

ADVANC-R[®] VACUUM INSULATION PANEL

APPLICATIONS

- ADVANC-R[®] is your answer to achieving higher R-value requirements, especially in re-roofing situations, where there are space constraints preventing a thicker roof profile
 - Re-roofing of commercial buildings
 - New commercial building roofs
 - Residential building with limited slopes



Find us in
MasterSpec[®]
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SPECIFICATIONS

- Architectural specification assistance available in MasterSpec

STANDARDS AND APPROVALS

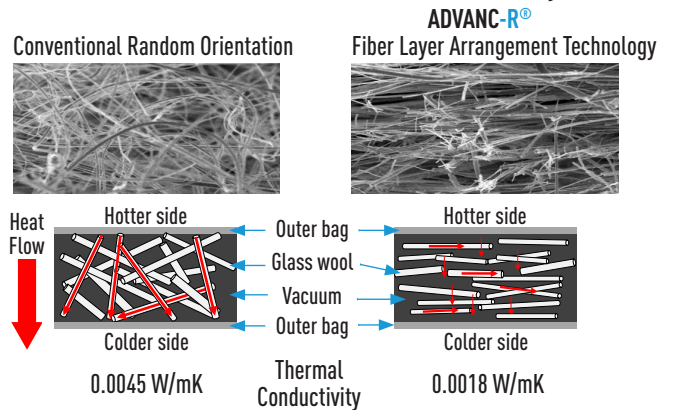
- Intertek ETL: Control Number (CN) 5023792
- ASTM C1484: Super-Insulation Standards
- Factory Mutual 4470: Single-Ply, polymer-Modified Bitumen Sheet, Built-Up Roof (BUR) and Liquid Applied Roof Assemblies for use in Class 1 and Noncombustible Roof Deck Construction



PRODUCT COMPOSITION

- Panasonic's ADVANC-R[®] VIP is comprised of a highly porous glass wool structure, absorbents and adsorbents in a vacuum sealed aluminum laminated bag
- The vacuum drastically reduces the transfer of heat through VIP. Our patented Fiber Layer Arrangement Technology (FLAT) radically improves thermal performance by aligning the glass wool to significantly reduce thermal conductivity by 60% (vs. conventional random orientation)

Glass Wool Orientation Effect on Thermal Conductivity



- ADVANC-R[®] VIP is manufactured in facilities with:
 - ISO 9001: 2015 Quality Management Systems
 - ISO 14001: 2015 Environmental Management Systems

CATEGORY	VALUE	TEST
Flame Spread Index ⁽¹⁾	Class A (25)	ASTM E84
Smoke Development Index ⁽¹⁾	Class A (10)	
Density ⁽¹⁾	18.08 lbs/ft ³	ASTM C1667
Compressive Strength @ 25% ⁽¹⁾	34.6 PSI	ASTM C165
Thermal and Humid Aging (after 2 weeks) ⁽¹⁾	7.43%	ASTM D2126
Service Temperature	-40°F to 140°F / -40°C to 60°C	

Disclaimer: ⁽¹⁾ Based on independent third-party testing at time of publication. ⁽²⁾ Actual recycled amount may depend on the recycler's capabilities. Please recycle in accordance to local environmental regulations. ⁽³⁾ Competition insulation R-values are based on publicly obtained information. ADVANC-R[®] is a registered trademark of Panasonic Corporation of North America. Copyright © 2021, Panasonic Corporation of North America. All Rights Reserved. Specifications are subject to change without notice.

ADVANC-R[®] VACUUM INSULATION PANEL

PRODUCT HANDLING

- The outer bag of ADVANC-R[®] must not be damaged or compromised such that it loses its vacuum
- Neither sizes can be changed or modified
- Read ADVANC-R[®] Handling & Installation guidelines for more details

PACKAGING

- Utilizing special packaging for easy access to ADVANC-R[®]. Outer sleeve can be lifted over VIP. Take inner sleeve apart from tape and remove the inner sleeve.

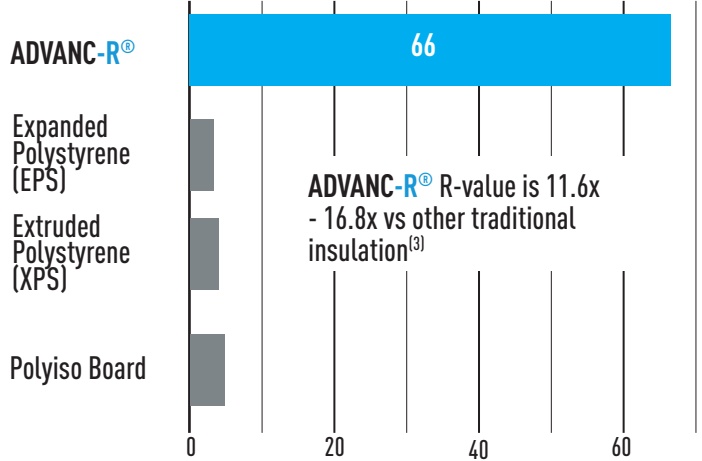
ROOF TAKE-OFF

- For information on optimizing ADVANC-R[®] layouts for commercial building roofs, please contact Panasonic Building Products Team: +1-201-392-4424 or building@us.panasonic.com

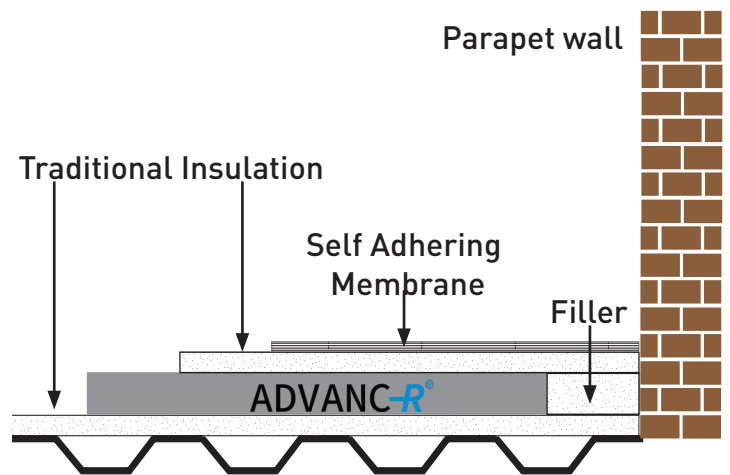
INSTALLATION

- Recommend inserting ADVANC-R[®] between protective layers
- In order to maximize R-value, we recommend staggering the seams of each layer of the roofing system
- Only use Roofing System Manufacturers approved adhesives to attach our ADVANC-R[®] to other layers of the roofing system. Do not use fasteners, screws, nails, staples, etc
- ADVANC-R[®] should be installed at least 4 to 6" away from parapet walls, mechanical roof penetrations, or any other obstructions on the roof
- Stepping on the VIP may compromise the outer bag
- Ensure no foreign or sharp objects (burrs, metal shavings, screws, nails, etc) touch the ADVANC-R[®]
- Read ADVANC-R[®] Handling & Installation guidelines for details

COMMERCIAL ROOFING INSULATION: R-Value



Cross Section of Metal Deck



Layer of ADVANC-R[®] on a rooftop



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