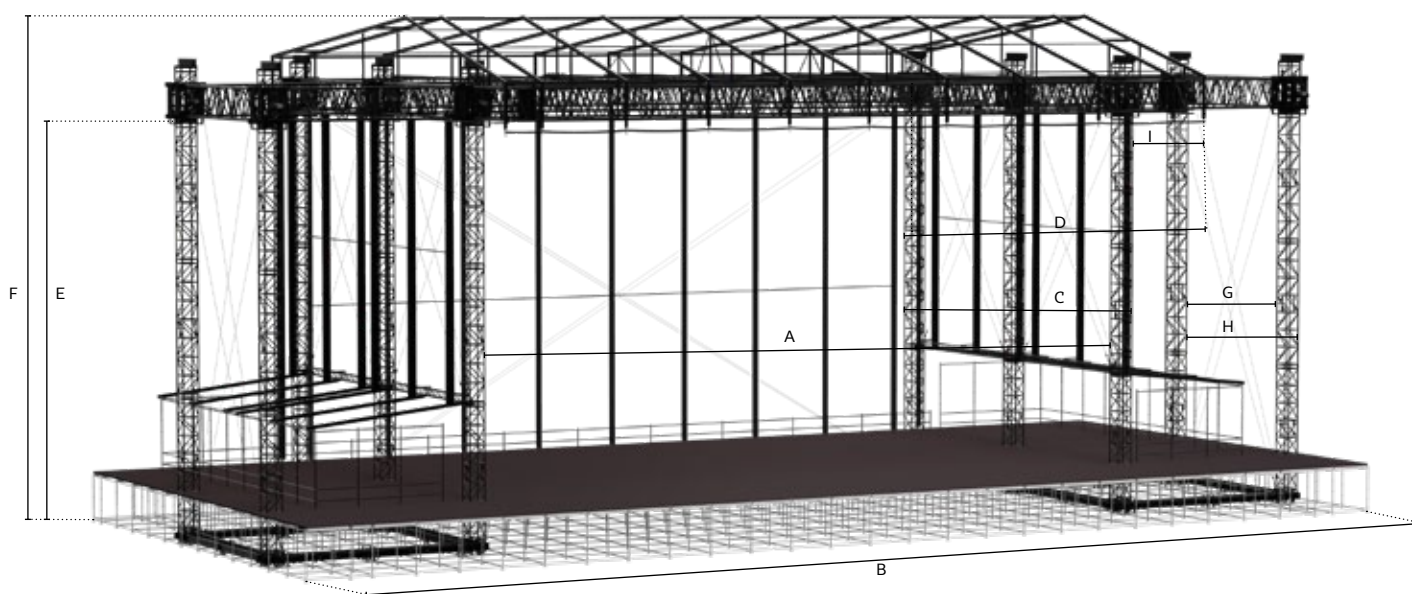
MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

S-MR20 steel roof

- Constructed from ultra-high-strength steel
- Dimensions 32×25 m (105×82 ft) or 24×25 m (78×82 ft)
- Incredible 128 t (282183 lbs) capacity achievable with 24×25 m stage configuration
- Unique locking system with capacity of 45 t per tower
- Integrated steel base with interconnecting towers
- Towers with integrated ladder for easy climbing
- Base with multiple attachment points for steel wires
- Canopy tensioning system for roof top canopies
- Keder profiles for secure attachment of canopies
- Covered backstage areas on sides as an option
- Side wings options available on request

