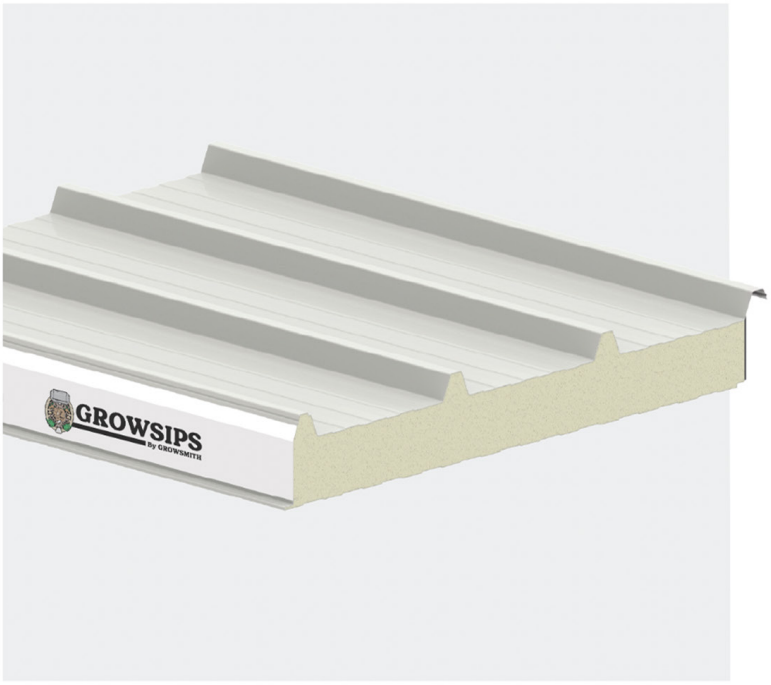
GROWSIP Ceiling Panel



Features

A double-steel sheet ceiling panel, insulated with rigid foam. This design caters to “low sloped” pitched roofs. External face with 4 trapezoidal rows to enhance static and dynamic forces. Panels have exposed fastening system that includes saddle clips at each anchoring point. System applicable to incorporate within a multitude of roofing sub-structures.

Options

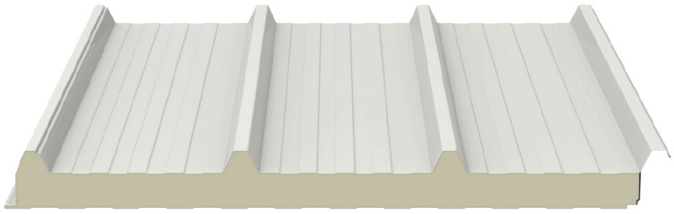
The panel is especially suited for use in industrial, warehouses, zootechnical, and residential construction. Versatility, load resistance and easy installation make Growsip Ceiling Panels a reliable solution for any kind of intervention, from new construction to roof refurbishing.

Benefits

- Rust resistance
- High mechanical strength
- Hygienic and easy wash material
- Mold and humidity resistance
- Gasket barrier to prevent vapor leaks

Specifications

Standard Lenght:	Typical panel lenght is 8′ up to a maximum of 54′ (Subject to transportation limitations)
Width	39 ⅜″
Joint:	Interconnecting male/female
Thickness:	1½″ 2″ 2½″ 3″ 4″ 5″ 6″ 8″
Exterior Face	Prepainted steel
Interior Face:	Shadowline profile
Foam Density:	2.49 LB/FT^3
Exterior Finish:	Polyester coating
Interior Finish:	Polyester coating
Joint Type:	Exposed





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

GROWSIP Ceiling Panel

Overload Wheelbase

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 24/24 (Ga) - PIR with 10% Safety Factor										
2"	61	50	42	37	33	27	22	18	14	12	10
2½"	61	61	52	45	40	35	28	23	19	16	13
3"	61	61	61	54	48	42	35	29	24	20	17
4"	61	61	61	61	61	56	48	41	35	30	26
5"	61	61	61	61	61	61	61	54	46	40	35
6"	61	61	61	61	61	61	61	61	58	51	45
8"	61	61	61	61	61	61	61	61	61	61	61

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 24/24 (Ga) - PIR with 10% Safety Factor										
2"	52	42	36	31	27	24	22	20	18	16	14
2½"	61	52	44	38	34	30	27	24	22	21	19
3"	61	61	53	46	40	36	32	29	27	25	23
4"	61	61	61	60	53	47	43	39	35	31	28
5"	61	61	61	61	59	53	47	43	39	35	32
6"	61	61	61	61	61	56	51	46	42	38	35
8"	61	61	61	61	61	61	57	52	48	44	41

Panel Weight

Steel thickness		Panel Nominal Thickness (in) 1½"	2"	2½"	3"	4"	5"	6"	8"
26/26	PSF	2.05	2.14	2.24	2.33	2.52	2.70	2.89	3.27
24/26	PSF	2.42	2.51	2.61	2.70	2.85	3.04	3.26	3.64
24/24	PSF	2.75	2.85	2.94	3.04	3.22	3.41	3.60	3.97
22/26	PSF	2.70	2.70	2.88	2.98	3.16	3.35	3.54	3.91

Dimensional Tolerance

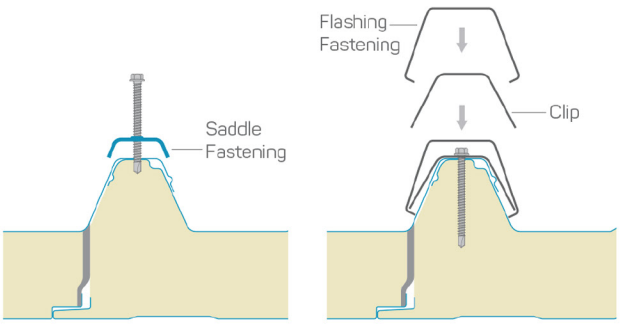
Lenght	L ≤ 9' 10" ± 1/8" L > 9' 10" ± 3/8"	Perpendicularity Deviation	1/4"
Working Lenght	± 2 mm	Misalignment of the internal metal surfaces	± 1/8"
Thickness	D ≤ 4" ± 1/16" D > 4" ± 2 %	Bottom Sheet Coupling	F = 1 + 1/8"

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

Thermal Insulation

R	Panel Nominal Thickness (in) 1½"	2"	2½"	3"	4"	5"	6"	8"
	75° F Mean Temp (23.9 °C) According to ASTM C518							
m²K/W	1.86	2.48	3.10	3.72	4.96	6.20	7.44	9.92
H ft² F/Btu	10.56	14.08	17.61	21.13	28.17	35.21	42.25	56.34
	35° F Mean Temp (1.67 °C) According to ASTM C518							
m²K/W	2.08	2.77	3.46	4.16	5.54	6.93	8.32	11.09
H ft² F/Btu	11.81	15.75	19.69	23.62	31.50	39.37	47.24	62.99

Joint Section



Overlapping

D = 4" -6" - 8" - 10"

