



TRENDS IN THE MARKET / OCTOBER 2020 ISSUE

Resilience in Roofing

Resilience in roofing is a term that's becoming very important within the building community. The definition of resilience is the capacity to resist and or recover quickly from difficulties. In the building community, resilience is measured in how quickly a building can return to normal after a damaging event. Two factors determine the resiliency of a roof; robust design and durability of building components.

A robust roof design is the most important aspect for any building. At its most basic level, a roof's main function is to enclose the structure, protect it and keep it fully operational despite the effects of rain, hail, wind, sun, snow and other adverse events. In all cases, it's the first line of defense against resisting these sometimes damaging occurrences and protecting the integrity of a building. A properly designed and robust roof protects the structure from these elements and the ever changing climate it's subjected to.

Durability is the other key factor in determining a roof's resilience. The life cycle or longevity of a roof has always been an essential design criteria. A properly performing roof can reduce operational costs and thus reduce the impact it has on the local energy supply grid as well as reduce greenhouse emissions that help slow climate change. This is commonly referred to as "Community Resilience". The overall impact to a community is significant when buildings are designed to this criteria.

For over 40 years, T. Clear has offered one of the most innovative and resilient roofing systems available in the LightGUARD® Protected Membrane Roof System. LG protects against rain, hail, wind, sun, snow, freeze/thaw, condensation and more. It conserves embodied energy, reduces operating emissions and provides long-term stable R-values and protection to the roof membrane. LightGUARD PMR systems also qualify for LEED v3 and v4 points.

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LightGUARD® PMR

LG combines insulation and ballast in one panel that protects the waterproof



membrane from UV radiation, thermal shock, hail, wind and physical abuse. It protects built-up and single ply roofing systems.

"Make It Part of Any Resilient Roof Design"



LightGUARD® Robust Design Built-in

Wind, and more specifically, hailstone damage has become a very serious topic and challenge in today's roof designs. A major hail or wind event can wreak havoc on a roof membrane and compromise the interior of the building. Depending on the roof make-up, this can sometimes lead to business closures while repairs are made. Question...how much does downtime potentially affect your clients business?

In independent lab testing, LG withstood the impact of 2" diameter ice spheres traveling at 109 fps and HG withstood 3.5" ice spheres at 146 fps. The Result...no damage to the membrane and only cracking of the LG/HG concrete surface. If LG panels need to be replaced, simply remove the damaged panel and replace with new without interruptions to the business.

LightGUARD PMR can be designed and warranted to meet winds up to 120 mph.

"Resilience Against Mother Nature"



LightGUARD® Long-Term Durability & Assurance

You've heard us talk about the long-life cycle of a LightGUARD Protective Membrane Roof. Well proof is on the roof! Here's a recent picture of the Regional Transportation District roof in Denver, CO. This LG job was installed in 1988. That's 32 years of performance against UV, Thermal Cycling, Hail, Snow and Maintenance Traffic. We've also recently received pictures of a 27-year LG roof in Las Vegas and 31-year one in Alaska! The overwhelming comment from the contractors was how well the roofing membrane still looked below the LightGUARD panels after all those years.

T. Clear offers extended warranties that include Total Performance Warranties of 10, 15 and 20 years. T. Clear assumes all responsibilities for its Total Performance Warranties including water tightness of the membrane, 90 mph wind, guaranteed R-value retention and there's no dollar limit, overburden penalty or hail exclusion.

"Resilience - Proof Is On the Roof"

SPECIFICATION DATA

T. Clear products can be found on ARCAT for architects and specifiers? ARCAT is the leading online resource of free building product information. CSI 3-part and Canadian CSC architectural specs can be downloaded and customized for residential and commercial projects.

**It's never been easier to specify
T. Clear products on an upcoming
project.**



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