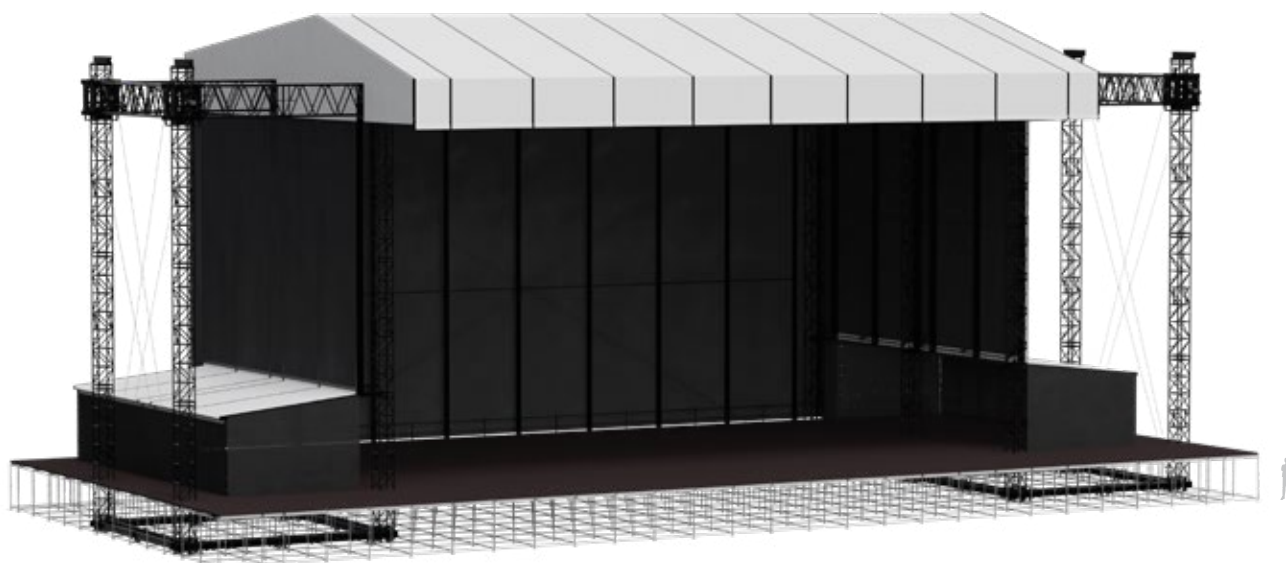


Technical specifications

		Size >	24×25 m	(78.74×82.02 ft)	32×25 m	(104.98×82.02 ft)
Dimensions	A	Internal width	24.70 m	(81.03 ft)	32.70 m	(107.28 ft)
	B	Overall external width	46.10 m	(151.25 ft)	54.10 m	(177.49 ft)
	C	Depth	20.00 m	(65.61 ft)	20.00 m	(65.61 ft)
	D	Overall external depth	25.55 m	(83.83 ft)	25.55 m	(83.83 ft)
	E	Clearance	18.40 m	(60.36 ft)	18.40 m	(60.36 ft)
	F	Overall height	23.30 m	(76.44 ft)	23.30 m	(76.44 ft)
	G	PA wing – internal width	8.72 m	(28.61 ft)	8.72 m	(28.61 ft)
	H	PA wing – overall external width	9.50 m	(31.17 ft)	9.50 m	(31.17 ft)
	I	Cantilever depth	4.50 m	(14.76 ft)	4.50 m	(14.76 ft)

Loading capacity

		Size >	24×25 m	(78.74×82.02 ft)	32×25 m	(104.98×82.02 ft)
Loading capacity	Main grid		100000 kg	(220456 lbs)	60000 kg	(132273 lbs)
	Side wings and PA in total		28000 kg	(61728 lbs)	28000 kg	(61728 lbs)
	Loading capacity		128000 kg	(282192 lbs)	88000 kg	(194006 lbs)
* See structural report for exact load positioning						

