The LS6593v2 and CDA300 are meticulously designed to withstand any reasonable environmental conditions.

Some environmental tests have been done outside using a climatic chamber that included playing the speaker while spraying it all over with a hose, playing it in a subzero freezer with an ice fog and playing it in a freezer. Some of these conditions far exceed IEC529 or Mil Spec 810 standards. Both standards specify testing operation after environmental effects took place.

Temp COLD	Temp HEAT	HUMIDITY	DURATION	WATTS	Rain	RESULTS
Start @ -14f Increased to +2.1	UP 16.1f	100%	30 min	180w/6Ω	----------	Pass
Start @ + 2.8f In creased to +12.1f	UP 9.3f	100%	30 min	400w/8Ω	----------	Pass
----------	Start @ 150f Steady	30%	30 Min	180w/6Ω	----------	Pass
----------	Start @ 150f Steady	30%	30 Min	400w/8Ω	----------	Pass
Start @ 34f Steady	----------	38%	30 Min	180w/Ω	----------	Pass
Start @ 34f Steady	----------	38%	30 Min	400w/8Ω	----------	pass
----------	Start @ 70f Steady	38%	30 Min	180w/6Ω	Heavy Rain	Pass
----------	Start @ 70f Steady	38%	30 Min	400w/8Ω	Heavy Rain	Pass

SLS SPEAKER TESTS

Based on the description of Mil Spec 810 and IEC529 and analyzing the speaker design, we can say that LS6593v2 and the CDA300 can easily be rated at IEC529-IP35. The foreign objects protection (first number after IP code) is 3 which is "protected from solid objects larger than 2.5 mm". The next number is water protection which is 5 "protected from water jets from any direction; water has no harmful effects".

As for Mil Spec 810, this standard specifies protection again various elements such as salt spray, humidity, solar radiation and high and low temperatures. When determining the ability of LS6593v2 and the CDA300 to withstand all those effects we should look at its construction and design features specifically used for this purpose.

Ribbons:

- powder coated plates
- aluminum rivets
- diaphragm is Kapton with aluminum conductors
- terminals are tinned
- ribbon plate is powder coated
- ribbons are mounted to the plate with aluminum rivets

Woofers:

- mica loaded polypropylene
- butyl rubber surround
- aluminum cast frame with powder coating

Cabinet:

- powder coated aluminum with sealing gaskets between top and bottom caps
- terminal cup at the back is powder coated and mounted using stainless steel screws
- rigging hardware is aluminum with stainless steel screws
- metal grille assembly is comprised of powder coated stainless steel with reticulated foam behind it

Based on these features and our test results, we can say that the LS6593v2 and the CDA300 are truly a weatherproof system.