



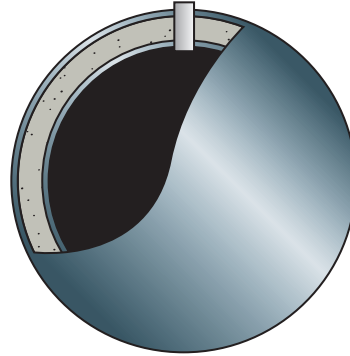
Customized Tank Built to Face the Cold

September 2019



A vertical storage tank for renewable fuel oil in production.

Injected Insulation System



R-Value - Injected or Sprayed-on System
7 per inch of insulation. Nominal 2" applied
with top-coat finishes available.

www.highlandtank.com

INSULATION SYSTEMS TO ACCOMMODATE THE HARSHTEST WEATHER

Highland Tank fabricates and insulates steel tanks for a wide variety of applications. Thermal insulation is applied to tanks to help reduce energy costs associated with heating or maintaining heat in products like heavy fuel oil, resins, and asphalt binders.

One method for insulating tanks is an injected insulation system. This includes:

- A complete 360° second wrap, steel skin
- Interstice is injected with a special time-activated foam insulating material that expands to completely fill all voids and eliminate air pockets

A power utility in Minnesota opted for this injected insulation system on their new tank.

The utility needed a 50,000 gallon vertical storage tank to store fuel for a boiler system. The boiler is being converted from coal to renewable fuel (biomass).

The tank is a double-wall tank with a larger diameter and shorter height to fit in the allotted space at the utility site. The interior tank was constructed of stainless steel to be compatible with renewable fuel oil.

Renewable fuel oil is a homogeneous, organic liquid obtained from the thermal conversion of biomass. It's a water-soluble, oxygenated fuel consisting of "depolymerized" components of wood, paper, or other biomass. The pH is usually around 3.0. Because of the inherent properties of renewable fuel oil, the preferred material for construction, tanks, piping, valves, etc. is stainless steel. Temperature control for heating and/or cooling is also recommended.

Contact Highland Tank today at 814-893-5701 to learn more about customizable options for your fuel storage tank.

