

Assessment Method

NMD ACADEMY

Stichting Nationale Milieudatabase





Version 2.0, published 19 February 2025

Environmental Performance Assessment Method for Construction Works

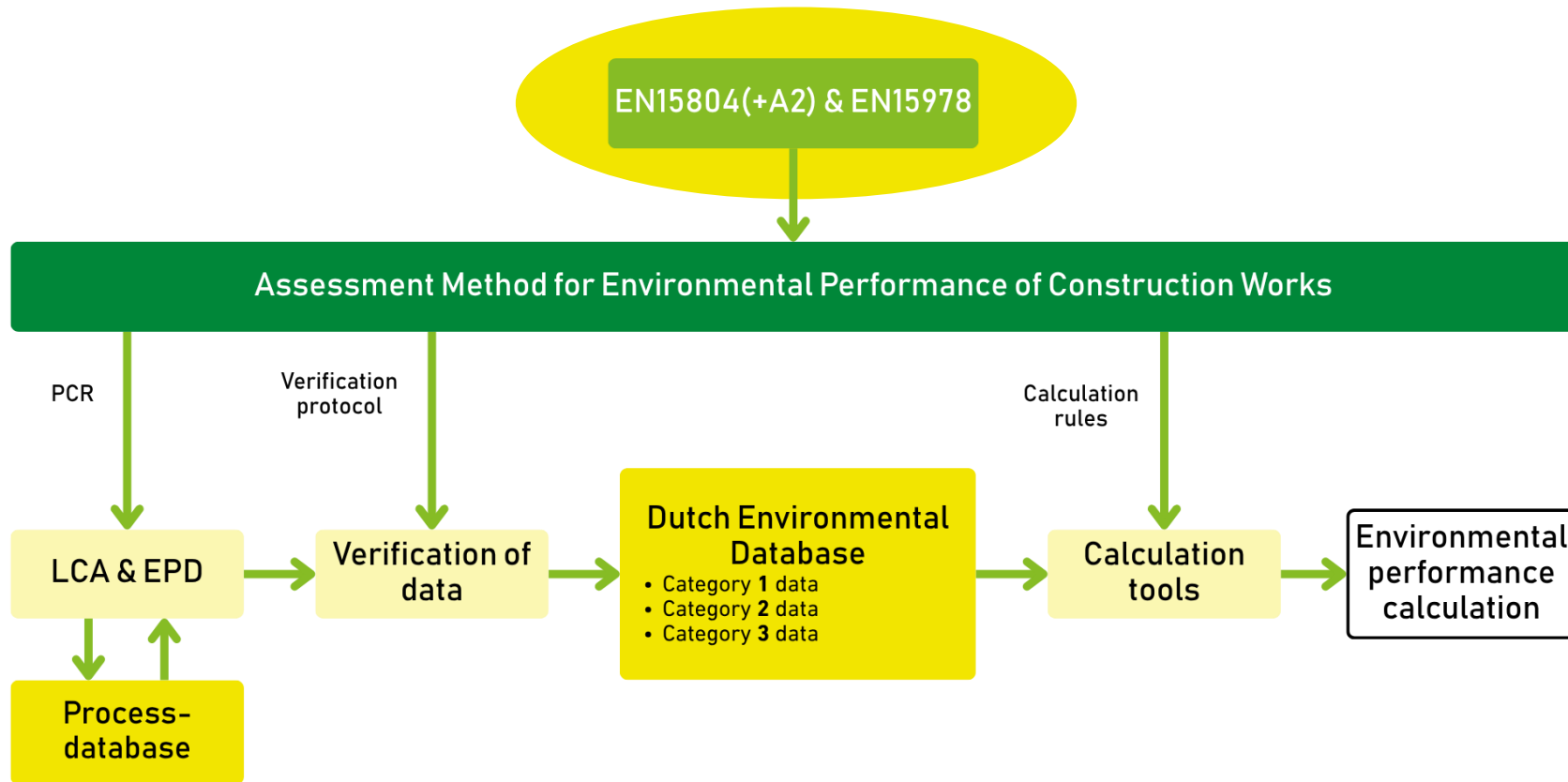
Calculation method to determine the environmental performance
of construction works throughout their service life,
based on EN 15804+A2.

