

## Trespa International BV

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Environmental Profile Certificate  
**13/EP1004**  
Product Sheet 2

### TRESPA WALL CLADDING

### METEON PANELS

This Environmental Profile Certificate relates to Meteon Panels manufactured by the Certificate holder at their premises in Weert, The Netherlands.

## Building Element Information

1 m<sup>2</sup> of external wall comprising: Meteon Panel (8 mm) and steel support, breather membrane, insulation, structural steel frame, medium dense solid blockwork with cement mortar, plasterboard on battens, paint.

| Panel type | Building type <sup>(1)</sup> | Ecopoint score | Green Guide Rating <sup>(1)</sup> |
|------------|------------------------------|----------------|-----------------------------------|
| Standard   | All                          | 0.74           | A                                 |
| FR         | All                          | 0.86           | B                                 |

(1) As defined in the 2008 BRE Global Green Guide.

## Environmental Profile — Cradle-to-Grave for the building element

This environmental profile relates to the above building element over a 60-year study period.

| Embodied environmental impact                    | Characterised data per m <sup>2</sup>   |          |                 |
|--|---|----------|-----------------|
|  | Unit                                    | Standard | FR (Fire Rated) |
| Global warming (GWP) <sup>(1)</sup>              | kg CO <sub>2</sub> eq.                  | 140      | 160             |
| Depletion of the stratospheric ozone layer (ODP) | kg CFC-11 eq.                           | 0.00014  | 0.00015         |
| Acidification of land and water sources (AP)     | kg SO <sub>2</sub> eq.                  | 0.95     | 1.10            |
| Eutrophication (EP)                              | kg (PO <sub>4</sub> ) <sup>-3</sup> eq. | 0.091    | 0.131           |
| Photochemical ozone creation (PCOC)              | kg ethane eq.                           | 0.19     | 0.32            |
| Water extraction <sup>(2)</sup>                  | m <sup>3</sup>                          | 1.57     | 2.27            |
| Raw materials extraction                         | tonne                                   | 0.19     | 0.23            |
| Fossil fuel depletion                            | MJ                                      | 2400     | 2500            |
| Waste disposal                                   | kg                                      | 74.2     | 76.1            |
| Nuclear waste (higher level)                     | m <sup>3</sup> high level waste         | 2.0E-07  | 2.4E-07         |
| Human toxicity to air and water                  | kg 1,4-DB eq.                           | 67       | 96              |
| Ecotoxicity to fresh water                       | kg 1,4-DB eq.                           | 8.0      | 10.5            |
| Ecotoxicity to land                              | kg 1,4-DB eq.                           | 0.3      | 0.3             |

(1) Global warming can also be referred to as 'Embodied carbon' or 'Climate change'.

(2) Water extraction can also be referred to as 'Embodied water'.

The BBA (British Board of Agrément) has issued this Environmental Profile Certificate to the company named above for the system described herein.

On behalf of the BBA

Date of First issue: 11 March 2013

John Albon  
Technical Manager

Greg Cooper  
Chief Executive

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at [www.bbacerts.co.uk](http://www.bbacerts.co.uk)

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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# Product Information

## Environmental Profile — Cradle-to-Gate for the product

This environmental profile relates to Meteon Panels manufactured by Trespa International BV at Weert, The Netherlands.

