



## Imperial Brown’s Walk-in Coolers and WA State Energy Code

This document covers the following codes:

2012 – Washington State Energy Code, Sections C402.5, C402.6, C403.5 and C403.6

Efficiency Regulation Requirements	Imperial Brown Solutions
Automatic door closers are required for hinged doors that measure 3’-9” wide and 7’-0” high or smaller.	Kason #1094 or #1095 door closers are a standard feature on our walk-ins. Optional electric (automatic) sliding doors are available for added savings
Strip doors, spring hinged doors, or other method of minimizing infiltration when doors are open.	Spring hinges are standard hardware on Imperial Brown walk-ins. Additional protection is available with option strip curtains or vinyl doors.
Wall, ceiling and door insulations for coolers shall be at least R-25 for coolers and R-32 for freezers. Freezer floor insulation shall be at least R-28.	Imperial Brown walk-ins use BASF polyurethane foam and meet or exceed these requirements based on industry standard ASTM C-518 testing.
Evaporator fan motors under 1hp and less than 460 volts must use EC (electrically commutated) motors or 3 phase motors.  Condenser fan motors under 1hp must use EC, PSC (permanent split capacitor), or 3 phase motors.	Imperial Brown supplies EC or PSC motors as required. These high efficiency motors provide considerable energy savings by emitting less heat and use less electricity to start up.
Interior lights with a light output of 40 lumens per watt or less must be used with a timer or device that turns off lights in 15 minutes or less when the walk-in is unoccupied.	LED lights are standard on Imperial Brown walk-ins. All interior lights have a light output higher than 40 lumens per watt. Timers and occupancy sensors to turn off lights are available for added energy savings.
Glass reach-in doors and glass view windows for freezers shall be triple pane with either heat reflective treated glass or gas filled.	All glass reach-in doors and glass view windows supplied by Imperial Brown met or exceed these requirements.
Anti-sweat heaters on doors and windows shall have a total power draw of less than 7.1 watts per square foot of opening for coolers. If the power draw exceeds these values an anti-sweat heater controller is required.	All door and window anti-sweat heaters draw less power than the maximum allowed without controllers. Anti-sweat controllers are not required on Imperial Brown walk-in coolers and freezers but are available as an option for additions energy savings.