

FINAL CHECKLIST FOR MEMBRANE STRUCTURES

Per NFPA 102, 1995 edition, unless otherwise specified.

Definition of a Membrane Structure:

A building or portion of a building incorporating an air-inflated, air-supported tensioned-membrane structure; a membrane roof, or a membrane-covered rigid frame to protect habitable or usable space.

- 1) Y _____ N _____ N/A _____
Flame spread rating must be class A. (102:6.1.6)
- 2) Y _____ N _____ N/A _____
Membrane material verified flame-resistant through **certification** from an accepted testing organization or inspection report from other inspection authorities. (102:6.1.8.1)
- 3) Y _____ N _____ N/A _____
Tensioned Membrane Structures must be built per plans and specifications prepared by licensed architect or engineer. (102:6.2.1)
- 4) Y _____ N _____ N/A _____
Annual inspection and maintenance required. (102:6.4.2)
- 5) Y _____ N _____ N/A _____
Every 2 years, a professional engineer must perform an inspection, registered architect or individual certified by the manufacturer. NFPA (102:6.4.2)
- 6) Y _____ N _____ N/A _____
Only labeled heating devices used. (11.9.5.1.1) see cpt. 10
- 7) Y _____ N _____ N/A _____
Electric heaters are connected by electric cable of sufficient size. (102:10.2.1.5)
- 8) Y _____ N _____ N/A _____
Containers for **liquid petroleum gases must be at least 5 feet** from any temporary membrane structure. Tanks are stored upright and away from traffic. (102:10.2.1.4 and 102:10.2.1.5)
- 9) Y _____ N _____ N/A _____
All of the ground inside the membrane structure and at least 10 feet outside of the structure must be cleared **of all flammable/combustible material or vegetation.** (Except in areas used for necessary support equipment. (102:9.2.2)
- 10) Y _____ N _____ N/A _____
Fire extinguishers are used (Temporary Membrane Structures only). (102:9.3.3)

11) Y _____ N _____ N/A _____

A fully **automatic standby power system is required.** (102:6.3.5.1.1)

Inflation Equipment (11.9.9.1 (1) – (8))

12) Y _____ N _____ N/A _____

The design inflation pressure and the capacity of each blower system shall be **certified by a professional engineer.**

13) Y _____ N _____ N/A _____

Includes **auto control of auxiliary blower units** to maintain proper pressure.
(102:6.34.2 (g))

14) Y _____ N _____ N/A _____

Blowers powered by **continuous-rated motors** at maximum required power.
(102:6.3.4.2)

15) Y _____ N _____ N/A _____

Blowers must have **personal protection** inlet screens and belt guards.
(102:6.3.4.2 (b))