



Notice

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A better environment inside and out.™

Press Release

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Earthquake Testing Illustrates Benefits of Safety and Security Window Film

Glass Fragments Kept from Becoming Dangerous Shrapnel During Seismic Testing

One of the largest dangers associated with earthquakes is the hazard posed by flying pieces of glass and glass fragments that remain after an earthquake. In an effort to evaluate seismic behaviour on store-front window systems, the Department of Engineering at the University of California, San Diego conducted extensive earthquake testing of safety and security film.

The testing performed on safety and security window film determined that in many cases the product virtually eliminated shards of glass from falling out in the event of an earthquake:

“When there is no film applied to the glass, the effects of extensive cracking cause, on average, 74% of the glass to fall out (of the window frame). With only minimal film application, less than 1% of the glass is observed to fall from the specimen (window frame).”¹

According to Geo Net observations taken since 1960, over 330 earthquakes with a magnitude of 4.0 or greater occur in New Zealand each year.² Glass-related injuries are one of the most common hospital treatments after natural disasters.

Solar Gard® Armorcoat® safety and security window films offer a wide range of benefits in addition to protection from dangerous shards of broken glass:

- Outstanding solar performance, blocking up to 55% of total solar energy and reducing cooling-related energy consumption
- Optically clear option to maintain or enhance a building's architectural aesthetics
- UV protection, blocking 99% of harmful UV rays

For more information on Solar Gard® Armorcoat® safety and security window films visit www.solargard.co.nz. Telephone the New Zealand distributor Specialty Window Films on 09 441 0040 or email sales@swfilms.co.nz for additional product questions and details of your nearest Solar Gard installer.

About Solar Gard®

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Solar Gard positively impacts lives with products that protect, save and renew. Solar Gard's architectural, automotive and industrial films are manufactured by Bekaert Specialty Films, LLC in an ISO 14001:2004 and ISO 9001:2008 certified facility in California. With environmental responsibility as a core mission, Solar Gard has obtained and published its Environmental Product Declaration proving that its architectural solar control window films are carbon negative and reduce global greenhouse gas emissions. Solar Gard products are sold in more than 90 countries and provide a living for thousands of entrepreneurs worldwide. For more information, visit:

www.solargard.com.

¹ *Structural Systems Research Project Report, No. SRP 09-02, page 72.*

² <http://www.geonet.org.nz/earthquake/earthquake-facts-and-statistics.html>.