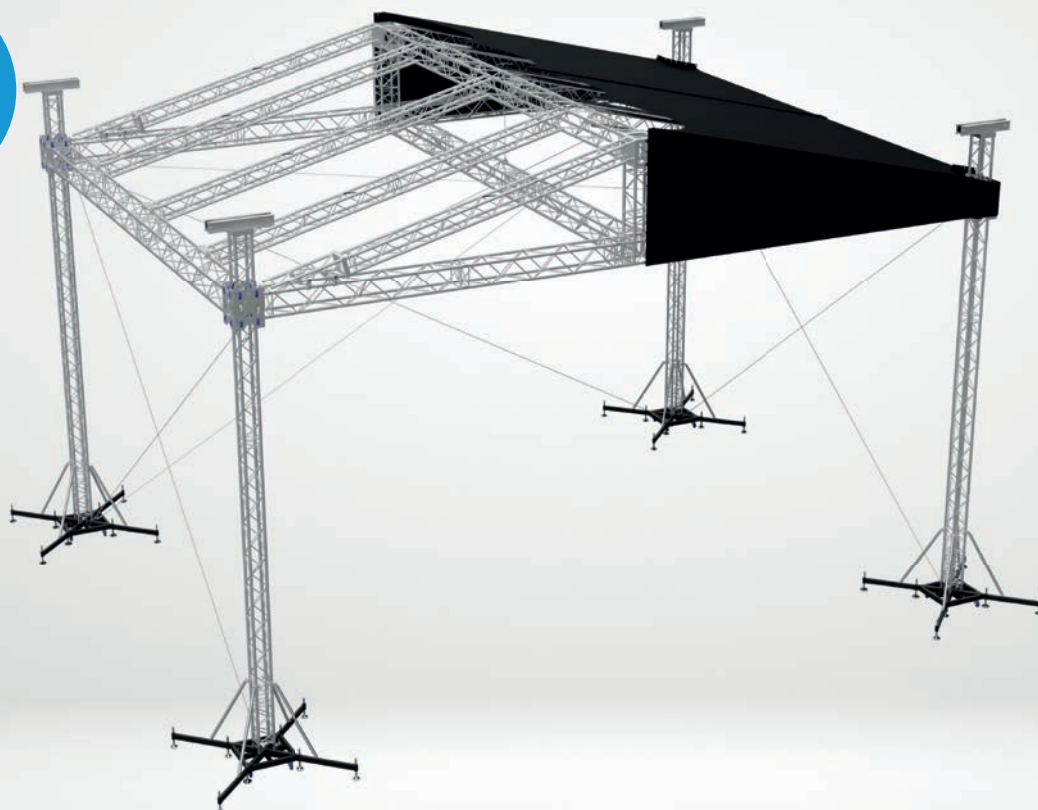




# NEXT SDR40 Saddle Roof



Main rig built with NH44



## NEXT SDR40 Saddle Roof

The SDR40 roof is ideally suited for concerts and outdoor events. This medium sized roof is available in two sizes; 10x8 and 12x10 meters. The pitched design allows water to drain from the canopy, the roof is based on 4 self-climbing towers.

The main rig exists out of NH44 truss combined with NH44/34 as roof structure, combined with some special parts.

All roofs are standard included with a top canopy, tensioning gear and guiding wires, an extended manual and structural report.