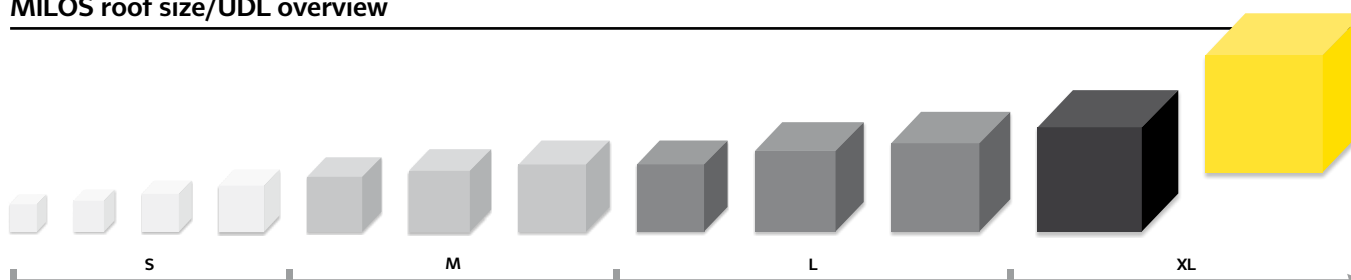


Scaffolding substructure is for visualisation only.
Bracing and ballast depend on the requested configuration.

Operational specifications

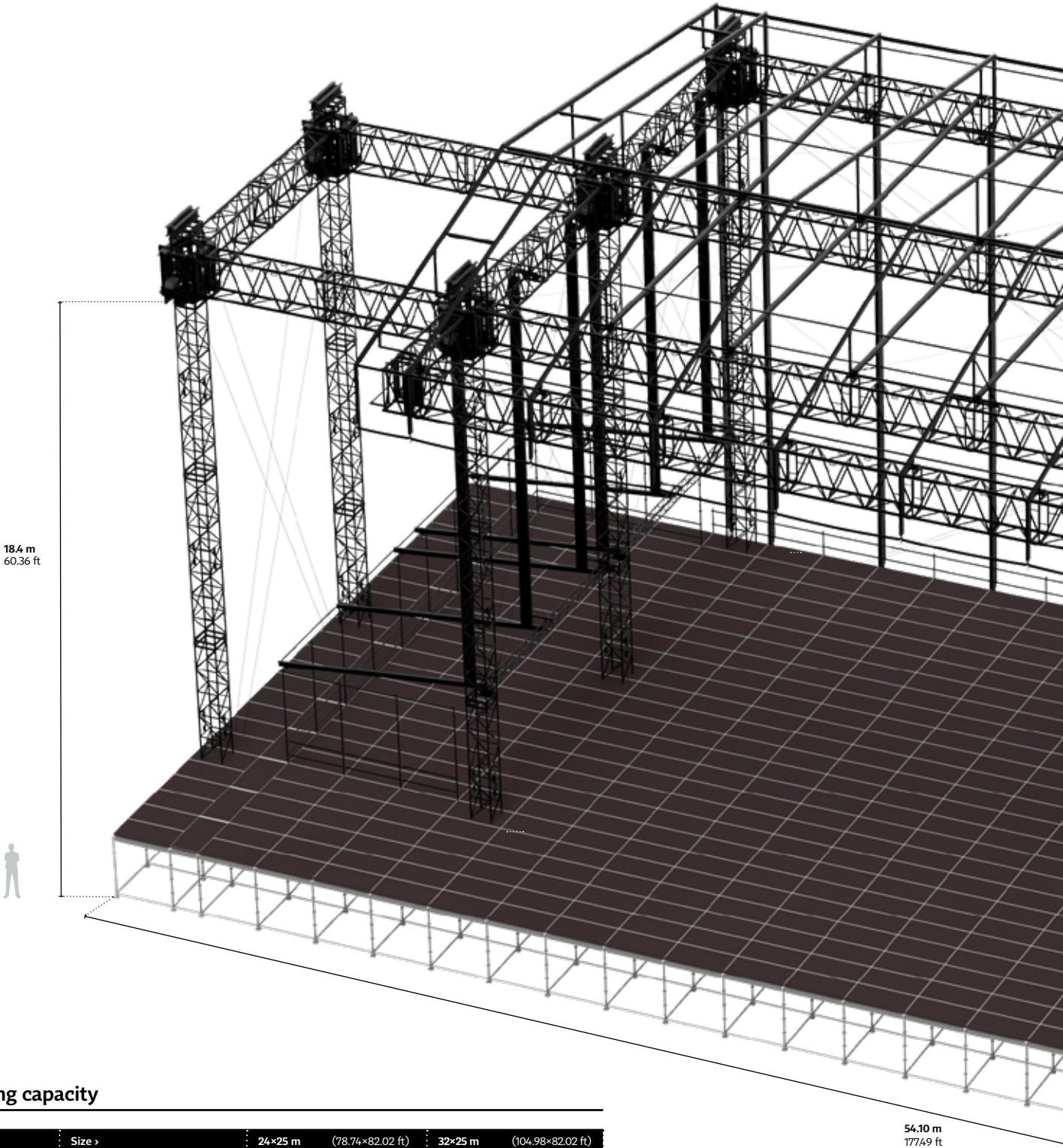
Design standards	EN 17879	Event structures – Safety requirements
	EN 1991-1-4	Loads on structures: Wind loads
	EN 1993	Design of steel structures
	EN 1999	Design of aluminium structures
Wind management	In service	17.8 m/s – 64 km/h – 40 mph (max. gust wind speed)
	* Calculation based on 100% windproof cladding on rear wall, side walls and side wing fronts	
	Out of service	28 m/s – 100 km/h – 62 mph (max. gust wind speed)
	* Cladding on side walls and rear wall must be dismantled at heights above 7 m; side wing fronts can remain covered (e.g. by LED screens)	
Ballast	Depending on configuration, side wing, covering, compression beam, guy wires, corner brace, substructure	
Canopy and Side Walls	B1 fire-retardant canvas in keders, configurable for different sizes on request	
	Silver-grey; other colours or black inner side on request	
Customised	Customisation (i.e. truss configuration, alternative dimensions, roof adjustability) on request	

