



**WALK-IN COOLER AND FREEZER REQUIREMENTS
CONTAINED IN SECTION 312
US ENERGY BILL H.R.6 – ENERGY INDEPENDENCE ACT**

Dear Valued Customers and ThermalRite Representatives:

New Federal Regulations will change many specifications for walk-in coolers & freezers used in the supermarket retail, convenience store and food service industries. The new code applies specifically to all new walk-ins manufactured on or after January 1, 2009, with a total chilled storage area of less than 3,000 square feet. These rules do not apply to walk-ins designed for medical, scientific or research purposes.

Outlined below are the new regulations and ThermalRite's response reflecting compliance with them:

COOLER & FREEZER DOORS:

Code: *Doors that are no wider than 3 feet 9 inches or taller than 7 feet; have automatic door closures that firmly close all walk-in doors that have been closed to within 1" of full closure.*

TR: All ThermalRite swing doors will have the necessary hardware to be compliant. In addition, a standard magnetic gasket is provided to assure full positive seal.

Code: *All cooler/freezer doors, regardless of size, must have strip curtains, spring hinge clear doors or other method of minimizing infiltration of ambient air when doors are open.*

TR: ThermalRite will provide strip curtains to meet code or at the customer's request, provide other means to be compliant.

Code: *Door insulation of at least R-25 for coolers and R-32 for freezers.*

TR: Our standard doors comply.

NOTE: *The Energy Bill does not apply to replacement or retrofit doors.*

R-VALUES:

Code: *The minimum R-value for walls, ceilings and doors is to be at least R-25 for Coolers and R-32 for Freezers. R-28 for Freezer floors.*

TR: With ThermalRite's Envirofoam™, our standard 4" and 5" panels comply.

REFRIGERATION:

Code: *There are specific requirements for evaporator fan motors. EC motors are mandatory where the following applies:*

- *Fan motors are under 1 horsepower*
- *Fan motors are less than 460v*

NOTE: 3 phase motors are not required to be EC.

TR: All refrigeration systems supplied by ThermalRite will be compliant with the Federal Regulations...unless the specific application is outside the code requirements.

LIGHTING:

Code: *All interior lights must have a minimum efficacy of 40 lumens per watt or more, including ballast loss and may be used with timing or a motion sensor device that turns lights off within 15 minutes of when the walk-in is not occupied by people.*

TR: ThermalRite has a variety of lighting options available that comply with the regulations; including T5 fluorescent lighting and a fluorescent vapor-proof fixture. Lighting options that do not comply will require an automatic shut off device– this includes the standard vapor proof lights.

GLASS DOORS AND VU-PORTS:

Code: *All coolers must have a standard walk-in cooler door between the walk-ins to a non-walk-in area. Glass doors and vu-ports shall be double pane in coolers and triple pane in freezers and shall use heat reflective glass or gas fill.*

There are also watt limitations for the anti-condensate heaters on glass display cooler & freezer doors. Refer to the glass door manufacturers for designs meeting the requirements.

TR: ThermalRite supplied glass display doors and vu-ports meet all required codes and standards.

This Federal Standard shall pre-empt current state standards including California until 1-1-2012.

Please contact your ThermalRite Customer Service Representative, if you have any further questions.

THINKING SUSTAINABILITY.....THINK THERMALRITE!