



# Specifications for Cold Room Solutions, Inc. High Density Framed Urethane Panels

Insulated Panel Specifications

## General Specifications:

Prefabricated modular construction for a wide variety of applications designed for exact size, easy field installation and future disassembly, enlargement, or relocation.

## Panel Construction:

Panels shall be constructed with interior and exterior metal skins or other specified materials precisely formed to ensure proper size.

High density urethane panels shall be framed at the perimeter with structural, tongue and groove, high density insulating rails.

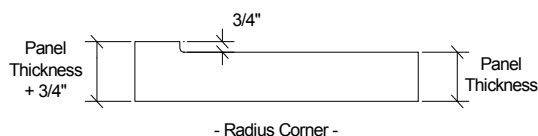
Panel skins shall be mechanically fastened to the perimeter framing and bonded to the urethane foam insulation for structural strength.

Panel core insulation shall be a UL listed Class I urethane foam.

Standard panel sections shall be interchangeable 47" widths. Special panel sections are designed to meet custom requirements. Available panel sections include walls, floors, ceiling, doors, valances, bases, T-panels, angles and sloped panels.

One piece panel construction is available in wall heights to 24'. Wall heights over 24' can be achieved with stacked panel construction.

All corners and T-panels shall be constructed with a minimum 1/4" radius in accordance with NSF standard No. 7. Cold Room Solutions' structural framing members allow minimal size corner sections without loss of strength, leaving maximum wall space for glass door openings and providing the ability to locate doors close to corners. Standard corner panel sections shall be the panel thickness + 3/4" (4 1/4" for 3 1/2" panel) by a variable length.



## Finish:

The interior and exterior of the panel shall be finished with (specify any one, or combination of the following):

- A. 26 GA stucco galvanized steel.
- B. 24 GA smooth bright galvanized steel.
- C. 26 GA galvanized steel with baked polyester white finish.
- D. 24 GA type 304 #4 stainless steel.

Metal for wall panels over 12' high is recommended to be rigidized for additional strength and improved appearance.

IMPORTANT NOTE: Most other finishes, gauges or painted finishes are available upon request.

## Insulation:

HCFC Free Class I urethane UL frame spread  $\leq 25$  and smoke developed  $\leq 450$  in accordance with ASTM E84. (Test results are not intended to reflect hazards presented by this or any other material under actual fire conditions.) Urethane insulation as herein specified shall be foamed in place and cured to a solid rigid state between metal panel skins at an average density of two (2) pounds per cubic foot, with a K factor of .125. Urethane insulation shall be both vermin-proof and odor-proof. This insulation shall have 97% closed cell structure and conform to international standards for ozone depletion contribution.

Insulation Thickness	4"	5"
HCFC Free Environmentally Safe Urethane-K = 0.125*	32	40

\*Note: Urethane foam for years contained Freon, a CFC which has been determined to be harmful to the environment. The current industry standard is HCFC Free foam, which has slightly less R-Value than the urethane systems containing Freon. Cold Room Solutions uses only HCFC Free urethane foam.





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## ***Section Fasteners and Connectors:***

All walls, floor and ceiling section joints shall be fastened together with steel cam action locks, spaced no farther apart than 48". Each device shall consist of a precisely located cam-lock and steel pin. All locks shall be actuated from inside of the walk-in with a standard hex type Allen wrench. A wrench shall be furnished with each walk-in delivered. All access holes are to be finished with gray or white snap-in cover caps.

When no floor is specified, the wall sections shall be built with cam-lock to secure to a 3" high seismic anchoring screed. Site flooring must be level within 3/16" in 10' to insure a quality installation.

When a section insulated floor is specified, wall to floor connection shall be cam-lock wall to floor connection.

## ***Section Gasket:***

All panels sections shall have two rows of closed cell gasket anchored to the metal on the top, bottom, and cam-lock side of the panel, creating a self-sealing, air-tight joint. NSF approved neoprene extruded gasket shall be applied when a NSF label is required.

## ***Cove Base Molding:***

6" high NSF approved molding with a minimum 1/4" radius can be provided when a radius from wall to floor is required.

## ***Trim Molding:***

Narrow spaces between a walk-in and building walls may be trimmed with an optional closure strip which matches the walk-in finish.

## ***Pit Insulation:***

Freezer floor insulation can be installed in a depression in the building floor. This depression is to be provided by others. The insulation materials for the depression can be provided upon request. Materials include vapor barriers, pressure treated lumber for thermal break at the perimeter, and staggered layers of urethane insulation to a thickness appropriate for the temperature and site conditions. Cold Room Solutions recommends a minimum of 6" of urethane insulation pit material for most locations.

Other materials can be provided to meet your specific needs.

## ***Floors:***

Insulated sectional floors available include:

- A. Standard – Construction same as walls with a reinforced 18 GA type 304 #4 stainless steel interior surface. Panels to be made to withstand a 500 PSF load.
- B. Pallet Jack – Construction same as walls with 3/4" plywood under .080 aluminum diamond tread plate. Floor shall be made to withstand 750 PSF load.

Contact our office for special floor designs.

## ***Roof Support Systems:***

Where roof spans exceed 14' to 16', we provide a variety of interior and exterior support systems which are custom designed for each application. Available systems include interior posts and beams, exterior glulam beams, back to back channels, and straps, or nylon rods supporting our structure from the existing building, the size of beams and back to back channels will vary depending on the span and load conditions.

Outdoor structures will be designed to meet UBC, seismic, wind and snow load requirements as per the site conditions information supplied by the customer. Our engineering and design department will provide typical details for the many roof support systems available upon request.





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## ***Available Walk-In Accessories:***

Glass doors, strip curtains, vapor proof light fixtures, fluorescent light fixtures, windows, interior and exterior ramps, shelving, alarm systems, and refrigeration systems.

## ***Installation Instructions:***

A complete set of assembly instruction on the walk-in is available and can be provided upon request.

## ***Fifteen Year Warranty:***

All urethane foam panels carry a limited 15-year warranty.

## ***Refrigeration Four Year Warranty Extended Compressor Warranty (optional):***

Limited extended 4-year warranties on compressor motors may be purchased and are provided through the refrigeration equipment manufacturer. Follow procedures on the warranty for compressor replacement. Freight and labor are excluded.

## ***Registrations and Certifications:***

All requirements for certification for NSF International (NSF) label, USDA, Underwriters Laboratories (UL) electrical and building type listing, and Canadian Standards Association (CSA).

*When specified Cold Room Solutions can provide walk-ins that will carry the FM seal and approval*

## ***Specify by Name:***

Sectional walk-ins shall be manufactured by:  
Cold Room Solutions, Inc.  
1040 Serpentine Ln., Ste. 207  
Pleasanton, CA 94566  
(925) 462-2500

*In line with our policy of constant improvement and engineering development, the manufacturer reserves the right to change specifications of details without notice or obligation.*

