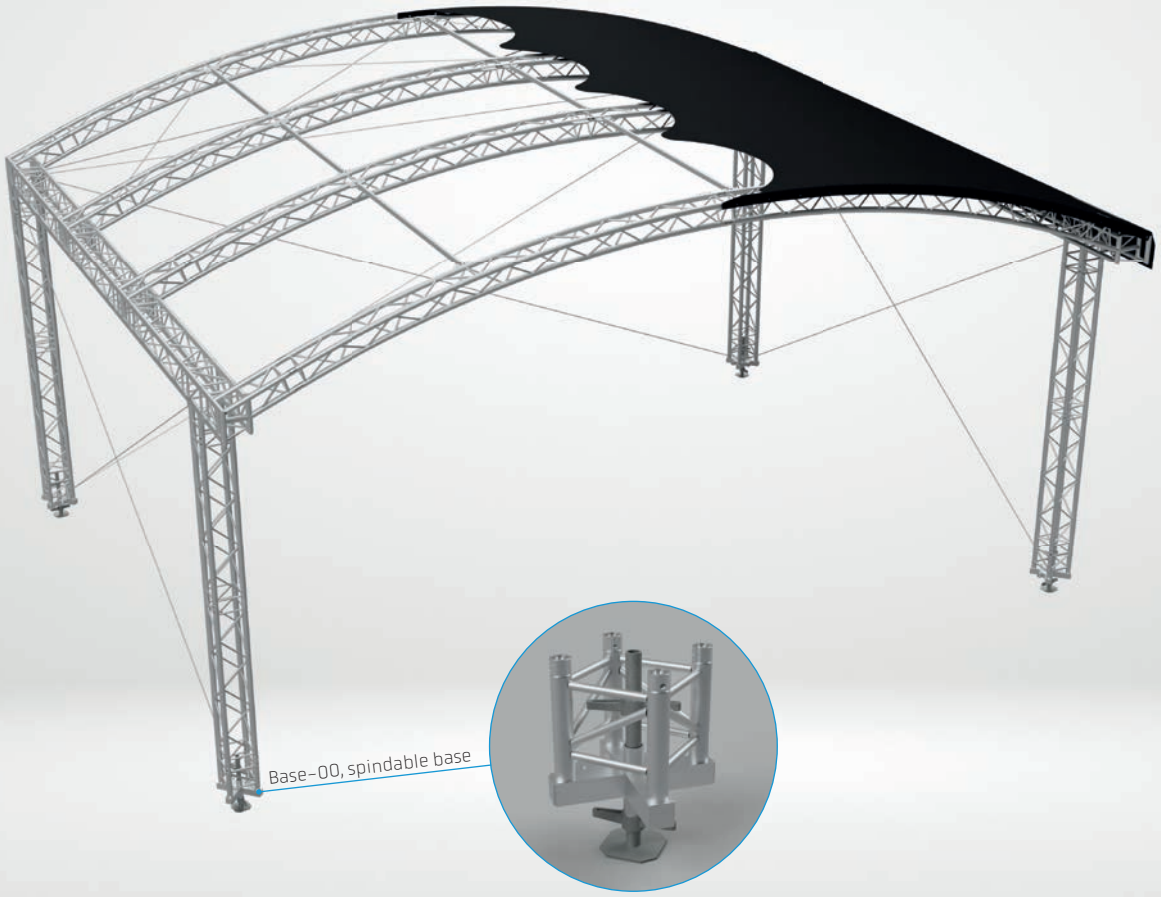
NEXT ARC30 Roofs



NEXT ARC30 Roofs

The NEXT Truss ARC30 Roofs are fixed leg roof constructions on spindable bases, it exists out of 4 legs with three or four arcs, in between pressure beams are attached. It is available as a 6x4, 8x6, or 10x8 meter roof structure., the maximum UDL loading capacity goes from 1800kg up to 2450 kg.

The arc shape comes from the curved-shaped NX/ NH33 trusses, these curved trusses can be changed to create different configurations. Custom sizes are on request

All roofs are standard included with top and wall canopy, tensioning gear and cross-wiring, and extended manual and structural report.

