

Company: Superior Doors

Products: Particleboard core interior doors (door leaf only)

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Subject: Validity of eco-label certifications and RPV scores

As part of its independent product verification activities, EnviroSpec regularly refers to and reviews product eco-label certifications.

Depending on the certification body, these are valid for a period of 12 months to several years, and are regularly renewed through re-auditing activities carried out by the relevant certificate or label issuing Authority.

For any given time that a product is deemed to have a valid label / certification, the manufacturer and certified product names are notified on the relevant Authority's website. A print out of the relevant websites showing nominated products is therefore a suitable and satisfactory form of evidence that the product is certified at the time, and remains certified until removed from the website altogether.

As at the date of writing this letter, EnviroSpec has identified the product (and product component) certifications as follows:

Final Product:

- DECLARE label link - <https://declare.living-future.org/products/solid-particleboard-core-interior-door>

Individual components:

- Laminex Superfine Particleboard (for the core)
 - ECA certification - <https://ecochoiceaotearoa.org.nz/our-partners/3208041-laminex-new-zealand/>
 - EPD - <https://epd-australasia.com/epd/superfine-particleboard/>
- Nelson Pine GoldenEdge MDF (for the skin – option 1)
 - ECA certification - <https://ecochoiceaotearoa.org.nz/our-partners/3208038-nelson-pine-industries-ltd/>
 - EPD - <https://manage.epdhub.com/?epd=HUB-0172>
 - FSC – <https://search.fsc.org/en/certificate/a0240000005sVEaAAM/?tab=products>
- Daiken Southland MDF (for the skin – option 2)
 - ECA certification - <https://ecochoiceaotearoa.org.nz/our-partners/3215134-daiken-southland-limited/>
 - FSC – <https://search.fsc.org/en/certificate/a0240000005sW6QAAU/?tab=products>

RPV SCORE CALCULATION

The Superior Doors Particleboard core interior doors (door leaf only) carry a DECLARE label (Red list free with exempt compounds). All major timber components are sourced from suppliers and products that carry ecolabels. The Responsible Product Value (RPV) is calculated using a mass-weighted average of the RPV for the major components. The ratio of component products varies with the final dimension of the doors leaf. In accordance with the DECLARE data (<https://declare.living-future.org/products/solid-particleboard-core-interior-door>) major component range from:

- Particleboard core – Laminex Superfine MR - 48.2% to 66.4% (RPV = 12)
- MDF skins GoldenEdge MDF, or Daiken Southland MDF. - 13.8% to 27.8% (RPV = 22 down to 17, respectively)
- The remainder being the finger-jointed pine frame, as well as various adhesives and coatings used. (RPV = 0)

This RPV calculation is applicable to the door leaf only and excludes any hardware such as hinges, handles, latches, as well as any final paint finish. The final product weight of the door leaves for average standard sizes with 4mm MDF skins is shown below (for alternative door sizes/configurations please contact Superior Doors):

760mm x 1980mm = 36kg
810mm x 1980mm = 38.5kg
810mm x 1980mm = 41.1kg
860mm x 1980mm = 43.7kg

The GBCA advises, when calculating the RPV score of a product that has a number of components, and where only one of these complies, the item should be broken down into its key major components (approximately those that make up 80% of the mass of the item in question).

Each item is assigned an RPV score and multiplied by the key component makeup, and the total RPV is calculated by adding up these values.

For example, in a chair with three key components (timber, foam, fabric), the following would apply:

- Timber (60%) with an RPV of 10 = 6
- Foam (20%) with RPV of 0 = 0
- Fabric (20%) with RPV of 12 = 2.4

The chair would have an RPV of 8.4

For the Superior Doors - Particleboard core doors (Door leaf only) example above, the RPV is therefore calculated as:

- Particleboard core – Laminex Superfine MR - 48.2% with an RPV of 12 = 5.784
- MDF skins GoldenEdge MDF, or Daiken Southland MDF - 13.8% with an RPV of 17 = 2.346
- Remaining 38% for finger-jointed pine frame, as well as various adhesives and coatings used, assigned RPV 0 = 0

The total average weighted (worst case scenario) RPV of the main door leaf components is therefore RPV = 8.13

The final assembled product also carries a DECLARE Red-list approved ingredients label. An additional RPV of 3 is therefore added to the base componentry, as this is the difference in RPV score over and above the combined RPVs of all individual component initiatives. (*Refer overleaf guidance from GBCA website)

The screenshot displays two panels of a software interface for calculating Responsible Product Value (RPV). The top panel shows three selected initiatives: Furniture, Fittings & Floorings (EC 32-17), FSC-STD-AUS-01-2018, and Product-Specific EPD EN15804 or ISO14025, resulting in a Responsible Product Value of 22. The bottom panel shows four selected initiatives, including the same three as above plus 'Declare 2.0 - Red List Approved', resulting in a Responsible Product Value of 25. A green arrow points from the 'Declare 2.0 - Red List Approved' initiative to the increase in the RPV value from 22 to 25.

The total calculated RPV for the final assembled door leaf is therefore RPV = 11.13

Signed:

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The Responsible Products program

More information for products manufacturers and initiatives

More information for products manufacturers and initiatives

For product manufacturers

Products recognised by more than one initiative

A product can be recognised by more than one initiative, and potentially achieve a higher Responsible Product Value (RPV). However, if the product is certified by more than one initiative that recognises certain criteria, these points will only count once.

In the example below, "Corporate Commitment on Climate" and "Environmental Management" criteria has been recognised by both certifications so can only be counted once.

Understanding RPVs for products with multiple certifications:

Criteria Achieved: Initiative A		Criteria Achieved: Initiative B		Criteria Achieved: Combined	
Corporate Commitment on Climate	1	Corporate Commitment on Climate	1	Corporate Commitment on Climate	1
Environmental Management	1	Environmental Management	1	Environmental Management	1
Carbon Emissions Disclosure	0	Carbon Emissions Disclosure	0	Carbon Emissions Disclosure	0
Socially Responsible Extraction of Resources	0	Socially Responsible Extraction of Resources	2	Socially Responsible Extraction of Resources	2
Transparent Chain of Custody	0	Transparent Chain of Custody	2	Transparent Chain of Custody	2
Environmental Impacts of Disclosure	2	Environmental Impacts of Disclosure	0	Environmental Impacts of Disclosure	2
Ingredients Disclosure	0	Ingredients Disclosure	1	Ingredients Disclosure	1
				Total RPV	9