

## ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

### PROMATECT®-H



#### Product description

PROMATECT®-H is fire protective calcium silicate board, composed of a calcium silicate matrix, cement and mineral fillers. The board is off-white in colour and has a smooth upper surface and an embossed or sanded reverse face. The board is resistant to moisture, of stable dimensions, large format and self-supporting.

#### Declared/Functional Unit

Results below are related to the production and Installation of 1m<sup>2</sup> of the board with thickness<sup>(1)</sup> 20 mm installed on structural steelwork. The mass of the declared unit is 18.8 kg.

|                      |                          |                                |               |
|----------------------|--------------------------|--------------------------------|---------------|
| EPD Program operator | EPD HUB                  | LCI Database/ Calculation date | Ecoinvent 3.8 |
| EPD registration no° | HUB-2532                 | Geographical scope             | Europe        |
| Validity period      | 31/01/2025-30/01/2030    | Manufacturing location         | Belgium       |
| Followed standards   | EN 15804+A2<br>ISO 14025 | Reference year                 | 2023          |

### KEY ASSESSMENT RESULTS

| CARBON FOOTPRINT  | Total Global Warming Potential (GWP)<br>including fossil, biogenic and luluc GWP |
|---|--|
| Product - Cradle to gate [A1–A3] <sup>(2)</sup>   | 9.5 kgCO <sub>2</sub> -Eq./m <sup>2</sup>  |
| Embodied Carbon - Cradle to Grave, Modules [A1-A3, A4 <sup>(3)</sup> , A5, B1-B5 and C1-C4 <sup>(4)</sup> | 10.8 kgCO <sub>2</sub> -Eq./m <sup>2</sup>                                       |

- (1) : The environmental impacts of PROMATECT-H with other thicknesses can be considered as proportional to the thickness. Accordingly, for any actual board thickness, the environmental impacts for the actual board thickness can be easily obtained by multiplying the results in this EPD by the ratio (actual thickness (mm) / 20 mm).
- (2) : The manufacturing site uses natural gas and 100% green electricity as energy sources during manufacturing.
- (3) : For the transportation from the production plant to the job-site, a scenario was assumed with a transportation distance of 100 km via lorry. For other transportation distances, the impacts can be calculated by multiplying module A4 impact with the transport distance to the specific location and dividing by 100.
- (4) : We have considered in the table that 100% of boards and fixing materials from post-consumer demolition wastes are going to recycling at end of life. In the EPD document, both 100% recycling and 100% landfilling scenarios are declared.

| Product         |                         |                      | Construction      |                              | Building maintenance and use - B |             |        |             |               |                               |                              | Building End of Life - C |                           |           |          |
|-----------------|-------------------------|----------------------|-------------------|------------------------------|----------------------------------|-------------|--------|-------------|---------------|-------------------------------|------------------------------|--------------------------|---------------------------|-----------|----------|
| A1              | A2                      | A3                   | A4                | A5                           | B1                               | B2          | B3     | B4          | B5            | B6                            | B7                           | C1                       | C2                        | C3        | C4       |
| Raw Material    | RM Transport to Factory | Manufacture products | Transport to site | Construction of the building | Use                              | Maintenance | Repair | Replacement | Refurbishment | Energy use for Building usage | Water Use for Building usage | Demolishing the building | Haul away waste materials | Recycling | Disposal |
| Embodied carbon |                         |                      |                   |                              |                                  |             |        |             |               |                               | Embodied carbon              |                          |                           |           |          |

For the full EPD, visit: [Home | EPD Hub](#)

For additional product information, visit: [PROMATECT®-H](#)