TDI | Texas Department of Insurance

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Product Evaluation

MC19 | 1119 Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: MC-19

Effective Date: November 1, 2019
Re-evaluation Date: November 2023

Product Name: Seamless Fiberglass Walk-In Cooler & Freezer

Manufacturer: Polar King International, Inc.
4424 New Haven Avenue
Fort Wayne, IN 46803
(260) 428-2530

General Description:
This evaluation report is for a Seamless Fiberglass Walk-In Cooler Freezer. Urethane insulation completely encased in fiberglass insulation to be rigid closed cell polyisocyanurate foam chemically bonded to interior and exterior fiberglass to form a one-piece structure.

Limitations:
The walls, floor, and ceiling of the walk-in cooler are constructed using 0.10" thick exterior and 0.08" thick (0.16" thick for the ceiling) interior reinforced fiberglass composite, and a rigid closed cell polyisocyanurate foam chemically bonded to the interior and exterior fiberglass to form a one-piece structure.

The access doors are constructed using 3/16" thick reinforced fiberglass composite on the exterior and interior, and a 4" thick polyisocyanurate 2.0 PCF foam.

The walls are minimum 5" thick. The roof is minimum 4-3/8" thick. The door leaf is minimum 4-3/8" thick.

The maximum length is 64'-11". The maximum width is 15'-10". The maximum height is 11'-4".

Refer to the design drawing referenced in this evaluation report for specific details.

Design Drawing:
Construct and install the walk-in freezer in accordance with the following design drawing:

- Drawing No. 17-13, sheets 1 through 7 of 7, titled "Seamless Fiberglass Walk-In Cooler & Freezer," dated May 12, 2017, Revision A, dated February 21, 2019; signed and sealed by Javad Ahmad, P.E. on March 12, 2019.

The design drawing is generic and does not provide information for a site-specific project.

Design Pressure:
- Walls: ±70 psf
- Roof: ± 70 psf

Installation:
The design drawing referenced in this evaluation report is for the design of the walk-in cooler only. The foundation for the walk-in cooler and the anchorage of the walk-in cooler to the foundation to resist uplift, overturning, and lateral loads must be designed by a Texas licensed professional engineer.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, IBC, and the Texas Revisions.