

Protected by



Insulated Panel Systems
North America

Introducing QuadCore[®] Technology

It's all in the gray cells – the smarter way to build for better fire,
thermal, health & wellness and warranty



POWERED BY
QuadCore[®]
TECHNOLOGY



It's all in the gray cells...

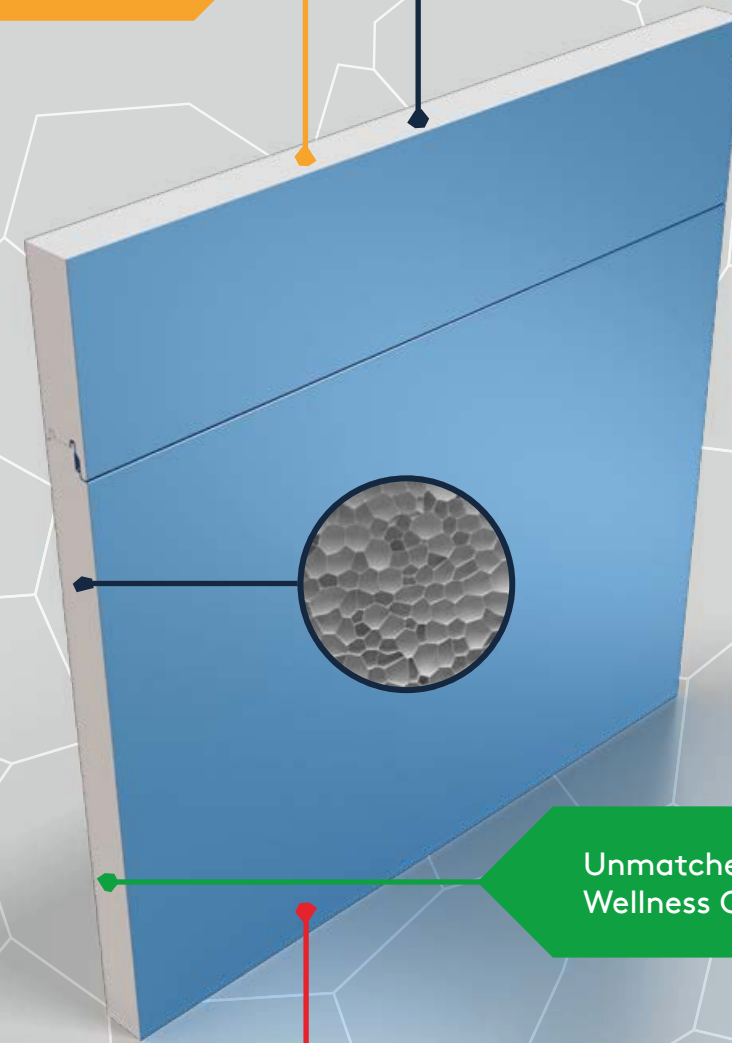
QuadCore® is Kingspan's new hybrid insulation core technology with a unique formulation that creates microcells with unrivaled thermal performance, superior fire protection and unmatched health & wellness certification.



Unrivaled Thermal Performance



30-Year Thermal Warranty



Unmatched Health & Wellness Certification



Superior Fire Protection

POWERED BY
QuadCore
TECHNOLOGY

Unrivaled Thermal Performance



Certified to be the best.

The class-leading R-value of R-8.0 per inch means QuadCore® Technology is certified as one of the most thermally efficient closed cell insulation core on the market.

