

## Beyond Industry Standard Testing

aleo

Thermal Cycling (TC) Cycles between -40°C and +85°C	IEC Standard	200 Cycles
	aleo	3 times IEC Standard
Damp Heat (DH) Constant +85°C & 85% relative humidity	IEC Standard	1,000 Hours
	aleo	3 times IEC Standard
Mechanical Load (ML)	IEC Standard	5400 pa
	aleo	8000 pa
Suction Load (SL)	IEC Standard	2400 pa
	aleo	5400 pa
Hail Impact	IEC Standard	25mm ice ball at 83km/h
	aleo	40mm ice ball at 100km/h

At aleo in order to select the right components, we have set our own standards that go much further any official requirement.

## Voluntary Quality Testing

Potential Induced Degradation (PID)	96 hours	1.000V, 60°C, 85% relative humidity, measured max. 0,68%, <b>7 times more than the standards</b>
Salt Mist (IEC 61701:2011)	Severity 6	60°C Humid storage, 90% relative humidity, 56 days
Ammonia (IEC 62716:2013)	480 hours	20 cycles between 8hrs of heating up & 16hrs of cooling test sections
Sand & Dust (IEC 60068-2-68:1994)	2.2g/m <sup>3</sup>	63°C, wind velocity 18m/s, 4hrs
Snail Trail Sensitivity	AgNP Test	Enapsulation and backsheet foils, resistant
LeTID Detection (IEC CD 61215-1: Ed.2.0)	Non sensitive	162hrs, 75°C, 3 cycles, 0.55A