

## EARNING GREEN STAR POINTS WITH METROTILE

### Metrotile Sustainability Credentials Summary

#### What is Green Star?

Green Star is an internationally-recognised rating system, that is used as a tool in the property and construction sectors to design, construct and operate buildings in a more sustainable, efficient and productive way.

Metrotile is able to contribute to a number of credits within the Green Star Design and As Built NZv1.0 rating tool, prepared by the New Zealand Green Building Council (NZGBC). A full version of the rating tool is available through the NZGBC website. Below is a summary of the credits our products can contribute towards:

#### Credit 21: Sustainable Products (Up to 3 points)

The Sustainable Product credit awards up to 3 points for the use of materials that meet certain transparency and sustainability requirements through: reused products, recycled content, third-party certification (eco-labels), environmental product declarations, or stewardship programs.

Points are awarded based on the percentage value of the products that meet one of the specified initiatives mentioned before. This is demonstrated by calculating the Project Sustainability Value (PSV) and comparing it with the Project Contract Value (PCV). Points are awarded incrementally for each 3% of 'Compliant Products', to a total of 3 points for 9% compliant products. The formula for Credit 21 is:

$$\% \text{ of Project Materials Value} = \frac{\sum \text{Product Cost (\$)} \times \text{Sustainability Factor}}{\text{Total Project Materials Value (\$)}} \times 100$$

#### Glossary:

**PSV** = Project Sustainability Value = Sum of the product cost multiplied by the Sustainability Factor

**PCV** = Project Contract Value = Total value of the project's materials.

#### Metrotile's products have a Sustainability Factor of 0.75 by:

- Having a product-specific Environmental Product Declaration

**Example:** A Green Star project that uses \$10,000 of Metrotile products, with the Total Project Materials Value being \$100,000. The equation would be  $((\$10,000 \times 0.75) / \$100,000) \times 100 = 7.5\%$ . This means that 7.5% of the project value meets the criteria, and the project would achieve 2 points towards this credit. The remaining point available in Credit 21 can be made up from the sustainability credits of additional materials. If this value was 9% or greater than all three points available will be achieved through the use of Metrotile's products.

## Credit 19A: Life Cycle Assessment

Credit 19 for Green Star looks into the full life cycle impact of a building, this is done so through two pathways either a Life Cycle Assessment or Life Cycle Impacts (19B). Metrotile contributes to the first pathway of this as our Environmental Product Declaration feeds data into the Life Cycle Assessment, without this data the project would have to use country averages of generic data.

The Life Cycle Points are awarded based on the level of improvement a project achieves by using these materials compared to an agreed reference building. The improvement is calculated on the basis of cumulative reduction, which is the sum of improvements for all seven different impact categories. A 30% improvements grants 1 point, while a 130% improvement grants the full 6 points.

Metrotile has an indirect impact on this credit, since the points awarded depend on the overall level of improvement a project achieves and the contribution from Metrotile depends on the quantity of our products used in the project and the difference from the agreed reference building. This makes it difficult to state just how many points our products will give.

**Example:** A Green Star project uses Metrotile products at 20% of the total life-cycle impacts of the project, and Metrotile's products have 30% lower impacts than the materials used in the reference building across all seven indicators. Using Metrotile's products would reduce the total project-level footprint by  $20\% \times 30\% \times 7 = 42\%$ , which would result in 1 point from Metrotile products alone. This example assumes that impacts of the other materials are not worse than the industry average.

In summary, with our product specific, cradle to gate Environmental Product Declaration (EPD) in accordance with ISO 14025; Metrotile's products may support projects to gain points under both Credit 21 and Credit 19A of Green Star. The amount of points earned through our products depends on the quantity used and what percentage of the build is using our products.

Please see our website to learn more about our sustainability processes and values and also to view our Environmental Product Declaration.

[www.metrotile.com/sustainability](http://www.metrotile.com/sustainability)

