



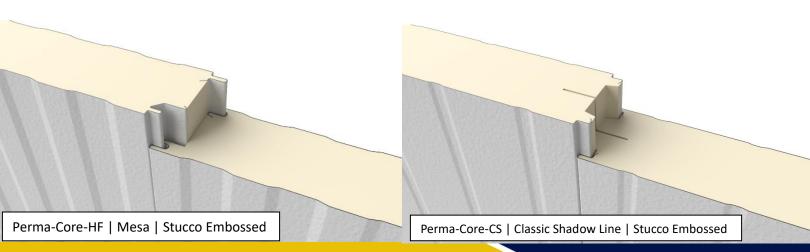


Permatherm's **Perma-CORE** line provides maximum R-value per inch. Utilizing **Gen 4** Poly-Iso Technology (Foamed in Place), **Perma-CORE** panels meet the highest EPA standards. With **Perma-CORE** you can choose between two panel-joint options:

- **Perma-Core -HF** The hidden fastener joint for a variety of uses including exterior walls.
- Perma-Core -CS The Cold storage joint which virtually eliminates air entry/loss and thermal bridging.

***Only Perma-CORE delivers factory direct *notched freezer panels*. The ultimate way to prevent thermal bridging and save you countless hours of field cutting! ***

Perma-CORE panels can be used across any application from food processing, to growing environments, clean rooms, and cold storage. PermaTherm's **Perma-CORE** panel is the standard for insulated wall panels.





Perma-Core -HF

PRODUCT: Perma-CORE-HF

Perma-Core HF Features the classic Hidden Fastner joint and is suitable for various applications including building exteriors, partition / divider walls, ceilings, and box-in-a-box applications.

Panel Use: Exteriors, Partition Walls, Ceilings, Box-in-a-box

Profiles: Light Mesa, Standard Mesa, Classic Shadow Line, Sleek

Coverage Width: 42"

Available Thickness: 2" 3" 4" 5" 6" 8" **Length:** 8'-0" TO 50'-0"

Metal Gauge: 26, 24

Metal Type: Galvanized

Texture: Stucco Embossed or Smooth

Paint Type: Siliconized Polyester

Core: Polyisocyanurate (Foamed in Place) Insulation

R-Value: R-8 Per Inch of Thickness (Nominal)



Perma-Core HF | Light Mesa | Smooth Finish



Perma-Core -CS

PRODUCT: Perma-CORE-CS

Perma-Core CS Features **PermaTherm's** Unrivaled Z-LOCK joint and is the preferred choice for coolers and freezers. **Only Perma-CORE** offers notched freezer panels. The ultimate way to prevent thermal bridging and save you countless hours of field cutting!

Panel Use: Walls, Partition Walls, Ceilings, Coolers, Freezers

Profiles: Light Mesa, Standard Mesa, Classic Shadow Line, Sleek

Coverage Width: 45.5"

Available Thickness: 4" 6" 8"

Length: 8'-0" TO 50'-0"

Metal Gauge: 26, 24

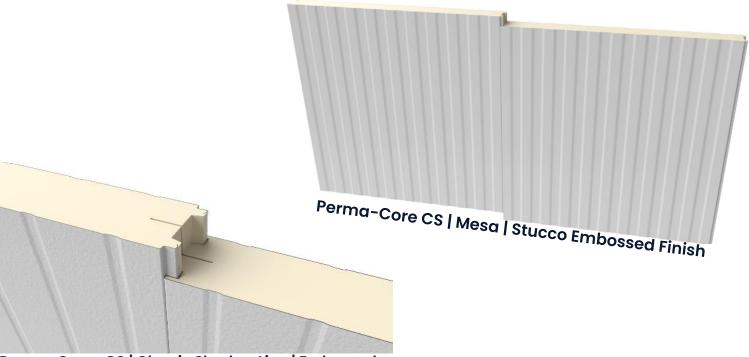
Metal Type: Galvanized

Texture: Stucco Embossed or Smooth

Paint Type: Siliconized Polyester

Core: Polyisocyanurate Insulation

R-Value: R-8 Per Inch of Thickness (Nominal)



Perma-Core -CS | Classic Shadow Line | Embossed



PANEL WEIGHTS

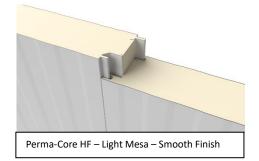
PRODUCT: Perma-CORE-HF (42") | Perma-CORE-CS (45.5")

Profiles: Light Mesa, Standard Mesa, Classic Shadow Line, Sleek

Width: 42 Inch

26-gauge min. (facer and liner) Gauge:

Finish: Embossed or Smooth



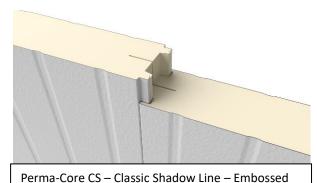
PANEL WEIGHTS:

