



# SHELTER CONSTRUCTION COMPARISON

	<b>SHELTER WORKS</b>	<b>CONCRETE SHELTERS</b>
<b>STRENGTH</b>	★★★★★ Superior flexural strength; pound for pound stronger than metal	★★★★ Foundation strains and movement over time can crack building
<b>CORROSION RESISTANCE</b>	★★★★★ Unaffected by moisture or immersion in water; will not rust!	★★★★ Additives & mixes required to ensure corrosion resistance
<b>CHEMICAL RESISTANCE</b>	★★★★★ Impervious to most chemicals	★★ Requires special coating to improve chemical resistance
<b>IMPACT RESISTANCE</b>	★★★★★ Will not permanently deform under impact	★★★ Very sturdy but susceptible to damage caused by point loads
<b>GRAFITTI RESISTANCE</b>	★★★★★ Easily and quickly cleaned off with Methyl Ethyl Ketone (MEK) and rag	Special coatings are required to enhance resistance—increased maintenance costs
<b>THERMAL INSULATION PROPERTIES</b>	★★★★★ Seamless 1.5" composite design provides inherent thermal barrier and dimensional stability with low conduction	★★ Concrete has virtually no thermal value; optional insulation is required to meet energy code; insulation must be covered by additional liner. Walls and roof can become 8" thick
<b>COLOR</b>	★★★★★ Color is molded into exterior surfaces and bonded on a molecular level; includes durable UV inhibitors	★★ All concrete products required sealer or paint to protect surfaces and seal out weather- Increased maintenance costs
<b>ELECTRICAL CONDUCTION</b>	★★★★★ Nonconductive - High dielectric capability	Low conduction/non-magnetic
<b>EMI/RFI TRANSPARENT</b>	★★★★★ Transparent	Reinforced concrete may have some RFI/EMI shielding characteristics
<b>WEIGHT</b>	★★★★★ Ultra-Light: ≈ 70% less than steel, 25% less than aluminum; reduces transportation/foundation cost	Typical precast shelter is 5x heavier than fiberglass - increased cost for transportation, foundation and off-loading
<b>FREEDOM FROM MAINTENANCE</b>	★★★★★ Virtually maintenance free	★★★ Requires some maintenance as elastomer joints need to be maintained
<b>WARRANTY</b>	25 years	Typically 1-10 yrs. Extended warranties available for extra cost
<b>COST OF OWNERSHIP</b>	★★★★★ Lowest lifetime cost of ownership	★★ Routine maintenance required for optimal performance