## THE ESSENTIALS

- Quick & easy setup
- Scalable and versatile
- The ideal solution for small and medium-sized events
- Options for expansion and upgrade are available

### Structure & Ballast

Roof	NH44 Main rig, NH44/34 roof structure, & canopy
Tower	NEXT Base 02 + NH34 truss
Stabilizing	Cross wiring

### Optional

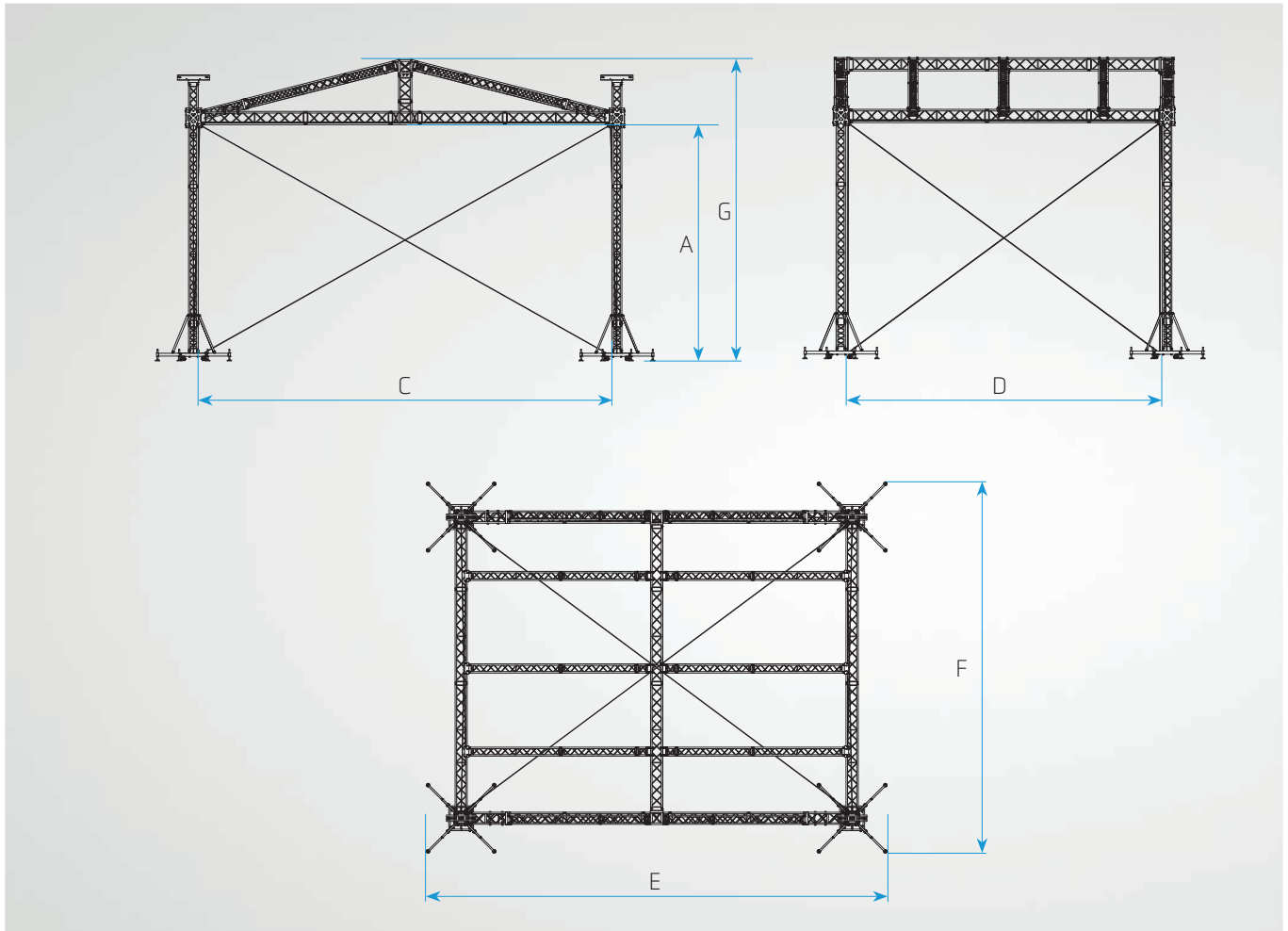
PA wings	Extension on the sides (1000 kg per side)
Color of the canopy	Grey outside, inside black or Black & Black
Compression beam	With the use of compression beams the needed ballast is reduced.
Cantilever	A cantilever of 1 meter is possible
Stage integration	Integration into scaffolding is optional



# NEXT SDR40 Saddle Roof sizing

The SDR40 Saddle Roof is the bigger brother of the SDR30 roof, de 8x10 meter size is overlapping on both series. But within the SDR40 series, a 12x10 meter variant is available. The saddle roof meets all the required international standards and is available in two sizes; 10x8 & 12x10 meters.