MILOS roof size/UDL overview



To simplify understanding our standard roof options, we've categorized them into four sizes: S, M, L, and XL.

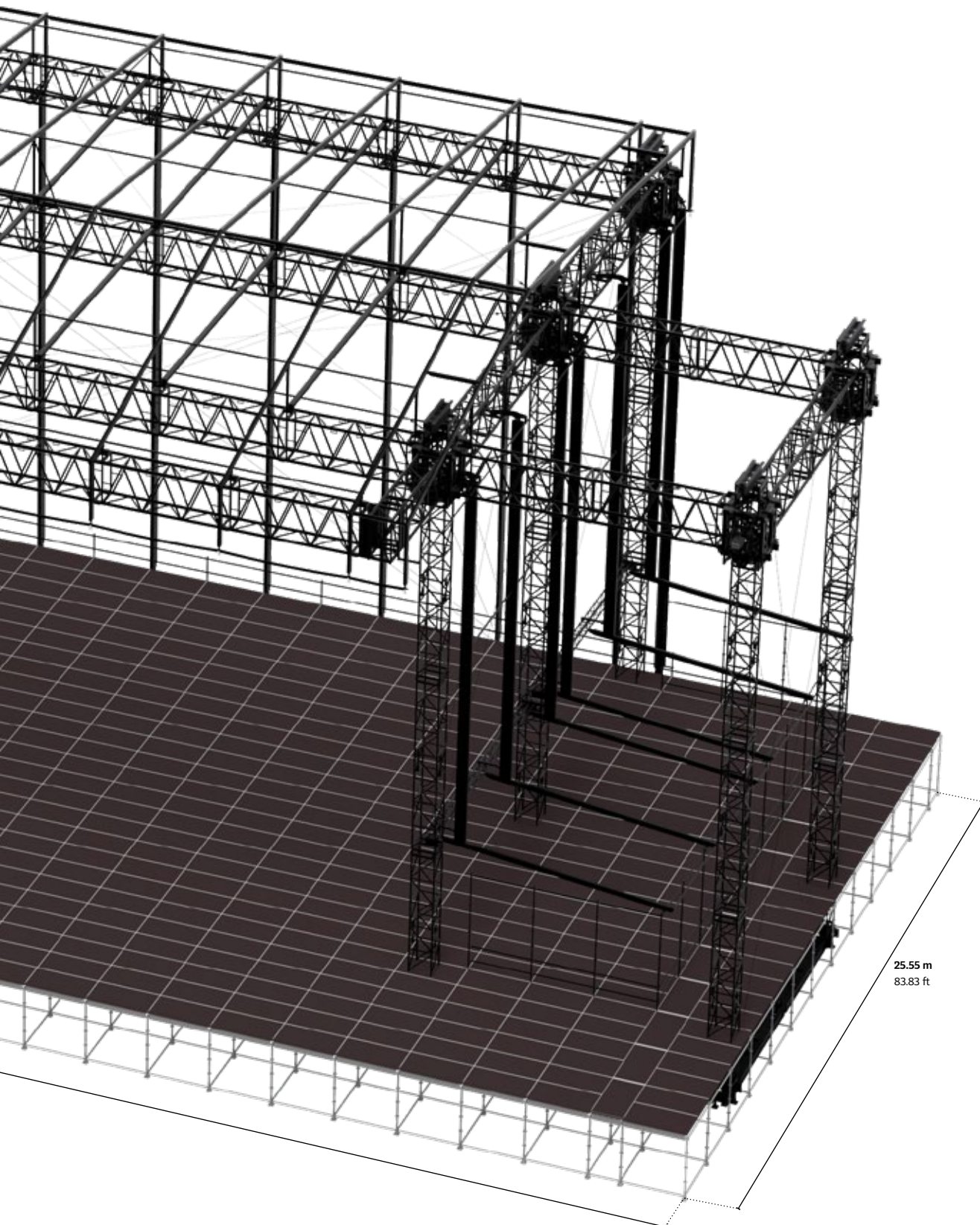
S-MR20 steel roof



Loading capacity

Loading capacity	Size >	24×25 m (78.74×82.02 ft)	32×25 m (104.98×82.02 ft)
	Main grid	100000 kg (220456 lbs)	60000 kg (132273 lbs)
	Side wings and PA in total	28000 kg (61728 lbs)	28000 kg (61728 lbs)
	Loading capacity	128000 kg (282192 lbs)	88000 kg (194006 lbs)
* See structural report for exact load positioning			

Scaffolding substructure is for visualisation only.
Bracing and ballast depend on the requested configuration.



Keder profiles

- Custom profile with optimised strength-to-weight ratio
- Incl. 31×10-mm (1.22×0.39-in) T-bolt channel for M12 hammerhead bolts
- Max. point load in channel 600 kg (1322 lbs)
- Internal connectors available for all rectangular profiles
- Standard length 4 m (13.12 ft)
- Profile includes drilling line marked in side flanges for ease of fabrication
- Anodisation also available
- Other lengths and custom machining on request



Profile 80×61 mm (3.12×2.40")

	Values
80×61 mm (3.12×2.40")	g = 3.38 kg (7.45 lb)/m
	I _y = 99.23 cm ⁴
	M _{y,Rd} = 537.00 kNcm

E.g. for roof covers with short spans



Profile 120×80 mm (4.72×3.12")

	Values
120×80 mm (4.72×3.12")	g = 4.93 kg (10.87 lb)/m
	I _y = 409.82 cm ⁴
	M _{y,Rd} = 1552.30 kNcm

E.g. for roof covers with medium spans and walls up to 8 m (26.25 ft) height



Profile 170×88 mm (6.69×3.46")

	Values
170×88 mm (6.69×3.46")	g = 7.51 kg (16.56 lb)/m
	I _y = 1326.02 cm ⁴
	M _{y,Rd} = 3545.50 kNcm

E.g. for wall covers up to 10 m (32.81 ft) height



Connector for profile 80×61 mm (3.12×2.40")

