



Manufactures of
Walk-in Coolers, Freezers &
Refrigerated Warehouses

PRODUCT SPECIFICATIONS

GENERAL: Our new 4” thick walk-ins shall be constructed of pre-fabricated, modular panels as manufactured by Amerikooler, Inc, Miami, Florida. They shall be designed for easy and accurate field assembly, future enlargement or dismantling. Construction shall be in strict compliance with NSF Standard 7, listed by Underwriters Laboratories and meet the new U.S. Federal Energy Independence and Security Act of 2007 (H.R.6) that takes effect January 1,2009.

INSULATION: Our new 4” thick AK-XPS4™ Extruded Panel Core™ “blue board” foam insulation is manufactured by The Dow Chemical Company. Dow’s proprietary extrusion process eliminates foam voids and enables precise control of key foam physical properties including density, compressive strength, cell size and orientation. You get a consistently high quality, closed-cell foam insulation with *hydrophobic characteristics* (prevents the foam from absorbing the water) and tight dimensional stability, with outstanding long-term panel integrity. Our panels provide enhanced energy efficiency over the life of your walk-in cooler or freezer. It meets and exceeds the new U.S. Federal requirements with R-29 for cooler and R-32 for freezer. The insulation is listed by Underwriters Laboratory as a class I building material and demonstrate a flame spread rating of 15 and smoke developed of 165 in accordance with Surface Burning Characteristics ASTM, E84.

PANEL CONSTRUCTION: Our proprietary integrated network of robotic CAD-CAM machines and custom software manufacturing process provides a precise quality finished product. All panels shall consist of exterior and interior metal skins, to exact dimensions. Panel edges shall have tongue and groove profile of the same R-value panel core insulation material. Distance between cam-locking devices shall not exceed 37” apart on all walls, ceilings and floors for an accurately align panels and ensures and air-tight seal.

Metal skins shall be bonded to the insulation material using MOR-AD Structural Adhesive manufactured by Rohm and Haas, (ICC-ES listed) for allowable shear and tensile stresses of the adhesive applied by an adhesive applicator machine under strict controls providing outstanding long-term panel integrity.

No wood or structural high-density urethane tongue and grove frame low insulating material shall be used in panel construction.

Finished panels will be provided as required to conformed project drawings. Maximum panel width of 47 inches, unsupported interior ceiling panel span of 18 feet and wall panel height of 25 feet.



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FLOOR CONSTRUCTION: When required, a 4” thick floor panels shall be of similar design to other panels and shall have 3/8” NSF radius cove at all interior floor-to-wall junctions to facilitate cleaning. Floor panels shall be capable of supporting evenly distributed load up to 600 pounds per square foot and are intended for walk traffic or light mobile cart usage only.

When floor panels are not required, a vinyl floor screed shall be provided to attach all wall panels to the finished building floor. Floor screeds come with an NSF ½” radius cove on the interior side. Floor screed shall be mechanically fastened and air tight sealed to fit flat against the finished floor.

DOOR CONTRUCTION: Hinge entrance 4” thick door shall meet the new U.S. Federal requirements that take effect January 1, 2009. Standard door net opening is 36” x 76” providing handicap entrance requirements. Doors are constructed similar to other panels. It shall be flush mount, magnetic, in-fitting type. Door shall conform to Underwriters Laboratory Standard for electrical safety and bear UL and NSF labels.

Each door will be provided with one heavy-duty cam-lift self-closing hinge and one spring assisted hinge. Pull handle assembly shall be with keyed lock and inside safety release, round knob easy handle to prevent personnel entrapment. Door closer with solid steel housing and bend resistant hook will be provided for positive door closing and sealing. Standard hinges and door handle hardware finish shall be brushed chrome. Thermoplastic gasket with a magnet core will be provided at top and sides of door. A flexible double blades “sweep” wiper will be provided at the bottom of the door.

Door frame and door perimeter will be constructed with a non-conductive heavy-duty PVC extrusion. Freezer door frame will contain an anti-condensate low voltage circuit concealed behind a stainless steel, magnet attracting trim strip to ensure a frost-free seal, and be provided with a mounted heated pressure relief vent. A vapor proof light fixture and globe should be mounted on the interior top side pre-wired to on-off light switch with pilot light. 2” diameter flush-mounted dial thermometer will be supplied on entrance door frame; color code on dial with both Fahrenheit and Centigrade scale. Light bulb recommended: Sylvania model # 29588 or GE model # 97659. Fluorescent light fixtures for low temperature (-20° F.) optional recommended bulbs T5HO, by others.

FINISHES: The interior and exterior finish on all panels’ surfaces will be manufactured with a premium quality grade. **Standard** finish shall be Acrylume™ (galvalume with a clear acrylic coat), which is sanitary, resistant to stain and oxidation, and reflects over 50% percent of the light.



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- A) Exterior and interior wall and ceilings shall be selected with any of the following:
All metal skins with primed side to be bonded to the insulation, providing a strong structural adhesion.
- 1) 26 gauge stucco embossed Acrylume™ (standard).
 - 2) 26 gauge white USDA painted stucco embossed with light-tack clear PVC protective film (optional).
 - 3) 24 and 22 gauge stainless steel type 304 or 201 #3 polished finishes, with a clear or white light-tack PVC protective film (optional).
 - 4) 22 or 20 gauge stainless steel type 304 or 201 #2B mill finish (optional).
- B) Floor - interior finish
- 1) Aluminum 18 gauge smooth with primed side to be bonded to the insulation, capable of supporting up to 600 lb/sq distributed load (standard).
 - 2) Stainless steel 20 or 22 gauge, type 304 or 201 #2B mill finish with primed side to be bonded to the insulation, capable of supporting up to 600 lb/sq. ft. distributed load (optional).
- C) Exterior floor and ceiling - shall be 26 gauge Acrylume™ stucco embossed (standard).

* The gauge or thickness of the metals materials listed above is within the standard tolerance of the mills.

PANEL ASSEMBLY: Assembly of walk-in shall be accomplished by the use of cam-locking device, robotic manufacturing process precisely positioned along the outside tongue and groove edges of the same panel core insulation. Each panel cam-locking device corresponds exactly with a matching cam-locking device in adjacent panels. Cam-locking device spacing shall not exceed 37". Cam-locking device shall be made of non-corrosive



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PVC material. Shall be operated through access ports of no larger than 3/8" in diameter by the use of a hex wrench. All access ports shall be located on the walk-in interior to facilitate assembly and shall be covered by a vinyl snap-in caps after final assembly.

SEAL PANEL GASKET: NSF listed gasket and factory installed 1/2" x 1/8" thick flexible vinyl sponge closed-cell on each side of tongue to assure an air-tight joint. Must be impermeable to stain, grease, water, oil and mildew.

PRODUCT IMPROVEMENTS IS A CONTINUING COMMITMENT FOR AMERIKOOLER, INC. OUR CONSTANT EFFORT ACHIEVED THROUGH RESEARCH AND DEVELOPMENT REQUIRE THAT WE RESERVE THE RIGHT TO MODIFY AND OR CHANGE SPECIFICATIONS WITHOUT NOTICE.

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