THE ESSENTIALS

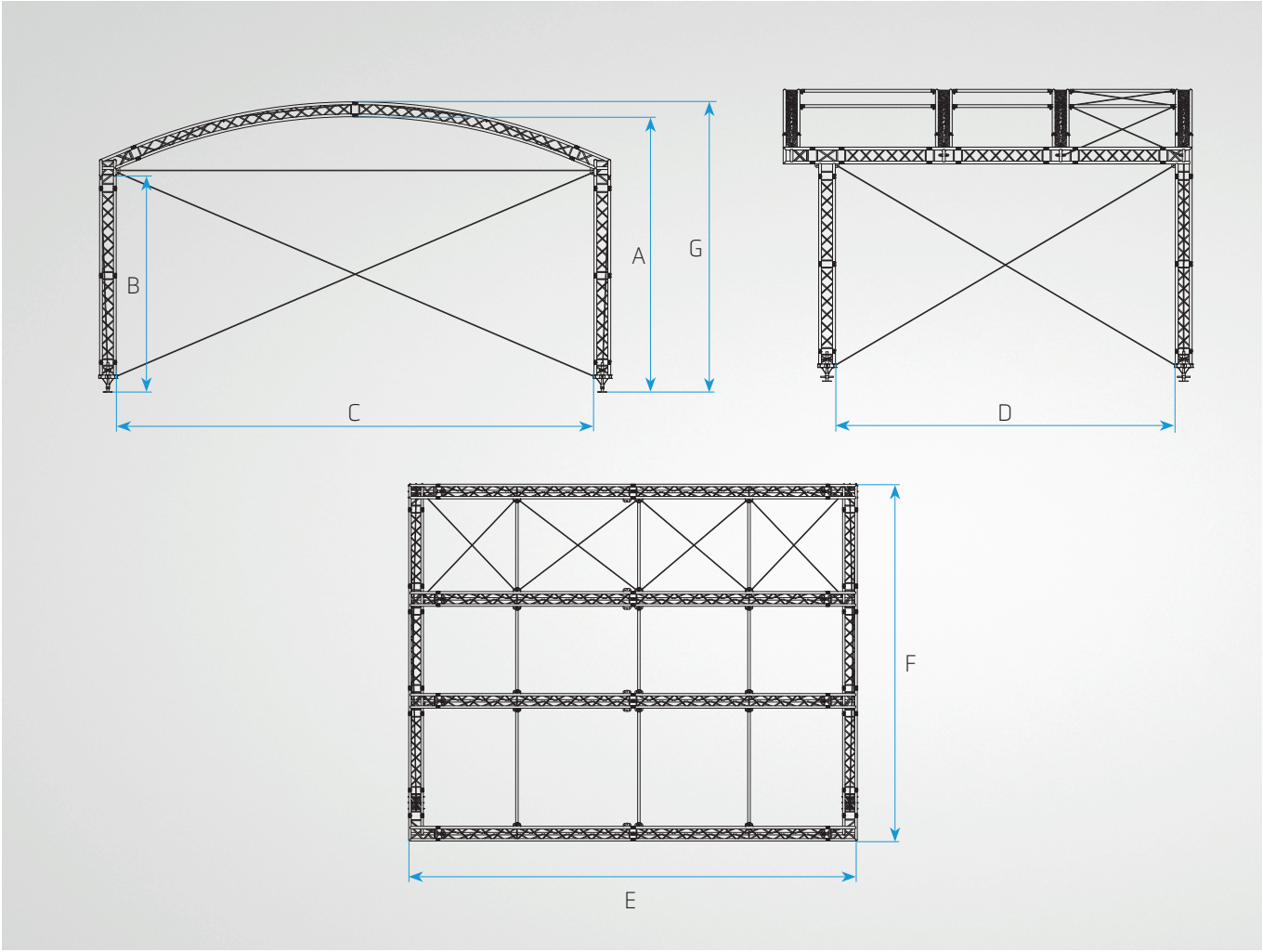
- Quick & easy setup
- The ideal solution for small and medium-sized events
- Due to the curved shape a significant loading capacity
- Options for expansion and upgrade are available

Structure & Ballast	
Roof	NH34 Side truss + NH33 curved truss, (Depending on the size of the roof),
Tower	NEXT Base-00 + NH34 truss
Stabilization	Cross-wiring

Optional	
PA Wings	Extension on the sides (1000 kg per side)
Color of the Canopy	Grey outside, inside black or Black & Black

