

# NSF/ANSI 358 GEOTHERMAL PLASTIC PIPING SYSTEMS



If you are looking to certify your geothermal plastic piping system, materials or fittings, NSF International is your best option! We are the plastic industry's leading testing and certification organization, with proven experience certifying various types of plastic pipes. Certification to NSF/ANSI 358 satisfies requirements of the mechanical codes UMC and IMC.

## NSF/ANSI 358 STANDARD SERIES

To help ensure high quality for different kinds of geothermal pipe and fittings systems, NSF International published an American National Standard series:

- > NSF/ANSI 358-1: Polyethylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems
- > NSF/ANSI 358-2: Polypropylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems
- > NSF/ANSI 358-3: Cross-linked polyethylene (PEX) Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems
- > NSF/ANSI 358-4: Polyethylene of Raised Temperature (PE-RT) Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems

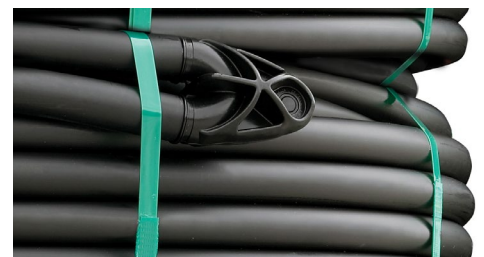
Products being certified for Canadian approvals are tested and evaluated to:

- > CAN/CSA-C448 SERIES-13: Design and installation of earth energy systems

## TESTING REQUIREMENTS

To be eligible for NSF/ANSI 358 certification, your geothermal plastic piping product must meet the following criteria:

- > Compliance with the applicable ASTM or CSA standards (ASTM F876, F2389, F2623, D3050, CSA B137.1, etc.)
- > Long-term strength test
- > Chemical resistance test
- > Fittings and U-bends evaluation



# NSF/ANSI 358 GEOTHERMAL PLASTIC PIPING SYSTEMS

## QUALITY CONTROL

This standard requires you to conduct quality control testing (which includes dimension, burst pressure and impact resistance) at your manufacturing site to ensure continuous compliance of the products.

## MARKING

Products meeting the geothermal standard requirements will bear the NSF/ANSI 358 certification mark along with a “geo” or “geothermal” end use designation.

Products meeting the certification requirements for Canada will bear the cNSF-geo thermal mark with a CSA C448 standard designation.

## CERTIFY YOUR GEOTHERMAL PLASTIC PIPING SYSTEM

- > Standardized and recognized requirements for geothermal system components, providing confidence to your customers
- > State-of-the-art laboratories
- > Unmatched technical expertise
- > Dedicated, highly trained account managers who focus on your product certification
- > Online project tracking, allowing 24/7 visibility of your project status

**NSF INTERNATIONAL**

E [water@nsf.org](mailto:water@nsf.org) | [www.nsf.org](http://www.nsf.org)