

## Rockfon Environmental Product Declaration (EPD) Global Warming Potential (GWP) Look-up Tables

Rockfon has a product-specific Type III EPD, third-party developed and verified by UL Environment in accordance with ISO 14025 for North America; it is available at [Rockfon.com](https://www.rockfon.com)

In this EPD, the environmental impact values are calculated for a declared product, Rockfon Artic®, with a density of 100 kg/m<sup>3</sup>, thickness of 15mm (5/8”), and a dimension of 1 m<sup>2</sup>, known as the functional unit. To calculate the environmental impact of any other Rockfon product, relevant scaling factors (listed in table below) are applied to the appropriate impact value, known as the baseline impact value. Please note, scaling factors give the precise amount of material needed to produce the other products.

For example, the GWP value of a specific product is calculated by multiplying the baseline impact value (p. 7 of EPD) by the scale factor of the specific product (p. 3 of EPD). Additionally, provided in the Annex (p. 13 of EPD), our facer option (“glass fleece and paint”) GWP is listed. The “glass fleece and paint” is applicable to all Rockfon ceiling panels. The facer GWP should be added to the specific impact calculation.

### Example Calculations

Example calculation for Rockfon Sonar (3/4” in SQ, SL(N)-edges):

The baseline GWP value for the production stage (A1–A3) is 1.32 kg CO<sub>2</sub> – eq and the scale factor is 2.

<b>Impact</b>	<b>= GWP Baseline Value x Scale Factor</b>
	= 1.32 kg CO <sub>2</sub> - eq x 2
	= 2.64 CO <sub>2</sub> - eq per 1m <sup>2</sup>

Next, the facer impact for the fleece and paint is added.

The total for the product-specific impact of Rockfon Sonar (3/4” in SQ, SL(N)-edges) is:

<b>Impact</b>	<b>= GWP Baseline Value x Scale Factor + Facer GWP Value</b>
	= (1.32 kg CO <sub>2</sub> - eq x 2) + 0.85 kg CO <sub>2</sub> - eq
	= 3.49 CO <sub>2</sub> - eq per 1 m <sup>2</sup>

**Product Specific Impact (per 1 m<sup>2</sup>) = Baseline Impact x Scale Factor + Facer Impact Table**

Product	NRC	CAC	Total A1 - A3 Impact with Facer for 1m <sup>2</sup> (kg CO <sub>2</sub> - eq)	Total A1 - A3 Impact with Facer for 1ft <sup>2</sup> (kg CO <sub>2</sub> - eq)
<b>Artic</b> (5/8") *reference product	0.75	-	2.17 kg CO <sub>2</sub> - eq	0.202 kg CO <sub>2</sub> - eq
<b>Sonar</b> (3/4")	0.90	22	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Sonar</b> (1")	0.95	22	4.15 kg CO <sub>2</sub> - eq	0.386 kg CO <sub>2</sub> - eq
<b>Sonar CDX</b> (7/8")	0.90	22	3.75 kg CO <sub>2</sub> - eq	0.350 kg CO <sub>2</sub> - eq
<b>Sonar</b> (1")	0.85	33	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Sonar</b> (1.5")	0.85	35	6.65 kg CO <sub>2</sub> - eq	0.618 kg CO <sub>2</sub> - eq
<b>Sonar Activity</b>	0.90	-	6.13 kg CO <sub>2</sub> - eq	0.570 kg CO <sub>2</sub> - eq
<b>Sonar - DC</b> (1")	0.95	-	4.15 kg CO <sub>2</sub> - eq	0.386 kg CO <sub>2</sub> - eq
<b>Alaska</b> (3/4")	0.90	22	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Alaska CDX</b> (7/8")	0.90	22	3.75 kg CO <sub>2</sub> - eq	0.350 kg CO <sub>2</sub> - eq
<b>Alaska</b> (1")	0.85	33	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Alaska</b> (1.5")**	0.85	35	6.65 kg CO <sub>2</sub> - eq	0.618 kg CO <sub>2</sub> - eq
<b>Alaska - DC</b> (3/4")	0.90	-	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Koral SQ</b> (5/8")	0.85	-	2.04 kg CO <sub>2</sub> - eq	0.190 kg CO <sub>2</sub> - eq
<b>Koral SL(N)</b> (5/8")	0.85	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Tropic SQ</b> (5/8")	0.85	-	2.04 kg CO <sub>2</sub> - eq	0.190 kg CO <sub>2</sub> - eq
<b>Tropic SL(N)</b> (5/8")	0.85	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Tropic - DC</b> (5/8")	0.85	-	2.04 kg CO <sub>2</sub> - eq	0.190 kg CO <sub>2</sub> - eq
<b>Artic</b> (3/4")	0.75	-	2.57 kg CO <sub>2</sub> - eq	0.239 kg CO <sub>2</sub> - eq
<b>Pacific</b>	0.60	-	2.17 kg CO <sub>2</sub> - eq	0.202 kg CO <sub>2</sub> - eq
<b>Cinema Black</b>	0.85	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Cinema Black - DC</b> (5/8")	0.85	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Color-All SQ</b> (5/8")	0.90	-	3.36 kg CO <sub>2</sub> - eq	0.312 kg CO <sub>2</sub> - eq
<b>Color-All SL(N)</b> (3/4")	0.95	-	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Color-All CDX</b> (7/8")	0.95	-	3.75 kg CO <sub>2</sub> - eq	0.350 kg CO <sub>2</sub> - eq
<b>Mono</b>	1.00	-	5.60 kg CO <sub>2</sub> - eq	0.521 kg CO <sub>2</sub> - eq

