

What is an EPD

Type III label, third party verified, and internationally recognized!

A single transparent disclosure of a product's impacts throughout its life cycle.

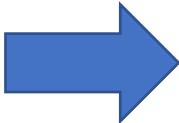
EPDs are an evaluation tool to help manufacturers, purchasers, suppliers and distributors from government to institutional facilities evaluate a product's characteristics. Further, they enhance awareness of the overall impact of a product.

EPDs can represent one product, a group of similar products from one or more manufacturer's site, or multiple manufacturers (e.g. an industry average EPD)

What is in an EPD

- General declaration information
- The product definition and information about building physics
- Declared or functional unit of assessment (e.g. m² of installed product, 1 ton, 100,000 hand drying instances)
- Information about basic materials and the materials' origins
- A description of the product's manufacturing and processing
- Information about installation, in-use conditions and end of life
- LCA results by impact category
- Testing results and verifications

The most important aspect...results



Parameters (Weighted Average)	Units	Modules Included in LCA							
		A1 - A3	A4	A5	B1 - B7	C1	C2	C3	C4
Global Warming Potential (GWP)	kg CO2 eq	2.13E+02	2.12E+01	3.93E+01	0	2.1E+00	3.2E+00	1.6E+00	0
Ozone depletion (ODP)	kg CFC 11 eq	6.47E-06	1.16E-05	3.81E-06	0	2.6E-07	2.2E-06	1.1E-06	0
Acidification potential (AP)	kg SO2 eq	8.13E-01	1.29E-01	1.13E-01	0	1.6E-02	1.9E-02	1.2E-02	0
Eutrophication potential (EP)	kg N - eq	1.68E-01	2.62E-02	3.27E-02	0	3.7E-03	4.8E-03	2.5E-03	2.1E-02
Photochemical ozone creation (POCP) -	kg O3 - eq	7.66E-02	9.30E-03	1.24E-02	0	4.7E-03	1.4E-03	8.9E-04	0
Abiotic depletion potential for fossil resources (ADP-fossil fuels)	MJ	3.00E+02	1.87E+01	6.88E+02	0	2.9E+01	4.0E+01	2.0E+01	0

Theta EPD, “the buy clean compliance software”®

Launched in 2023, Theta provides LCA and EPD generation software with services options.

Expanded to include

Rebranded + Solutions



Concrete



Steelmaking



Aggregate – NEW!!!