| Embodied environmental impact                    | Characterised data per tonne            |            |                 |
|--|---|------------|-----------------|
|  | Unit                                    | Standard   | FR (Fire Rated) |
| Global warming (GWP) <sup>(1)</sup>              | kg CO <sub>2</sub> eq.                  | 1400       | 2200            |
| Depletion of the stratospheric ozone layer (ODP) | kg CFC-11 eq.                           | 0.0023     | 0.0029          |
| Acidification of land and water sources (AP)     | kg SO <sub>2</sub> eq.                  | 9.1        | 16              |
| Eutrophication (EP)                              | kg (PO <sub>4</sub> ) <sup>-3</sup> eq. | 1.5        | 3.3             |
| Photochemical ozone creation (PCOC)              | kg ethane eq.                           | 5          | 11              |
| Water extraction <sup>(2)</sup>                  | m <sup>3</sup>                          | 40         | 73              |
| Raw materials extraction                         | tonne                                   | 0.38       | 2.1             |
| Fossil fuel depletion                            | MJ                                      | 51000      | 57000           |
| Waste disposal                                   | kg                                      | 120        | 210             |
| Nuclear waste (higher level)                     | m <sup>3</sup> high level waste         | 0.0000045  | 0.0000064       |
| Human toxicity to air and water                  | kg 1,4-DB eq.                           | 1900       | 3300            |
| Ecotoxicity to fresh water                       | kg 1,4-DB eq.                           | 200        | 320             |
| Ecotoxicity to land                              | kg 1,4-DB eq.                           | 3.9        | 7.5             |
| <b>Ecopoint Score per tonne (product)</b>        |   | <b>8.9</b> | <b>14.8</b>     |

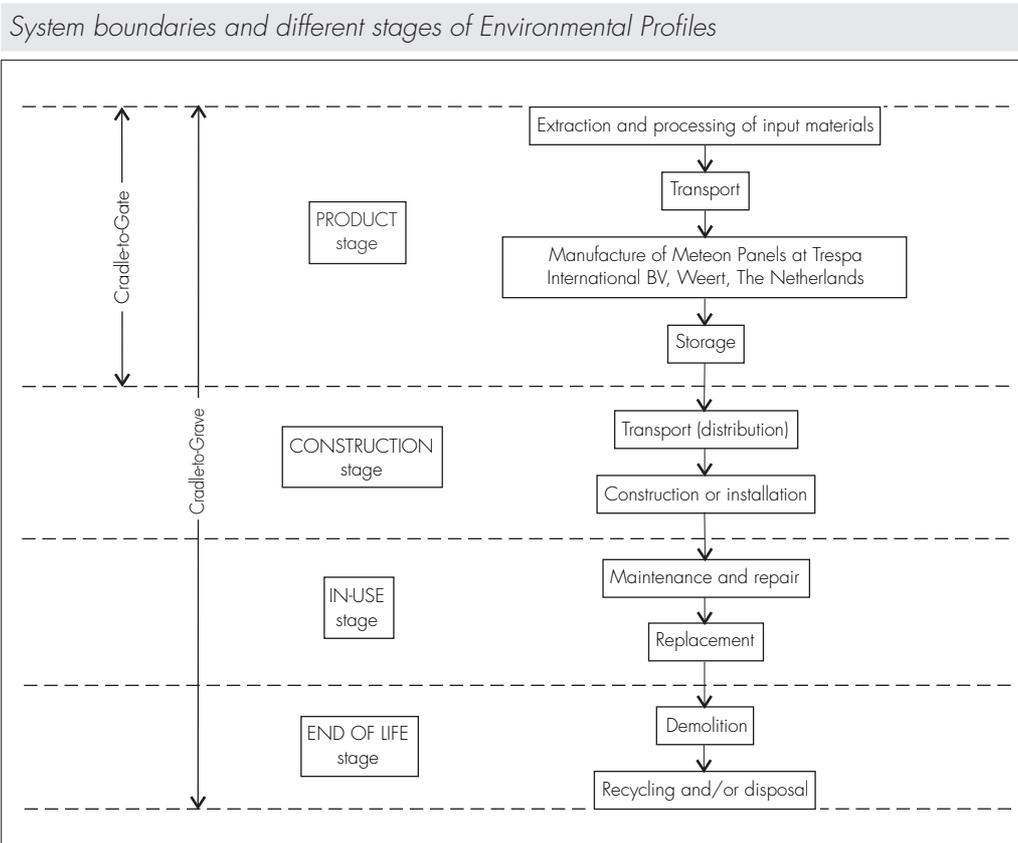
(1) Global warming can also be referred to as 'Embodied carbon' or 'Climate change'.

(2) Water extraction can also be referred to as 'Embodied water'.

## Methodology

This environmental profile has been calculated using the BBA Environmental Profile Methodology, under licence using BRE Global's Environmental Profiles Methodology (2008) and underpinning databases.

