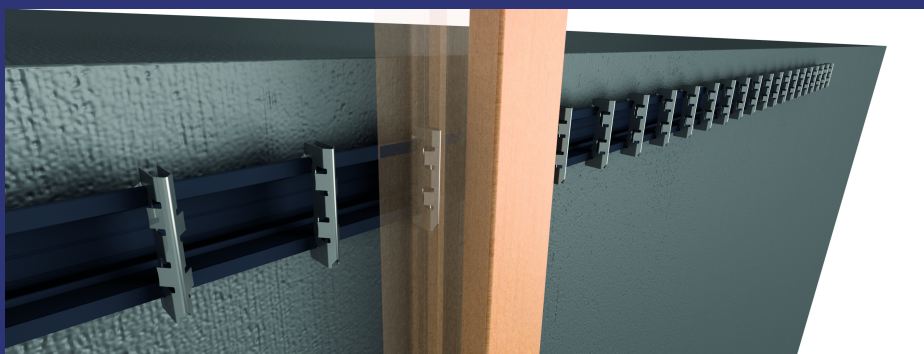




**Environmental  
Product  
Declaration**  
ISO14025+EN15804+A2

This declaration is for:  
**ValkClick Board L=1979 C=51**  
Provided by:  
**Van der Valk Building Systems B.V.**



MRPI® registration:  
**00102.2026.1.0**  
Program operator:  
**Stichting MRPI**  
Publisher:  
**Stichting MRPI**  
**www.mrpi.nl**

Date of first issue:  
**22-10-2026**  
Date of this issue:  
**22-10-2026**  
Expiry date:  
**22-10-2031**

## COMPANY INFORMATION

Van der Valk Building Systems B.V.  
 Zwartendijk 73  
 2681 LP

Monster  
 Netherlands  
 +31-174254999

<https://www.valkbuildingsystems.com>

## MRPI® REGISTRATION

00102.2026.1.0

## DATE OF THIS ISSUE

22-10-2026

## EXPIRY DATE

22-10-2031

## SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Mol, Tim, EcoReview NL B.V.. The LCA study has been done by Yong, Kean, WaveTen. The certificate is based on a LCA-dossier According to ISO14025+EN15804+A2. It is verified according to the. 'Verification protocol for MRPI LCA project report & EPD 16th of April 2026, V. 5.3'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2.

## PROGRAM OPERATOR

Stichting MRPI  
 Kingsfordweg 151  
 1043 GR  
 Amsterdam

## PRODUCT

ValkClick Board L=1979 C=51

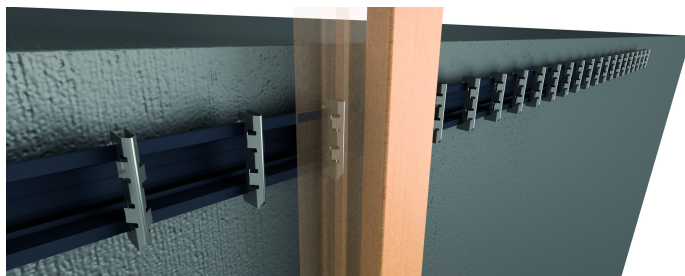
## DECLARED AND FUNCTIONAL UNIT

Piece (1 piece)

## DESCRIPTION OF PRODUCT

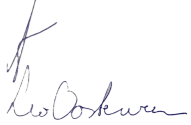
A product for the reliable fixation of façade panels and cladding elements (suitable for exterior and interior applications). The product is composed of an aluminium profile with pre-mounted stainless steel clips click-on fixation of the façade panels and cladding elements and a coupling piece to connect the profiles. The reference for the LCA is based on one ValkClick Board L= 1979 C=51 profile with pre-mounted clips including a coupling piece. The results in this EPD are the equal to the described reference unit.

