

<b>Product Name</b>	LowE Max/Xcel IGUs (double glazing, excluding framing)
<b>Document Type</b>	Green Building Rating Compatibility Analysis
<b>Document Code</b>	ES-GSNZ-21-100a
<b>Client</b>	Metro Performance Glass

LowE Max/Xcel IGUs (double glazing, excluding framing) from Metro Performance Glass are deemed slightly higher performance than the more traditional low e glass, and can help deliver R-values between 10% and 20% better than standard low e glazing thanks to the automatic inclusion of argon gas and a thermal spacer.



Homestar V4	EHC 1	Contribution potential
Homestar V5	EF 4 HC 1	Contribution potential Contribution potential



Living Building Challenge V3	Imperative 8	Pass
	Imperative 10	Pass
	Imperative 12	Pass
	Imperative 13	Pass
Living Building Challenge V4	Imperative 10	Pass
	Imperative 13	Pass
	Imperative 15	Pass

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 The nominated product(s) can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)	

**Disclaimer - Please read this carefully**

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Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
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 a significant contributor to project achieving compliance with the Thermal Comfort "Heating" mandatory minimum for the colder climate zones, or for higher ratings such as 7 star and above in climate Zone 1. <i>(The above refers to the selection of glass only, excluding frames. In regards to frames there may be a need to opt for thermally broken options when targeting higher ratings)</i>
	EF 4	20	This credit rewards dwellings that reduce operational energy consumption associated with the use of heating, hot water, ventilation, lighting and refrigerants within the home. It sets maximum delivered electricity benchmarks (kWh/m2/year) associated with operational energy (excluding appliances) for each star rating band.	○	Contribution potential	The nominated product can be a significant contributor to project achieving compliance with across all Climate zones. <i>(The above refers to the selection of glass only, thermally broken frames are mandated by default in Homestar V5)</i>
Homestar V5	HC 1	22	This credit rewards the reduction of purchased energy associated with space heating and cooling of the house, through good design of the thermal envelope. It sets different benchmarks for predicted space heating demand (kWh/m2/year of Conditioned Floor Area) for each Homestar rating.	○	Contribution potential	The nominated product can be a significant contributor to project achieving compliance with across all Climate zones. <i>(The above refers to the selection of glass only, thermally broken frames are mandated by default in Homestar V5)</i>

Rating Tool	Credit / category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Living Building Challenge V3	Imperative 10	Pass/Fail	This imperative restricts the use of products that contain Red List chemicals as nominated by the Living Building Challenge.	✓	Pass	The nominated product(s) meet the requirements.
	Imperative 12	Pass/Fail	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(s) holds a valid Declare label.
	Imperative 13	Pass/Fail	This imperative encourages local sourcing of materials to help sustain the local economy and reduce transportation cost. Only 25% of all materials by cost (materials construction budget) can come from any location, with the remaining having to adhere to distance sourcing restrictions.	✓	Pass	The nominated product(s) manufacturing plants are located in Auckland, Tauranga, Wellington and Christchurch, New Zealand.
Living Building Challenge V4	Imperative 13	Pass/Fail	This imperative restricts the use of products that contain Red List chemicals as nominated by the Living Building Challenge.	✓	Pass	The nominated product(s) meet the requirements.
	Imperative 14	Pass/Fail	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(s) hold a valid Declare label.
	Imperative 15	Pass/Fail	This imperative encourages local sourcing of materials to help sustain the local economy and reduce transportation cost. Only 25% of all materials by cost (materials construction budget) can come from any location, with the remaining having to adhere to distance sourcing restrictions.	✓	Pass	The nominated product(s) manufacturing plants are located in Auckland, Tauranga, Wellington and Christchurch, New Zealand.