



R-Plus Insulated Air Structures

Permanent Sport, Industrial, Production Buildings and Cold Climate Applications



Irish Sports Dome
Rosemount, MN, 450'L x 225'W x 68'H



Vadnais Heights Sports Complex
Vadnais Heights, MN, 450'L x 220'W x 72'H

Yeadon® is the industry pioneer for insulated air-supported permanent structures for both warm and cold climates. Our system incorporates high efficiency glass fiber insulation, proprietary air handling ducts to minimize air stratification, and a sophisticated computerized control system for maximum energy efficiency.

Over 30 years experience constructing quality air supported structures for sports, industry, and construction, has earned Yeadon® its reputation as the industry leader. Our modern, energy efficient structures incorporate the latest innovations in design, anchoring, mechanical, electrical and proprietary control systems.

Professional teams, colleges, universities, municipalities and industries demand low cost, clear span, energy efficient, climate-controlled structures for increased comfort with cost effective running expenses. Yeadon provides column free, R-Plus domes up to 360' (110m) wide by virtually any length, to meet the most demanding needs and specifications.

Standards:

Yeadon structures meet and exceed industry standards including Air Structures Design and Standards Manual ASI, ASCE, CSA, CAN-S109 and NFPA 701.

Uses:

Yeadon® R-Plus insulated air structures are ideal for permanent sport applications including tennis and racquet sports, golf, soccer, hockey, football, cycling, as well as industrial warehouses, production and storage buildings.

Yeadon® R-Plus Structures are also available for cold climates, providing additional energy savings in heating fuels. Yeadon® has developed an air structure design with an integral air-handling system and control package to move warmed air to the roof crest to melt snow on demand.



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Technical Support:

Design, construction advice, specification, preparation of tender and bids, and a 24 Hour Hot-Line service are all part of Yeadon's® services.

Specifications

- **Clear Spans:** up to 360' (110 meters) wide by any length
- **Outer Fabric:** 28oz and 32oz per square yard, high quality, high tensile, flame resistant, PVC coated, polyester fabrics are available as translucent or opaque with a 10-year pro-rated fabric warranty.
- **Finishes:** standard acrylic or Arkema Kynar® protective coatings are available. Kynar® coated fabrics have a 15-year pro-rated fabric warranty.
- **Inner Thermal-Acoustic Liner:** 16 oz per square yard, high strength, PVC coated, polyester fabric with Yeadon® high gloss finish in white, blue, green, or your choice of customized colors.
- **Mechanical Systems:**
 - **Furnace/Inflation/Standby** – Yeadon® features an all-in-one combination mechanical unit, which is custom designed, quiet, and supplied with stainless steel heat exchangers (ETL and CGA approved). This unit comes complete with remote station controls to operate and maintain the air structure, and can be designed for underground ducts or direct discharge.
 - **Standby Unit** – incorporate built-in or secondary fan systems for low pressure. A separate independent engine-driven fan for power failures.
 - **Air Cooling Units** – designed for specific site conditions are available as an option.
 - **Controls** – The Wind Sensor, Snow Sensor, and Full Automation Control is the most advanced automatic control available. It uses modern computerized controls for interior pressure, heating, and monitoring.
- **Insulation:** Yeadon® offers its R-Plus insulated structures for permanent installations. R-Plus structures are available up to R-14.
- **Base Channel:** Our exclusive extruded anodized aluminum channel ensures a virtually airtight, low cost attachment when cast into the concrete grade beam.
- **Doors:** Heavy-duty, high quality, and preassembled exit doors, revolving doors, car and pedestrian air lock door units are available. They all come complete with exit lighting and hardware.
- **Air Locks:** Heavy duty, fabric covered steel frame vehicle airlocks for vehicles and pedestrians, supplied with electrically operated steel roll-up doors.
- **Lighting:** Yeadon's® high intensity metal halide indirect lighting systems utilize the most efficient optical reflectors to provide maximum lighting uniformly on the playing surface. The fully faceted, heavy duty, impact resistant, glass finished optical assemblies provide energy efficiency with maximum levels of illumination and minimum maintenance.

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