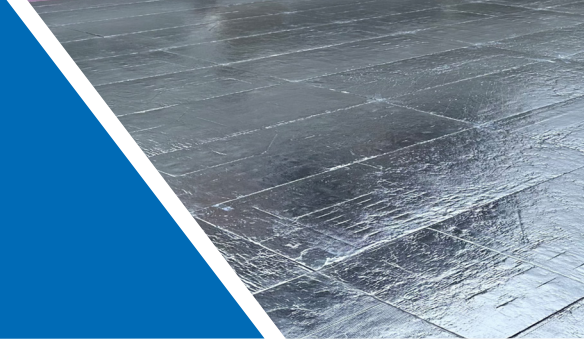


ADVANC-R®*

Vacuum Insulation Panel

Description:

Vacuum Insulation Panels (VIP) consist of a highly porous glass wool structure with absorbents in a vacuum sealed aluminum laminate bag providing outstanding thermal resistance.

VIP Panels offer a solution that enables the building to achieve more stringent building code requirements for higher R-values while minimizing the commercial roofing system's profile, reducing the likelihood of costly building modifications and increasing internal space.

Advanc-R® systems should not be penetrated or cut, therefore can only be installed in adhered or inverted applications. Many VIP systems work in conjunction with both polyiso and XPS insulation panels. These panels are required at a similar thickness, 4" – 6" in from all parapets, obstructions and perimeters, to protect the VIP. Each VIP system comes with a roof design which ensures the ratio of panels to infill, maximizing the R-value of the project. Each layout will illustrate size, number and location of each panel on the roof.

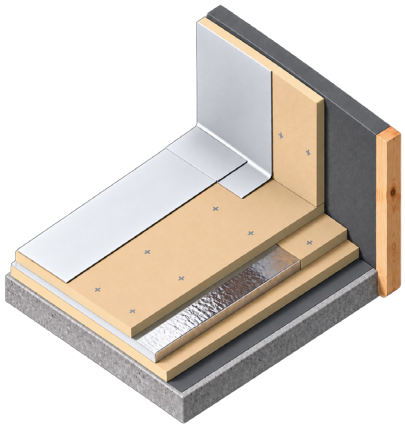
Siplast Design Services will assist with design take-offs for Advanc-R® systems. Whenever possible we will offer a take-off that will simplify and make the installation most efficient for the contractor.

Panasonic Advanc-R® Features and Benefits:

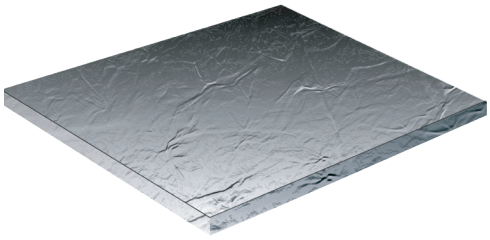
- Thinner profile – high thermal value
- Consists of 100% non toxic materials
- As much as 97% (by weight) can be recycled†
- Two standard-sized panels – faster, easier installation

System Approvals:

- Approved component in commercial roof systems:
  - Single Ply Roofing Systems
  - Inverted Roofing Systems
  - Balcony and Terrace Systems
  - Modified Bitumen with a cover board







Advanc-R® Panel Characteristics:

Size	Weight lbs.	PCS/Box
22.4" x 24" x .94"	5.1	66
22.4" x 48" x .94"	10.1	33

NOTE: Full boxes only

Advanc-R® Codes and Approvals:

- FM Approved — refer to RoofNav.com for specific assemblies
- Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies
- ETL Intertek
- Manufactured and certified to ISO 9001:2015, ISO 14001:2015
- ASTM C1667
- ASTM C165
- ASTM D212
- ASTM E84
- ASTM C1363
- ASTM D2126
- ASTM C1484

FM APPROVED UL CERTIFIED ETL Intertek

* ADVANC-R® is a registered trademark of Panasonic Corporation for North America. Copyright 2021.

† Actual recycled amount may depend on recycler's capabilities. Please recycle in accordance with local environmental regulations.

ADVANC-R®

Vacuum Insulation Panel

Product Specifications:

PART NUMBER	R-VALUE CENTER OF PANEL‡	WIDTH		LENGTH		THICKNESS		WEIGHT		AREA		PANELS PER BOX
	FT² F-H / BTU	IN	MM	IN	MM	IN	MM	LB	KG	FT	M	
TZC3500E-U	66	22.4	570	24.0	610	0.94	24	5.1	2.3	3.74	0.35	66
TZC3490E-U	66	22.4	570	48.0	1220	0.94	24	10.2	4.6	7.49	0.70	33

CATEGORY	VALUE	TEST
Flame Spread Index‡	Class A (25)	ASTM E84
Smoke Development Index‡	Class A (10)	
Density‡	18.08 lbs/ft	ASTM C1667
Compressive Strength @ 25%‡	34.6 PSI	ASTM C165
Thermal and Humid Aging (after 2 weeks)‡	7.43%	ASTM D2126
Service Temperature	-40˚F to 140˚F / -40˚C to 60˚C	

‡ Based on independent third-party testing at time of publication.

Warnings and Limitations:

- Refer to the application specifications in the current membrane manufacturer's application and specifications manual for proper installation procedures.
- Material delivery should be carefully coordinated with the schedule for roofing operations to minimize job site storage time. Whenever possible, store boxes over finished surfaces rather than on dirt or grass to avoid upward transpiration of moisture and the accumulation of condensate. Consider interior storage offering dry, well-ventilated conditions when the Advanc-R® is to be stored for more than 14 days prior to installation. All boxes should be covered with a waterproof tarpaulin.
- Panels cannot come into contact with solvent based adhesive systems, solvents, or acids.
- Avoid foot traffic over panels until protection layers and final finish has been installed.

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