

Thermocromex vs Pre-Cast Concrete Panels

<i>Costs</i>	Average installed cost of \$7 - \$9 per square foot (national average)	Average installed cost of \$50 - \$70 per square foot (national average)
<i>Sealants</i>	None used for the system	An integral part of the pre-cast system for panel joints, all sealants will fail over time and is an ongoing maintenance issue. Joint sizes may vary from 1/4 to 3/4 inch due to panel placement with a 1/2 inch joint the desired dimension.
<i>Breathability</i>	Very breathable with a perm rating of 84 allowing any incidental water or moisture to breathe and dry out.	Non-breathable. Any water, moisture or condensation is trapped within the building envelope creating building component degradation, mold/mildew and lawsuits.
<i>Weight</i>	Average weight of 3 lbs per square foot	Average weight of 75 to 125 lbs per square foot. Requires additional reinforcement to the building structure. Additional construction costs.
<i>Buildability</i>	Material is a premixed bag product and is applied seamlessly onsite.	Onsite problems with panels not lining up creating construction delays, premature sealant failure and overall building envelope performance.
<i>Energy Costs</i>	Air permeance test result is 100% better than the new ASHRAE standard for air barriers greatly reducing energy costs.	Significant energy loss due to air infiltration along with thermal bridging from metal anchors and attachment bolts.
<i>Condensation</i>	Minimizes moisture effects in any climate zone due to products high breathability and lack of air permeance.	Creates severe problems in cold climates due to condensation freezing of back side of panel causing damage from expansion with numerous freeze-thaw cycles.
<i>Compatibility to adjacent surfaces</i>	Product contains no chemical additives and no impurities. Efflorescence cannot form even in marine and salt air environments.	High alkalinity in product can damage adjacent surfaces (glass, aluminum etc.) when water runs over the surface etching glass and staining other panels.
<i>LEED</i>	Potential of 44 points in 9 categories. No chemical additives and no impurities.	Potential of 12 points in 6 categories