	Values
80×61 mm (3.12×2.40")	g = 2.74 kg (6.04 lb)/m
	I _y = 25.16 cm ⁴
	M _{y,Rd} = 163.36 kNcm



Connector for profile 120×80 mm (4.72×3.12")

	Values
120×80 mm (4.72×3.12")	g = 11.03 kg (24.32 lb)/m
	I _y = 350.42 cm ⁴
	M _{y,Rd} = 1531.50 kNcm



Connector for profile 170×88 mm (6.69×3.46")

	Values
170×88 mm (6.69×3.46")	g = 12.90 kg (28.44 lb)/m
	I _y = 1180.01 cm ⁴
	M _{y,Rd} = 3619.21 kNcm



Profile 250×120 mm (9.84×4.72")

	Values
250×120 mm (9.84×4.72")	g = 8.12 kg (17.90 lb)/m
	I _y = 2944.18 cm ⁴
	M _{y,Rd} = 5323.20 kNcm

E.g. for wall covers up to 12 m (39.37 ft) height



Profile 300×122 mm (11.81×4.80")

	Values
300×122 mm (11.81×4.80")	g = 11.64 kg (25.66 lb)/m
	I _y = 6063.40 cm ⁴
	M _{y,Rd} = 9110.30 kNcm

E.g. for wall covers up to 16 m (52.49 ft) height



Profile 360×122 mm (14.17×4.80")

	Values
360×122 mm (14.17×4.80")	g = 15.45 kg (30.06 lb)/m
	I _y = 10364.40 cm ⁴
	M _{y,Rd} = 12981.80 kNcm

E.g. for wall covers up to 19 m (62.33 ft) height



Connector for profile 250×120 mm (9.84×4.72")

	Values
250×120 mm	g = 10.21 kg (22.51 lb)/m
	I _y = 2852.12 cm ⁴
	M _{y,Rd} = 5395.00 kNcm



Connector for profile 300×122 mm (11.81×4.80")

	Values
300×122 mm	g = 14.94 kg (32.98 lb)/m
	I _y = 5920.40 cm ⁴
	M _{y,Rd} = 9391.50 kNcm



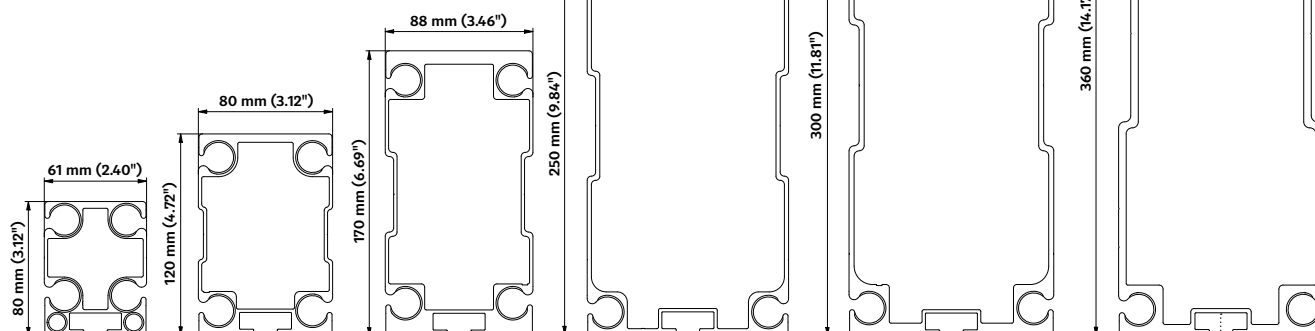
Connector for profile 360×122 mm (14.17×4.80")

	Values
360×122 mm	g = 20.60 kg (45.41 lb)/m
	I _y = 10045.67 cm ⁴
	M _{y,Rd} = 13312.20 kNcm



