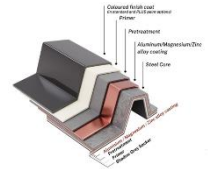


| | |
|----------------------|--|
| Product Name | Magnaflow longrun steel roofing / cladding (supplied to market by either Roofing Industries New Zealand, or Dimond Roofing) |
| Document Type | Green Building Rating Compatibility Analysis |
| Document Code | ES-GSNZ-21-97a |
| Client | ColorCote |

MagnaFlow is ColorCote's most innovative corrosion resistant pre-painted metal roofing product, with magnesium added technology. Magnesium allows the zinc/aluminum alloy-coated steel substrate to 'heal itself' along any cut or exposed edges of the material, which prevents premature corrosion. The product carries an EPD and when supplied to market by either Roofing Industries New Zealand, or Dimond Roofing then the product also carries GreenTag GreenRate Level A certification .

MagnaFlow



| | | |
|--------------------------------------|---------------|--------------------------------|
| Green Star Buildings | Credit 07 | Up to 4 points |
| Green Star Design & As Built NZ (V1) | Credit 19B.2A | Up to 1 point |
| | Credit 21 | Sustainability Factor (SF) = 1 |
| Green Star Interiors (V1) | Credit 21 | Sustainability Factor (SF) = 1 |



| | | |
|-------------|-------|----------------|
| Homestar V5 | EN3 | 1.5 points |
| Homestar V4 | MAT-1 | Up to 4 points |



| | | |
|------------------------------|---------------|----------------|
| Living Building Challenge V3 | Imperative 10 | Pass |
| | Imperative 12 | Pass |
| | Imperative 13 | Pass |
| Living Building Challenge V4 | Imperative 13 | Pass |
| | Imperative 14 | Pass |
| | Feature X14 | Up to 2 points |

| 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 |
|--------------------------------------|-------------------|------------------|---|---------------------|---|--|
| Green Star Buildings | Credit 07 | 4 | <p>The building's envelope is comprised of responsibly manufactured products.</p> <p><u>Credit achievement</u> – 1 point is available if 15% of all building envelope components (by cost) meet a RPV >10.</p> <p>2 point are available if 30% of all building envelope components (by cost) meet a RPV >10.</p> <p><u>Exceptional Performance</u> – In conjunction with the Credit Achievement stated above, 1 point is available if 5% of all building envelope components (by cost) meet a RPV >15 or 45% of all building envelope components (by cost) meet a RPV >10.</p> <p>2 points are available if 10% of all building envelope components (by cost) meet a RPV >15 or 60% of all building envelope components (by cost) meet a RPV >10.</p> <p><i>The envelope is defined as the elements that surround a building such as the façade, and all façade components such as external shading and insulation, suspended slabs, as well as roofing systems.</i></p> | ✓ | Up to 4 points | The nominated products hold GreenTag GreenRate level A certification, as well as a product specific EPD and a DECLARE red-list compliant label, which combined equate to RPV 22. |
| Green Star Design & As Built NZ (V1) | Credit 19 | 7 | <p>This is a sub-section of Credit 19 (Life Cycle Impacts). This credit section rewards a reduction in the mass of steel framing used when compared to standard practice. The reduced mass of steel framing can be demonstrated by one of the following design initiatives:</p> <ul style="list-style-type: none"> • High strength steel; or • Reduction in mass of steel framing by 5% when compared to a suitable reference building. <p>High Strength Steel - For this option, project teams must demonstrate that 95% of Category A products and 25% of Category B products meet the strength grades specified in Table 19B.2A.1 and Table 19B.2A.2, as applicable.</p> <p>Reduction in Mass - For this option, project teams must demonstrate that the project results in a 5% or more reduction in mass of steel framing, when compared to a suitable reference case building. To demonstrate compliance the Submission Template must be completed by a qualified Structural Engineer and require a number of justifications as prescribed by the Green Star Submission Guidelines.</p> | ✓ | Up to 1 point (out of 1 point available for this credit category) | <p>Table 19B.2A.1 identifies (amongst others) that roof sheeting and wall sheeting that has a minimum strength grade of 550MPa can be used to contribute towards the compliant products.</p> <p>ColorCote is able to provide CoC certificates that identify the strength grade (e.g. G550, G300, etc). These are available on request and the strength grade to be sourced should be clearly specified by the Design Team.</p> |
| | Credit 21 | 3 | <p>This credit rewards the selection of products that meet transparency and sustainability requirements. Points are awarded based on the Project Sustainability Value (PSV*) and comparing it with the Project Contract Value (PCV).</p> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 1 point is awarded if PSV > 3% of PCV - 1 point is awarded if PSV > 6% of PCV - 1 point is awarded if PSV > 9% of PCV <p><i>The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).</i></p> <p><i>The PSV = Sustainability Factor x cost of product</i></p> | ✓ | Sustainability Factor (SF) = 1 | <p>The nominated product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as :</p> <p>"Product Cost x 1".</p> |
| Green Star Interiors NZ (V1) | Credit 21 | 19 | <p>This credit rewards the selection of products that meet transparency and sustainability requirements. Points are awarded based on the Project Sustainability Value (PSV*) and comparing it with the Total Materials Cost (TMC).</p> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 3.8 points are awarded if PSV > 20% of TMC - 7.2 points are awarded if PSV > 40% of TMC - 11.4 points are awarded if PSV > 60% of TMC - 15.2 points are awarded if PSV > 80% of TMC - 19 points are awarded if PSV = 100% of TMC <p><i>The Project Sustainability Value is the sum of all the compliant product's "Product Sustainability Value" (PSV).</i></p> <p><i>The PSV = Sustainability Factor x cost of product</i></p> | ✓ | Sustainability Factor (SF) = 1 | <p>The nominated product holds a level A approved eco-label, therefore the Product Sustainability Value (PSV) can be calculated as :</p> <p>"Product Cost x 1".</p> |

| Rating Tool | Credit / category | Points available | Requirements | Contribution symbol | Contribution Potential | Details of compliance |
|-------------|-------------------|------------------|--|---------------------|------------------------|---|
| Homestar V5 | EN3 | 10 | This credit rewards the selection of eco-preferred and responsibly sourced materials, with twelve possible material categories eligible for up to 1.5 points each (up to a maximum of 10 points combined), provided > 50% of product compliance is achieved based on the relative weighting of individual product ecolabel certifications. | ✓ | Up to 3 points | The nominated product has a level A approved ecolabel, satisfying the requirements for this credit. If used for roofing and cladding then up to 3 points can be claimed (i.e. 1.5 points for each application). |
| Homestar V4 | MAT-1 | 10 | This credit rewards the selection of eco-preferred and responsibly sourced materials, with thirteen possible material categories eligible for up to 2 points each (up to a maximum of 10 points combined), provided > 50% of product compliance is achieved based on the relative weighting of individual product ecolabel certifications. | ✓ | Up to 4 points | The nominated product has a level A approved ecolabel, satisfying the requirements for this credit. If used for roofing and cladding then up to 4 points can be claimed (i.e. 1.5 points for each application). |

| 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 plant is located in Auckland, 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 plant is located in Auckland, New Zealand. |