

## Summary of carboNZero certification:



### Sleepmaker Australia Forrest Collection bed range

*Sleepmaker Australia (A division of Pacific Brands Household Products Pty Limited) meets the requirements of carboNZero<sup>Cert™</sup> certification having measured the life cycle greenhouse gas emissions of its FORREST<sup>™</sup> range of beds, committed to managing and reducing the emissions intensity of the named products and neutralised the remaining unavoidable emissions through the cancellation of an appropriate number of verified carbon credits in respect of the Botanic, Rustic, Mist, Solaire and Eco Rest Commercial beds.*

# Sleepmaker

**Introduction<sup>1</sup>** – This public declaration presents<sup>2</sup> certified information about Sleepmaker Australia Forrest Collection bed range's carbon footprint which has been prepared using the methods detailed in the Programme product specification- carboNZero Product Specification for Bedframes and Mattresses.

**Company climate change policy** – Sleepmaker is part of Pacific Brands, which has an environmental policy and initiatives in place. Sleepmaker Australia has an accredited environmental management system through the Pacific Brands Holding Pty Ltd ISO14001:2004 certification, which covers all manufacturing sites, focusing on a major issue such as climate change is the logical next step. By measuring its products' carbon footprints Sleepmaker feels that it can make a difference to its environmental impact and be seen as an early adopter in its sector. Further, Pacific Brands is reporting into National Greenhouse Gas Emissions Reporting Scheme (NGERS) and Sleepmaker Australia is committed to providing robust data for this, which the carboNZero process can strongly support.

**Product description** – The 'Forrest Collection' bed range comprises five different beds with the names Botanic, Rustic, Mist, Solaire, and Eco Rest Commercial. The beds are produced in queen or king size. Every bed has a different mattress made out of various foam, latex and/or spring units. The base of the bed is identical for all beds. Except for the king base, which consists of two joined, long single bases. The queen beds have just one queen size base. The bases are mainly made out of wood with layers of cardboard and foam. Produced in one of five Sleepmaker factories across Australia, the beds and mattresses are only distributed through Sleepy's stores around Australia, from where they are sold to the consumer.

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<sup>1</sup> **Disclaimer:** This Disclosure Statement is a summary of the verified information considered for certification and the certification decision. It should not be taken to represent the full submission for certification. While every effort has been made to ensure that the information in this Disclosure Statement is accurate and complete, Landcare Research does not, to the maximum extent permitted by law, give any warranty or guarantee relating to the accuracy or reliability of the information. The product carbon footprint information disclosed in this statement should not be used to make comparisons with other products/services unless the same methodologies, scope and boundaries have been applied.

<sup>2</sup> CZPP03 template v2.0, created 07.10.2010.

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Sleepmaker Australia  
Forrest Collection bed range



For the 'Forrest Collection' bed range, the functional or reference unit is area of product ( $m^2$  per bed) and represents all life cycle phases: upstream (material), core processes (assembly) and downstream (retail, distribution to customer, and end of life). Emissions will be reported in  $kgCO_2e$  per  $m^2$ .

Beds are an item found in every household every hotel and every hospital, regardless of country. As such, it makes sense that when deciding to live in a more sustainable manner, the item where we spend a good portion of our lives should be taken into account as well.

Sleepmaker Australia has decided to produce a new bed range with the name Forrest Collection, which has some unique low carbon features. To verify and certify its efforts and ensure further improvement can be incorporated in the next months and years, Sleepmaker Australia has decided to certify its Forrest Collection bed range with carboNZero.

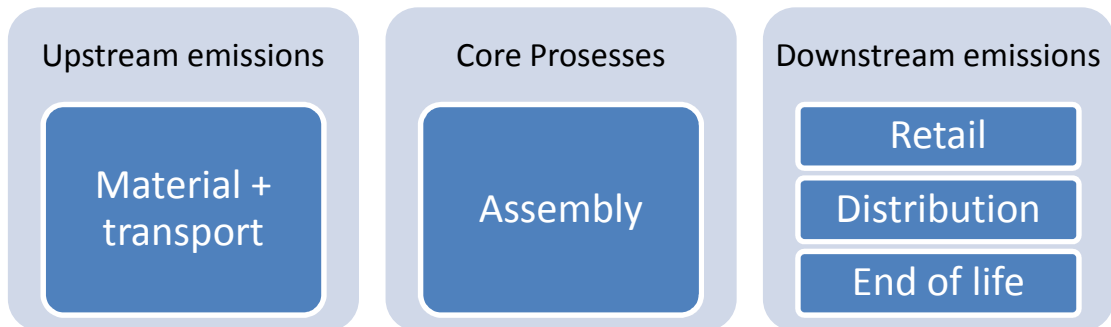
**Scope and boundary** – the product carbon footprint is for “business-to-consumer” scope.

The diagram below shows the life cycle diagram used for describing the greenhouse gas emissions associated with Forrest Collection bed range, and what unit processes were included in the product carbon footprint.

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**Base period** – 01/07/2010 to 30/06/2011

**Measurement period** –01/07/2010 to 30/06/2011

**Emissions and removals** – the table below shows the GHG emissions and removals included for each life cycle stage and unit process. Forrest Collection bed range’s net emissions for this period for m<sup>2</sup> of bed were on average 114.83 kg carbon dioxide equivalents (CO<sub>2</sub>e) comprising:

	Fossil carbon (kgCO <sub>2</sub> e)	Biogenic carbon (kgCO <sub>2</sub> e)	Total (kgCO <sub>2</sub> e)
<b>Upstream</b>	<b>71.75</b>	<b>-NNN</b>	<b>71.75</b>
• Material + transport	71.75	-NNN	71.75
<b>Core process</b>	<b>28.53</b>	<b>-NNN</b>	<b>28.53</b>
• Assembly	28.53	-NNN	28.53
<b>Downstream</b>	<b>14.53</b>	<b>-NNN</b>	<b>14.53</b>
• retail	12.62	-NNN	12.62
• distribution	0.28	-NNN	0.28
• end of life	1.63	-NNN	1.63
<b>Total:</b>			<b>114.83 kgCO<sub>2</sub>e per functional unit</b>

NOTE: Emissions are indicated by “+” and removals by “-”.