11%

better than high-quality PIR

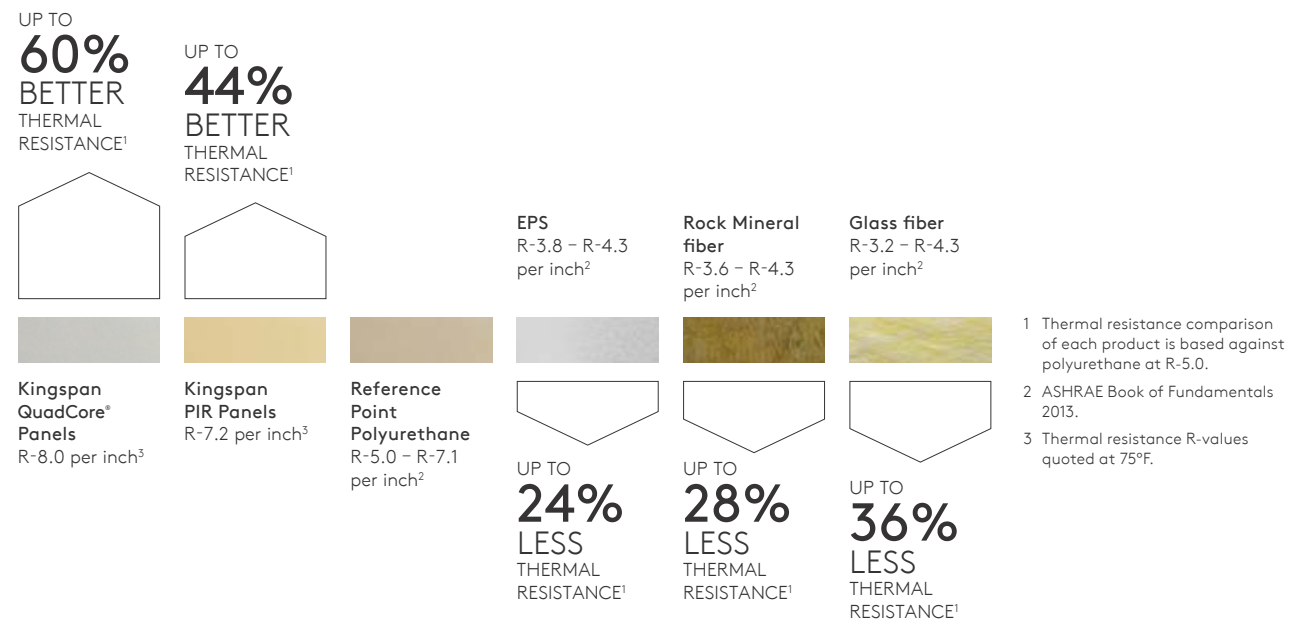
Up to 60%

better than PUR

Around twice

the performance of rock mineral fiber

Thermal resistance comparison assumes same thickness of insulation material.



Delivering Low Energy Buildings.

With an 'envelope first' design approach, the superior R-value of a QuadCore® envelope also has the potential to reduce HVAC system sizing as well as energy usage and carbon emissions.

Superior Fire Performance



Certified to the highest insurance and regulatory standards.

The hybrid nature of QuadCore® Technology delivers a range of unique improvements in fire performance.

FM 4882 for smoke sensitive occupancies

Kingspan insulated metal panels (IMPs) featuring QuadCore® Technology were the first closed-cell insulated panels in the world to achieve FM 4882 certification (the FM Global insurance standard for smoke sensitive occupancies).

Improved Fire Resistance Ratings

Lower smoke, higher ignition point, less heat released – these are all key fire performance attributes that make IMPs featuring QuadCore® Technology far superior than conventional IMPs.



Non-insurer approved PIR



QuadCore® Technology

Images shown left are from an EN11925-3 comparative test using a roofer's torch fire source. The lower smoke emissions of QuadCore® can be clearly seen. See the video below for these independent tests and to see the extensive suite of independent tests that QuadCore® is subjected to from around the world.



For a full list of Kingspan FM and other fire compliance certifications, please visit kingspanpanels.com

Full Scale Testing Compliance

NFPA 285 and CAN/ULS-S102 compliant systems featuring QuadCore® Technology are available for peace of mind.



Test set up – Kingspan insulated panels installed in a full scale NFPA 285 test.



During the test a fire source simulates fire coming out of a window opening.



End of test showing the insulated panel system does not contribute to fire spread.

Up to 85%
lower smoke developed
index (ASTM E84)

Than industry averages

Unmatched Health & Wellness Certification



It's about the human environment, not just the built environment.

QuadCore® Technology is paving the way as the only insulated metal panel core in North America to achieve a trusted range of health & wellness certifications*.



Certified Low VOCs

QuadCore® Technology is independently certified to the highest levels for low VOC emissions, ensuring that it is not harmful to building occupants and does not adversely impact indoor environment quality (IEQ). Plus, certification ensures compliance with California's CDPH Standard Method Section 01350.



Material Transparency & Disclosure

QuadCore® Technology has achieved a C2C Certified Material Health Certificate™ Silver classification and is certified not to contain any Banned List chemicals above the relevant thresholds. Following an ABC-X assessment, it is also certified not to contain chemicals known or suspected to cause cancer, birth defects, genetic damage, or reproductive harm (CMRs).