Assessment Method for Environmental Performance of Construction Works

- An environmental performance calculation is carried out in accordance with the Environmental Performance Assessment Method for Construction Works (managed by Stichting NMD)
- For the B&U sector, this is the Environmental Performance of Buildings, MPG. This is anchored in the Buildings and Living Environment Decree (Bbl)
- For the GWW sector, this is the Environmental Cost Indicator, ECI. This is guiding for tenders

Assessment Method for the Environmental Performance of Construction Works

Stichting NMD manages the Assessment Method



ISO standards

The Assessment Method is based on international ISO standards for LCAs. These form the foundation for the European standards EN 15804 and EN 15978.

- **ISO 14040 & ISO 14044:** general guidelines for the LCA methodology (life cycle assessment)
- **ISO 21930:** more specific to construction products (aligns with EN 15804)



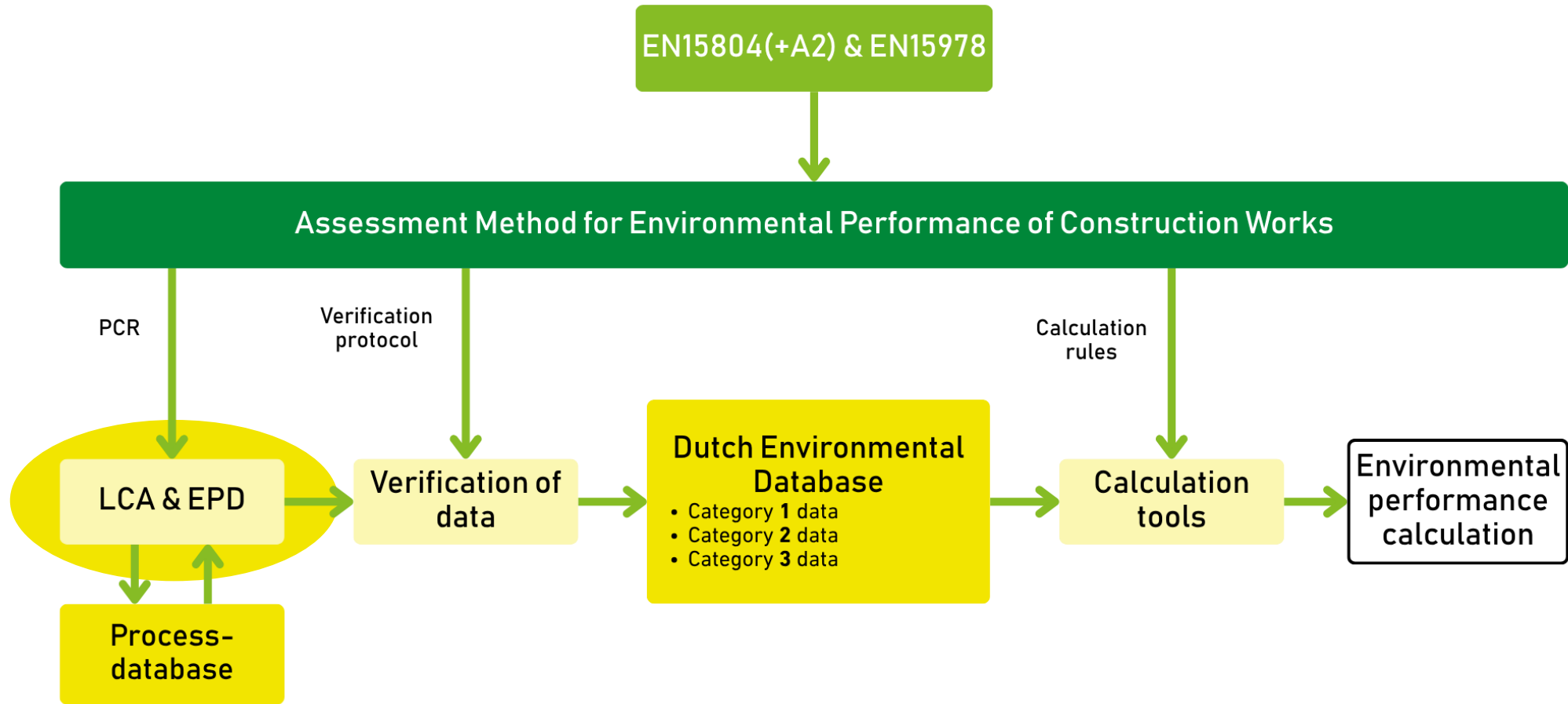
European standards

The Assessment Method is a Dutch elaboration and supplement to the European standards below, in order to make them applicable in the Dutch context

