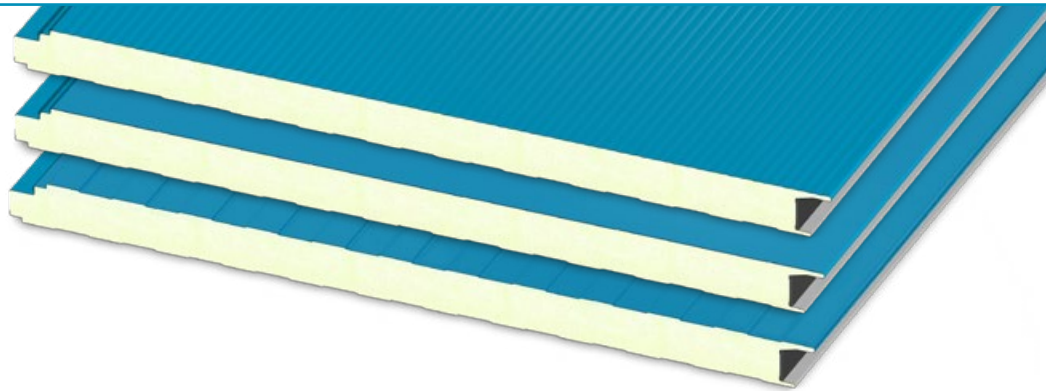


# ISOPARETE

Wall Panel

Box / Striated / Flat



## Features

A double-steel sheet wall panel, insulated with polyisocyanurate rigid foam. The tongue-and-groove joint completed by concealed fasteners and saddle clip. External faces are available in striated, box, and flat profiles. The internal face is standard with the box profile (contact us for other options)

## Options

Isoparete is a sandwich panel characterized by a hidden fixing joint system, used for industrial and commercial building walls, and perfect solution for cold storage industries. It can be used in combination with wall sandwich panels Isoclass and Isoparete.

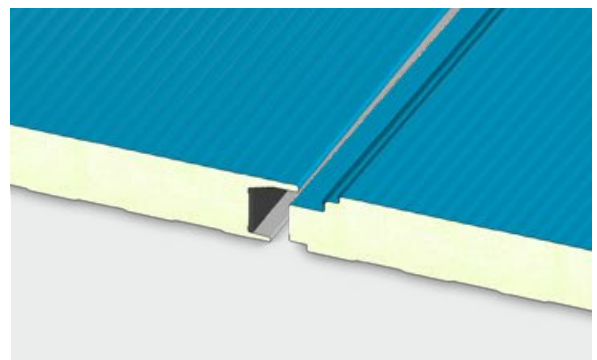
## Benefits

- Suitable for controlled temperatures
- Gasket barrier to prevent vapor leaks
- High mechanical strength
- High puncture resistance
- High thermal resistance
- Up to 8" thick
- Possibility of combination with compatible panels



## Specifications

Standard Length:	Typical panel length is 8' up to a maximum of 54' (Subject to transportation limitations)
Width	39 3/8"
Joint:	Interconnecting male/female
Thickness:	1 1/2" 2" 2 1/2" 3" 4" 5" 6" 8"
Exterior Face	Prepainted steel
Interior Face:	Shadowline profile
Foam Density:	2.49 LB/FT <sup>3</sup>
Exterior Finish:	Polyester coating
Interior Finish:	Polyester coating
Joint Type:	Hidden



For trims and accessories, ask your sales rep or contact Isocindu for more information and availability.