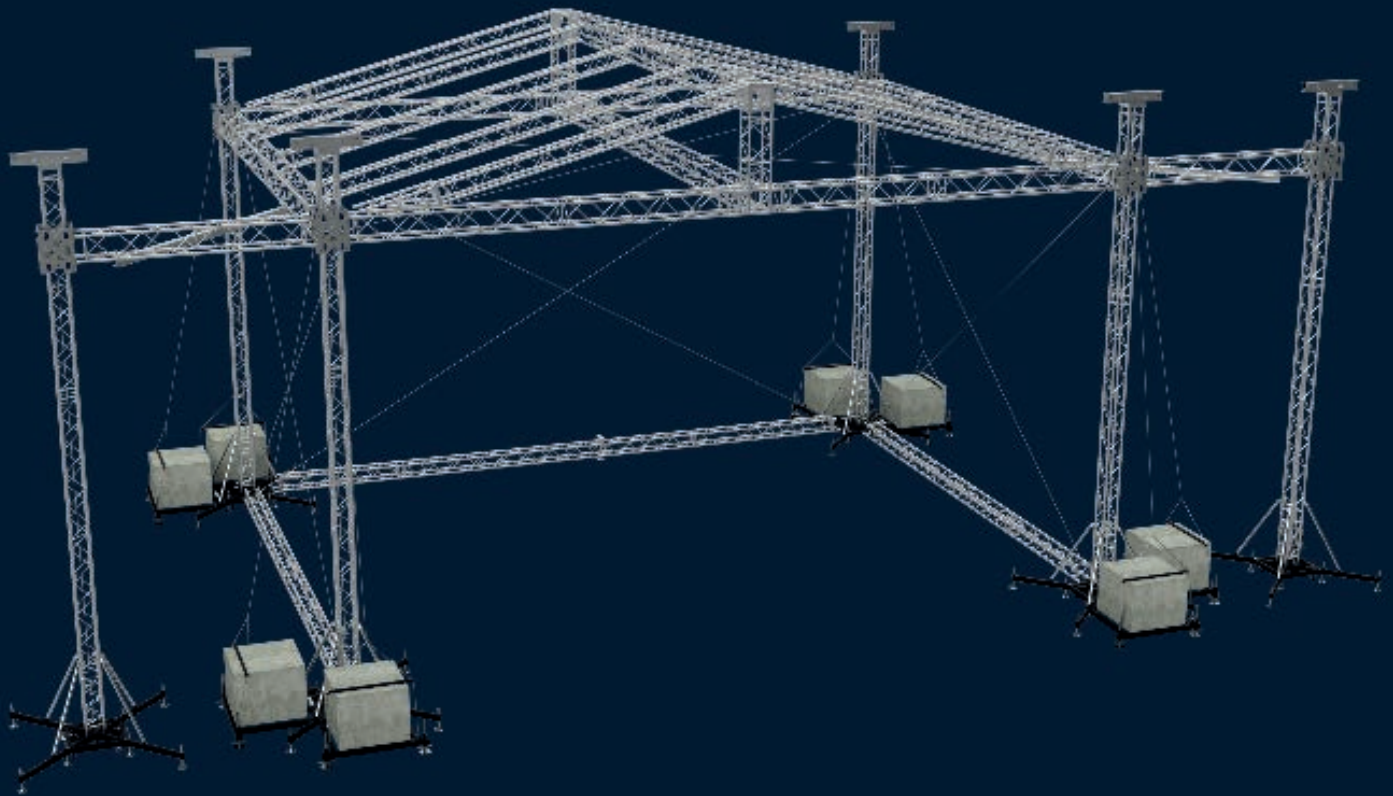
The roof is designed to be built on stand-alone steel bases, the roof can be lifted with a hoist that is attached to the sleeve block which slides over the NH34 tower. Since the ground supports and additional parts for the roof are mainly constructed from standard NH34/44 parts, only a few special roof parts are needed to build an SDR40 roof. This makes the roof very attractive and cost-effective.