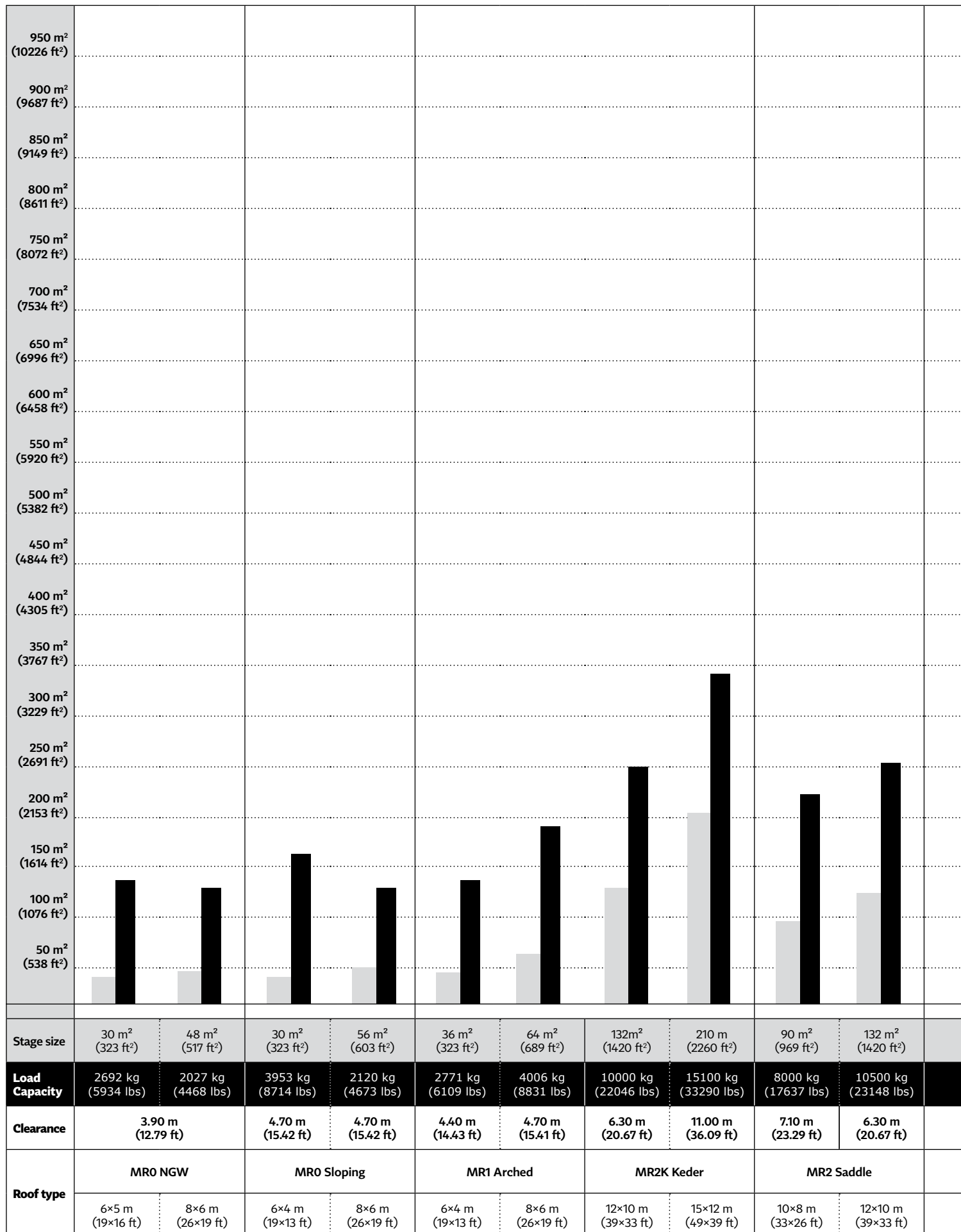
Profile 23×54 mm (0.90×2.12")