## Boundaries



## Basis of the Calculations

Assumptions used as the basis of the calculations of this Certificate, are:

|                                |   |
|--------------------------------|---|
| <b>Product range</b>           | Meteon Panels are formed under high temperature and pressure from thermosetting resins, homogeneously reinforced with wood fibres or impregnated paper. As part of the manufacturing process, a decorative surface, made of acrylic urethane coating layers on a substrate of décor paper, is bonded to the exterior face of the panels. The panels are available in both standard and fire resistant (FR) grades. Panel size range is: 1530 mm x 3050 mm, 1860 mm x 2550 mm, 1860 mm x 3650 mm, and 2130 mm x 4270 mm. |
| <b>Site(s)</b>                 | Trespa International BV, Weert, The Netherlands.  |
| <b>Functional unit</b>         | 1 m <sup>2</sup> of external wall construction, to satisfy current building regulations, and a U value of 0.3 W·m <sup>-2</sup> ·K <sup>-1</sup>  |
| <b>Building element</b>        | 1 m <sup>2</sup> of external wall comprising: Meteon Panel (8 mm) and steel support, breather membrane, insulation, structural steel frame, medium-dense solid blockwork with cement mortar, plasterboard on battens, paint.  |
| <b>Application rate</b>        | N/A   |
| <b>Service life of product</b> | 50 years, as per the 2008 BRE Global Green Guide. This may differ from the durability quoted in a BBA Certificate for the product due to the different methodologies and parameters employed  |
| <b>Ecopoint score</b>          | UK score for the overall environmental impact of a product within a building element based on the UK weighting system described in the 2008 BRE Global Green Guide and normalised to one Western European Citizen for one year.   |

## Data Sources

|                        |  |
|------------------------|--|
| <b>Cradle-to-Gate</b>  | data has been calculated using the Certificate holder's data and has been verified by the BBA.   |
| <b>Cradle-to-Grave</b> | values have been modelled using a theoretical approach used for generic model for 'other building materials' (BRE Global Green Guide 2008) including: <ul style="list-style-type: none"><li>• <b>Transport — Gate-to-Installation site</b> — generic model for 'other building materials' (BRE Global Green Guide 2008) for distribution within the UK.</li><li>• <b>Installation</b> — wastage model (BRE Global Green Guide 2008).</li><li>• <b>Maintenance</b> — no maintenance model has been used.</li><li>• <b>End of life</b> — generic end-of-life disposal route model for the percentage of material sent to each disposal route (landfill, incineration, recycling and reuse), demolition and refurbishment (BRE Global Green Guide 2008).</li><li>• <b>Service life</b> — BRE Global Green Guide 2008.</li></ul> |

## Other Information

### BBA Certificate

Meteon Panels have been awarded BBA Certificate 99/3629. Further details can be obtained from the BBA website: [www.bbacerts.co.uk](http://www.bbacerts.co.uk).

### Environmental Management System (EMS)/ISO 14001

The environmental management system for Trespa International BV has been assessed and registered as meeting the requirements of BS EN ISO 14001 : 2004 by Lloyd's Register Nederland BV under Certificate No RQA658417.

### Quality Management System (QMS)/ISO 9001

The quality management systems for Trespa International BV have been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2008 by Lloyd's Register Nederland BV under Certificate No RQA936637.

# Conditions of Certification

## Conditions

This Certificate:

- relates only to the product/system and manufacturing sites named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold this Certificate or claim it has been issued to them
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English Law.

Publications, documents, specifications and similar matter that are referred to herein, are those that were current at the date of issue or re-issue of this Certificate, except where deemed otherwise.

This Certificate and its continuance is determined by the BBA and, in general, it will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate
- meet any requirements judged relevant by the BBA.

The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is given or implied.

In issuing this Certificate, the BBA is not responsible; and is excluded from any liability to any company, firm, organisation or person; for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal.

This Certificate does not include any assessment of product quality, durability or performance.

Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate, is the minimum required to be met when the product/system is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.