



# Kingspan Commercial Building Products

INNOVATIVE ENERGY EFFICIENCY SOLUTIONS



# Kingspan Commercial Building Solutions

Kingspan Insulation LLC is a leading manufacturer in energy efficiency and moisture management products, offering high performance insulation, building wraps and pre-insulated HVAC ductwork. Kingspan Insulation is part of the Kingspan Group plc, a global leader in a range of product divisions including pre-insulated building panels, environmental technologies and renewable energy technologies. Its products are among the most thermally efficient and technologically advanced insulation materials available. Kingspan's products help reduce the impact buildings have on the environment throughout their lifecycle through increased efficiencies.

## OPTIM-R®

### NEXT GENERATION INSULATION

*Kingspan* **OPTIM-R®** is a next-generation insulation comprising rigid vacuum insulation panels (VIP) with a microporous core, which is evacuated, encased and sealed in a thin, gas-tight envelope to give outstanding R-values and an ultra-thin insulation solution. The high level of thermal efficiency—up to R-28 on 1 inch and R-57 on 2 inch using calculated edge thermal resistance properties—combined with minimal thickness, provides an ideal solution for applications where a lack of construction space or depth is an issue such as commercial roofing for single-ply low slope and IRMA systems.

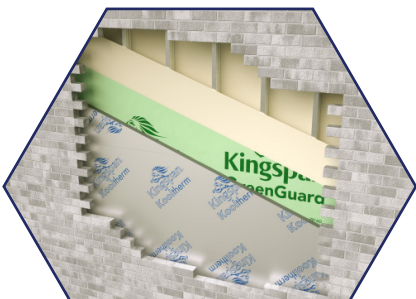
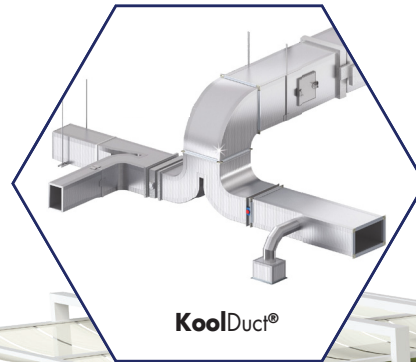
## The Kingspan **KoolDuct®** System

### PREMIUM PERFORMANCE PRE-INSULATED DUCTWORK

The *Kingspan* **KoolDuct®** System is an advanced and innovative pre-insulated HVAC ductwork system which offers benefits such as reduced installation time, low weight, space savings through flush-to-ceiling installation, increased performance and energy efficiency. *Kingspan* **KoolDuct®** is UL 181 listed and can easily attain a SMACNA Class 3 air leakage.



**GreenGuard®** Type VII  
XPS Insulation Board



**Kooltherm®** K12  
Framing Board



**GreenGuard®** Type IV  
XPS Insulation Board



# Kooltherm®

## PREMIUM PERFORMANCE RIGID THERMOSET INSULATION

Kingspan **Kooltherm**® offers an extensive range of premium performance insulation products for wall, floor, soffit (structural ceiling) and concrete sandwich wall system applications. It has a fiber-free rigid thermoset phenolic insulation core that resists both moisture and water vapor ingress, and has excellent fire performance characteristics.

