



Nuheat Certification Listings

The CSA File Number is # LR 76501-1, and was first issued for Nuheat on June 8, 1989.

The UL Listing is # E154215, and was first listed in January 1991 for Nuheat.

The specific safety considerations built into the system are given above - namely that the mechanical and other abuses should not degrade the system in any way such that the insulation can break down and permit the electric current to reach the user.

The decision was found that Nuheat complies with the National Electrical Code (NEC). The Canadian Electrical Code (CEC) references are to CE Code Part 1 Section 62 as in the 3rd Memorandum of Revision Subject 1993, Rule 62-226 of September 1990.

In addition, Nuheat's heating cable meets CSA Standard C22.2-130.

Nuheat is UL (Underwriter's Laboratory) and CSA (Canadian Standards Association) approved. This means that the product has undergone numerous rigorous tests to obtain a quality and safety stamp of approval.

UL and CSA Testing is comprised of the following:

Static Load Test

A 600 lb. weight was placed on one wire for over 2 weeks before the unit was energized. Nuheat had to prove that no insulation breakdown had occurred.

Impact Test

An angled flat iron was dropped repeatedly on an energized system to ensure that no penetration of the ground conductor occurred or loss of ground integrity.

Immersion Test

Saturation of the system in water and corrosive chemicals resulted in no significant leakage of current to the earth ("short to ground").

Cold Bend Test

The performance of the wires used was not degraded even after being frozen at very low temperatures.

Dynamic Load Test

A 150 lb. metal caster was driven across the unit 6000 times while lying on a concrete slab, without protection or a carpet or under pad. There was no dielectric strength breakdown between the ground shield and the heating element conductor.

Temperature Test

The system was loaded with insulation to ensure that no heat could escape. The system had to stabilize at a temperature below combustion.

Over-voltage Test

The system was operated at an excessive input voltage.

Soldering Test

The connection with the non-heated lead was separately tested.

Penetration Test

A tack was driven into the heating element using a special jig. The current went to ground without flaming.

Dielectric Strength Test

Each sample from each test above had to endure 1,500 volts for one minute both before and after the test without insulation breakdown (except with the tack penetration test).

Note: Nuheat cannot be installed under 'European Showers'.