

CABLES RADIAL CABLE SYSTEM

RADIAL CABLE SYSTEM



FABRIC SUPPORT

This design relies entirely on the design strength of the dome fabric for air structures design loads, and generally provides the minimum 4 times fabric safety factor required by code of the structure's overall engineering design.

MINIMAL DESIGN

The radial cable design has the widest cable spacing of the three designs. Since this design has minimal cabling, it is generally used for seasonal air structures to reduce the work involved in the annual removal of the dome from its site. The radial cable system keeps the fabric envelope in place, but the entire structural load is carried by the fabric envelope.

WEATHER EFFICIENCY

This system does not provide the stability of other designs in high winds (about 140 MPH Wind Design). Additionally, this design only supports about 5-7 lbs of roof snow per sq. ft., only meeting the snow load requirement in the International Building Code (IBC) if heat from the interior of the dome is used to melt the snow; or if snow is shoveled off the dome during each storm. Arizon generally recommends other cable system designs, but the radial design can be used in some circumstances.

RADIAL CABLE SYSTEM

CODE COMPLIANCE

Meets IBC Codes; 4 times the minimum safety factor required by code.

WIND DESIGN

140 MPH

SNOW LOAD

5-7 psf

STRUCTURE TYPE

Seasonal Applications

DESIGN SHAPE

Radial supported design with the widest cable spacing.

Tensioned cables in one direction across the barrel of the building.



RECOMMENDED FOR SEASONAL STRUCTURES

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