



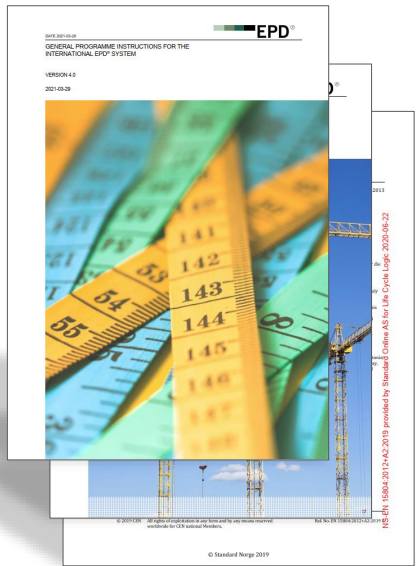
**Life Cycle Logic**

# **Confessions of an EPD verifier**

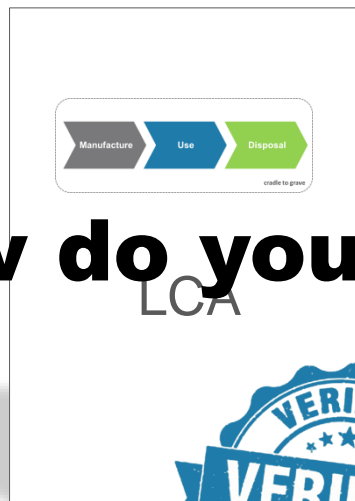
How LCA consultants can speed up the verification process of EPDs

# What is an EPD?

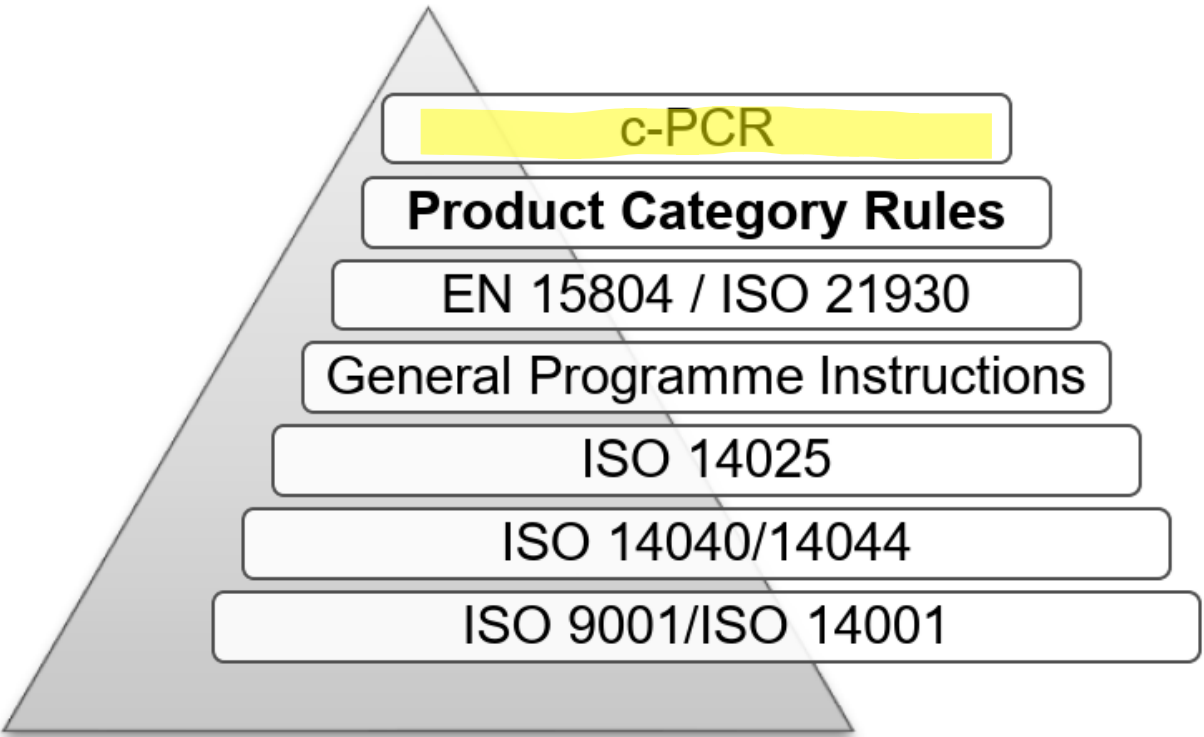
An Environmental Product Declaration (EPD) is an **independently verified** and registered document that communicates transparent and comparable data and other relevant environmental information about the life-cycle environmental impact of a product.



