

1. Coverage Efficiency

- **Triangular sails** generally cover less area than rectangular sails of the same dimensions because of their shape. You will likely need **more triangular sails** to cover the same 1,750 sq ft.
- **Rectangular sails** are more efficient for covering large, open spaces due to their larger surface area per sail. With triangles, you may need overlapping or multiple sails to ensure adequate coverage, which could slightly increase both material and installation costs.

2. Cost of Sails

- **Triangular sails** are usually **cheaper per sail** compared to rectangular ones, but the **total cost could be higher** due to the need for more sails.
- A typical **20x20x20 ft triangular sail** can cost \$300–\$800 depending on the material and brand, whereas a **20'x20' rectangular sail** may cost \$500–\$1,500(Backyard City).
- **Estimated Sail Cost** for 1,750 sq ft:
 - Triangular sails: \$1,200–\$3,500 (for 4–6 sails)
 - Rectangular sails: \$1,500–\$4,500 (for 2–3 sails)

3. Hardware & Mounting Structures

- **Triangular sails** require **more attachment points**, typically three for each sail, whereas rectangular sails need only four. More attachment points mean additional poles, brackets, and tensioning hardware.
- **Hardware costs** may increase slightly, as each triangular sail would need extra supports, with each anchor point costing around \$50–\$300 depending on the quality.
- **Estimated Hardware Costs:**
 - Triangular sails: \$1,000–\$2,000 (due to more mounting points)
 - Rectangular sails: \$500–\$1,500

4. Installation Costs

- Since triangular sails require more attachment points, installation might take longer and require more labor.
- **Labor costs** for triangular sails could range from \$1,500 to \$5,000, depending on the complexity of the installation and the number of sails.
- For rectangular sails, installation typically costs between \$1,000 and \$4,000.

Comparison of Total Project Budget for 1,750 sq ft (Triangular vs. Rectangular)

- **Triangular Sails:**

- **Lower Range:** \$6,000–\$10,000
- **Upper Range:** \$11,000–\$16,000
- **Rectangular Sails:**
 - **Lower Range:** \$5,000–\$8,000
 - **Upper Range:** \$9,000–\$15,000

In summary, **triangular sails** may increase costs slightly due to the need for more sails, mounting points, and labor, but they can offer greater flexibility in design and a more aesthetic, dynamic look for your space. Rectangular sails are more efficient for covering larger areas with fewer sails and simpler installation.