## VISUAL PRODUCT



## MORE INFORMATION

<https://www.valksolarsystems.com>

|                                                                                     |                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <p><b>Ing. L. L. Oosterveen MSc. MBA</b><br/> <b>Managing Director MRPI</b></p>     | <p>Demonstration of verification</p>                                                                                |
|                                                                                     | <p>CEN standard EN15804 serves as the core PCR [1]</p>                                                              |
|  | <p>Independent verification of the declaration and data</p> <p>ISO14025+EN15804+A2</p> <p>Internal: External: X</p> |
|                                                                                     | <p>Independent verifier: Mol, Tim, EcoReview NL B.V..</p>                                                           |
|                                                                                     |                                |
|                                                                                     | <p>[1] PCR = Product Category Rules</p>                                                                             |

## DETAILED PRODUCT DESCRIPTION

ValkClick Board L=1979 C=51 is a product for the reliable fixation of façade panels and cladding elements (suitable for exterior and interior applications).

The reference for the LCA is based on one ValkClick Board L= 1979 C=51 profile with pre-mounted clips including a coupling piece. The reference for the LCA is based on one ValkClick Board L= 1979 C=51 profile with pre-mounted clips including a coupling piece.

The product is composed of an aluminium profile with pre-positioned stainless steel clips click-on fixation of the façade panels and cladding elements and a coupling piece to connect the profiles.

A single profile has a length of 1979 mm and has 51 stainless steel clips pre-mounted.

The system is made of aluminium (profile and coupling piece) and stainless steel (clips).

Façade panels / cladding elements and screws are excluded.

Product lifespan / Reference Service Life is 25 years.

| Component (> 1%)    | (kg / %) |
|---------------------|----------|
| Aluminium (Alcomet) | 82.7     |
| Stainless Steel     | 17.3     |

| Biogenic carbon content                                               | Unit | Amount of uptake per functional unit |
|-----------------------------------------------------------------------|------|--------------------------------------|
| Biogenic carbon content in product                                    | Kg C | 0                                    |
| Biogenic carbon content in accompanying packaging                     | Kg C | 0                                    |
| Note that 1 kg of biogenic carbon is equivalent to 44 / 12 kg of CO2. |      |                                      |

## SCOPE AND TYPE

Background database: Ecoinvent 3.9.1  
 Method: Cut-off, EN 15804+A2  
 Software: Mobius 1.2.1207  
 Characterization factor: Environmental Footprint (EF) 3.1

This EPD is based on a cradle-to-grave study (modules A1-D) of the ValkClick Board L=1979 C=51 façade fixing profile, declared per piece. The product is manufactured by Van der Valk Solar Systems B.V. in 's-Gravenzande, the Netherlands, and applied in the Netherlands and Europe.

The end-of-life stage follows the NMD Dutch standardised scenarios (Forfaitaire waarden verwerkingsscenario's einde leven, May 2024).

The LCA uses Van der Valk production data from 2025 and was modelled in Ecochain Mobius 1.2.1207.

Background data come from the ecoinvent v3.9.1 database (cut-off system model, released 2022). No supplier EPDs are used.

Results are characterised with the EF 3.1 method, in line with EN 15804+A2.

