



Multizone Thermal Oil Dry Kilns Lakeland Mills – Prince George, BC

Lakeland Mills, located in the heart of the wood products sector in Prince George, BC, selected Wellons Canada to supply two new lumber drying kilns for its mill in 2007. The kiln commissioning and start-up took place in March 2008.

The new Wellons kilns at Lakeland are 104ft long, nine-zone design using thermal oil heat from a 1985 vintage Wellons biomass fired 45MM BTU/hr thermal energy system. Understanding that these kilns needed to satisfy Lakeland's current pine beetle supply of wood, as well as its future fiber diet, the kiln specifications included the following:

- X A boil off trough to provide saturated boiling temperature humidity conditions in the kiln. The water trough is built from stainless steel components for corrosion resistance; and uses a thermal heating coil to evaporate the water.
- X An all aluminum kiln structure to prevent structural corrosion and reduce the maintenance requirements of the kilns.
- X An in-kiln load weight system to restrain the top tiers of the lumber packages during drying. The system is operated remotely and is actuated with hydraulic cylinders located external to the kiln chamber on an end walkway platform.



In addition to the above features, to facilitate loading and unloading the kiln during the winter months, Wellons installed a thermal oil-to-glycol cart rail heating system. Heated glycol is circulated along the rails in tubing installed in the external concrete slabs to heat the tracks and keep them free of ice and snow.

For more information about this project please contact Wellons Canada at 1.888.211.6077
or email sales@wellons.ca.