Rating Credits:

- LEED v4 and v4.1: All BD+C and O+M.
- Living Building Challenge: Contributes to the LBC Materials Petal.
- WELL: Mind Feature 97, Material Transparency.

C2C Certified Material Health Certificate™ is a trademark of the Cradle to Cradle Products Innovation Institute.



Environmental Product Declaration (EPD)

The third-party verified EPD for QuadCore® Technology tells the life cycle story in a single, written report, focusing on information about the product's environmental impacts, such as global warming potential (GWP), smog creation, ozone depletion potential (ODP), and water pollution.

Rating Credits:

- LEED v4 and v4.1: All BD+C and O+M.

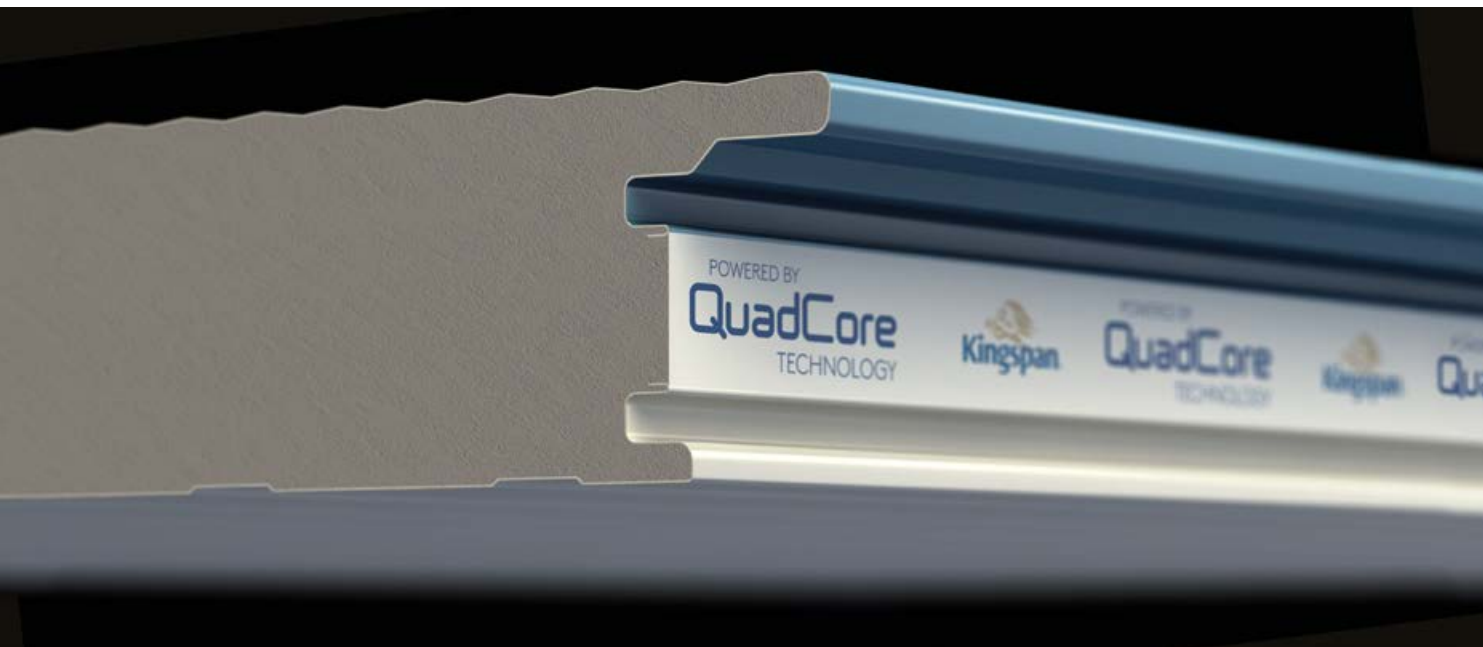
*Correct at date of publishing.

30-Year Thermal Warranty



The industry's longest thermal performance warranty.

The inimitable science behind QuadCore® Technology and comprehensive independent third-party testing has delivered the industry an unparalleled 30-year thermal performance warranty.



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For the product offering in other markets please contact your local sales representative or visit our website.

To ensure you are viewing the most recent and accurate product information, please visit www.kingspanpanels.us or www.kingspanpanels.ca.

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