



Autex GreenStuf - thermal insulation

- Green Building Summary Sheet -



Author

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Document Type

Green Building Rating Compatibility Analysis

Document Code

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Validity

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

Client

Autex (New Zealand)

Product Name

GreenStuf – thermal insulation

Product Description

Autex GreenStuf® is a NZ made range of quality 100% polyester thermal insulation. GreenStuf® is non-irritant, non-toxic and thermally efficient insulation for residential, commercial and industrial applications. Manufactured using a minimum of 45% already recycled fibre (from PET plastic) and is completely recyclable and manufactured under a "zero waste policy" where off-cuts and waste are recycled back into the production process. Level A approved Eco Label certified. The Autex manufacturing operations are certified to ISO14001 standards.



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
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009	MAT - 5	1	This credit rewards the use of Environmentally preferable thermal insulation Products. The Autex GreenStuf thermal insulation range includes products certified by a Level A approved eco label, thus satisfying the requirement of this credit.	✓	1 point	All Autex GreenStuf products are manufactured in the same manner as Level A approved Eco label certification. In accordance with the Technical Clarifications (TC) and Credit Interpretation Requests (CIR) document published on the New Zealand Green Building Council (NZGBC) website to date, the lower R-value versions of GreenStuf thermal insulation may also contribute towards points.
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009 + Interiors 2009	EMI-3	1	This credit rewards the use of Insulation products that contain no Ozone Depleting Substances in their content or manufacture.	✓	1 point	Autex GreenStuf thermal insulation satisfies this criteria.
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors V3	MAT-3	5	<p>This credit rewards up to 5 points in total.</p> <p>CRITERIA A</p> <ul style="list-style-type: none"> Up to 3 points are allocated for the use of Environmentally preferable products (including Applied coatings, Insulation, Flooring, Internal walls and partitions). Each product type is worth up to 1 point. <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 0.5 points are awarded if > 50% of a selected product type complies - 1 point is awarded if > 90% of a selected product type complies. <p>CRITERIA B</p> <p>Up to 2 further points are allocated if "common uses of PVC" (including flooring and resilient wall coverings, pipes, wires and blinds) meet the GBCA Best Practice Guidelines or are PVC-free. 1 point is awarded if > 60% by cost complies and 2 points are awarded if > 90% by cost complies</p>	✓	Up to 1 point	<p>CRITERIA A.</p> <p>The nominated product has Level A approved eco label certification, contributing to up to 1 point (unweighted in the calculator.)</p> <p><i>Note: the remaining points in criteria A are achieved if the other product types also comply.</i></p>
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors V3	EMI-3	1	This credit rewards the use of Insulation products that contain no Ozone Depleting Substances in their content or manufacture.	✓	1 point	Autex GreenStuf thermal insulation satisfies this criteria.



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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	Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to levels that are higher than required by Building Code to help achieve a better thermal performance of the building. The nominated product(s) can help achieve this outcome.
	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	Assuming the nominated product has an R value of at least R1.5, using Greenstuf insulation 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. <i>The remaining points relate to moisture control, extraction, drainage and ventilation. Please refer to Technical Manual.</i>
	MAT-1	9	This credit rewards the use of eco-preferred and responsibly sourced materials. Insulation products are one of thirteen possible construction types eligible for 1 merit each.	✓	1 merit (out of 1 available for this construction system)	The nominated product has Level A approved eco label certification, thus satisfying the requirement of this credit. All Autex GreenStuf products are manufactured in the same manner as a Level A approved eco label certification. In accordance with the Technical Clarifications (TC) and Credit Interpretation Requests (CIR) document published on the New Zealand Green Building Council (NZGBC) website to date, the lower R-value versions of GreenStuf thermal insulation may also contribute towards points.
Homestar V4	EHC-1	20	This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing.	○	Contribution potential	Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to levels that are higher than required by Building Code to help achieve a better thermal performance of the building. The nominated product(s) can help achieve this outcome.
	EHC-4	5	This credit rewards measures that reduce condensation on and within building components to improve the indoor environment for occupants.	○	Up to 2 points	Provided there is no thermal bridging in the design from steel or concrete elements (or that these thermal bridges are isolated with insulation) then the nominated products can help achieve the minimum construction system R values required for Homestar.
	MAT-1	10	This credit rewards the use of eco-preferred and responsibly sourced materials. Insulation products are one of thirteen possible material categories eligible for 2 points each.	✓	2 points (out of 2 available for this material category)	The nominated product has Level A approved eco label certification, contributing to 2 points (unweighted in the calculator.), thus satisfying the requirement of this credit. All Autex GreenStuf products

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						are manufactured in the same manner as Level A approved eco label certification. In accordance with the Technical Clarifications (TC) and Credit Interpretation Requests (CIR) document published on the New Zealand Green Building Council (NZGBC) website to date, the lower R-value versions of GreenStuf thermal insulation may also contribute towards points.
Passivhaus	Exterior Building Component - Opaque	Pass/Fail	<p>Passivhaus accreditation requires the building to abide by 5 principles:</p> <ul style="list-style-type: none"> • good levels of insulation • minimal thermal bridges • passive solar gains and internal heat sources • excellent level of airtightness • good indoor air quality, provided by a whole house mechanical ventilation system with highly efficient heat recovery. <p>Opaque external building elements in a passive house must meet certain minimum U-value criteria depending on climate zone.</p> <p>NZ North Island is assigned "warm" climate zone (U-value required < 0.50) and NZ South Island is assigned "warm temperate" Climate Zone (U-value required < 0.25).</p>	○	Contribution potential	<p>The nominated product is of essential use to help achieve sufficient building envelope thermal performance.</p> <p>The thickness and R values of the insulation required will depend on the climate zone and other element products (such as framing).</p> <p>The system or element final U-value needs to be determined on a project basis by a certified Passive House Consultant, using approved software.</p>
Living Building Challenge	Imperative 10	Pass	This imperative restricts the use of products that contain Red List chemicals as nominated by the Living Building Challenge.		Pass	The nominated product complies with the Red list requirements.
	Imperative 12	Pass	This imperative encourages responsible industry when sourcing product and materials by rewarding the use of FSC certified timber and/or products that have Declare ingredients label.		Pass	The nominated product holds a valid Declare label.
SBN Circular Economy Office Model V1.1		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A