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|---------------|----------------------------------------------|
| Product Name  | NZPG supplied range of Durasein              |
| Document Type | Green Building Rating Compatibility Analysis |
| Document Code | ES-GSNZ-18-91g                               |
| Client        | NZ Panels Group                              |

Durasein® solid surface sheets and shapes are acrylic based and do not contain Silica. The acrylic polymer base in Durasein means it can be made malleable via thermoforming, allowing fabricators to create smooth, curved 3D forms and to seam pieces uniformly. The products can be used for counter-tops, moulded into sink and bathroom sanitary-ware, and generally used for architecturally creative shapes. Durasein® carries a product specific EPD and Greenguard Gold certification, and a DECLARE (red-list free) label.



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|--------------------------------------|-----------|--------------------------------|
| Green Star Buildings                 | Credit 09 | Up to 2 points                 |
| Green Star Design & As Built NZ (V1) | Credit 21 | Sustainability Factor (SF) = 1 |
| Green Star Interiors NZ (V1)         | Credit 21 | Sustainability Factor (SF) = 1 |
| Green Star Performance NZ (V1)       | Credit 21 | 1 point                        |

## 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<br>Buildings NZ | Credit 09         | 2                | <p>The building's internal finishes are comprised of responsibly manufactured products.</p> <p><u>Credit achievement</u> – 1 point is available if 40% of all internal building finishes (by cost) meet a Responsible Products Value (RPV) <math>\geq 7</math>.</p> <p><u>Exceptional Performance</u> – 1 additional point is available if, in conjunction with the above, either 10% of all internal building finishes (by cost) meet a RPV <math>\geq 12</math>, or 60% of all internal building finishes (by cost) meet a <math>\geq 7</math>.</p> <p><i>Internal finishes include flooring, plasterboard, paints, ceilings, partitions, doors, internal glazing partitions or similar. Joinery used as part of a wall finish may be counted, e.g., wall paneling or fixed shelving/cupboards that make up a partition. Sealants &amp; adhesives used for finishes are also included. Loose furniture is not included.</i></p> |  | Up to 2 points         | The nominated product holds a combination of eco-labels that equate to RPV 18 in accordance with the GBCA Score-checker. |

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| Green Star<br>Design & As Built NZ<br>(V1) | 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"> <li>- 1 point is awarded if PSV &gt; 3% of PCV</li> <li>- 1 point is awarded if PSV &gt; 6% of PCV</li> <li>- 1 point is awarded if PSV &gt; 9% of PCV</li> </ul> <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 NZGBC TQ published 08/23 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C.</p> <ul style="list-style-type: none"> <li>• RPV 10 or above = Level A</li> <li>• RPV 7 – 9 = Level B</li> <li>• RPV 5 – 6 = Level C</li> </ul> <p>The nominated product holds a combination of eco-labels that equate to RPV 18 in accordance with the GBCA Score-checker.</p> <p>Therefore the Product Sustainability Value (PSV) can be calculated as :<br/>"Product Cost x 1".</p> |
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| Green Star<br>Interiors NZ<br>(V1) | Credit 21 | 18 | <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"> <li>- 3.8 points are awarded if PSV &gt; 20% of TMC</li> <li>- 7.2 points are awarded if PSV &gt; 40% of TMC</li> <li>- 11.4 points are awarded if PSV &gt; 60% of TMC</li> <li>- 15.2 points are awarded if PSV &gt; 80% of TMC</li> <li>- 18 points are awarded if PSV = 100% of TMC</li> </ul> <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 NZGBC TQ published 08/23 clarifies an equivalency whereby an RPV may be converted to the previous levels A, B and C.</p> <ul style="list-style-type: none"> <li>• RPV 10 or above = Level A</li> <li>• RPV 7 – 9 = Level B</li> <li>• RPV 5 – 6 = Level C</li> </ul> <p>The nominated product holds a combination of eco-labels that equate to RPV 18 in accordance with the GBCA Score-checker.</p> <p>Therefore the Product Sustainability Value (PSV) can be calculated as :<br/>"Product Cost x 1".</p> |
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| Rating Tool                    | Credit / category | Points available | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Contribution symbol | Contribution Potential | Details of compliance                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Green Star Performance NZ (V1) | Credit 21         | 3                | <p>This credit rewards the measurement and reduction of the environmental impacts of materials in building operations, maintenance and upgrades.</p> <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> <li>- 1 point is awarded for developing a sustainable procurement framework</li> <li>- 1 point is awarded where the top 3 consumable materials are purchased in accordance with the procurement framework</li> <li>- 1 point is awarded where &gt; 75% by cost of refurbishment and maintenance materials are purchased in accordance with the procurement framework, or 0.5 points if &gt; 50% by cost comply.</li> </ul> <p><u>Refurbishment materials</u> - This includes at a minimum :</p> <ul style="list-style-type: none"> <li>- <b>Paints adhesives, sealants and carpets</b> (to comply with Green Star V3 "Low emitting materials"),</li> <li>- <b>Concrete</b> (to comply with Green Star V3 "Concrete and Aggregate"),</li> <li>- <b>Steel</b> (to comply with Green Star V3 "Steel").</li> </ul> <p><i>* Note: This credit can, if desired, be extended to include doors, wall finishes and paneling, wall and roof insulation, carpet, floor tiles, ceiling tiles, light fixtures and any other building component owned by the building owner (e.g. roof replacement, built in furniture and joinery, etc)</i></p> <p><i>This only applies if the refurbishment work is &gt; \$5/m2, otherwise the credit is deemed N/A</i></p> | ✓                   | 1 point                | <p>The nominated product falls under the "joinery" category (part of the extended product options in this credit).</p> <p>If installed as part of the base build and thus owned by the building owner, then compliance can be claimed for compliance with low VOC emissions criteria as the product has GreenGuard Gold low VOC certification.</p> |