

Kingspan Insulated Roof Panels

- Green Star NZ/ Homestar/ BASE Summary Sheet -



Author	EnviroSpec Verification Services				
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Client	- BASE - Homestar V2.0 Kingspan				
Product name	Kingspan Insulated Roof Panels				
Product description	Kingspan insulated roof panels present a more efficient system compared to conventional multi-part site assembled systems. They are quicker to install, require less manual labour and offer good thermal performance.				

Manner in which the product may contribute towards points	Legend of Symbols in EnviroSpec
Products must meet specific criteria (e.g. Paint VOC emissions, carpets, etc)	✓
Products may help achieve points by their very nature, if they are specified and included in the design in accordance with Green Star NZ requirements (e.g. bicycle racks)	•
Products may help achieve an outcome but they must be used in a specific manner (e.g. lighting control and zoning systems) OR This product can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	0

Disclaimer

Please read this carefully

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The information presented in this report is valid for the Green Star® NZ tools nominated herein only. As and when the NZGBC brings out new Green Star® NZ tools, the information may require updating. EnviroSpec will only update information in this report upon receiving written consent from the Manufacturer, Supplier or upon request from the NZGBC. It is the responsibility of the reader to check for regular updates.



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Tool	Credit category	Points available ¹	Contribution symbol	Contribution Potential (points) ¹	Detail
Homestar V2.0	EHC - 6	15	0	Contribution potential	This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing. Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to level that are higher than required by Building Code to help achieve a better thermal performance of the building. Kingspan Insulated Panels have a good R-value to thickness ratio (e.g. R4 for 80mm thickness) and may offer an efficient solution for larger roof areas.
	EHC - 7	4.5	Ο	Contribution potential	This credit rewards the minimization of moisture accumulation and condensation within the property. Minimum levels of insulation are required to pass the mandatory requirements. Assuming the floor has an R value of at least R1.5, using Kingspan insulated roof panels can easily help achieve at least R 1.5 final construction value for walls and ceiling which provides 0.5 points. By increasing the insulation level to at least final construction values of R2.0 for wall, floor and ceiling and including efficient windows with R0.3, then this can provide an additional 1.1 points. The remaining points relate to moisture control, extraction, drainage and ventilation. Please refer to Technical Manual.
BASE	Credit 5	Minimum requirement	0	Contribution potential	This credit rewards buildings that are energy efficient in operation. Kingspan Insulated Panels has good R-Values which can assist in achieving the minimum R Value of R3.0 for roof/ceiling. Note: final R-Values for the building are dependent on the construction type of the walls/roof/ceiling and must be designed for accordingly by the Architect/Engineer.
Office 2009 + Industrial 2009 + Education 2009	ENE - 1	Conditional requirement	0	Contribution potential	This credit rewards buildings that are energy efficient in operation. Using Kingspan Insulated Roof Panels can help reduce heating requirements. Note: This will not prevent potential overheating and related increase in cooling requirements. It is the responsibility of the design team to ensure all aspects involved in the ENE 1 modeling are balanced to help minimize overall building energy use.
	EMI-3	1	4	1	This credit rewards the use Insulations products that contain no Ozone Depleting Substances in their content or Manufacture. The nominated Kingspan products satisfy these criteria.

¹ Points available and points achieved are considered pre-weighting. Final Green Star NZ/ Homestar/ BASE category weightings for each tool still apply.