

# Environmental Product Declaration



# KiwiColor

## Environmental Product Declaration

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The scope of Kiwi Steel's Environmental Product Declaration for KiwiColor excludes the stage transforming the flat KiwiColor sheet into different profiled roofing and cladding.

The purpose of this supplement is to provide data for KiwiColor pre-painted sheets. This document includes updated EPD results tables for KiwiColor roofing and cladding for EN 15804 modules A1-A3.

As with the EPD, the results follow PCR 2012:01 of the International EPD System, EN 15804:2012+A1:2013 and ISO 14025:2006. However, this document is not a formal EPD.

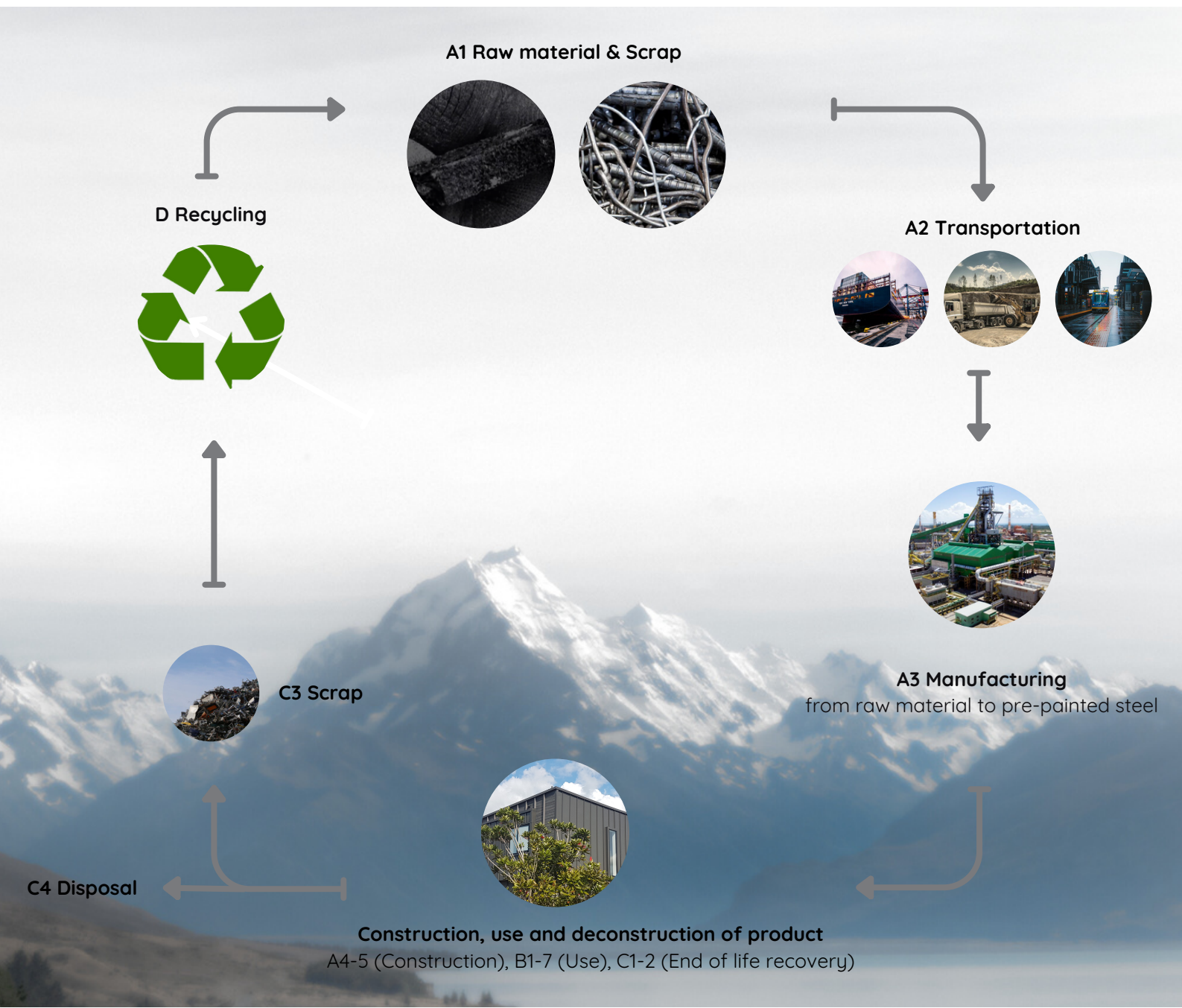




Table 1: Modules in the scope of EPD

Product Stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
Raw Material	Transport	Manufacturing	Transport	Construction installation	Use stage	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-Potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X

X = Included in EPD; MND = Modules Not Declared (such a declaration shall not be regarded as an indicator of a zero result).



**Table 2: Life Cycle Impact Assessment Indicators**

EPD Results for 1 m<sup>2</sup> of KiwiColor

		Production	End of life		Recycling
<b>Environmental impact</b>	<b>Unit</b>	<b>A1-A3</b>	<b>C3</b>	<b>C4</b>	<b>D</b>
Global warming potential (total)	kg CO2-eq.	9.27	0.172	1.04E-02	-0.189
Depletion potential of the stratospheric ozone layer	kg CFC11-eq.	4.56E-08	3.67E-08	2.36E-09	-2.99E-08
Acidification potential of land and water	kg SO2-eq.	4.86E-04	3.51E-05	2.07E-06	0
Eutrophication potential	kg PO43-- eq.	1.58E-02	5.31E-06	4.21E-07	-5.53E-05
Photochemical ozone creation potential	kg C2H4-eq.	0.01	0.001	5.71E-05	-0.001
Abiotic depletion potential – minerals & metals	kg Sb-eq.	95.90	8.82E-08	8.32E-09	-9.17E-06
Abiotic depletion potential – fossil fuels	MJ	1.16E-04	2.36	1.54E-01	-2.55
<b>Resource use</b>	<b>Unit</b>	<b>A1-A3</b>	<b>C3</b>	<b>C4</b>	<b>D</b>
Renewable primary energy used as raw materials	MJ	5.69	0.0102	7.76E-04	-0.0732
Renewable primary energy resources used as raw materials	MJ	1.55	0.00302	2.84E-04	-0.102
Total use of renewable primary energy resources	MJ	7.24	0.0132	0.00106	-0.175
Non-renewable primary energy used as raw materials	MJ	101	2.50	0.164	-2.71
Non-renewable primary energy resources used as material utilization	MJ	0.0137	3.36E-04	2.22E-05	-0.0046
Total use of non-renewable primary energy resources	MJ	101	2.50	1.64E-01	-2.71
Use of secondary material	kg	0	0	0	0
Use of renewable secondary fuels	MJ	0	0	0	0
Use of non-renewable secondary fuels	MJ	0	0	0	0
Use of net fresh water	m <sup>3</sup>	0.09	1.30E-04	3.27E-05	-0.001
<b>Waste categories and output flows</b>	<b>Unit</b>	<b>A1-A3</b>	<b>C3</b>	<b>C4</b>	<b>D</b>
Hazardous waste disposed	kg	0.0180	0	0	0
Non-hazardous waste disposed	kg	4.30E-04	0	0.157	0
Radioactive waste disposed	kg	0	0	0	0
Components for re-use	kg	0	0	0	0
Materials for recycling	kg	0.0012	2.98	0	0
Materials for energy recovery	kg	0	0	0	0
Exported electrical energy	MJ	0	0	0	0
Exported thermal energy	MJ	0	0	0	0