



T. Clear Corp. – ProTEC Concrete Structural Insulated Panel System

FEATURE	FUNCTION	BENEFIT
¼" Thick Concrete Surface on each Side of Panel	Impact Resistant – 2600 psi for cement skins	Exterior walls resistant to abuse and flying debris in storms. Interior walls resist to man made abuse
	Meets ASTM – D3273 for Mold and Mildew Resistance	No food source for mold or mildew. Moisture will not deteriorate the panels
	50% Recycled content and zero energy used to cure the concrete board	Very "GREEN" surfaces inside and outside. No need to hang drywall on the inside. Environmentally friendly production process.
	Compatible with Portland Cement	Should any damage occur, it can be EASILY repaired with latex modified Portland Cement and fiberglass mesh. Restores to original appearance and performance
High-density(2lb/cf)EPS Core Treated with "ON GUARD" Termite Inhibitor	Provides R-20 Insulation value over the life of the product	4-1/2" thick wall reduces energy consumption. Maintains consistent indoor atmosphere
	Inhibits termites and wood boring insects	Eliminates structural damage due to termites and wood boring insects
	High density foam prevents moisture transfer and air infiltration through the wall	Eliminates moisture transfer through the wall without applying additional moisture barrier
Galvanized steel top and bottom track and "H" stud between panels	80% recycled content	Very environmentally friendly
	High Strength steel infrastructure	Straight and true dimensional components. Will not warp, twist or shrink. Keeps wall straight and true
	Urethane seal plus spot welds on "H" stud	Prevent air and water infiltration at the panel joints
Water Armor applied on all exterior joints	Seals against water and air infiltration	Keeps interior dry and dust free due to migration through the joint
Multi-finish compatible exterior surface	Accepts variety of exterior surface applications	Can be painted, covered with siding, covered with synthetic or standard stucco to give beautified exterior surface
ICC-IBC and ICC-IRC Code Approved	Listing Report: NTA TCC121205-17	Meets code approvals for long lasting construction and Hurricane resistance.
Flexible Skins (Bendable Concrete)	Allows panel to flex under stress	Will "GIVE" rather than break under wind and earth movement conditions. All products have their limits and it can be fractured. Limited damage rather than total destruction

Light Weight	Panel weight is 4 lbs./ SF – 3' x 8' panel weighs 96 lbs.	Easily handled by one man during setting of the panels.												
Class "A" Flame Spread and Smoke Developed on Concrete Skin and Foam Core	Concrete Skin will not burn. Withstands temperatures in excess of 2000 Deg. F. Foam core is self extinguishing when flame is removed. Foam core melts	Life Safety is maintained during fire allowing occupants time to evacuate the burning structure. Concrete and steel hold system together.												
Foam Core Products of Combustion compared to wood: (PPM) <table border="0" data-bbox="186 527 613 688"> <tr> <td>Product</td> <td>Foam</td> <td>Wood</td> </tr> <tr> <td>Co</td> <td>10</td> <td>119</td> </tr> <tr> <td>Co2</td> <td>500</td> <td>13,500</td> </tr> <tr> <td>Nitrogen Oxides</td> <td>4</td> <td>10</td> </tr> </table>	Product	Foam	Wood	Co	10	119	Co2	500	13,500	Nitrogen Oxides	4	10	Reduced toxicity in event of fire	Life Safety enhanced by use of ProTEC Concrete SIPS
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