# How do you produce an EPD?



**How to speed up EPD verification?**





**Boral National Asphalt EPD**

BORAL



**Vulcan Thermally Modified Radiata Pine from Abodo Wood Ltd.**

ABODO WOOD



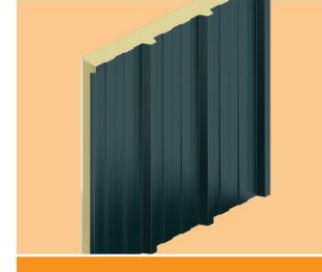
**Red Stag Wood Solutions – Cross-Laminated Timber (CLT)**

RED STAG WOOD SOLUTIONS



**Gunlake Quarries – Quarry Materials**

GUNLAKE QUARRIES



**Kingspan Insulated Panels – KS1000RW Trapezoidal Wall Panel**

KINGSPAN INSULATED PANELS



**Iplex® Pipelines NZ – PVC Pipes**

IPEX PIPELINES NZ

## 2. Understand the products



BarChip R-Series

**BarChip R50, BarChip R65 Macro Synthetic Fibre Concrete Reinforcement from BarChip Inc.**

BARCHIP INC.



**BGC Precast – Hollowcore Planks**

BGC PRECAST



**Carter Holt Harvey Plywood – Plywood**

CARTER HOLT HARVEY PLYWOOD



**Boral Cement – Victorian Bulk Cement and Cementitious Products**



**BGC Quarries – Aggregates**

BGC QUARRIES



**Steel Mains – Sintakote® Steel Pipe Systems**

STEEL MAINS PTY LTD – AUSTRALIA

## VERIFICATION CHECKLIST PART A: CALCULATION RULES FOR THE LIFE CYCLE ASSESSMENT AND REQUIREMENTS ON THE LCA REPORT

The following issues must be checked as a minimum. The check consists of checking if the issue is described in the LCA report (termed "project report" in EN 15804) and if it is in line with the requirements and guidelines in the applicable reference (EN 15804, other standards and PCRs). Most issues are mandatory to check, some are optional.

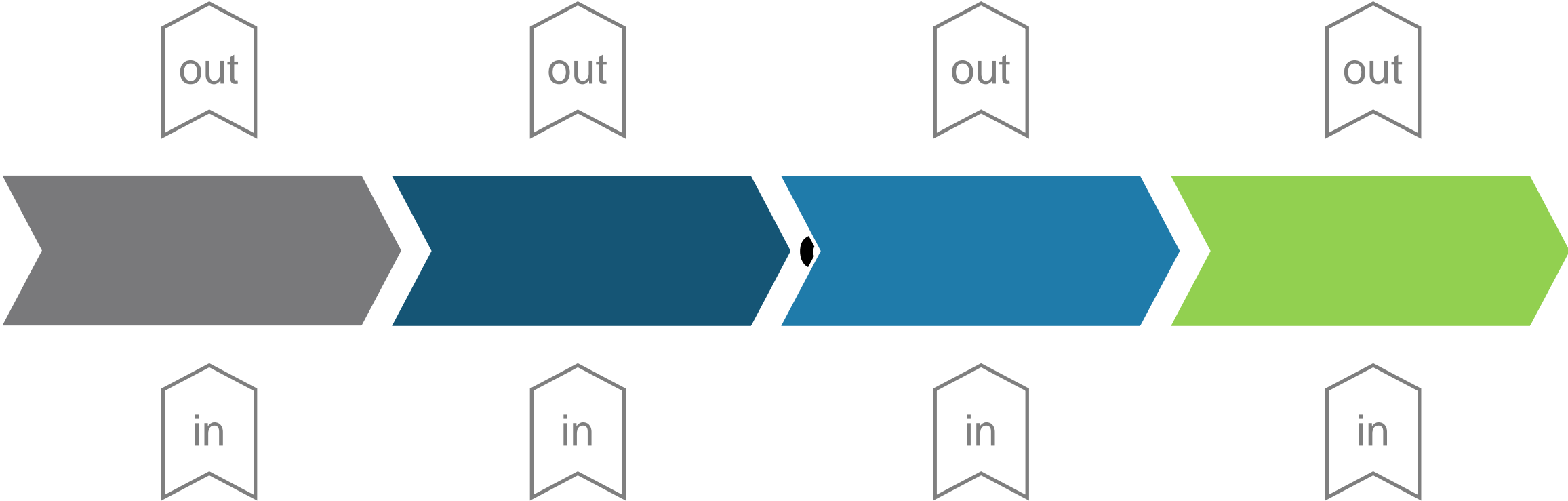
Any deviations from the requirements should be reported by the verifier. If the issue is in line with the requirements and/or accepted by the verifier, the box "done" can be ticked.

