

ASTRA

WALK-IN COOLERS



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WALK-IN COOLERS & FREEZERS



Represented By:



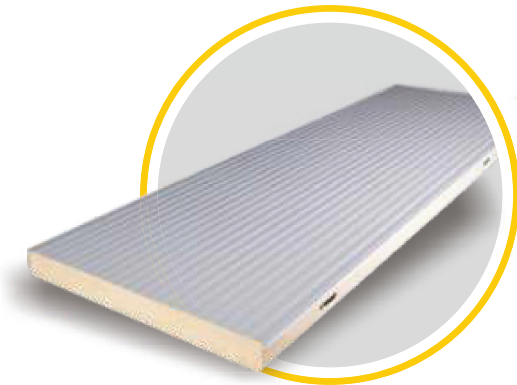
DMM MANUFACTURERS REPRESENTATIVES
Tel: (201) 525-1433 Fax: (201) 525-1437
Toll Free: (800) 243-8366

▶ WALK-IN COOLER & FREEZER PANELS

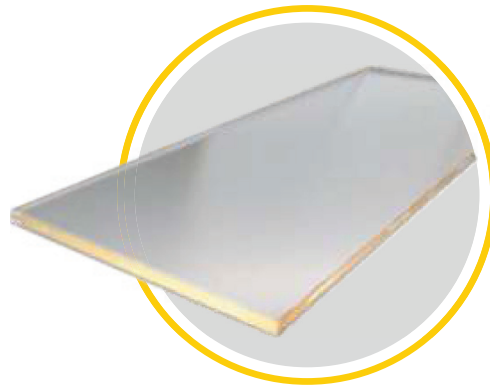
Introducing Astra brand, where excellence, innovation, and sustainability converge in our energy-efficient and eco-conscious walk-in cooler and freezer panels. Engineered with cutting-edge technologies, our panels, crafted with high-quality polyurethane insulation material, maximize thermal efficiency and minimize energy consumption, ensuring both cost savings and environmental stewardship. With Astra, you can embrace a greener future while enjoying superior temperature control, thanks to our sustainable polyurethane insulation. Discover our catalog and experience the perfect blend of efficiency, innovation, and sustainability with Astra.

Astra brand extends its innovative solutions to warehouses, supermarkets, restaurants, and pharmaceuticals. Our walk-in cooler and freezer panels offer exceptional insulation for precise temperature control in warehouses, visually appealing displays in supermarkets, optimized storage in restaurants, and reliable cold storage for pharmaceuticals. Discover the energy-efficient and tailored solutions of Astra for your specific segment.

