

ISODECK PVSTEEL

PVC Steel / TPO Steel

Roof Panel



Features

Isodeck PVC Steel: Single-layer synthetic PVC-P coating, with light gray top layer highly resistant to atmospheric agents and UV rays. The bottom layer is highly resistant to punctures and root attack.

Isodeck TPO Steel: Synthetic coating of TPO, a thermoplastic waterproofing membrane, optimal for commercial and industrial roofs with low slopes. The TPO membrane is characterized by the absence of plasticizers and halogens.

Benefits

- Free of plasticizers and halogens harmful to the environment.
- Resistance to atmospheric agents and UV rays.
- High mechanical resistance
- High resistance to water & moderate chemical abrasion
- Resistant to static and dynamic loads

★ Engineered to meet the most rigorous standards, this panel is the perfect choice for flat roof applications.

Specifications

Standard Length:	Typical panel length is 8' up to a maximum of 26' (Subject to transportation limitations)
Width	39 3/8"
Joint:	Interconnecting male/female
Thickness:	2" 2 1/2" 3" 4" 5" 6" 8"
Steel Gauge:	22, 24, 26
Exterior Face:	Pre-painted Coated Steel (ASTM A653)
Interior Face:	PVC/TPO Coated Metal Base
Foam Density:	2.49 LB/FT ³
Exterior Finish:	TPO Polyester / PVDF coating
Interior Finish:	Automotive Polyester Coating
Joint Type:	Hidden

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

Suitable for

Isodeck PVSteel can be used with the correct specifications for:



Load Chart

Distance Between 2 Simple Supports												
Meters	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	
Feet	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	
Panel Thickness	Steel Sheets 26/26 (Ga) - PIR with 10% Safety Factor											
2"	61	51	44	38	34	29	23	19	15	13	11	
2½"	61	61	56	49	43	37	30	25	20	17	14	
3"	61	61	61	53	47	41	34	28	24	20	17	
4"	61	61	61	61	61	60	52	44	37	32	28	
5"	61	61	61	61	61	61	61	60	51	44	39	
6"	61	61	61	61	61	61	61	61	61	54	47	
8"	61	61	61	61	61	61	61	61	61	61	61	

Panel Weight

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

Thermal Insulation

R	Panel Nominal Thickness (in)						
	2"	2½"	3"	4"	5"	6"	8"
PIR - 75° F Mean Temp (23.9 °C) According to ASTM C518							
m²K/W	2.48	3.10	3.72	4.96	6.20	7.44	9.92
H ft² F/Btu	14.08	17.61	21.13	28.17	35.21	42.25	56.34
PIR - 35° F Mean Temp (1.67 °C) According to ASTM C518							
m²K/W	2.77	3.46	4.16	5.54	6.93	8.32	11.09
H ft² F/Btu	15.75	19.69	23.62	31.50	39.37	47.24	62.99

Distance Multiple Supports												
Meters	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	
Feet	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	
Panel Thickness	Steel Sheets 26/26 (Ga) - PIR with 10% Safety Factor											
2"	57	47	39	34	30	27	24	22	20	18	16	
2½"	61	56	47	41	36	32	29	26	24	22	20	
3"	61	61	51	44	39	35	31	28	26	24	22	
4"	61	61	61	60	57	51	46	42	37	33	30	
5"	61	61	61	61	61	58	52	48	43	39	35	
6"	61	61	61	61	61	60	54	49	45	41	37	
8"	61	61	61	61	61	61	61	60	54	50	47	

Dimensional Tolerance

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

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

"The load chart above does not apply to ceilings. Project-specific load calculation requirements must be determined by the design team and/or structural engineer. Charts are reference only, contact Isocindu's technical area for more information

Joint Section

