

U.S. Energy Independence & Security Act of 2007

A new Federal requirement was approved by Congress in late 2007 and includes design elements for walk-in coolers and freezers to promote energy efficiency. Every walk-in cooler or freezer, with a floor area of less than 3,000 square feet installed in the United States, manufactured on or after January 1, 2009, is required to meet the standards detailed in the Act.

The products manufactured by Nor-Lake, Inc. meet or exceed the design elements of the U.S. Energy Independence and Security Act of 2007.

- Automatic door closers that firmly close all walk-in doors that have been closed to within 1 inch of full closure are required. (Does not apply for door wider than 3'9" or taller than 7'.) **All Nor-Lake walk-ins include a spring-loaded door closer as standard.**
- Strip doors, spring hinged door or other method of minimizing infiltration when doors are open are required on all exterior doors (doors opening into the ambient – not applicable on partition doors opening in a "cooled" compartment). **All Nor-Lake walk-ins exterior doors will be "spring hinged" beginning January 1, 2009.** To further minimize air infiltration into the walk-in, Nor-Lake recommends the use of a strip curtain. All Nor-Lake walk-ins will be quoted with a strip curtain for all exterior doors starting September 1, 2008. Optional hinged strip doors and / or air curtains are available.
- Wall, ceiling and door insulation of all coolers must be at least R-25. **All Nor-Lake 4" foamed-in-place R-134a polyurethane insulated panels have an R-value of 32.4.**
- Wall, ceiling and door insulation of all freezers must be at least R-32. **All Nor-Lake 4" foamed-in-place R-134a polyurethane insulated panels have an R-value of 32.4.**
- Freezer floor insulation must be at least R-28. **All Nor-Lake 4" foamed-in-place R-134a polyurethane insulated floor panels have an R-value of 32.4** If a freezer without a pre-fabricated insulated floor is required, the KES and / or contractor are required to insulate the building floor to meet these requirements.
- All evaporator fan motors of under 1HP and less than 460 volts must use electronically commutated motors or 3-phase motors. **All Nor-Lake refrigeration systems utilize EC motors as applicable.**
- All condenser fan motors of under 1HP must use electronically commutated motors, permanent split capacitor-type motors or 3-phase motors. **All Nor-Lake refrigeration systems utilize EC or PSC motors as applicable.**
- All interior lights in walk-ins must use light sources with an efficacy of 40 lumens per watt or more. **All Nor-Lake vapor proof light fixtures, when used with a CFL bulb produce 50 lumens per watt.** Nor-Lake standard 48" fluorescent light fixtures produce at least 83 lumens per watt.
- All transparent reach-in doors for walk-in freezers and windows in walk-in freezers shall be of triple-pane glass with either heat-reflective treated glass or gas fill and antisweat heaters on the door rail, glass and frame must not draw more than 7.1 watts per square foot of door opening for freezers. **All reach-in doors and windows provided by Nor-Lake meet these requirements.**
- All transparent reach-in doors for walk-in coolers and windows in walk-in coolers shall be of double-pane or triple-pane glass with either heat-reflective treated glass or gas fill and antisweat heaters on the door rail, glass and frame must not draw more than 3.0 watts per square foot of door opening for coolers. **All reach-in doors and windows provided by Nor-Lake meet these requirements.**
- These requirements will apply to walk-in coolers and freezers installed in all (50) states. In addition, the states of California, Connecticut, Maryland, Rhode Island, and Oregon will continue to require compliance to the California Energy Commission standards effective January 1, 2006. These standards primarily relate to the use of electronically commutated motors, permanent split capacitor-type motors or 3-phase motors for evaporator and condenser fan motors.
- Only California has adapted and will continue to require R-28 insulation value in walk-in coolers and R-36 insulation value in freezers. **All Nor-Lake 4" foamed-in-place R-134a polyurethane insulated panels have an R-value of 32.4. All Nor-Lake 5" foamed-in-place R-134a polyurethane insulated panels have an R-value of 40.5.**