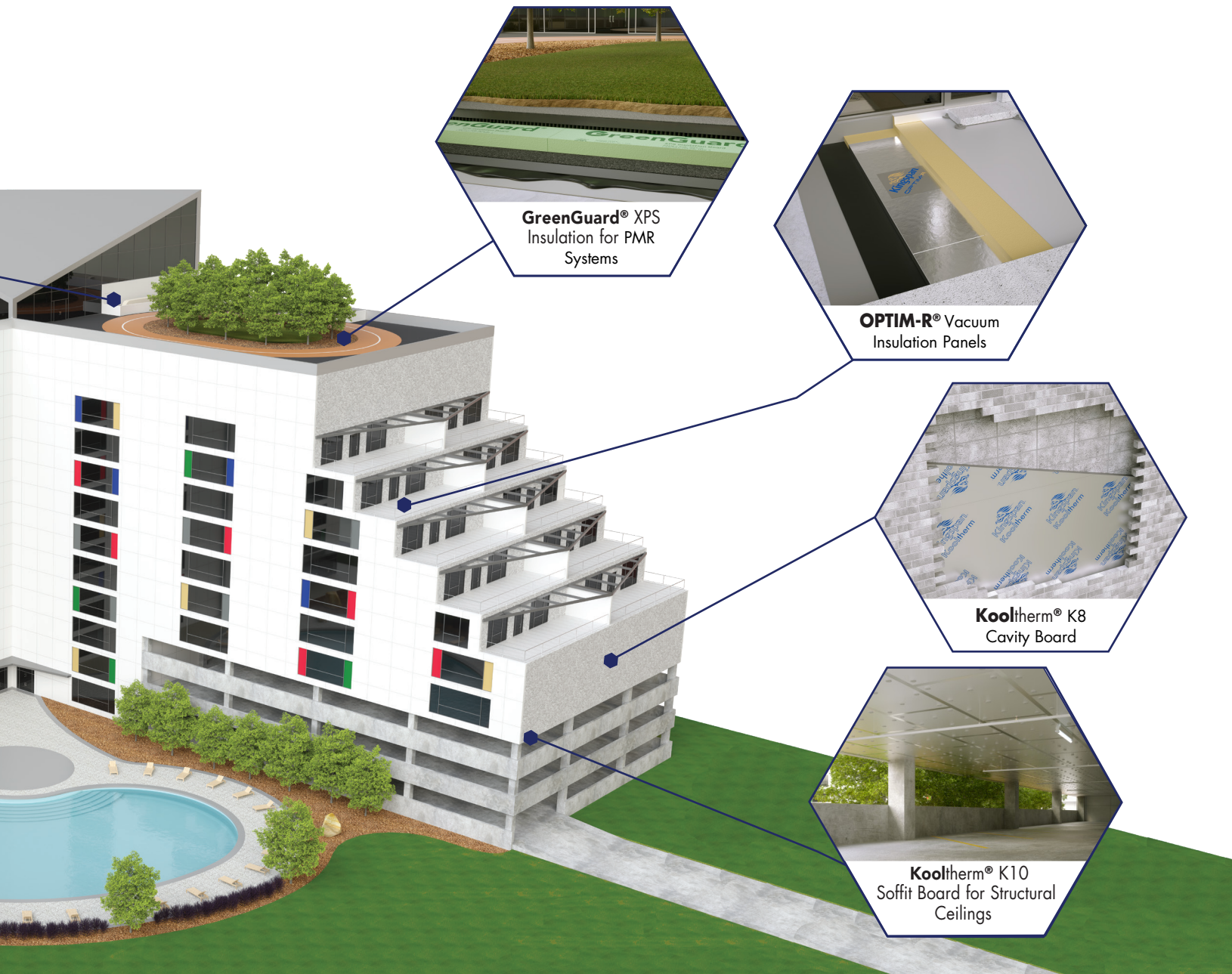
- Highest R-value per inch among commonly used insulation
- Excellent fire and smoke performance
- Lower total construction cost
- Higher ROI on building design

# GreenGuard®

## EXTRUDED POLYSTYRENE (XPS) INSULATION BOARD

Kingspan **GreenGuard**® XPS Insulation Board is offered in various thicknesses and available in 25 psi and 40 psi, as well as 60 psi for high load-bearing applications. Rigid XPS insulation board can be used as general purpose insulation for roofing, wall and foundation applications requiring a minimum compressive strength.

- R-value of 5.0 per inch of thickness
- Retains insulating properties over time
- Does not absorb moisture
- Continuous Insulation (Ci) for walls and below grade floors



# Contact Details

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*For more information on specific building product recommendations and product data, contact your Kingspan Insulation LLC representative.*

*For the most current installation guidelines and compliance information go to [www.kingspaninsulation.us](http://www.kingspaninsulation.us).*



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