

ARC ROOF



Photo: Forsch Ink inc., Philippines

SYSTEM DESCRIPTION

The Arc Roof is a fixed construction, based on three inward-curving trusses that are mounted to side masts. A hinged connection at the outer ends simplifies system setup. Special corners connect the arches to the main grid. Different configurations are made possible by simply changing the arches. The arched trusses have a keder profile on top for fitting the optional canopy.

BASIC TRUSSING

- Tower — MPT base sections
H30V truss
- Grid — H30D arched truss - with keder profile

INCLUDING

- Tension gear and steel wires
- Comprehensive building manual
- Structural report

ROOF STRUCTURE

| | |
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| Towers | Non. Portal structure, MPT base sections and H30V truss |
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| Main grid | H30V truss and 6 special corners |
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TECHNICAL SPECIFICATIONS - ARC ROOF

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| Dimensions | 10 x 8 m , 8 x 6 m, 6 x 4 m, (32'9" x 26'3"), (26'3" x 19'8"), (19'8" x 13'1") |
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| Loading capacity (UDL) | 10 x 8 m approx. 2600 kg / 5126 lbs 8 x 6 m approx. 2400 kg / 5286 lbs 6 x 4 m approx. 2000 kg / 4405 lbs |
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| Total weight | approx. 600 kg / 1324 lbs |
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| Transportation volume | approx. 6 m³ / 212 cu. ft. |
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| Max. wind speed | 28,4 m/second, 63,3 mph |
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OPTIONS

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| Canopy | side, back and top |
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| Canopy colour | standard: outside grey, inside black (other colours possible) |
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| Soundwings | no |
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| Ballast | several possibilities on request depending on construction and wind speed |
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| Staging | Prolyte stage elements, EasyFrame B or Probeam combined with a scaffolding stage |
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HINGED ARC ROOF

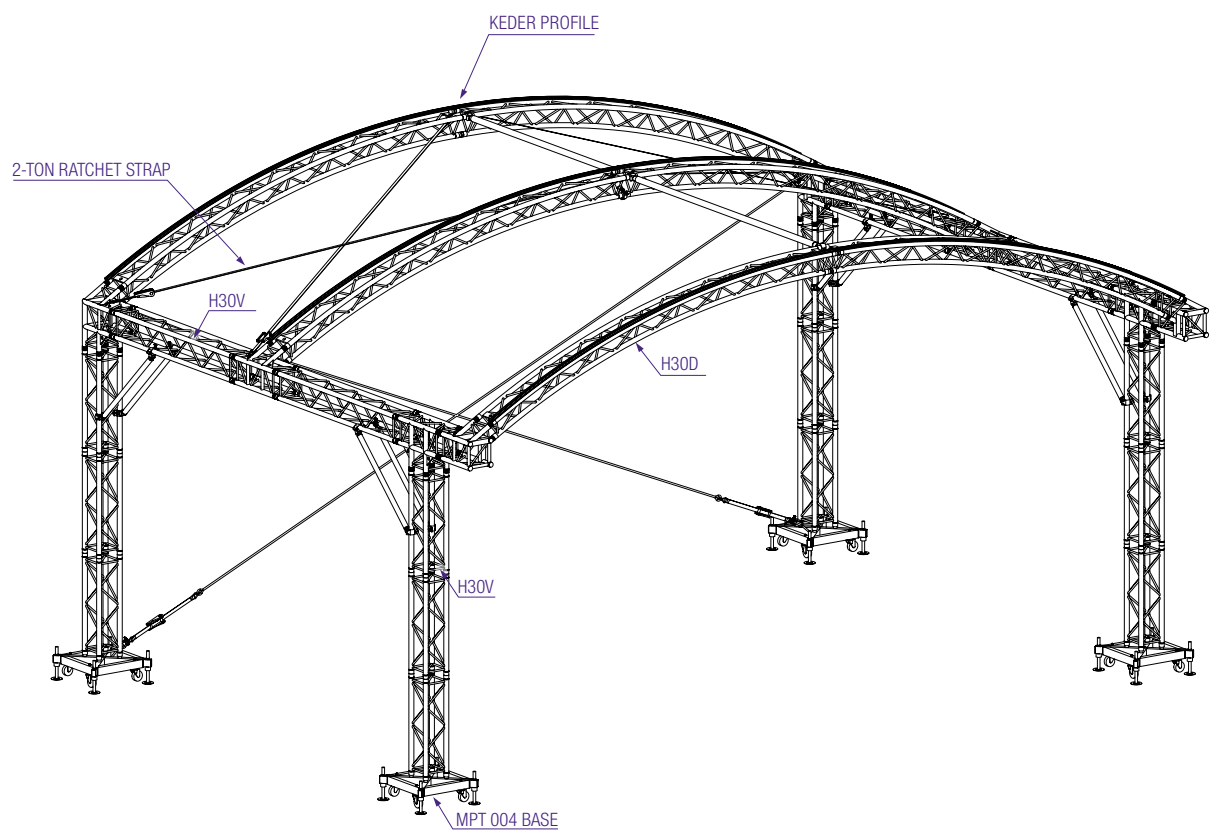
Prolyte has developed a very clever variation to its existing Arc Roof – a hinged system. The hinged construction on the mast sections allows for construction at stage level, cutting build times and improving safety during build-up. When the complete roof is built and the canopies are in position, the entire structure can then be hoisted into position, using two manual chain hoists connected to the towers at the rear. Once the roof is lifted into place, 8 additional pins are used to secure the hinges in the masts thereby securing the complete system.

