

IP44 Non-Suspended Ceiling

AWIP ALLOWABLE LOAD TABLE

IP44 Non-Suspended Ceiling Allowable Load Table (psf)

Panel Strength, Deflection Limit, and Cold Storage Consideration¹¹

Exterior/Interior Profile	Panel Thickness	Single Span Condition	
		10 psf	20 psf
Mesa/Mesa Or Mesa/Flat	2	12'-4"	9'-4"
	2.5	14'-5"	11'-0"
	3	16'-5"	12'-7"
	4	20'-0"	15'-5"
	5	23'-3"	18'-1"
	6	26'-3"	20'-6"
	8	31'-11"	25'-1"
Flat/Flat Or Flat/Mesa	2	11'-10"	8'-8"
	2.5	13'-11"	10'-4"
	3	15'-10"	11'-11"
	4	19'-5"	14'-9"
	5	22'-8"	17'-5"
	6	25'-9"	19'-11"
	8	31'-4"	24'-6"

Notes:

1. Load span table is based on Allowable Stress Design (ASD).
2. Table is based on values derived from transverse load testing per ASTM E72.
3. Panel properties are based on **26 gauge exterior** and **26 gauge interior** facings. Inquire about other gauges.
4. The Deflection Limit is L/180.
5. Allowable spans are calculated based on a minimum 10 PSF or 20 PSF.
6. 20 PSF Live Load design on ceiling is required for any periodic maintenance access.
7. Safety Factor = 2.5 for buckling, 3.0 for core shear.
8. Connections must be designed separately depending on type of support at panel ends.
9. Panel weights can be found on a separate Panel Weights Table.
10. Structural design of ceiling supports has not been considered and must be designed the support professional.
11. Thermal effects for cold storage applications have been considered. Inquire about temperature-controlled storage above ambient temperatures.
12. Consult your AWIP representative for project specific calculations.
13. Load tables are subject to change without notice - visit www.awipanel.com for the latest information.



All Weather
Insulated Panels

1 (888) 970-AWIP (2947)
awipanel.com
sales@awipanel.com



Scan for the most current product information



In accordance with ongoing efforts to improve our products and their performance, All Weather Insulated Panels reserves the right to change without notice the specifications contained herein. The contents herein are for general information and illustrative purposes only and are not intended to serve as any type of advice. Every effort is made to ensure the accuracy of the information included in this brochure and it is believed that the information contained herein is accurate and reliable as of the date of this publication. All Weather Insulated Panels does not warrant or represent the accuracy or reliability of any information included in this collateral. Any reliance of any information without consultation with All Weather Insulated Panels or a duly authorized representative shall be at the user's own risk. Copyright 2024 All Weather Insulated Panels – All rights reserved.