

# Standard Foodservice Walk-in Specifications



## Walk-In Cold Storage Rooms

Imperial Brown modular, urethane foamed in place sandwich panels.

### 1. General Specifications

- a. Panels shall be NSF listed, meet 2009 E.I.S.A requirements and certified with the DOE.

### 2. Panel Construction

- a. Panels shall be constructed with interior and exterior metal skins precisely formed to ensure proper size.
- b. Panel core shall be UL listed, Class 1 fire rated, polyurethane foam, using non CFC propellant.
- c. Standard panel sections shall be interchangeable nominal 48" widths. Special panels sized to meet custom requirements.
- d. Corners and T panels shall be constructed with minimum 1/4" radius in accordance with NSF standard #7.

### 3. Insulation

- a. CFC-free Class 1 fire rated polyurethane foam core. UL-723, < = 25 flame spread and smoke developed < = 450, in accordance with ASTM E84.
- b. Urethane, as specified, shall be foamed in place and cured to a solid rigid state between metal panel skins at an average density of two pounds per cubic foot.
- c. K factor not to exceed .125 at a 20°F mean. K factor not to exceed .140 at a 55°F mean.
- d. Insulation shall have 97% closed cell structure and conform to international standards for ozone depletion contribution.

### 4. Section Fasteners and Connectors

- a. Each device shall consist of a precisely located cam lock and steel pin.
- b. All locks shall be actuated from inside the enclosure with a standard hex type Allen wrench
- c. All access holes are to be finished with white snap in cover caps on wall and ceiling panels and stainless steel caps on floor panels

### 5. Section Gasket

- a. All panel sections shall have two rows of closed cell gasket adhered to the top, bottom, and cam lock side of the panel, creating a self-sealing, air tight joint
- b. Gasket shall be NSF approved vinyl extruded gasket

### 6. Swing Doors

- a. Cooler and freezer doors to be 34"x 78", flush construction with extruded steel reinforced PVC frame and jamb assembly with magnetic gaskets.
- b. Freezer door to include frame and threshold heaters.
- c. Door finish to match panel finishes inside and out.
- d. Insulation for door leaf to be 4" thick, same as panel specification
- e. Provide Kason 1094 door closure for each door.
- f. Provide three Kason 1248 cam rise, spring loaded, chrome hinges per door. Hinge direction per plans.
- g. Provide Kason 27C locking handle with inside safety release for each door.
- h. Provide 36" tall, aluminum diamond tread kickplates at exterior and interior of each door leaf.
- i. Freezer door frame to include heated Kason 1825 air vent.

### 7. Finish

- a. The interior and exterior of the panels shall be stucco Galvalume steel with factory baked-on white enamel finish. Unexposed exterior surfaces can be stucco Galvalume steel.

### 8. Floors

- a. Floor panel construction to be per section 2.
- b. Wear surface to be .080 Smooth Aluminum rated to withstand hand truck traffic.
- c. Underlayment to be 1/2" plywood, and constructed with high density urethane rails.
- d. NSF cove to be formed and foamed in place in floor panel. Corners to be seamless.

### 9. Closures and Trim

- a. Include matching trim strips and ceiling closure panels between walk in walls and building walls as necessary.

### 10. Accessories

- a. Kason 1808 LED light fixture.
- b. Toggle switch with pilot light.
- c. Analog 2" flush mount dial thermometer.
- d. Kason 1825 heated air vent (freezers only).
- e. NSF cove base for coolers with no floor.

### 11. Refrigeration

- a. Refrigeration equipment to be sized per ASHRAE holding only standards.
- b. Coolers to be designed for 35°F operating temp, 10 degree TD.
- c. Freezers to be designed for -10°F operating temp, 10 degree TD.
- d. Coolers to include air defrost timer, Freezers to include electric defrost timer.
- e. R-404a, 208/230v-3Ø, air cooled outdoor condensing units for coolers.
- f. R-404a, 208/230v-3Ø, air cooled outdoor condensing units for freezers.
- g. 115v air defrost evaporator for coolers.
- h. 208/230v-1Ø electric defrost evaporator for freezers.
- i. Factory mounted parts to include one liquid solenoid, sight glass, drier, thermostat and flooded head pressure control per system and one TXV per evaporator

### 12. Warranty

- a. Panels to include 15 year performance warranty.
- b. Parts to include 1 year replacement warranty.
- c. Door leaves to include 5 year performance warranty.
- d. Refrigeration to include one year parts and labor warranty.
- e. Extended 4 year compressor warranty.
- f. Walk-ins to be installed by factory authorized installer. Refrigeration installed by a licensed refrigeration contractor incorporating ASHRAE standards and practice.