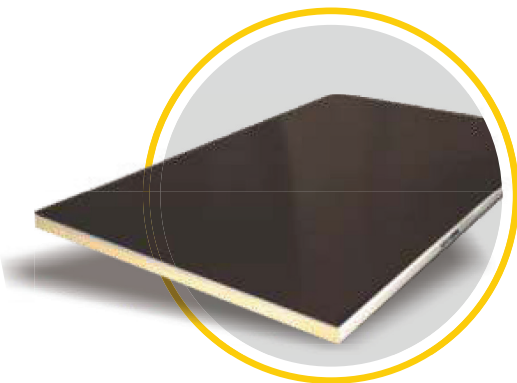
PANEL TYPES



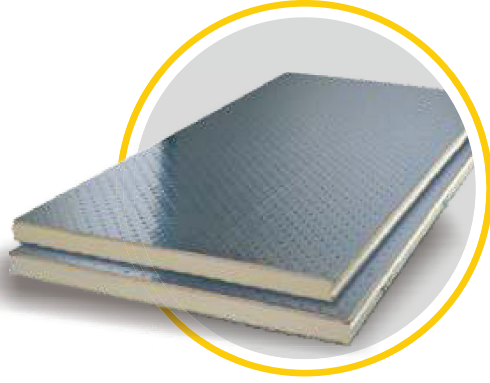
• Corrugated Panel



• Smooth Panel



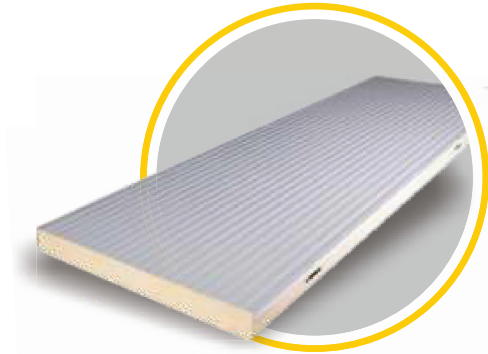
• Plywood Floor Panel



• Diamond Plate Floor Panel

▶ WALK-IN COOLER & FREEZER PANELS

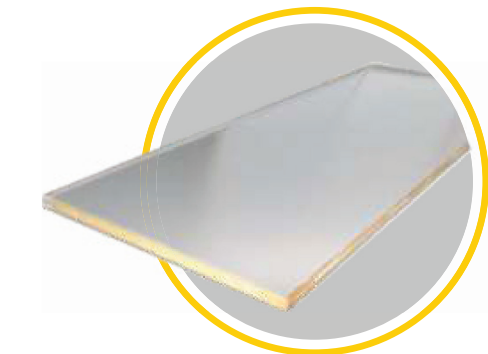
- Corrugated Panel



▶ CORRUGATED PANEL

Corrugated panels are formed by shaping sheets of galvanized steel or aluminum into a U-shape using a roll-forming machine, creating the recognizable corrugated pattern. In addition to its distinctive appearance, the corrugated pattern provides inherent strength to the panels, ensuring durability and structural integrity for a wide range of applications.

- Smooth Panel



▶ SMOOTH PANEL

Smooth panels are designed with a seamless finish, offering a sleek and elegant appearance that effortlessly blends with various architectural styles. These panels are easy to clean and maintain, making them ideal for creating hygienic environments. They come in a standard width of 44" and have a locked form for added stability and security, just like industrial panels.

▶ COMMON TECHNICAL SPECIFICATIONS

Insulation Material	: Polyurethane
Panel Width	: 12", 20", 44"
Panel Thickness	: 4" and 5"
Panel Density	: 40 (+/-2) kg/m ³
R-Value	: 25 (Cooler Panel), 32 (Freezer Panel)
Color Code	: Ral9002
Finishes	: Corrugated, Stucco-Embossed Aluminum, White Galvanized, Stainless Steel
Sheet Thickness	: 0.50mm
Connection Mechanism	: Cam-Lock panels
*Note: The lock system starts from 80mm (31.5") upwards.	



Density



Fire Performance



Heat Insulation



Resistance to Water Absorption



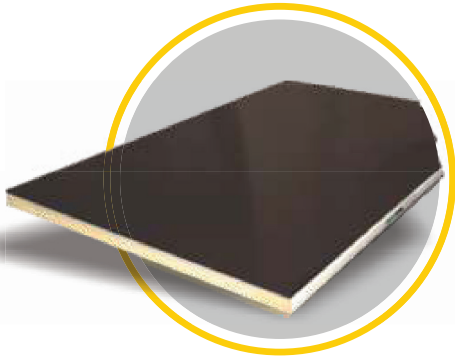
Sound Insulation



Easy Installation

WALK-IN COOLER & FREEZER PANELS

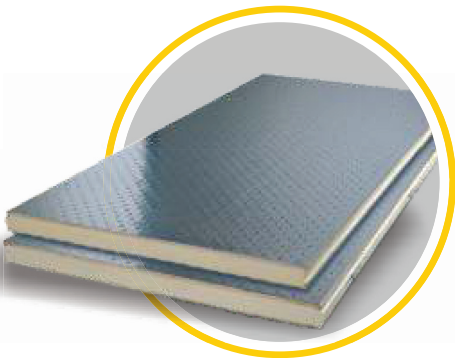
- Plywood Floor Panel



PLYWOOD FLOOR PANEL

Our floor panels are intelligently engineered to provide a durable and reliable foundation for your walk-in cooler or freezer. These panels feature a strong polyurethane core, known for its excellent insulation properties. To enhance strength and stability, a layer of high-quality plywood is applied over the polyurethane panel, creating a robust flooring surface that can withstand heavy loads and foot traffic. The combination of the polyurethane core and plywood layer ensures optimal insulation while offering a solid and secure platform for your cold storage needs.

- Diamond Plate Floor Panel



DIAMOND PLATE FLOOR PANEL

Our diamond plate floor panels are the epitome of strength and durability, designed to withstand heavy-duty usage in walk-in coolers and freezers. Constructed with a rugged diamond patterned aluminum surface, these panels offer exceptional traction, reducing the risk of slips and falls in high-traffic areas. The raised diamond pattern also provides added structural integrity, making it capable of supporting heavy loads with ease. Not only do these panels offer superior strength, but they are also resistant to corrosion, ensuring longevity and low maintenance. The diamond plate design enhances the overall aesthetics of your cold storage space, exuding a sleek and industrial look.

