

- Homestar Summary Sheet -

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Document Type
Green Building Rating Compatibility Analysis

Document Code
ES-GSNZ-13-76

Validity		
	Office 2009 + V3 / Interiors 2009 + V3 / Education 2009 + V3 + V3.1 / Industrial 2009 + V3	Not yet assessed
	Homestar V2 + V3+V4	✓
	V 1.1	Not applicable
	V3.0	Not yet assessed
	NABERSNZ	Not yet assessed
	Passivhaus	Not yet assessed
	Net Zero Energy Building	✓

Client
Maxraft

Product Name
Maxraft

Product Description
<p>An alternative way to install insulation under concrete slab and on edge. Maxraft provides a box shape insulation frame and gives zero thermal bridging. No traditional box is required for establishing concrete foundation.</p> 

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 installed (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)	○

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Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Homestar (V2 and V3)	EHC - 6	15	This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing.	○	Contribution potential	Maxraft can be used to create a complete under-slab and around edge insulation system. With optimal floor area to perimeter ratio, this will contribute towards positive thermal performance and can help achieve the mandatory minimum for 7 Star or above ratings.
	EHC-7	4.5	This credit rewards the minimisation of moisture accumulation and condensation within the property. Minimum levels of insulation are required to pass the mandatory requirements.	○	Contribution potential	Maxraft provides a good thermal performance to flooring and passes the mandatory minimum floor R-value of R1.5. Assuming the walls and ceilings are also insulated to at least this level will award 0.5 points under the "minimizing condensation" category. With optimal floor area to perimeter ratio it may be possible to achieve above R2.0, and assuming suitable insulation and performance of wall, ceiling and windows, this would allow to claim the maximum 1.6 points available in the "minimizing condensation" category. <i>The remaining points for EHC 7 are related to drainage and ventilation options. Please refer to the Technical Manual</i>
Homestar V4	EHC-1	20	This credit rewards the reduction of purchased energy associated with space heating and cooling of the house, through good design of the thermal envelope.	○	Contribution potential	The nominated product can be used to easily demonstrate compliance with the schedule method (upto 13 points), based on the R values. This ranges from R1.3 to R3.0 depending on the climate zone. If using Maxraft on a house that has Passivehouse certification or a total heating and cooling demand of < 15 kWh/m2 then up to 20 points can be achieved in this credit.
	EHC-4 (total 5 points)	3	<u>(1) Minimising Thermal Bridges</u> This credit rewards reduced condensation on or within building components, of which sub-category (1) awards points for constructions that reduce low surface temperatures.	✔	1 point (out of 1 available for floors)	The nominated product uses fully insulated slab with zero thermal bridging. It creates a box for pouring concrete slab with full under and edge insulation. The R values of the edge profiles range between R1.26 for 20mm EPS up to R1.55 for 50mm XPS. Thus satisfying the credit requirements for all climate zones.
		2	<u>(2) Minimising condensation</u> This credit rewards reduced condensation on or within building components, of which sub-category (2) awards points for constructions that include a continuous air and vapor control layer, and air leakage testing is undertaken during construction.	N/A	N/A	This section of the credit is not applicable to this product
Greenstar Office 2009+v3 + Interiors 2009+v3 + Education 2009+v3+v3.1 + Industrial 2009+v3	-	-		-	-	This product has not yet been assessed against this rating system.

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SBN Circular Economy Office Model V1.1	-	-		-	-	This product is not applicable to the scope of this rating system
Net Zero Energy Building	-	-	Achieving Net Zero energy requires a building with low heating and cooling loads to facilitate average annual electrical generation to meet the energy demand. This starts with a highly insulated and efficient thermal envelope.	○	Contribution potential	Maxraft can help achieve high R values for slab floors with no thermal bridging and is well suited to Net Zero Energy projects.