



# Federal Rulings for Energy Efficient Walk-In Coolers and Freezers

The International Energy Conservation Code (IECC) was updated in 2021 regarding cold storage compartments. Walk-in coolers and walk-in freezers that are site assembled or site constructed need to comply with all of the regulations that became federal ruling in the WICF2017 (Walk-In cooler & freezer regulations) by the DOE.

Listed below are the requirements and a short explanation of how American Panel is always fully compliant with these required current energy savings initiatives.

## Requirements per IECC 2021 building code (DOE WICF2017 Compliant)

### Automatic Door Closing Device

American Panel's standard door closers fully complies.

### Strip Curtains on Hinged Doors

American Panel's standard strip curtains fully complies.

### R-25 Insulation in Cooler Walls, Doors, & Ceilings

American Panel's 55° R-Factor for all 4" panels is 29 as verified by two independent national labs, exceeding the insulation requirements.

### R-32 Insulation in Freezer Walls, Doors, & Ceilings

American Panel's 20° R-Factor for all 4" panels is 32 as verified by two independent national labs, exceeding the insulation requirements.

### R-28 Insulation in Freezer Floors

American Panel's floor panels are made with the same proprietary foam insulation and have the same R-Factors as our walls, doors & ceilings, exceeding all federal insulation requirements.

### Triple Pane View Windows in Freezers

Where view windows are requested, APC provides triple pane windows in all freezer doors, thereby fully complying with the requirements.

### Double Pane View Windows in Coolers

Where view windows are requested, APC provides triple pane windows in all cooler doors, thereby exceeding the requirements for cooler windows.

### High Efficiency Motors on Condensing Unit and Evaporator Fans

All evaporator fan motors are of the high efficiency ECM type and all condensing unit fan motors are high efficiency ECM or PSC type to fully comply with the federal requirements.

### Walk-Ins with Glass Display Doors

Where provided, glass display doors meet or exceed the regulatory requirements. Freezer glass panels are triple-pane, gas filled inserts.

### Anti-sweat Heaters on Glass Display Doors

Anti-sweat heaters are not used on cooler glass display doors or windows. Anti-sweat heaters draw less power than the maximum allowed in freezer display doors or windows.

### Anti-sweat Heater Controls Reduced Energy

Anti-sweat heater controls need to be capable of reducing the energy usage as a function of humidity on the outside of the door or inside of the glass, as humidity changes. American Panel display doors fully comply.

### Low Watt Lighting or Auto Shut-Off

Low voltage lighting needs to be used in the walk-in or the light controller needs to have a 15 minute auto shut-off function. American Panel exclusively use low energy LED lighting and both of our controllers fully comply with the auto shut-off function.

### AWEF Compliant Refrigeration Systems

Refrigeration systems sold with our walk-in's are compliant to the appropriate minimum AWEF (Annualized Walk-in Efficiency Factor)



**American Panel 100% Complies**