### Box / Striated / Flat

#### Panel Information

	Exterior	Interior
<b>Profile:</b>	Box, Striated, Flat	Box, Piano
<b>Texture:</b>	Smooth, Embossed	Smooth, Embossed
<b>Gauge:</b>	24, 26, 28	24, 26, 28
<b>Steel:</b>	Pre-painted Steel G-60, G-90 grade SS 33, SS 37, SS 40 according to ASTM A653	
<b>Coat Finish:</b>	Automotive performance coating of standard polyester, superpolyester or PVDF according to ASTM A755	
<b>Width:</b>	39.37 inches	
<b>Thickness:</b>	1½" 2" 2½" 3" 4" 5" 6" 8"	
<b>Length:</b>	8.2 ft - 39.37 ft	
<b>Orientation:</b>	Vertical & Horizontal	
<b>Joint Type:</b>	Male - Female Joint	
<b>Core:</b>	Polyurethane (PUR) insulating foam / Density: 2 - 2.5 psf Polyisocyanurate (PIR) insulating foam / Density: 2.12 - 3.62 psf	
<b>R-Value:</b>	= 7.87 per inch per ASTM C518 @ 35°F = 7.04 per inch per ASTM C518 @ 75°F	

#### Performance Testing & Approvals

Test	Procedure	Results
Fire	FM 4880	Class 1 fire rating of insulated wall or wall and roof / ceiling panels, interior finish materials or coatings, and exterior wall systems
Fire	ASTM E84	Flame spread: 25 or less / Smoke developed: 450 or less
Structural	FM 4881	Class +70 / -70 Zone TC
Compression	ASTM D1621	17.4 psi with 10% of compression
Tensile Strength	ASTM D1623	Adhesion strength of insulating foam to metal
Density	ASTM D1622	Polyurethane (PUR) insulating foam Density: 2 - 2.5 psf
Density	ASTM D1622	Polyisocyanurate (PIR) insulating foam Density: 2.12 - 3.62 psf
Functional Temperature		Maximum 180 °F; minimum -13°F

#### Dimensional Tolerance

<b>Length</b>	L ≤ 9' 10" ± 1/8" L > 9' 10" ± 3/8"	<b>Perpendicularity Deviation</b>	1/4"
<b>Working Length</b>	± 2 mm	<b>Misalignment of the internal metal surfaces</b>	± 1/8"
<b>Thickness</b>	D ≤ 4" ± 1/16" D > 4" ± 2%	<b>Bottom Sheet Coupling</b>	F = 1 + 1/8"

L = working length, D = panel thickness, F = sheet coupling

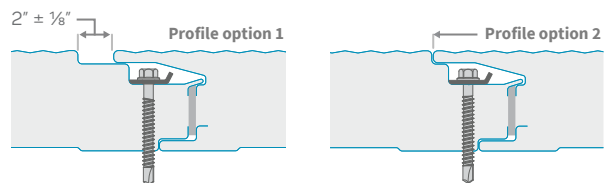
#### Panel Weight

Steel thickness		Panel Nominal Thickness (in)							
		1½"	2"	2½"	3"	4"	5"	6"	8"
<b>26/26</b>	PSF	2.07	2.14	2.24	2.33	2.52	2.70	2.89	3.27
<b>24/26</b>	PSF	2.44	2.51	2.61	2.70	2.85	3.04	3.26	3.64
<b>24/24</b>	PSF	2.78	2.85	2.94	3.04	3.22	3.41	3.60	3.97
<b>22/26</b>	PSF	2.72	2.70	2.88	2.98	3.16	3.35	3.54	3.91

#### Thermal Transmission Test

	Panel Nominal Thickness (in)							
	1½"	2"	2½"	3"	4"	5"	6"	8"
PIR - 75° F Mean Temp - According to ASTM C518 Test								
<b>U - Factor</b>	0.14	0.07	0.06	0.05	0.04	0.03	0.02	0.02
<b>R - Value</b>	7.04	14.08	17.61	21.13	28.17	35.21	42.25	56.34
PIR - 35° F Mean Temp - According to ASTM C518 Test								
<b>U - Factor</b>	0.07	0.06	0.05	0.04	0.03	0.02	0.02	0.01
<b>R - Value</b>	12.80	15.75	19.69	23.62	31.5	39.37	47.24	62.99
PUR - 35° F Mean Temp - According to ASTM C518 Test								
<b>U - Factor</b>	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.01
<b>R - Value</b>	12.50	15.38	19.23	23.08	30.77	38.46	46.15	61.54

#### Joint Options



#### Face profile