	Roof size in meters	Tower	Quantity of towers	Main Rig Truss	Roof Structure	Clearance center (A)	Width between towers (C)	Depth between towers (D)	Total Width (E)	Total Depth (F)	Total Height (G)	User load UDL approx in kgs.	Pont load approx in kgs.	Pa wing / frame per side in kgs.	Max. Wind force	
<b>SADDLE ROOF</b>																
	SDR40-10x8	10x8	NH34	4	NH44	NH34	6,9	10,1	7,3	12,7	9,8	8,6	4000	4000	1000	17,8/28
	SDR40-12x10	12x10	NH34	4	NH44	NH34	6,9	12,1	9,3	14,7	11,8	8,8	3250	2800	1000	17,8/28

Dimensions are noted in meters

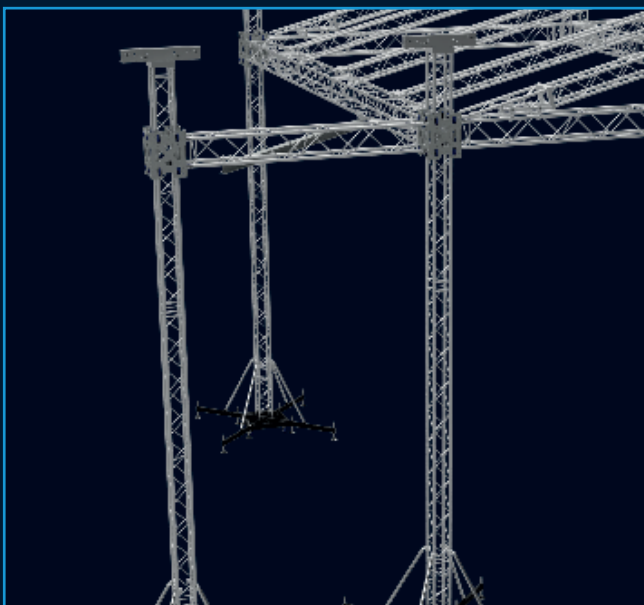
# NEXT SDR40 Roof + PA WING



## Compression Beams

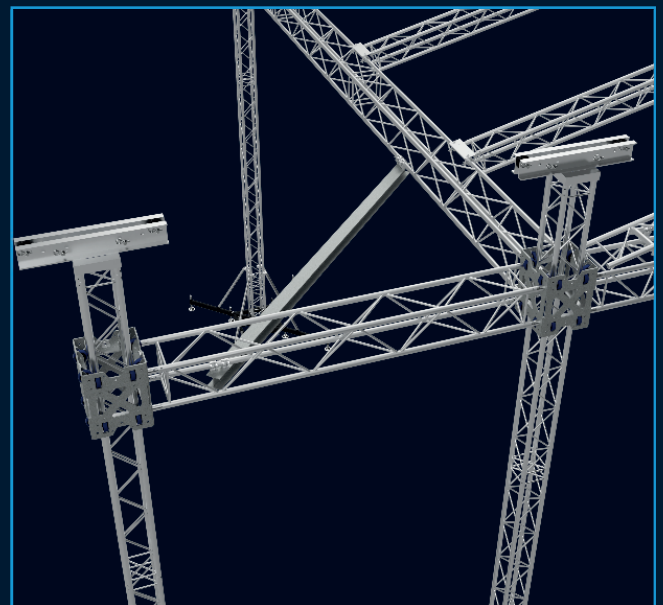
Compression beams are interconnecting the bases of a roof construction. The bases in the front will be connected with the bases in the rear and both bases in the rear will be connected to each other. In this way the necessary ballast for a roof construction can be activated more efficient and therefore can be reduced up to 40-50% in comparison to a situation with free standing towers.

