

VPG-Flat

Polyisocyanurate Insulation



PRODUCT OVERVIEW & FEATURES

VPG-Flat is a rigid roof insulation panel composed of a closed cell polyisocyanurate foam core manufactured on-line to fiber reinforced facers on each side.

- Manufactured with NexGen Chemistry: Contains no CFCs, HCFCs, is Zero ODP, EPA Compliant, and has virtually no GWP
- Approved for direct application to steel decks
- Approved under all major roof covering systems – BUR, modified and single-ply
- Available in two grades of compressive strengths per ASTM C1289 Type II, Class 1 Grade 2 (20 psi) or Grade 3 (25 psi)
- Available in 4'x4' (1220mm x 1220mm) and 4'x8' (1220mm x 2440mm) panels in thicknesses of 1" (25mm) to 4.5" (114mm)

APPLICATION

Single-Ply Systems

Ballasted Single-Ply Systems

Each VPG-Flat panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

Mechanically Attached Single-Ply Systems

Each VPG-Flat panel must be secured to the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

Fully Adhered Single-Ply

Each VPG-Flat panel must be secured to the roof deck. Maximum 4'x4' (1220 mm x 1220 mm) panels of VPG-Flat may be adhered to a prepared concrete deck or subsequent layers of insulation with a full mopping of hot steep asphalt, insulation adhesive or cold-applied mastic. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications

Built Up, Coal Tar & Modified Bitumen Systems (APP, SBS)

Each VPG-Flat panel must be secured to the roof deck. Maximum 4'x4' (1220 mm x 1220 mm) panels of VPG-Flat may be adhered to a prepared concrete deck or subsequent layers of insulation with a full mopping of hot steep asphalt, insulation adhesive or cold-applied mastic. Butt edges and stagger joints of adjacent panels. Install the roof covering according to the manufacturer's specifications.

CODES AND COMPLIANCES

- ASTM C 1289 Type II, Class 1 Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- Miami Dade County Product Control Approved

UL Classifications

- UL 1256
- Insulated Metal Deck Construction Assemblies – No. 120, 123, 292
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies

UL Classified for use in Canada

- Refer to UL Directory of Products Certified for Canada
- CCMC 13460-L
- UL Certified for Canada, CAN/ULC-S126, CAN/ULCS101, CAN/ULC- S107
- CAN/ULC-S704 Type 2, Class 3 (20 psi) or Type 3, Class 3 (25 psi)

Factory Mutual Approvals

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions for 1-60 to 1-270. Refer to FM Approval's RoofNav for details on specific systems

LEED POTENTIAL CREDITS

Energy and Atmosphere

- Optimize Energy Performance
- Measurement & Verification

Materials & Resources

- Material Reuse
- Construction Waste Management
- Recycled Content
- Local and Regional Materials



3812 East 91st Street • Cleveland, OH 44105

Fax: (800) 350-2307

Phone: (800) 350-2142

www.vikingpg.com

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WARNINGS AND LIMITATIONS

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Viking Products Group will not be responsible for specific building and roof design by others, for Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. VPG will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. The technical specifications in this literature are intended to be used as general guidelines only and are subject to change without notice.

DATA & TESTING

Compressive Strength (ASTM D 1621)	20 psi* (138 kPa, Grade 2)
Dimensional Stability (ASTM D 2126)	2% linear change (7 days)
Moisture Vapor Transmission (ASTM E 96)	<1 perm (57.5ng/(Pa•s•m ²))
Water Absorption (ASTM C 209)	<1% volume
Flame Spread** (ASTM E 84)	<75
Smoke Developed** (ASTM E 84)	<450
Service Temperature	-100°F to 250°F (-73°C to 122°C)

*Also available in 25 psi, Grade 3

**Meets the requirements of the IBC code. For specific Flame spread or smoke

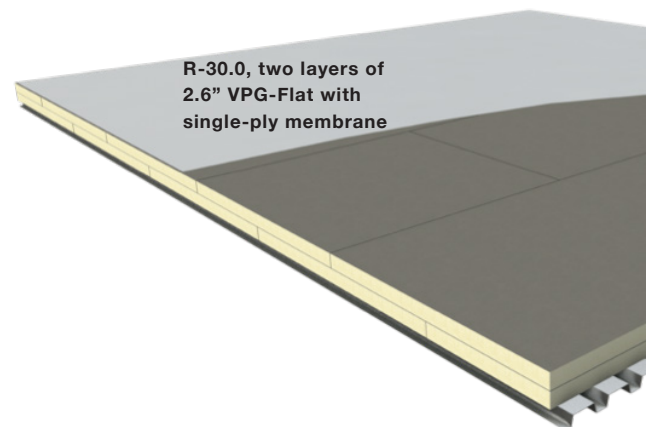
Developed Ratings - please contact Viking Products Group Technical Department.

THERMAL VALUES*

THICKNESS (MM)	LTTR R VALUE*	FLUTE SPANABILITY
1.00 (25)	5.7**	2 5/8"
1.50 (38)	8.6	4 3/8"
1.80 (46)	10.3**	4 3/8"
2.00 (51)	11.4	4 3/8"
2.50 (64)	14.4	4 3/8"
2.60 (66)	15.0	4 3/8"
3.00 (76)	17.4	4 3/8"
3.50 (89)	20.5	4 3/8"
3.80 (97)	22.3	4 3/8"
4.00 (102)	23.6	4 3/8"
4.30 (109)	25.5	4 3/8"
4.80 (114)	26.8	4 3/8"

*NEW Long Term Thermal Resistance Values are based on ASTM C 1289, effective 1/1/2014, which provides updated 15-year time weighted averages.

**Updated 7/16 When VPG-Flat foam thickness is greater than 3.5", Viking Products Group recommends the installation of a two-layer system with staggered joints.



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