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**Product Specific Impact (per 1 m<sup>2</sup>) = Baseline Impact x Scale Factor + Facer Impact Table Cont.**

Product	NRC	CAC	Total A1 - A3 Impact with Facer for 1m <sup>2</sup> (kg CO <sub>2</sub> - eq)	Total A1 - A3 Impact with Facer for 1ft <sup>2</sup> (kg CO <sub>2</sub> - eq)
<b>Contour</b>	<i>Contact Rockfon for acoustical information</i>		6.13 kg CO <sub>2</sub> - eq	0.570 kg CO <sub>2</sub> - eq
<b>Island</b>	<i>Contact Rockfon for acoustical information</i>		6.13 kg CO <sub>2</sub> - eq	0.570 kg CO <sub>2</sub> - eq
<b>Medical Air</b>	0.85	33	2.83 kg CO <sub>2</sub> - eq	0.263 kg CO <sub>2</sub> - eq
<b>Medical Air (1.5")**</b>	0.85	35	6.65 kg CO <sub>2</sub> - eq	0.618 kg CO <sub>2</sub> - eq
<b>Medical Plus SQ (3/4")</b>	0.90	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Medical Plus SL(N) (3/4")</b>	0.90	-	2.96 kg CO <sub>2</sub> - eq	0.275 kg CO <sub>2</sub> - eq
<b>Medical Plus CDX</b>	0.90	-	3.75 kg CO <sub>2</sub> - eq	0.350 kg CO <sub>2</sub> - eq
<b>Medical Std. SQ (5/8")</b>	0.90	-	2.04 kg CO <sub>2</sub> - eq	0.190 kg CO <sub>2</sub> - eq
<b>Medical Std. SL(N) (5/8")</b>	0.90	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Hygienic Plus (3/4")</b>	0.90	-	2.43 kg CO <sub>2</sub> - eq	0.226 kg CO <sub>2</sub> - eq
<b>Education Prem. (1")</b>	0.90	22	3.49 kg CO <sub>2</sub> - eq	0.325 kg CO <sub>2</sub> - eq
<b>Education Plus (3/4")</b>	0.80	20	2.96 kg CO <sub>2</sub> - eq	0.275 kg CO <sub>2</sub> - eq
<b>Education Std. (5/8")</b>	0.70	-	2.57 kg CO <sub>2</sub> - eq	0.238 kg CO <sub>2</sub> - eq

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**Notes:**

1. On the [EC3 database](#), an *uncertainty bias* may be added when comparing manufacturers. For example, our Life Cycle Impact Assessment (LCIA) methodology differs from the version used on EC3. To account for this, a 3% uncertainty bias has been added to our product's EC figures.
2. When comparing products and referencing figures, make sure the same unit of measurement is being used.
  - By default, the EC3 tool converts all GWP values to **ft<sup>2</sup>** (listed as "USA" on "Measurement Units" drop down). To change the unit of measure to **m<sup>2</sup>**, click "SI", listed under "Measurement Units" (top right corner).