- **EN 15804(+A2)**: describes the environmental performance of construction products; the basis for EPDs (and thus for environmental declarations)
- **EN 15978**: describes the environmental performance of buildings throughout their life cycle



Assessment Method for the Environmental Performance of Construction Works



LCA (productlevel)

LCA (Life Cycle Assessment): calculation of environmental impact over the life cycle of a construction product (from raw material to end of life)

PCR (Product Category Rules): rules that determine how an LCA must be carried out per product category



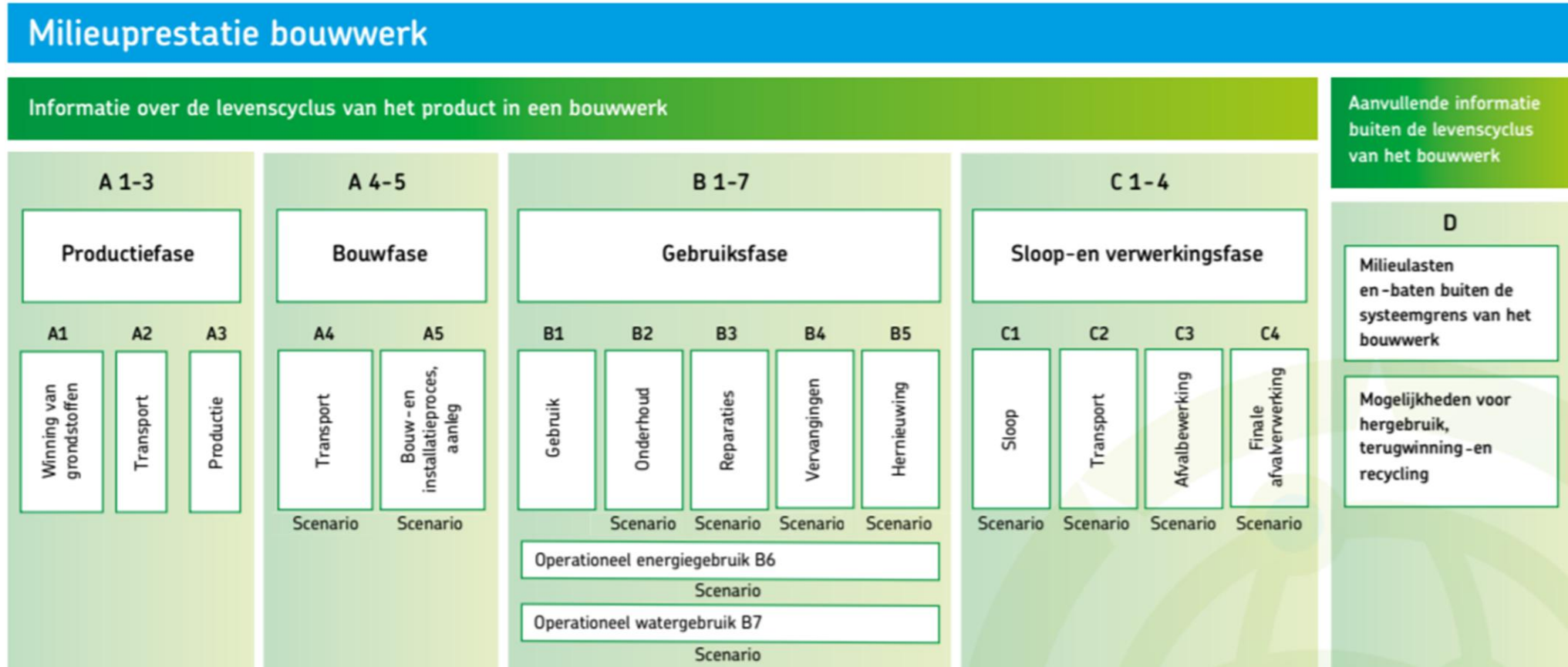
EPD and environmental declaration

- EPD (Environmental Product Declaration): gestandaardiseerde, gecontroleerde rapportage van de LCA-resultaten
- Milieuverklaring (zoals te vinden in de NMD) – lijkt sterk op EPD, met iets andere opbouw en velden die zijn afgestemd op de Nederlandse Bepalingsmethode.