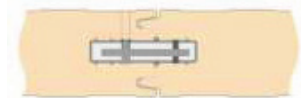
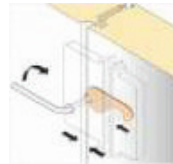
COMMON TECHNICAL SPECIFICATIONS

Insulation Material	: Polyurethane
Panel Width	: 44"
Panel Thickness	: 4" and 5"
Panel Density	: 40 (+/-2) kg/m ³
R-Value	: 28 (Floor Panel)
Color Code	: Ra19002
Finishes	: Plywood, Diamond Plate
Sheet Thickness	: 10mm (0.4")
Connection Mechanism	: Cam-Lock panels

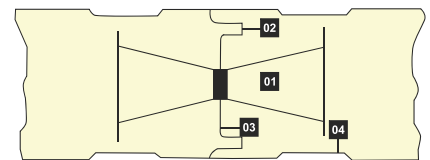
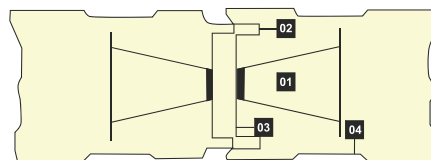
*Note: The lock system starts from 80mm (31.5") upwards.

DETAILS OF THE LOCK

These panels feature a double-interlocking design and are connected to one another via a locking mechanism. This configuration ensures both ease of installation and optimal insulation performance.



DETAILS OF THE CONNECTION



01- Eccentric Locking System

02- Mastic Application Canal

03- End Point of the Surface Sheet

04- Surface Sheet

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WALK-IN COOLER & FREEZER DOORS



Our doors, which are produced in compliance with European Standards, are primarily used as entry doors for cold rooms in the food industry. All of our doors are fully insulated with 100% polyurethane foam and have a density of 40 (± 2) to prevent the formation of thermal bridges. We offer a total of 6 different types of cold room doors, each with unique features to suit specific application needs.

- Single-Wing Swinging Door
- Double-Wing Swinging Door
- Hinged Door
- Sliding Door
- Monorail Door
- Service Door

WALK-IN COOLER & FREEZER DOORS

• Single-Wing Swinging Door



▶ SINGLE-WING SWINGING DOOR

This type of door is typically used in service and operational passages. It features a 180° opening range in both directions and can also be locked in an open position. Single-wing doors are available in sizes ranging from 70 x 170 cm (27.6 x 66.9") to a maximum net passage of 100 x 250 cm (39.4 x 98.4"). Manufactured in compliance with European Standards, these doors are constructed with high-quality materials and are designed to provide reliable usage for many years.

▶ TECHNICAL SPECIFICATIONS

- It is installed to the panel and to the wall.
- It has polyurethane filling with a wing thickness of 40 mm (1.57").
- It has a doorcase profile made of wood and composite materials that prevents any thermal bridge.
- It has polyurethane filling with 40 (+/-2) density.
- In its standard production, both surfaces are made of PVC sheet. Optionally, they can be produced of polyester-painted sheet or diamond plate floor panel.
- With and without a window.
- Aluminum profiles with anodized coating.

• Double-Wing Swinging Door



▶ DOUBLE-WING SWINGING DOOR

This type of door is designed for service and operational passages, and operates as a double-wing door that can swing open to the left or right. With a 180° opening range in both directions, these doors can be locked in an open position when necessary. Double-wing doors can be produced to provide a maximum net passage size of up to 200 x 250 cm (78.7 x 98.4"). Manufactured with high-quality materials in compliance with European Standards, these doors are built to provide reliable usage for many years.

▶ TECHNICAL SPECIFICATIONS

- It is installed to the panel and to the wall.
- It has polyurethane filling with a wing thickness of 40 mm (1.57").
- It has a doorcase profile made of wood and composite materials that prevents any thermal bridge.
- It has polyurethane filling with 40 (+/-2) density.
- In its standard production, both surfaces are made of PVC sheet. Optionally, they can be produced of polyester-painted sheet or diamond plate floor panel.
- With and without a window.
- Aluminum profiles with anodized coating.

WALK-IN COOLER & FREEZER DOORS

Hinged Door



Hinge System



Door Handle

Sliding Door



HINGED DOOR

This type of door is designed for use in cold and frozen storage rooms and is a single-wing door that opens to the left or right. Our doors feature a rising and adjustable hinge system, and are equipped with imported locks that allow them to be opened from the inside. Additionally, they are outfitted with phosphorescent anti-panic bars for added safety. These doors are manufactured using high-quality materials that comply with European Standards, and are built to provide reliable usage for many years.

TECHNICAL SPECIFICATIONS

- **DOOR WING:** It is manufactured without using any wood, but by injecting polyurethane with the density of 40 (+/-2) between the two sheets.
- **DOOR THICKNESS:** The door thickness is 68 mm (2.6") in cooler rooms, and 92 mm (3.6") in freezer rooms.
- **LOCK:** The locks are imported. They have the feature of being able to be opened from inside when they are locked, and their anti-panic bars are phosphorescent.
- **HINGE:** The hinges are of a rising and adjustable type.
- **SURFACE SHEET:** In standard production, both surfaces are made of PVC sheets. Optionally, they can be produced with polyester-painted sheets or diamond plate floor panel.
- **DOORCASE:** In industrial panel rooms, one wall of the room is manufactured as the special doorcase. Since the door wing is installed on this panel, no additional installation is required. In rooms without a panel, a special PVC external case and an aluminum internal case are used. Since the wing is installed on the case, the application is very easy.
- **THERMAL BRIDGE:** The leak-tightness is ensured by the special rubber gasket surrounding the door. In the frozen storage doors, there is a diode resistor against freeze that does not require a transformer.
- **SIZE:** Production can be made in any demanded size up to a net passage of 100 x 200 cm (39.4 x 78.7").

