



IK /
INGENIERIA

CRITICAL REVIEW REPORT

LIFE CYCLE ASSESSMENT OF:

Regular Board,
Water-Resistant Board,
Fire-Resistant Board,
Fire-Resistant Board 2.0,
Blue EX Board,
Piano Board

COMPANY:

Knauf-Orbond



REVIEWER:

Itxaso Trabudua Beika



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REVIEW STATE:

FINALISED

2022/07/22

Version 1 (post-audit)





The objectives of the critical review are:

- Ensure compliance of the Life Cycle Analysis (LCA) with the reference standards ISO 14040, ISO 14044 and EN15804+A2.
- Check the structure and disposition of the information included in the report.
- Evaluate the veracity and reliability of the information contained in the LCA.
- Verify the procedures established by the company to generate the Life Cycle Inventory (LCI) data
- Check that the methods used to perform the LCA are scientifically and technically valid
- Check that data used is appropriate and reasonable in relation to the scope of the LCA
- Check that the LCA report is transparent, coherent and understandable
- In case that any deviation from the reference standards is made, check that the "how", the "why" and its justification are clearly established.

The basic reference standards used to carry out this critical review have been:

- UNE-EN ISO 14040: 2006. Environmental Management Life Cycle Assessment Principles and framework.
- UNE-EN ISO 14044: 2006. Environmental Management Life Cycle Assessment Requirements and guidelines.
- EN 15804:2012+A2:201 Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products

Knauf-Orbond submitted to the reviewer the following documentation for the process:

- Life Cycle Assessment Orbond - 6 Plasterboards.docx
- LCI.xlsx
- Simapro 9.3.0.3 software

Legend of notes:

- Normal text: Notes, comments and/or observations on the current section
- *Text in italics*: Texts taken directly from the report, as reference
- **Bold normal text**: Conclusions or recommendations
- MANDATORY (M)/ OPTIONAL (O)
- Indications in the column "PROPOSAL TO REVIEW"
 - YES: It is necessary to review / correct / update the current notes related information or data.
 - OPT: Optional. It would be advisable to include details about the current notes, to improve the clarity of the LCA report and facilitate its understanding and interpretation.
 - NOTE FOR VERIFICATION: attention marks about information, data or similar that needs to be ready to be traceable in the reviewing process of the LCA, because the reviewer should check them in detail.
 - [NOTE AFTER VERIFICATION]: applicable for "YES" and "NOTE FOR VERIFICATION" indications. Annotations that ensure the resolution of deviations.