	Values
23×54 mm	g = 1.48 kg (3.26 lb)/m

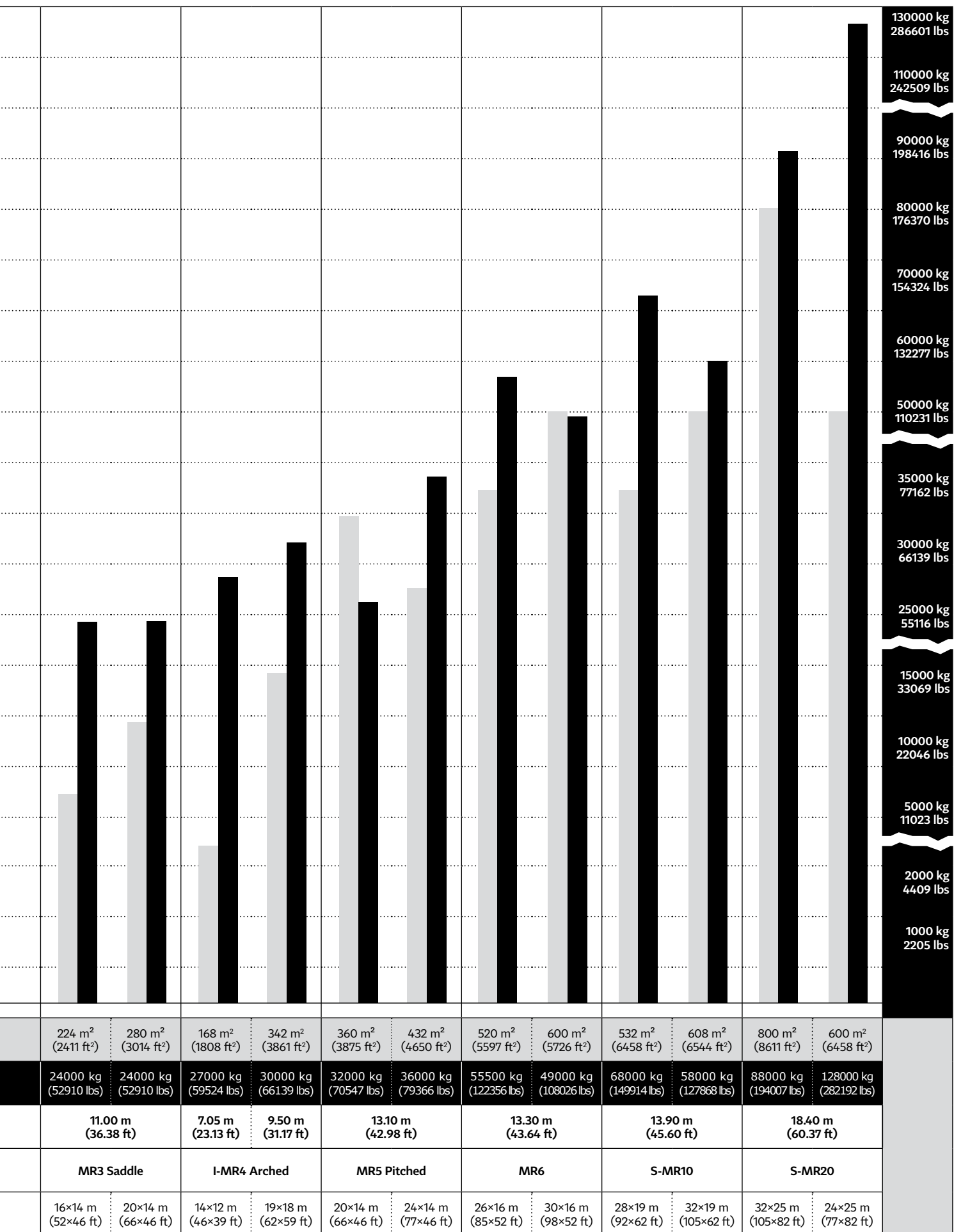


MILOS roofs: overview

Stage size



Load Capacity







MILOS

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