SLIDING DOOR

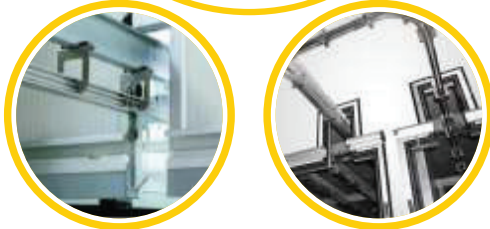
This type of door is designed for use in cold and frozen storage rooms, as well as shock rooms. It operates as a single-wing door, opening to either the left or right. The door can be produced in any size up to a net passage of 250 x 300 cm (8.2 ft x 9.8 ft). The door is constructed without the use of wood, and instead is filled with polyurethane with a density of 40 (\pm 2) between the two sheets. The door is manufactured to meet European Standards, and provides a guarantee of long-lasting usage.

TECHNICAL SPECIFICATIONS

- **DOOR WING:** It is manufactured without using any wood, but by injecting polyurethane with the density of 40 (+/-2) between the two sheets.
- **DOOR THICKNESS:** The door thickness is 92 mm (3.6 in) in cooler rooms, and 120 mm (4.7 in) in freezer rooms.
- **SUSPENSION SYSTEM:** The carrier rail, the wheels, the handles, and the other accessories are made of composite materials and stainless steel.
- **SURFACE SHEET:** In standard production, both surfaces are made of PVC sheets. Optionally, they can be produced with polyester-painted sheets or diamond plate floor panel.
- **DOORCASE:** The external case is made of a special PVC and the internal case is made of aluminum.
- **THERMAL BRIDGE:** In normal storage rooms, there is a special single-row rubber gasket surrounding the door wing. In frozen storage doors, there is a resistor that can be easily replaced when necessary.
- **SIZE:** Production can be made in any demanded size up to a net passage of 250 x 300 cm (98.4 x 118.1").

WALK-IN COOLER & FREEZER DOORS

- Monorail Door



Details of the Monorail

- Service Door



▶ MONORAIL DOOR

This type of door is primarily designed for use in integrated meat plants as processing and shocking passage doors. They work on the principle of sliding to the right or left as per requirement. Monorail doors can be manufactured in hinged or sliding forms based on specific needs, and can be produced in any size up to a net passage of 250 x 300 cm (8.2' x 9.8').

Our doors are made using special materials in accordance with European Standards and are guaranteed to provide many years of use.

▶ TECHNICAL SPECIFICATIONS

- DOOR WING: It is manufactured without using any wood, but by injecting polyurethane with the density of 40 (+/-2) between the two sheets.
- DOOR THICKNESS: The door thickness is 68 mm (2.6") in cooler rooms, and 92 mm (3.6 in) in freezer rooms.
- SUSPENSION SYSTEM: The carrier rail, the wheels, the handles, and the other accessories are made of composite materials and stainless steel.
- SURFACE SHEET: In standard production, both surfaces are made of PVC sheets. Optionally, they can be produced with polyester-painted sheets or diamond plate floor panel.
- DOORCASE: The external case is made of a special PVC and the internal case is made of aluminum.
- THERMAL BRIDGE: In normal storage rooms, there is a special single-row rubber gasket surrounding the door wing. In frozen storage doors, there is a resistor that can be easily replaced when necessary.
- SIZE: Production can be made in any demanded size up to a net passage of 250 x 300 cm (98.4 x 118.1").

▶ SERVICE DOOR

This type of door can be used as all kinds of office doors and dry storage doors and in engine rooms and operation passages. The standard production size is a net passage of 80 x 200 cm (31.5 x 78.7").

It is manufactured using special materials following the European Standards and provides a usage guarantee for many years.

▶ TECHNICAL SPECIFICATIONS

- DOOR WING: This door type can be installed both on the panel and on the door. It has a thickness of 40 mm (1.5") with polyurethane filling.
- SURFACE SHEET: In standard production, both surfaces are made of PVC sheets. Optionally, they can be produced with polyester or diamond plate floor panel.
- DOORCASE: The internal and external cases are made of aluminum. In order to ensure the leaktightness, a special rubber gasket is used in the case.
- SIZE: The standard production is a net passage of 80 x 200 cm (31.5 x 78.7").