NEXT ARC30 Roof sizing

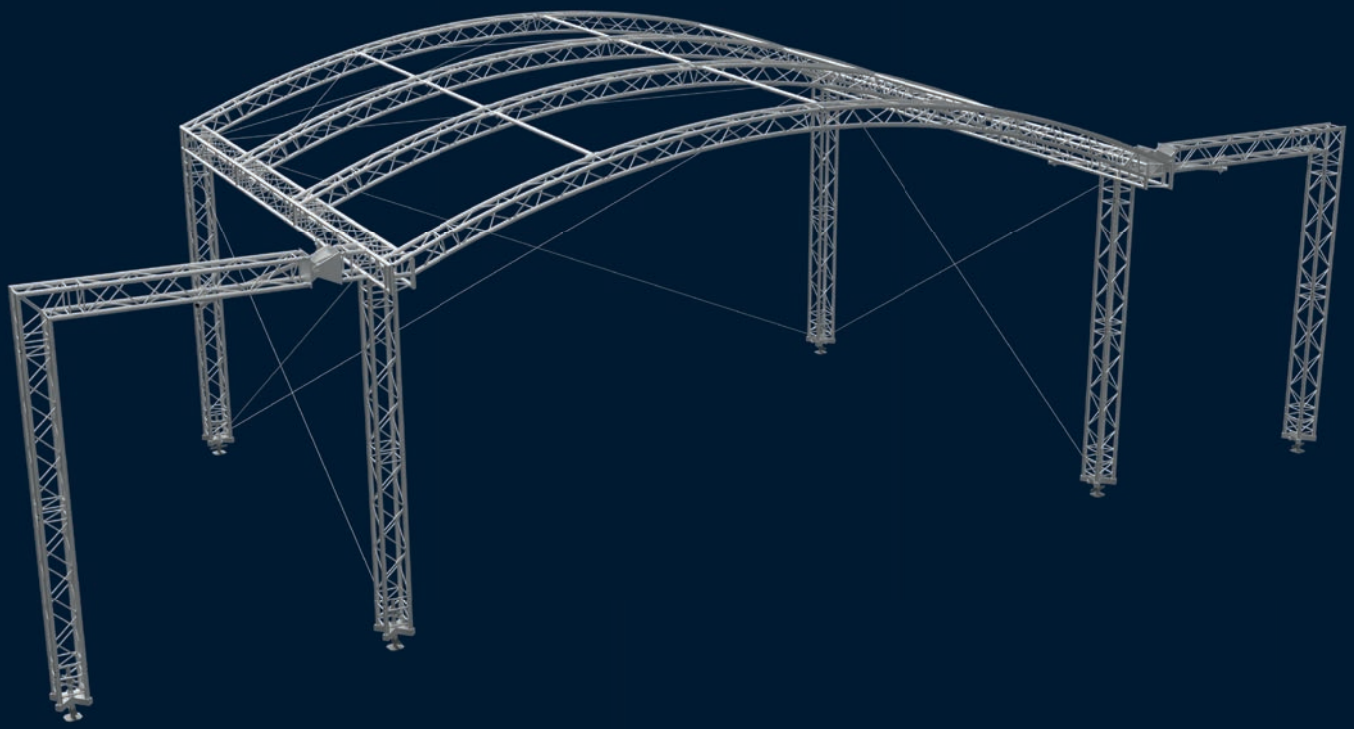
At NEXT Truss, we understand that every event may require a different type/size of roof. That's why the ARC roof is also available in three different sizes: 6x4, 8x6 and, 10x8. The smaller versions of the ARC roofs are built from NH33 arcs based on NH34 towers and side truss, the arched sections are connected to the side truss by custom welded corner sections. On the bigger 8x10 version the welded corners to attach the arcs to the side truss are replaced with special attachments and box corners for a better-engineered design.