DANIEL THICKNESS	DANIEL WIDTH									
PANEL THICKNESS (IN)	PANEL WIDTH (IN)	26/26	24/26	22/26	26/24	24/24	22/24	26/22	24/22	22/22
2.00	42	2.10	2.32	2.63	2.31	2.52	2.84	2.62	2.83	3.15
3.00	42	2.31	2.52	2.84	2.52	2.73	3.05	2.83	3.04	3.36
4.00	42	2.73	2.94	3.26	2.93	3.15	3.46	3.24	3.45	3.77
	45.5	2.94	3.15	3.47	3.14	3.35	3.67	3.45	3.66	3.98
5.00	42	2.10	2.32	2.63	2.31	2.52	2.84	2.62	2.83	3.15
6.00	42	2.31	2.52	2.84	2.52	2.73	3.05	2.83	3.04	3.36
	45.5	2.52	2.73	3.05	2.72	2.94	3.26	3.03	3.29	3.57
8.00	42	2.73	2.94	3.26	2.93	3.15	3.46	3.24	3.45	3.77
	45.5	2.94	3.15	3.47	3.14	3.35	3.67	3.45	3.66	3.98

NOTES:

1. U-values included universally accepted air-films on each side of the insulated metal panel.

Values were derived from ASTM C518 test results.







PRODUCT: Perma-CORE

PWP Series: Perma-Core: Insulated metal wall panels IRP Series: Perma-Core: Insulated metal ceiling panels

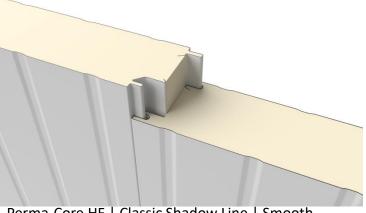
Profiles: Light Mesa, Standard Mesa, Classic Shadow Line, Sleek

Width: 42" & 45.5" Max

Gauge: 26-gauge min. (facer and liner) Texture Finish: Embossed or Smooth

R Values:

PANEL THICKNESS (IN.)	35 DEGREE MEAN
2.00	16.00
3.00	24.00
4.00	32.00
5.00	40.00
6.00	48.00
8.00	64.00



Perma-Core HF | Classic Shadow Line | Smooth





PHYSICAL PROPERTIES	ASTM METHOD	UNITS	2.5 LB. DENSITY
Density, Minimum	D1622	lb/ft ³	2.35
Density, as tested	D1622	lb/ft ³	2.5
Density, Range	D1622	lb/ft ³	2.35 - 2.7
Compressive Strength	D1621	lb/in ²	39*
Compressive Modules	D1621	lb/in ²	790*
Shear Strength	C273	lb/in ²	17
Shear Modulus	C273	lb/in ²	285
Modulus of Elasticity	C273	lb/in ²	
Tensile Strength	D1623	lb/in ²	35
Flexural Strength	C203	lb/in ²	42
Thermal Conductivity:	C177/C518	BTU-in / hr-ft2-F	
Thermal Resistance:	C1363		
R-Factor @1"			
@ 35F (-3.9C)		per inch	8
@ 75F (43.3C)		per inch	7
Water Absorption	C272	%	<7%**
Water Vapor Permeability	E96	perms inch	3***
Long Term Service Temp		F	165
Maximum Exposure Temp	D696	F	180

^{*} Parallel to rise

PHYSICAL PROPERTIES

PANEL MANUFACTURING TOLERANCES

Length: 8' - 50'

Width: 45.5 inches: +/- 1/8 inch

Thickness: 4,6,8

Width: 42 inches: +/- 1/8 inch

Thickness: 2,3,4,5,6 & 8

Squareness: +/-1/4"

Lateral Bow:

Up to 10 feet: +/- 3/32 inch 10 ft to 20 ft: +/- 3/16 inch Over 20 feet: +/- 3/8 inch

Flatness: +/- 3/16 inch per 2 ft span

Joints: Male/female joint edges flush, with no more than 1/8 inch deviation.

THERMAL RESISTANCE

(2.5 lb Density @ 35° F)

Thickness (in) 2 3 4 5 6 8

R-Value 16 24 32 40 48 64

SURFACE PANEL BURNING CHARACTERISTICS

(1LB DENSITY)	ASTM METHOD	UL RATING	
Flame Spread	E84	25	
Smoke Density	E84	450	
Hot Surface	C41	Pass	

^{**} By Volume insulation only

^{***} Insulation Only



PRODUCT WARRANTY



All PermaTherm products are warranted to be free from defects in materials and workmanship for a period of one year from the date of shipment.

A certain amount of "waviness," or "oil canning," is inherent in any product made from sheet metal. Installation of large areas of metal panels, or installation of panels to misaligned structures, will cause unnatural stresses, increasing the likelihood of oil canning.

A stucco-like embossed texture in a pre-coated material will reduce the visual effect of oil canning. Oil canning does not affect the structural or thermal integrity of the panel. Minor waviness of the panel does not indicate a defective panel, and is not cause for product refusal.

Minor blisters can sometimes occur when the panel's exterior face is exposed to the sun. This is caused by the thermal expansion of a blowing agent, which is trapped under the panel face. This is a commonphenomenon and is easily repaired, and is not cause for product refusal.

Finished panels free of surface imperfections (dents, mars, scratches, etc.) visible with panel in position of intended use and view under good light from intended installed distance or 8 ft., whichever is greater.