



South Adams County Fire Department

6050 Syracuse Street, Commerce City, CO 80022

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Tent & Membrane Structures

Submittal Process: The Following items are required for a Tent and or Membrane Structure Review submittal. Failure to provide the following may require a Review Denial or Resubmittal. All submittals shall have a South Adams County Fire Department Plan Review Application attached.

Definitions:

- **Tent:** A structure, enclosure, umbrella structure or shelter, with or without sidewalls or drops, constructed of fabric or pliable material supported in any manner except by air or the contents it protects.
- **Membrane Structure:** An air-inflated, air-supported, cable or frame-covered structure as defined by the *International Building Code* and not otherwise defined as a tent. See Chapter 31 of the *International Building Code*.
- **Air-inflated Structure:** A structure that uses air-pressurized membrane beams, arches or other elements to enclose space. Occupants of such a structure do not occupy the pressurized areas used to support the structure.
- **Air-supported Structure:** A structure wherein the shape of the structure is attained by air pressure, and occupants of the structure are within the elevated pressure area. Air supported structures are of two basic types:
- **Temporary Special Event Structure:** Any temporary ground-supported structure, platform, stage, stage scaffolding or rigging, canopy, tower supporting audio or visual effects equipment or similar structures not regulated within the scope of the *International Building Code*. **** Special Event Permits need to go through the corresponding Building Department****

Drawings Requirements:

- Electronic plans in .pdf format. Please submit files in an unlocked and unsecured state for plan review.
- A Site Plan to include:
 - Shows tent location on property along with other structures including buildings, fences, generators, propane cylinders, heating equipment, etc.
- A Floor Plan to include:
 - Details for the interior layout of the tent including the proposed use, table and chair arrangements

- Exit Locations
- Means of Egress
- Fire Extinguisher Placement
- Indicate the approximate scale, northern direction and date the drawing was completed.
- Flame Retardant Certification for the tent fabric and any interior decorative material.
- Any other documentation Applicable to the installation (ie engineering documents, etc.)
- Indicated Use period for the temporary structure.
 - **3103.5 Use Period.** Temporary Tents, air-supported, air-inflated or tensioned membrane structures shall not be erected for a period of more than 180 days within a 12-month period on a single premises.
- Indication of what hours the tent or temporary structure would be used

Inspections:

An inspection will be needed when the structure is erected.

- Anchorage is done per manufactures recommendation
- Exits shall be placed at equal intervals around the perimeter of the tent and shall be located such that all points are 100ft or less from an exit
- Exit openings shall remain open unless covered by a flame-resistant curtain.
 - Curtain shall be of a color or colors that contrasts with the color of the tent
- Exit doors shall swing in the direction of exit travel
- Aisles shall be always maintained clear during occupancy
- Exits shall be clearly marked and where otherwise necessary to clearly indicate the direction of egress where the exit serves an occupant load of 50 or more
- Exit signs illumination internally or externally
- Means of egress shall be illuminated
- Means of egress shall always be maintained to a public way, guy wires, guy ropes and other support members shall not cross a means of egress of less than 8 feet
- Cooking appliances or devices that produce sparks or grease laden vapors or flying embers shall not be used within 20 feet of a tent or temporary structure