

# The Verified Biogenic Carbon Statement

— by Nature's Barcode™ · How it works, for manufacturers, developers and operators



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## What the Statement Is

Every cubic metre of mass timber arriving on a project stores biogenic carbon — captured by the tree and locked into the structure, typically around 0.9 tCO<sub>2</sub>e per m<sup>3</sup> for structural softwood. Today that stored carbon is commercially invisible: the data exists across production records and EPDs, but no independent, shipment-specific statement carries it to the project.

The Verified Biogenic Carbon Statement (VBCS) changes that. It is an independently reviewed statement of the stored biogenic carbon — expressed as CO<sub>2</sub> equivalent — in the specific products of a specific shipment:

- **Issued per shipment, at the point of dispatch** — each container leaves with its statement, tied to the itemised components on board (structural elements referenced to the project model; other products at batch level).
- **Independently assessed and verified** — the assessment is prepared under ISO 14064 methodology and independently reviewed and countersigned by DoubleHelix, carried under Nature's Barcode™, DoubleHelix's established verification brand.
- **Numbered, scannable and registered** — every statement carries a unique number and QR code resolving to a live record: product, species, origin, volume, stored carbon, chain of custody, verification signature and date. The claim can be checked by anyone, at any time.
- **A claim, not a carbon credit** — the statement makes a verified, defensible factual claim about carbon stored in delivered product. It is not a tradeable credit and is deliberately structured so it can never be mistaken for one.

In one line: the product already stores the carbon — the VBCS is the independent document that lets everyone downstream claim it, credibly.

## How It Works — Five Steps, Ex-Factory

- 1 Data capture.** The manufacturer provides the shipment documentation set — species, volumes, origin, chain-of-custody references — alongside EPD-anchored production data. One-off baseline per product line; light-touch per shipment thereafter.
- 2 Assessment.** Nautilus prepares the stored biogenic carbon assessment under ISO 14064 methodology — gross stored carbon from volume, density and carbon fraction, expressed as tCO<sub>2</sub>e, with supply-chain emissions transparently deducted for net figures.
- 3 Independent verification.** DoubleHelix independently reviews and countersigns the statement. Preparation and verification are structurally separated — the roles are disclosed on the face of every statement.
- 4 Issuance at dispatch.** The statement is issued when the container ships — numbered, dated, itemised to the components on board. It travels with the shipping documents and into the project record.
- 5 Registration.** Every statement is entered in the public register and resolvable via its QR code — the permanent, checkable record that gives the claim its lasting credibility, through the project's life and beyond.

**Why dispatch matters:** the verification window sits at the point of shipment, when the chain of custody is intact and the documentation is live. Once a container has shipped without capture, the statement cannot be credibly reconstructed.

## What Participants Provide and Receive

| Manufacturers provide                                                                                                              | Manufacturers receive                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Shipment documentation already produced for export — packing lists, species and volume declarations, chain-of-custody certificates | A Verified Biogenic Carbon Statement accompanying every shipment                              |
| Published EPD data as the assessment anchor, where available                                                                       | Independent, per-shipment verification of carbon credentials that are otherwise self-reported |
| No change to production, no new systems, no site audits at entry                                                                   | Differentiated positioning in a market moving hard against unverifiable green claims          |

For developers and operators, the statement travels into the project record, the sustainability story and the asset documentation — per delivered shipment, checkable by anyone. The companion document, the *Operator & Asset-Owner FAQ*, covers the downstream value in detail, including the end-of-life and reuse position.

## Getting Started

Programmes run on live shipments and begin with a short scoping exercise on the product lines and documentation formats in play. Contact Nautilus Innovation to discuss a pilot on your project or supply chain.

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**Note:** The VBCS makes factual claims about stored biogenic carbon in delivered product. It is not a carbon credit, an offset instrument, or a tradeable environmental commodity, and it confers no rights in any carbon market.