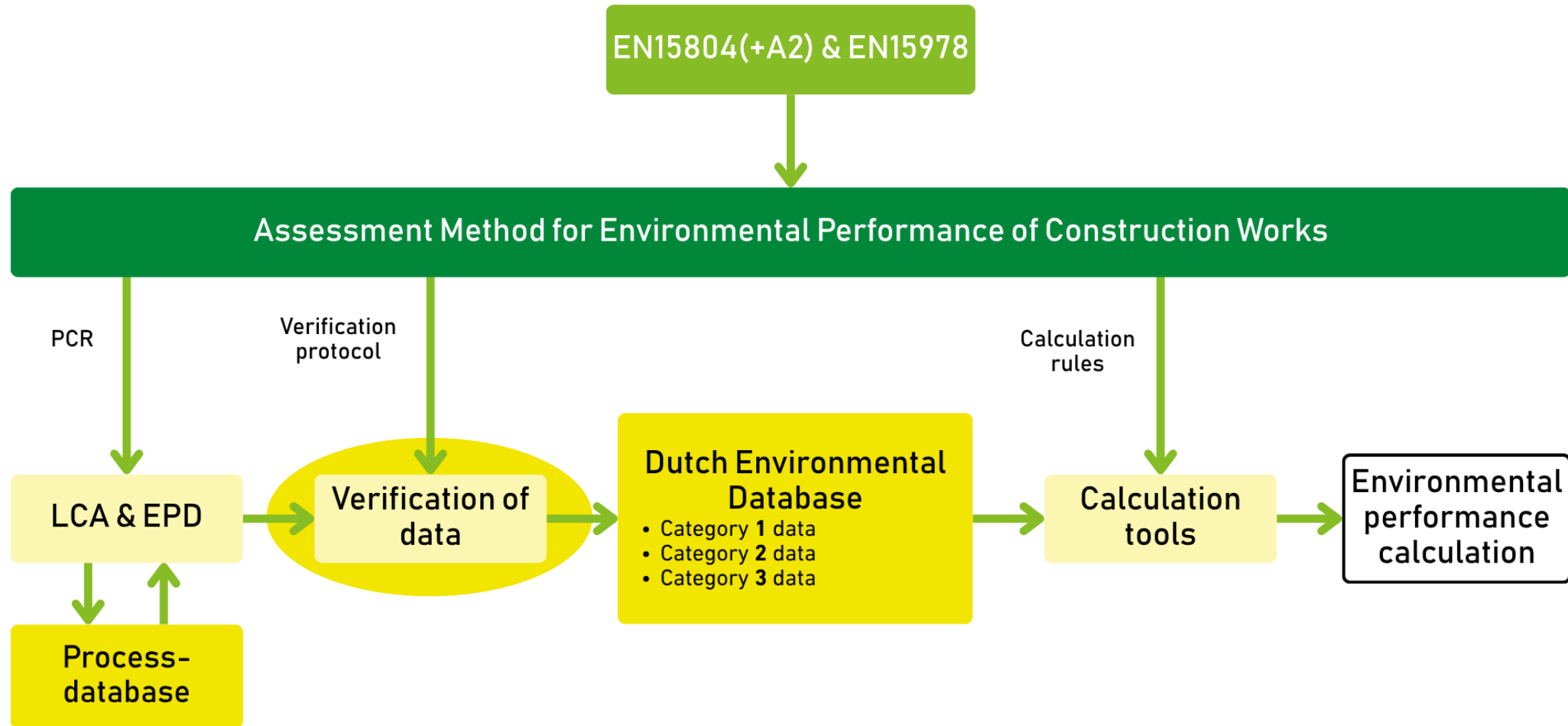


Assessment Method for the Environmental Performance of Construction Works

Modules levenscyclusanalyse



Assessment Method for the Environmental Performance of Construction Works





Verification of data: Verification Protocol

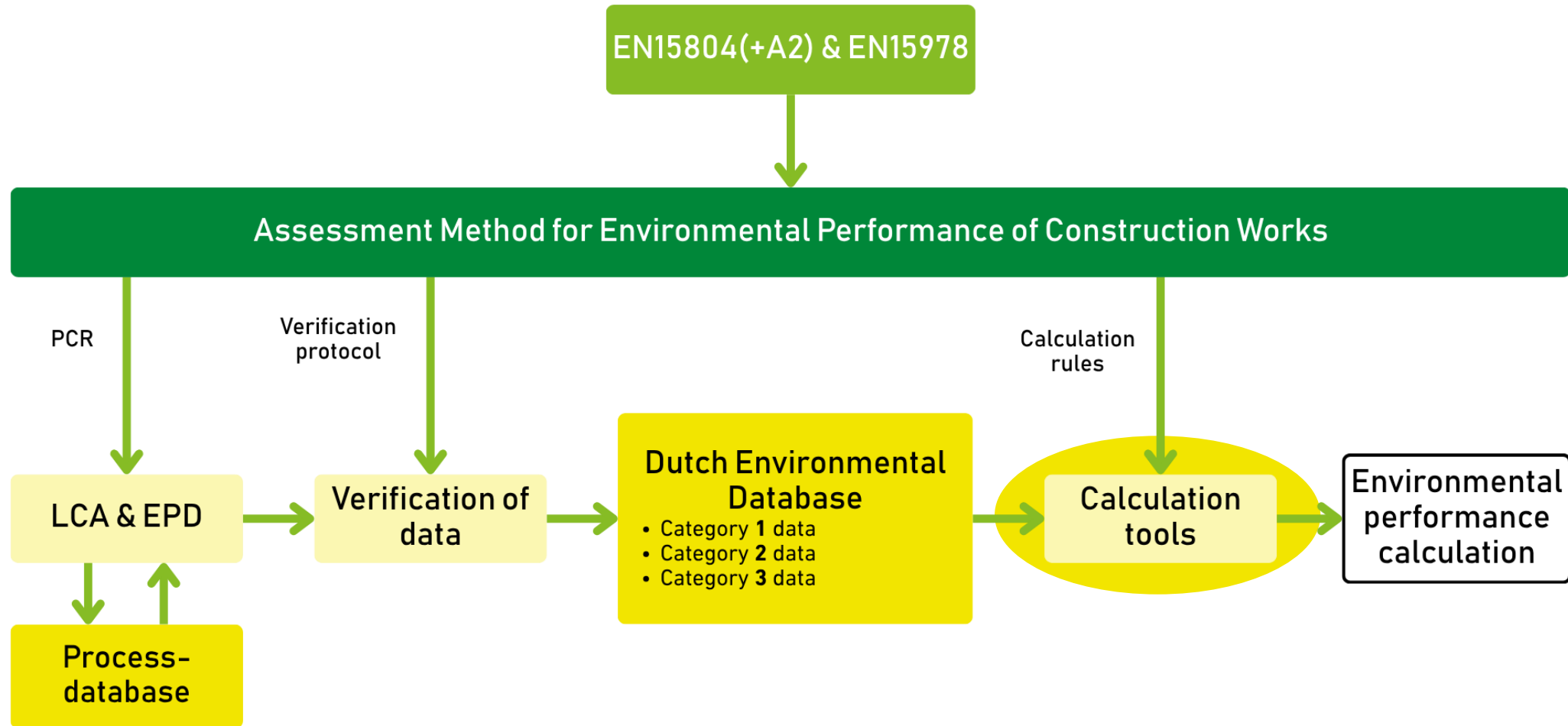
Guidelines for the review of environmental data with the aim of assessing whether the submitted environmental data has been prepared in accordance with the Assessment Method

Independent reviewers assess, among other things:

- whether the LCA has been carried out according to the correct PCR
- whether the calculations are reproducible
- whether the background data is representative

Set out in the NMD Review Protocol (designated by the Assessment Method)