	Botanic		Rustic		Mist		Solaire		Eco Rest Commercial		
	Queen	King	Queen	King	Queen	King	Queen	King	Queen	King	
Upstream emissions	329.87	398.07	208.88	254.49	191.71	233.98	215.65	260.31	163.12	206.04	kgCO <sub>2</sub> e
Core Process emissions	79.00	118.50	79.00	118.50	79.00	118.50	79.00	118.50	79.00	118.50	kgCO <sub>2</sub> e
Downstream emissions	54.85	58.69	47.25	49.79	45.45	47.65	47.13	48.83	46.66	49.59	kgCO <sub>2</sub> e

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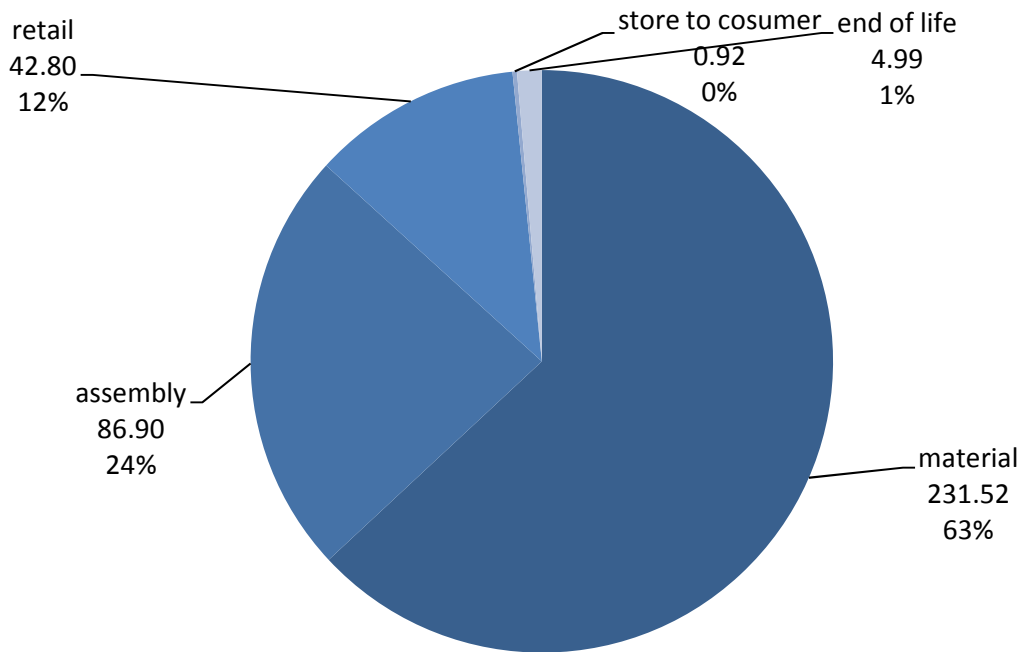


Figure 1: average emissions by life cycle stage

Total emissions per bed type and size:

	Botanic	Rustic	Mist	Solaire	Eco Rest Commercial	unit
Queen	463.72	335.12	316.16	340.84	288.78	kgCO <sub>2</sub> e
King	575.25	422.78	400.13	427.20	374.14	kgCO <sub>2</sub> e

**Exclusions** –Retail store emissions other than electricity was excluded due to lack of data. Taxi travel (organisational emission) was excluded and was estimated to be *de minimis*.

	Exclusion	Justification
Upstream		
•	none	
Core process		
•	Taxi Travel	Based on \$ spend this is estimated to be <i>de minimis</i> .
Downstream		
• retail	Store emissions other than electricity	Data availability on emissions such as waste are not available but will be in future measures.

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**Data quality** – 38% of the emissions are calculated using primary data, 62% of the emissions are calculated using secondary data.

**Emissions reduction commitments** – Sleepmaker Australia has developed a GHG emissions reduction plan that includes the Forrest Collection bed range. Some projects in this plan include:

- installing timers for all main electric equipment
- increasing recycling effort
- investigating the possibility of installing solar hot water in all sites
- investigating the possibility to switch to organically grown cotton material
- conducting online driving training for 50% of the staff within the next 12 months

Short-term and long-term reduction targets have been set including:

- reducing waste to landfill emissions by 20% in 2020)
- reducing purchased electricity by 15% in 2020
- reducing assembly related emissions by 20% in 2020
- reducing materials related emissions by 20% in 2010
- reducing retail related emissions by 3% in 2014

**Offset** – 192 tonnes CO<sub>2</sub>e. VCU from the UHE Mascarenhas power upgrading project in Brazil. Serial numbers 605695-605886 have been cancelled (or equivalent) on the carboNZero programme registry.

**Verified by** – carboNZero Strategic Business Unit

**Materiality** – Excluded emissions do not exceed 5% of the total footprint for organisation and product boundary stated. The product carbon footprint has been pro-rated to 100% in order to determine the number of offsets required.

**Level of assurance** – Limited assurance

**Certification status** – carboNZero certified product covering the Botanic, Rust, Mist, Solaire, and Eco Rest Commercial beds from the FORREST™ Collection.

**Certificate number** – 2010119

**Valid until** – 30 October 2013

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