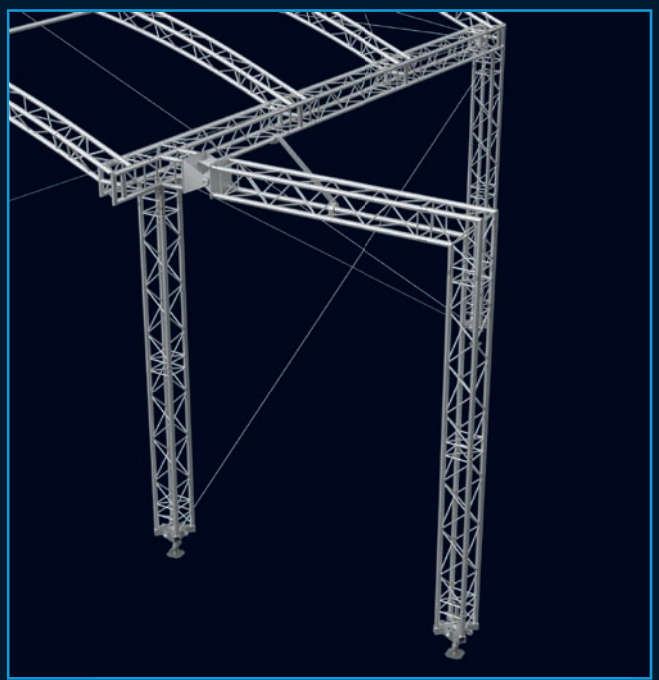


	Roof size in meters	Tower	Quantity of towers	Main Rig Truss	Roof Structure	Clearance center (a)	Clearance side (B)	Width between towers (C)	Depth between towers (D)	Total Width (E)	Total Depth (F)	Total Height (G)	User load UDL in kgs.	Point loads in kgs.	Pa wing / frame per side in kgs.	Max. Wind force m/s*
ARC ROOF																
ARC30-6x4	6x4	NH34	4	NH34	NH33	4,5	3,7	6,2	3,8	6,8	5,0	4,8	500	3000	1000	17,.8/28
ARC30-8x6	8x6	NH34	4	NH34	NH33	4,7	3,7	8,2	5,8	8,8	7,0	4,9	650	3000	1000	17,8/28
ARC30-10x8	10x8	NH34	4	NH34	NH33	5,4	4,2	10,2	7,8	10,8	9,0	5,7	800	3000	1000	17,8/28

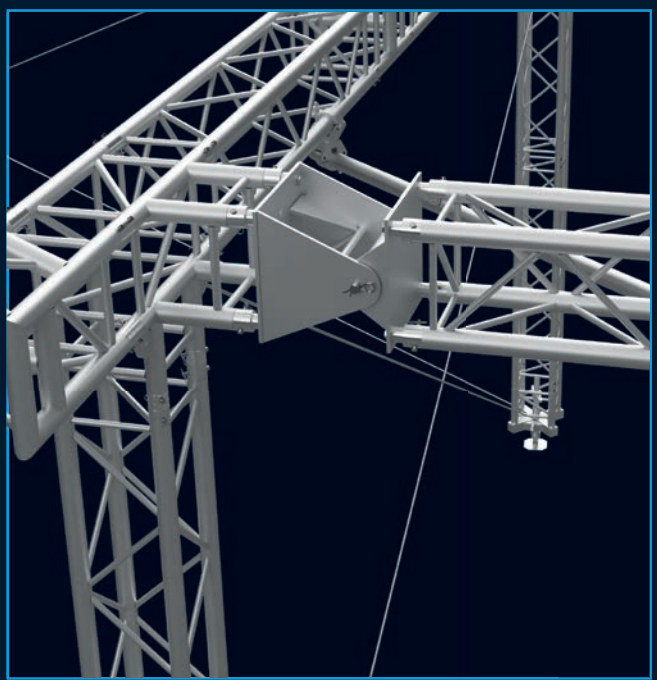
*Dimensions are noted in meters | * Windspeed with and without walls*

NEXT ARC30 Roof + PA WING





For the ARC30 roof PA Wings are available and extend the width of the ARC roof by 3 meters on each side. The PA Wing itself is 2 meters in width. The maximum load is 1.000 kg CPL on each side.



To connect the PA wings to the ARC30 roof, a different corner must be used at the front legs. In addition, a swivel piece must be added to distribute the forces correctly.

NEXT ARC30 Operational details

International Standards

The standards of the design are based on recent Eurocodes 1,3 & 9, these are high standard European norms for Structures made out of aluminium or steel. In addition, all our constructions and products are built according to the EN 1090 EXC2 principle.

These standards are recognized worldwide, some countries and locations require an addition. A construction book for the german market is not required for the ARC30 6x4 & 8x6.

Canopy & Sidewalls

Standard the canopies are grey on the outside and black on the inside, these are also available completely black.
For the sidewalls mesh is also available on request.

Ballast

The needed ballast per tower depends on the size and the roof configuration:

- Canopies, is the roof only covered with the top, or with the backwall or complete with sidewalls?
- Bases, with compression or stand alone bases
- Anti-slip material between bases and substrate
- Weight of load or stage integration

Wind Control

The ARC30 has a maximum wind speed of 17.8m/s or, 64km/h – 40mph*, this calculation is valid when all the canopies are installed. If the winds reach this speed or above the side and back walls should be removed, after that the Out of Use cables should be attached. At this point the construction can hold up wind speeds up to 28.0m/s – 100km/h – 62mph*

* *(maximum speed of wind gusts)*