For more information visit www.prolyte.com/prolyte-structures



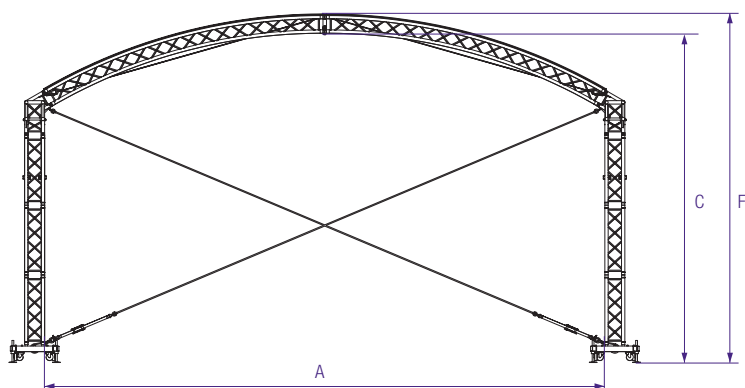


Photo: Live Systems Ltd, UK. project: Tall Ships Races Festival in the Shetland Islands



ARC ROOF

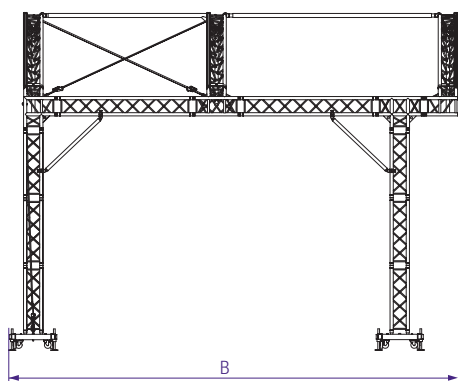
Front view - 8 x 6 m Arc



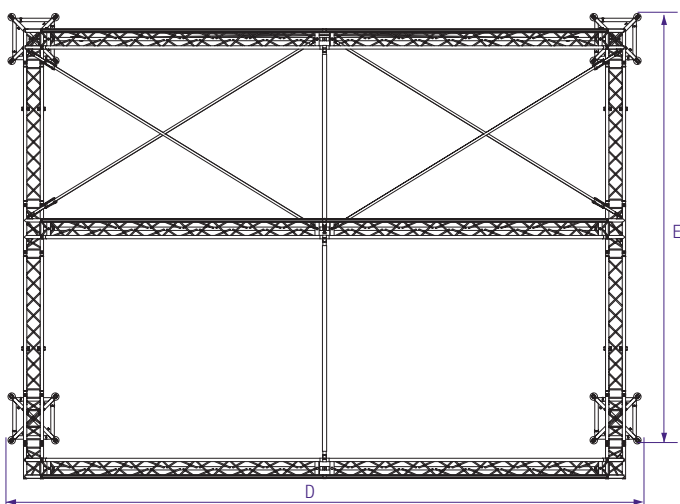
ARC ROOF SYSTEM

| | |
|----------|--------|
| 10 x 8 m | 4 Arcs |
| 8 x 6 m | 3 Arcs |
| 6 x 4 m | 2 Arcs |

Side view - 8 x 6 m Arc



Top view - 8 x 6 m Arc



| ARC ROOF SYSTEM | | Inside | | | | | | Overall | | | | | |
|--------------------|---------------|---------|-------|--------|-------|--------|-------|---------|--------|--------|-------|--------|-------|
| Stage measurements | | A | | B | | C | | D | | E | | F | |
| 10 x 8 m | 32'9" x 26'3" | 10,12 m | 33'2" | 8,42 m | 27'7" | 6,03 m | 19'9" | 11,14 m | 36'6" | 8,15 m | 26'8" | 6,31 m | 20'8" |
| 8 x 6 m | 26'3" x 19'8" | 8,12 m | 26'7" | 6,42 m | 21'0" | 4,76 m | 15'7" | 9,14 m | 29'12" | 6,15 m | 20'2" | 4,99 m | 16'6" |
| 6 x 4 m | 19'8" x 13'1" | 6,12 m | 20'0" | 4,71 m | 15'5" | 4,49 m | 14'8" | 7,14 m | 23'5" | 4,44 m | 14'7" | 4,77 m | 15'8" |