



STAY COOL.

PLAY SAFE.

COMPLIANT ATHLETIC BUILDINGS FOR TEXAS,
FLORIDA & CALIFORNIA SAFETY STANDARDS



PROTECTING ATHLETES STARTS WITH SMARTER STRUCTURES

New regulations like Texas's UIL Heat Guidelines, Florida's Zachary Martin Act and California's CIF Heat Guidelines are raising the bar for athlete safety in extreme heat. At Legacy Building Solutions, we design athletic facilities that go beyond code compliance—we build spaces that help athletes perform at their best, even in the most demanding climates.

WHY LEGACY'S CHAMP BUILDINGS ARE BUILT FOR HEAT SAFETY



NATURALLY COOLER WITH LOW THERMAL CONDUCTIVITY

Legacy's white tensioned PVC fabric roofs are engineered for thermal performance, with low thermal conductivity. This reduction in heat transfer helps maintain cooler interior environments, reduces surface temperatures on turf and equipment, and creates safer conditions for athletes—especially in high WBGT (Wet Bulb Globe Temperature) environments where heat stress is a major concern.¹²³⁴



VENTILATION THAT WORKS WITH NATURE

Our ventilation-first design philosophy integrates both passive and active systems that work in harmony with the natural environment to lower the perceived or “apparent” temperature. Passive systems like gravity ridge vents and vented soffits enable continuous airflow, while active elements such as wall-mounted intake fans and high-volume circulation fans move air effectively across the space. Together, these components promote better air movement over athletes' bodies, support cooling, and help meet or exceed UIL, Zachary Martin Act, CIF ventilation standards.



MORE THAN JUST A ROOF OVERHEAD

Legacy's translucent PVC fabric roof delivers far more than simple coverage. It brings in ample natural daylight, which helps reduce energy costs for lighting, while also providing built-in shade to minimize heat absorption on turf surfaces. The fabric also acts as a barrier against wind and rain, keeping practice conditions dry and safe. To further protect the facility, sidewall fabric and optional eave overhangs help shield entrances and walkways from the elements—ensuring that athletes and coaches stay focused, no matter the weather.



SAFER, MORE COMFORTABLE ATHLETIC SPACES

- » Column-free interiors for unlimited sports configurations
- » Superior acoustics for clear coaching communication
- » Optional cooling zones and hydration stations
- » Minimal maintenance needs and extreme durability (hail, rain, & wind-resistant)

CHAMP

*Uninsulated
Enclosed Structures*

BY LEGACY BUILDING SOLUTIONS

BEST FOR

**SEASONAL
TRAINING**

**COST-EFFECTIVE
COMPLIANCE**

**COVERED
PRACTICES**



WHY IT WORKS

- » Non-thermal conductive PVC fabric keeps interior cooler than metal buildings
- » Ventilation-first design lowers “apparent temperature” and reduces heat stress
- » Fully enclosed for use in heat, rain, or high wind without the cost of full conditioning¹²³⁴

KEY FEATURES

- » Passive and active ventilation (ridge vents, intake fans, circulation fans)
- » Natural light through fabric roof reduces utility needs
- » Supports hydration zones, rest areas, and shaded practice setups
- » Rapidly deployable and low maintenance

EVERY STRUCTURE SUPPORTS UIL, CIF & ZACHARY MARTIN GUIDELINES

Heat Category	WBGT Index (°F)	UIL Activity Guidelines	Legacy Building Advantages
No Flag	< 82	Normal activities; 3-min rest breaks / hour	All structures provide protection from direct sun and accommodate hydration zones
Green Flag	82–86.9	Caution with prolonged activity; 4-min breaks	Natural ventilation and shade reduce heat exposure
Yellow Flag	87–90	Max 2-hr practice; reduced gear	Pavilion and uninsulated structures support shaded, ventilated activity
Red Flag	90.1–92	Max 1-hr; no gear or conditioning	Enclosed buildings offer shaded recovery or indoor training options
Black Flag	> 92.1	No outdoor workouts	Insulated structures offer an indoor alternative when outdoor activity is suspended

WHICH FACILITY IS RIGHT FOR YOU?

Legacy will help assess your site, climate conditions, and programming needs to design the safest, most cost-effective solution.

Let's build something safer together.



ENGINEERED FABRIC STRUCTURES | PROVEN PERFORMANCE | SAFER ATHLETICS

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REFERENCES

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² Kuczynski, G. C. (1965). Thermal conductivity of polymeric materials at elevated temperatures. Polymer, 6(1), 1–10. <https://www.sciencedirect.com/science/article/abs/pii/0032386165900091>

³ Solar radiation absorbed by common materials. (n.d.). The Engineering Toolbox. https://www.engineeringtoolbox.com/solar-radiation-absorbed-materials-d_1568.html

⁴ ORNL Weatherization and Intergovernmental Program. (2018). National Energy Audit Tool (NEAT) Engineering Manual. Oak Ridge National Laboratory. <https://weatherization.ornl.gov/wp-content/uploads/2018/05/NEATEngineering.pdf>