



INSULATED PANEL PRODUCTS

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Alberta Research Council

Research Shows, Tech-Crete's CTI[®] roof panels protect your investment

Recent Studies Show...

that Protected Membrane Roofs outlast and outperform conventional roof assemblies. When it comes to dollars and cents, Protected Membrane Roofs can cost up to 22% less (over the life of the roof) than conventional roof systems. With a life cycle of nearly double that of a conventional roof, it's obvious that the *unconventional* Protected Membrane Roof is the smarter, environmentally conscious choice for today's new roofs. Also, when it does come time to replace your conventional roof, switching to a Protected Membrane Roof is well worth the consideration.

Information based on "Roof Systems Economic Evaluation" report prepared by SmithGroup for The Dow Chemical Company, 2009



FACT...

Tech-Crete Insulated Panels are an environmentally sound investment.

All Products:

- Reduce Energy Costs
- Are Reusable



Tech-Crete Processors has been developing and manufacturing insulating roof and wall panels for nearly 30 years and has shipped close to 22 million square feet of combined roof and wall panels into the Canadian marketplace alone.

Tech-Crete's Concrete Top Insulated (CTI[®]) roof panels are self-ballasted insulating panels designed for use in a Protected Membrane Roof (PMR) assembly. There are several advantages in using a Protected Membrane Roof assembly with CTI[®] roof panels, but the most important is protection.

In a Protected Membrane Roof with CTI[®] roof panels, the membrane is protected from freeze thaw temperature cycling. CTI[®] roof panels keep the membrane at a nearly constant temperature, reducing the stresses of freeze thaw cycling and excessive heat.

CTI[®] roof panels also protect your roof membrane from the harmful effects of the sun. UV radiation can be a major cause of membrane failure.

Another major cause of membrane failure is physical damage. CTI[®] roof panels protect the membrane from dropped tools, nails, vandal-

ism, large hail, bird droppings and maintenance traffic.

New to the market, Tech-Crete's Solar Reflective Insulating (SRI[®]) panels have all the benefits of CTI[®], plus solar reflectivity. Designed to minimize heat island effect and qualify for LEED[®] SS credit 7.2, SRI[®] roof panels are made with white cement and white aggregate, producing a full thickness solar reflective white concrete topping. No reflective coating to maintain or reapply. A simple rinse or light pressure wash will rejuvenate the solar reflectivity without the risk of membrane damage. It's cool...

In addition to protecting the waterproof membrane, Tech-Crete's roof panels are a one-step process, offering insulation values up to R20 as well as a protective concrete ballast in one easy application. The ability to remove and reuse the panels also lessens the impact on landfills during renovations, additions or repairs.

The benefits of a Protected Membrane Roof assembly with Tech-Crete's insulated roof panels speak for themselves. Protect your investment with Tech-Crete's roof *and wall* panels.



Alberta Research Council - CTI[®] Installation, 2009