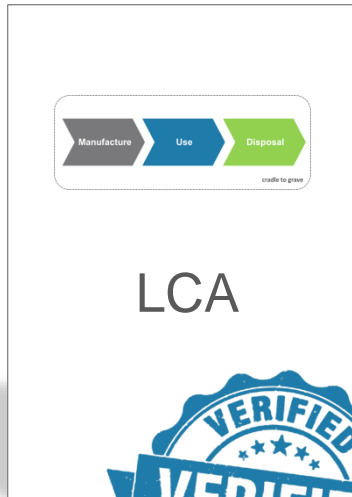
A1	GENERAL INFORMATION	MANDATORY (M) / OPTIONAL (O)	REFERENCE	CHECKED AND APPROVED	N/A
A1.1	Commissioner of LCA study, LCA practitioner.	M	EN 15804 ch. 8.2	<input type="checkbox"/>	<input type="checkbox"/>
A1.2	Date of issue of LCA report.	M	EN 15804 ch. 8.2	<input type="checkbox"/>	<input type="checkbox"/>
A1.3	Statement that the Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804 (date and version) and applicable PCRs (date and version).	M	EN 15804 ch. 8.2 and applicable PCRs	<input type="checkbox"/>	<input type="checkbox"/>
A1.4	Any other independent verification of the data given in the LCI/LCA documentation?	O		<input type="checkbox"/>	<input type="checkbox"/>
A2	STUDY GOAL	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
A2.1	Reasons for performing the Life Cycle Assessment.	M	EN 15804 ch. 8.2	<input type="checkbox"/>	<input type="checkbox"/>
A2.2	Intended application (e.g. for EPD, databases, publication etc.).	M	EN 15804 ch. 8.2	<input type="checkbox"/>	<input type="checkbox"/>
A2.3	Target group (B2B, B2C, ...).	M	EN 15804 ch. 8.2	<input type="checkbox"/>	<input type="checkbox"/>
A3	FUNCTIONAL UNIT / DECLARED UNIT	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
A3.1	Functional / Declared unit, including relevant technical specification.	M	EN 15804 ch. 6.3.1-6.3.3 and applicable PCRs	<input type="checkbox"/>	<input type="checkbox"/>
A4	PRODUCT DESCRIPTION	MANDATORY / OPTIONAL	REFERENCE	CHECKED AND APPROVED	N/A
A4.1	Composition of the product. The level of detail: the main components necessary to understand what type of product is concerned (detailed mass description is not necessary if confidential). In case of multiple products: at minimum qualitative description of averages and qualitative description of ranges.	M	ISO 14025	<input type="checkbox"/>	<input type="checkbox"/>

the product does not violate relevant legislation.

I confirm that I have sufficient knowledge and experience of construction products, the construction industry, relevant standards and the geographical area of the EPD to carry out this verification.







# 5. Stage 1: Identification

Production process	Use										Disposal					Biomethane
	Production	Construction	Use	Maintenance	Repair	Refurbish	Renovate	Operational Energy	Operational Water	Operational Other	Operational Other	Operational Other	Operational Other	Operational Other	Operational Other	
EPD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

Production process	Use										Disposal					Biomethane
	Production	Construction	Use	Maintenance	Repair	Refurbish	Renovate	Operational Energy	Operational Water	Operational Other	Operational Other	Operational Other	Operational Other	Operational Other		
EPD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

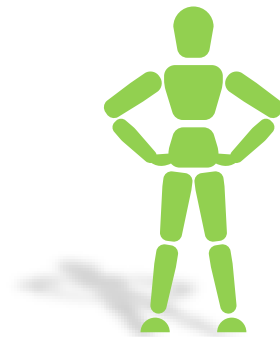
Production process	Use										Disposal					Biomethane
	Production	Construction	Use	Maintenance	Repair	Refurbish	Renovate	Operational Energy	Operational Water	Operational Other	Operational Other	Operational Other	Operational Other			
EPD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	



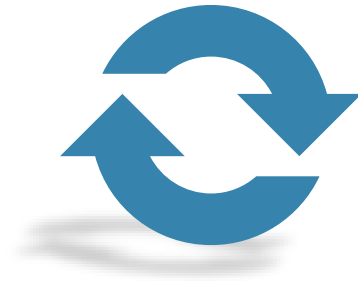
## **6. Document control is essential**



## **7. Graphic design takes time**



## **8. Update your C<sup>o</sup> templates**



## **9. Are we there yet?**



**10. Never name document “...final...”**





# Life Cycle Logic

[lifecyclelogic.com.au](http://lifecyclelogic.com.au) >