## PA Wing



For the SDR40 roof PA Wings are available and extend the width of the Saddle Roof by 3 meters on each side. The maximum load is 1.000 kg CPL on each side.

## I-Beam in Wing



To give horizontal support to the PA-Wings NEXT chooses to use small "H" steel profiles as diagonal support for the PA-Wings. The beams are small and will therefore need small "holes" in the side walls, the other advantage and main reason is the additional pick-point for the PA cluster.



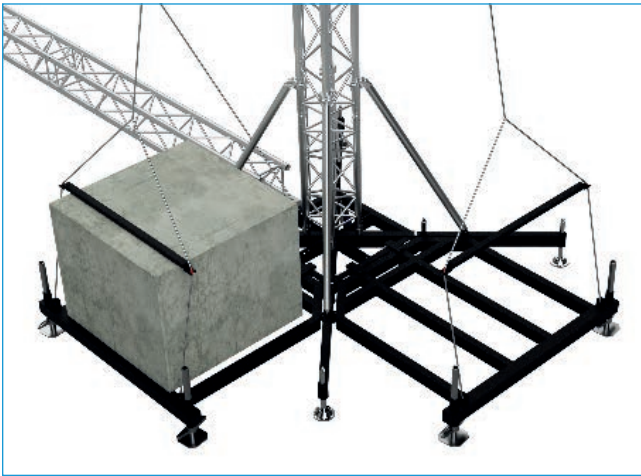
## NEXT SDR40 Roof Options

### Ballast Tray

Even with small roof constructions a huge amount of ballast is necessary. To activate the ballast in the right way is not easy. A solution to activate the ballast is a so-called ballast tray. A ballast tray (NT-BASE-BF02) is a platform to be used in combination with a standard base (BASE 02).

If the ballast tray is attached to the base the platform can carry up to 2000kg. A cable set (NT-CS-BF02) will activate the ballast against lift and sliding.

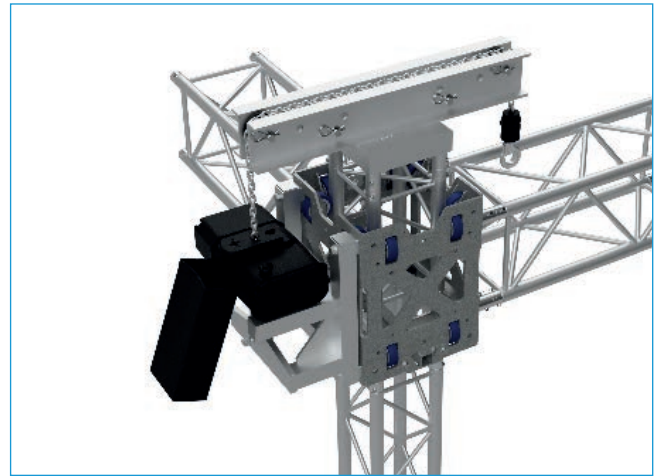
For a standard roof construction, build with compression beams and with two ballast trays for every tower the ballast can be adequate added to the construction.



### Motor House

A common way of using an electrical chain hoist is to attach the hoist on top of a truss next to the tower and attach the hook on the other side of the tower to the sleeve block. Another way is to use a so called "motor house" which will be assembled on the sleeve block and can carry and attach the chain hoist.

When using a motor house, the rig can climb closer to the top of the tower.



## NEXT SDR40 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.

### 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, fire retardant canopy and mesh walls are 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 SDR30 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]