

## Product Evaluation

MC22 | 0821

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-22

**Effective Date:** August 1, 2021

**Re-evaluation Date:** August 2025

**Product Name:** Walk-In Cooler & Freezer, Impact Resistant

**Manufacturer:** Barcel USA LLC  
301 Northpoint Drive  
Suite 100  
Coppell, TX 75019  
(972) 591-2493

**General Description:**

This evaluation report is for a Walk-In Cooler Freezer.

**Limitations:**

The floor is constructed of 4" thick rigid XPS extruded polystyrene foam with a 14-gauge aluminum interior sheet and a 26-gauge G60 steel exterior sheet.

The walls are constructed of 4" thick rigid XPS extruded polystyrene foam with a 23-gauge aluminum interior sheet and a 26-gauge G60 steel exterior sheet.

The ceiling is constructed of 4" thick rigid XPS extruded polystyrene foam with a 23-gauge aluminum interior sheet and a 26-gauge G60 steel exterior sheet.

The access door framing is 18-gauge steel. The access door core is 4" thick rigid XPS extruded polystyrene foam with a 23-gauge aluminum interior sheet and a 26-gauge G60 steel exterior sheet. The door hardware is specified on the approved drawings.

**Allowable Dimensions:**

Freezer:

The maximum length is 14'-2".

The maximum width is 8'-2".

The maximum height is 8'-2-1/4".

Door:

The maximum width is 2'-5-15/16".

The maximum height is 6'-4-7/16".

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

**Design Drawing:**

Construct and install the walk-in freezer & cooler in accordance with the following design drawing:

- Drawing No. 20-95T; sheets 1 through 47; titled "Walk-In Cooler & Freezer," dated November 20, 2020; signed and sealed by Jalal Farooq, P.E. on May 27, 2021.

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

**Design Pressure:** The maximum design pressure rating is +70/-65 psf

**Impact Resistance:** The walk-in freezer & cooler has been tested for windborne debris resistance. The assembly passed the equivalent of Missile Level D specified in ASTM E 1996-14a.

**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 must be designed by a Texas licensed professional engineer.

**Anchors:** Refer to sheet 1 of the approved drawings for the type of substrate and anchors that must be used. Page 1 of the approved drawings indicates the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

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