

# Built to Withstand Mother Nature

Your solar panel purchase should come with the confidence that it will produce the power you need now and for decades to come. That's why, before LG solar panels are shipped, they undergo test after test to ensure they can endure nearly every climate and some of the most severe weather conditions.

LG weather testing is approved by the International Electrotechnical Commission (IEC), and all testing takes place in our in-house laboratory—certified by TÜV Rheinland and Underwriters Laboratories (UL).

## Mechanical Load Tests

3 cycles of wind, snow and ice



Holds up to  
**5400Pa**  
(112psf)

Meets IEC 61215

## Hail Tests

11 fragile points tested



Withstands  
**60 mph ice balls**

Meets IEC 61215  
standards for impact testing

## Flammability Tests

Flame spread and brand tested



Meets  
**UL 61730 TYPE 1**  
flame spread

## Here are some of our top module tests:



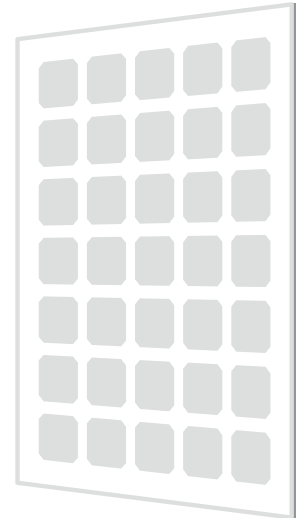
### Mechanical Load Test

LG solar panels can resist adverse conditions such as wind, snow and ice. Placing a weighted force on the modules to represent the stress of these elements, panels are tested and approved to hold up 5400Pa (112psf) on the front and 4000Pa (83psf) on rear.

Front Load

5400 Pa

(112psf)



Rear Load

4000 Pa

(83psf)



### Hail Test

LG panels are built to resist 1.38"/35mm ice balls of various weights that are fired at 60 mph onto different areas of the panels, including their edges. Performance is checked to ensure full functionality—especially the output power and insulation. This test ensures LG meets IEC 61215 standards for impact testing.



### Flammability Test

LG panels are designed to combat fire and fire hazards. Mounting panels at steep and low slopes, we help ensure minimal fire spread on the top and bottom of the panels. Then we fasten wooden brands to both sides of the panels to ensure static flames are resisted. These tests mean we meet UL 61730 Type 1 flame spread standards.



## The LG Advantage

Our solar products meet stringent UL requirements, so you can be confident in your purchase and satisfied you'll get a solid return on investment. In fact, we're so confident that we provide a **25-year limited product, performance and labor\* warranty** for the rare case in which a panel needs to be repaired or replaced.

\*Labor costs covered up to \$450

Together, we can bring reliable, durable and sustainable solar solutions to your home.

To check out some more of our module testing, visit [www.lg.com/us/solar/blog/lg-solar-panels-pass-the-test](http://www.lg.com/us/solar/blog/lg-solar-panels-pass-the-test)

