



## 8 TUFF SPAN FACTS YOU NEED TO KNOW

➤ **Q: Are Tuff Span building panels the strongest FRP material?**

**A: Yes**, based on equal product weight comparisons.

- For higher strength and stiffness, Tuff Span PFR panels typically have 15-20% more reinforcing content than woven and 40% more than chopped strand materials.
- The straight, continuous, bi-directional alignment utilized in Tuff Span is the most efficient means for load transfer as compared to randomly dispersed chopped fibers or bent, woven fibers.



➤ **Q: Are Tuff Span FRP roofing panels safe for foot traffic?**

**A: Yes**, depending on the Tuff Span panel selected and the span distance between supports.

- Heavier and stronger**, Tuff Span panels such as Series 450 and 400 roofing and Tuff Span deck panels are safe for foot traffic
- Enduro sales engineers should be consulted for foot-traffic safety guidelines.

➤ **Q: Are Tuff Span translucent panels as strong as Tuff Span opaque materials?**

**A: Yes**, for the same Tuff Span panel profile and series.

➤ **Q: What fire protection classifications apply to Tuff Span?**

**A:** Tuff Span panels have **FM** and **UL** Classifications for fire protection.

- FM Global Standard 4880:** Tuff Span cladding panels have FM Class 1 rating for unlimited heights and without automatic sprinkler requirements.
- UL/ULC Flame Spread Rating:** Class 1 flame spread and smoke development per ASTM E 84.
- ULC S134:** Tuff Span FM panels have been tested and certified for this testing.
- Other fire protection testing and certifications for Tuff Span panels include **ASTM E108**, **ASTM D-635**, and others.

➤ **Q: Does Tuff Span offer better UV protection than alternative FRP materials?**

**A: Yes**, Tuff Span has additional means of UV protection.

- Tuff Span includes an optimum amount of UV inhibitors and stabilizers within the material.
- For extended color retention, Tuff Span exterior cladding has a factory-applied, acrylic polymer surface coating.

➤ **Q: What is the expected service life for Tuff Span?**

**A:** Tuff Span service life has exceeded **25 years** in conditions that include hurricane winds and aggressive chemical exposure.

➤ **Q: What is the recommended deflection limit for a FRP panel?**

**A:** Up to L/180 as the project budget allows.

- Tighter and more conservative, deflection limits result in a more rigid and weather-tight structure.
- For cladding panels, L/60 is the maximum allowable deflection by the International Building Code.

➤ **Q: What does the Tuff Span family of FRP building products include?**

**A:** Structural shapes, louvers, ridge vents, gutter, roof deck, form deck, flashings, accessories, in addition to roofing and siding.