Assessment Method for the Environmental Performance of Construction Works

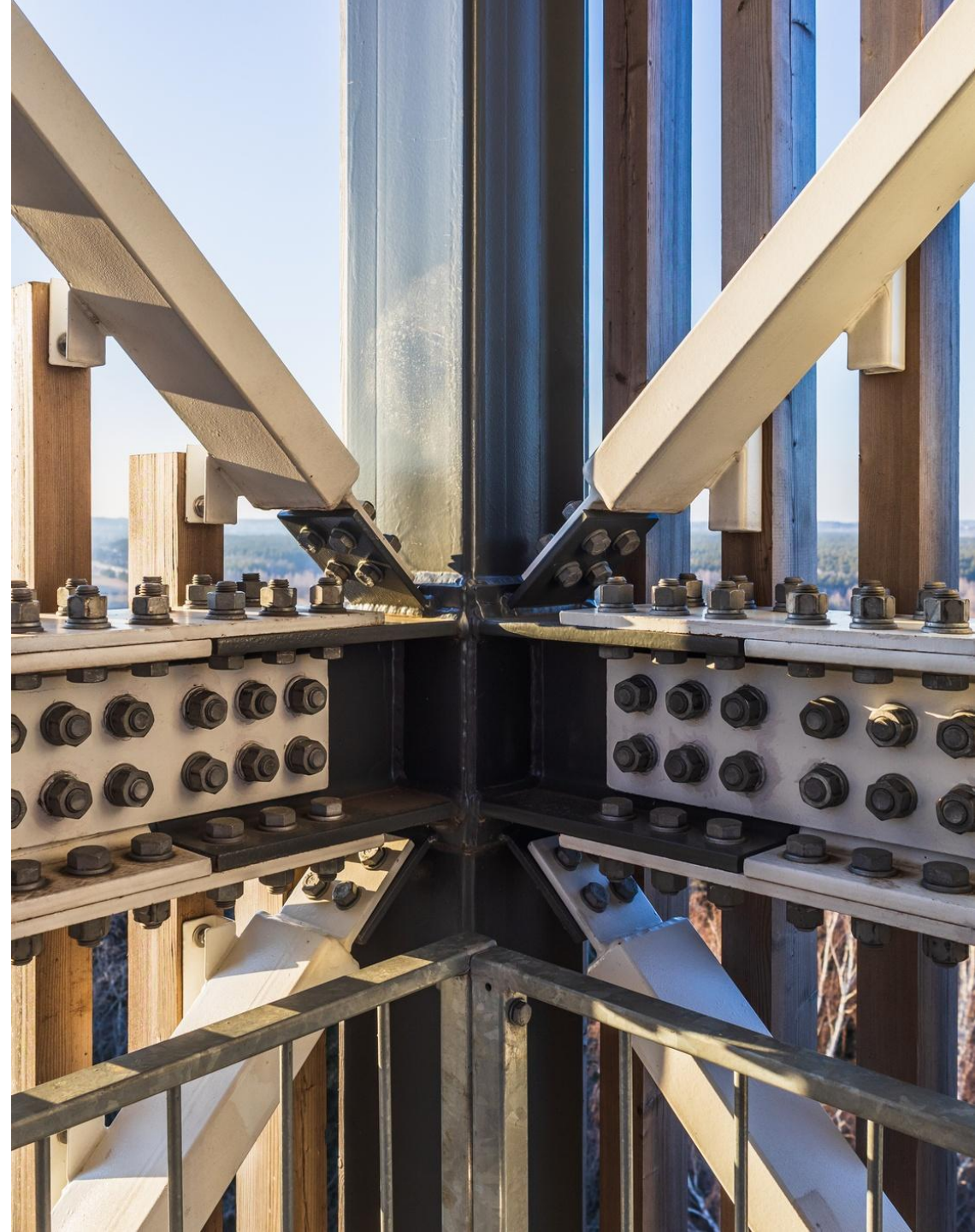


Calculation rules at construction work level

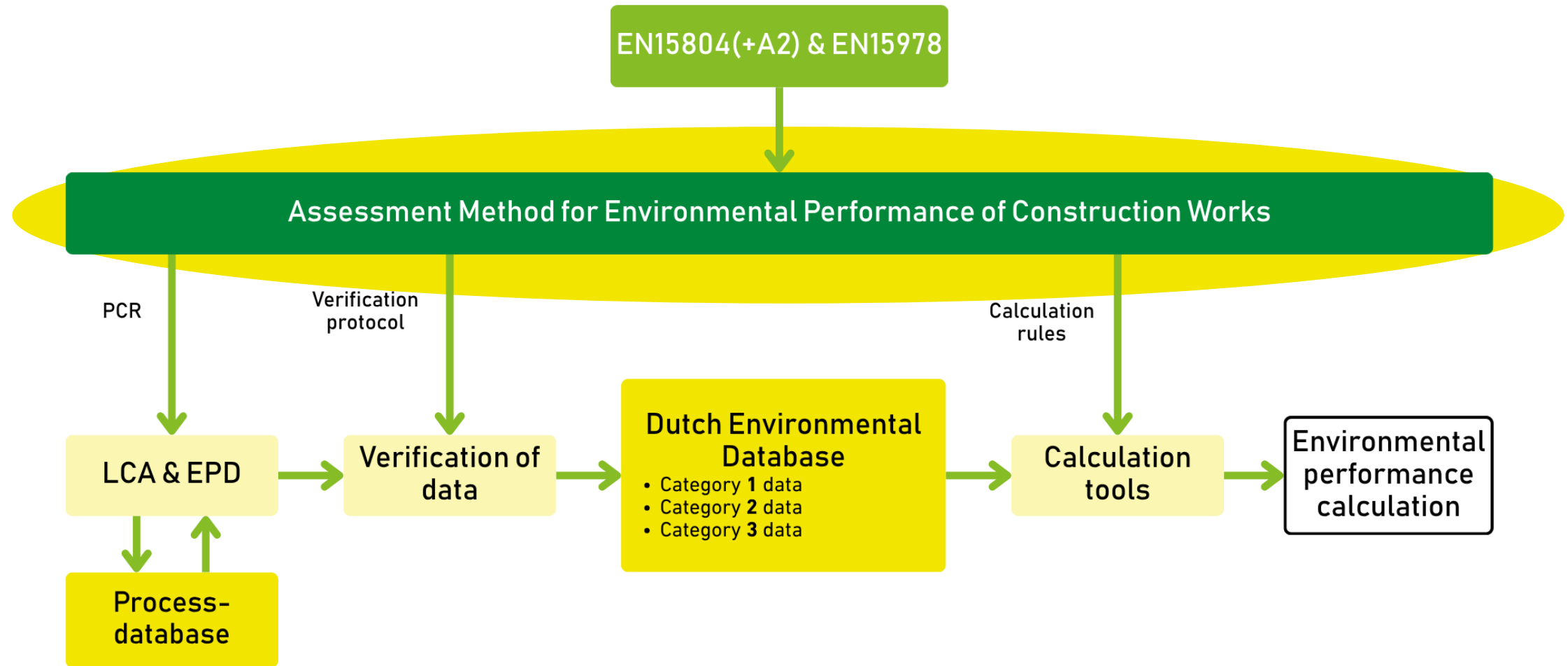
How products are combined into a construction work in **online calculation software (calculation tools)** offered by validated calculation tool owners

MPG (B&U): mandatory under the Bbl; calculates the environmental performance of buildings (per m² GFA per year)

ECI (GWW): used in tenders; expresses environmental impact in euros



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Environmental Performance Assessment Method for Construction Works

Calculation method to determine the environmental performance
of construction works throughout their service life,
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Assessment Method for Environmental Performance of Construction Works

H1: Introduction, purpose and scope

H2: Calculation rules for determining
environmental performance at product level
(LCA methodology)

H3: Calculation rules for determining
environmental performance at construction
work level (including MPG)

H4: Environmental performance of
operational energy use (MEPG calculation)

The Assessment Method – changes

- New insights and practical experience lead to adjustments; the Assessment Method is a living document
- Updates appear as:
 - **Amendment sheets (amendments)** → official changes to the method
 - **Appendices, guidance notes and explanatory notes** → clarifications
 - **Addenda** → supplementary documents anticipating new versions
- Keeps the method up to date and practically applicable



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