



## Ultraviolet Testing - Guardian Extreme™ Signs and Tags

### Can Guardian Extreme tags be used outside?

Yes, they are ideal for use outdoors. In QUV environmental testing (used by automobile manufacturers) Master Lock's patent pending Guardian Extreme tags and signs lasted over 4000 hours, which is equivalent to over 10 years of outdoor exposure.

### What is QUV testing?

QUV is a test procedure popular with automotive companies. The product is subjected to intense ultraviolet radiation followed by moisture exposure by condensation. This cycle is then repeated over and over. The tests are designed to reproduce the damage caused by sunlight, rain and condensed surface moisture or dew. Master Lock's Guardian Extreme™ tags and signs have been tested to 4000 hours of this destructive environmental test. This represents over 10 years of outdoor exposure.

To see video of the test procedure, visit <http://www.q-lab.com/en-us/products/quv-weathering-tester/quv>. Scroll down and click on the QUV Accelerated Weathering Tester video. In this video you will find several images of faded, worn signs exposed to ultraviolet.

### What temperatures will Guardian Extreme stand up to?

As cold as -50 °F and as hot as 220 degrees °F.