Asphalt



Steel Products



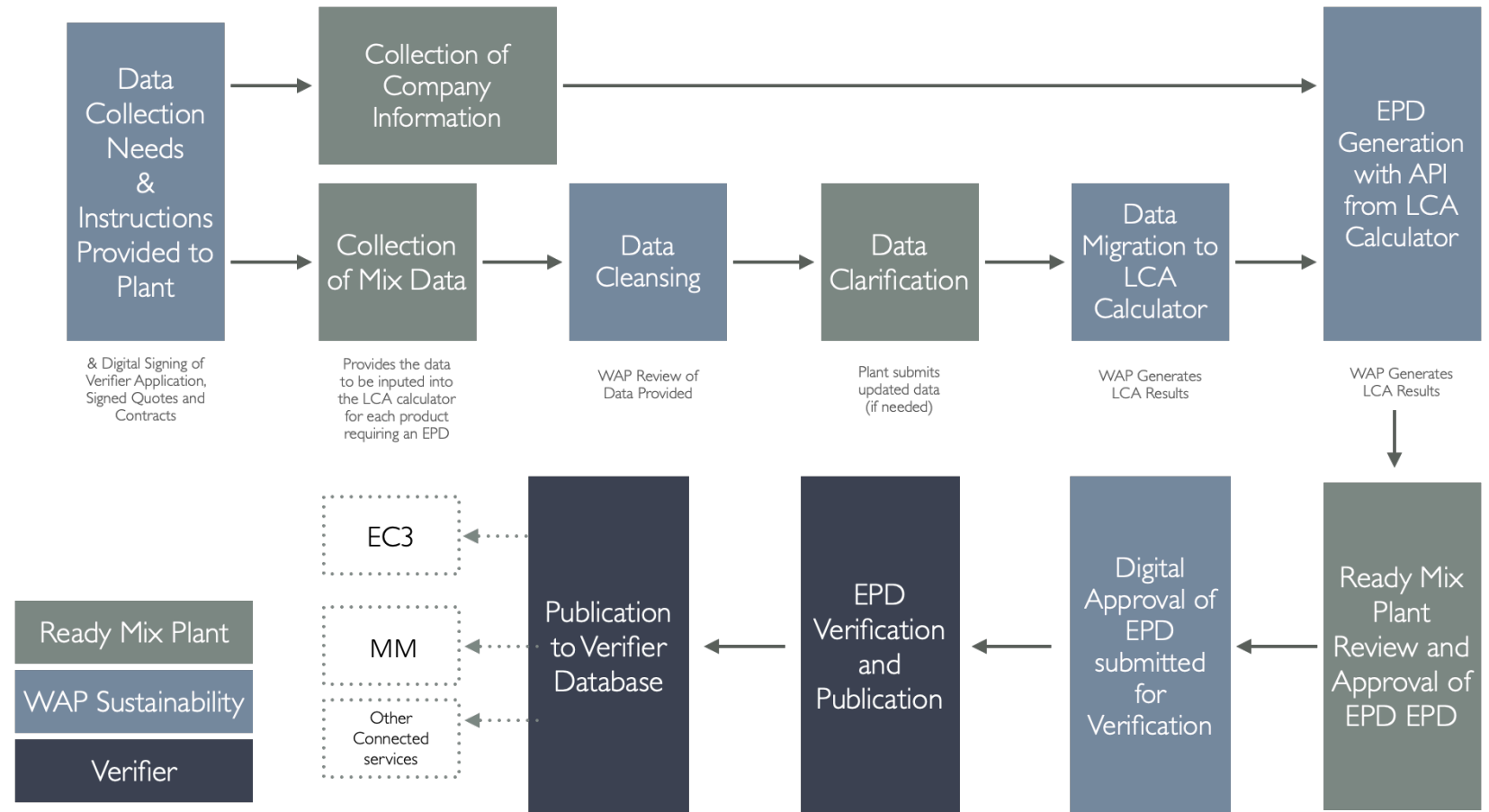
Glass

Producer LCA and EPD Workflow

How the LCA and EPD Process unfolds

Proven workflow designed to streamline the EPD process with software + services including.

- data collection
- data processing
- EPD generation
- EPD publication



What will Organizations Need

Performance Information

- Required
 - UNSPC Product code and CSI Specification number
 - Specified compressive strength at specified age in days (e.g., 4,000 psi (28 MPa) at 28 days)
- Optional
 - Specified environmental exposure class (per ACI 318-14, CSA A23.1 or other specified or accepted standard) (e.g., Exposure Class F1, S0, P0, C1 or F0-F3, S0, P0-P1, C0-C2);
 - Design slump or slump flow. Example: 4-6 in (10-15 cm);
and
 - any other specified characteristic that affects concrete performance (e.g. air entrainment, unit weight, high early strength requirements, etc.). (EC3 = Aggregate Size Mix, Min Pipeline Size, W/C Ratio, SCM Min, SCN Max)

Company Information

- Company name and primary address
- Plant name and address

Mix Data

- Mix proportions/weights (kg/M3)
 - Cement & SCMs
 - Aggregates
 - Admixtures
 - Batch Water
 - Fibers & Pigments
 - Packaging
- Transport from source
 - Method and distance of each above
- Manufacturing
 - 12 Month Energy
 - Ancillary Materials (lubricants, motor oils, other consumables)
 - Water (wash water/not batch water)
 - Waste (end of life treatment of ancillary materials & any packaging)
 - Fleet Energy for transit mix plants (fuel / miles / truck info)
 - Annual Production at plant for allocation purposes.
 - (NOTE: Manufacturing data can be provided on an annual allocated basis meaning amount divided by annual production at plant)