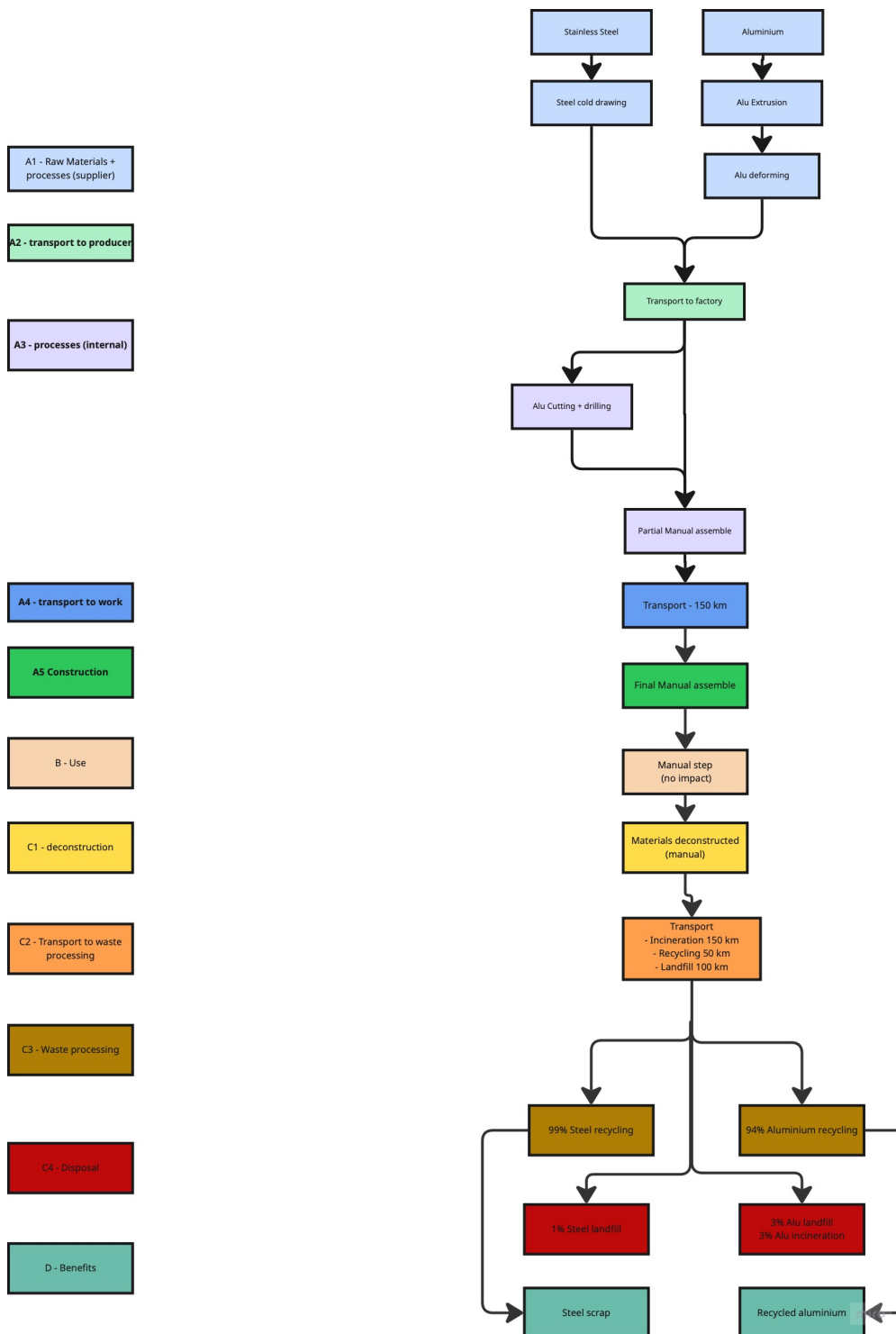
The optional additional environmental impact indicators specified in EN 15804+A2 are not declared in this EPD.

This is a specific EPD: it covers this product only and is not an average of a product group.



| PRODUCT STAGE       |           |               | CONSTRUCTION PROCESS STAGE |          | USE STAGE |             |        |             |               |                        |                       | END OF LIFE STAGE          |           |                  |          | BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES |
|---------------------|-----------|---------------|----------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------------------------------------------------|
| Raw material supply | Transport | Manufacturing | Transport gate to site     | Assembly | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse - Recovery - Recycling potential          |
| A1                  | A2        | A3            | A4                         | A5       | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                                               |
| x                   | x         | x             | x                          | x        | x         | x           | x      | x           | x             | ND                     | ND                    | x                          | x         | x                | x        | x                                               |

X = Modules Assesed  
 ND = Not Declared





## ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (CORE INDICATORS A2)

| Unit                             |                         | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1       | B2       | B3       | B4       | B5       | B6 | B7 | C1       | C2       | C3       | C4       | D         |
|----------------------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|----|----------|----------|----------|----------|-----------|
| <b>GWP-total</b>                 | kg CO2 eq               | 4.26E+00 | 2.59E-01 | 2.25E-02 | 4.54E+00 | 1.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 5.52E-03 | 4.30E-01 | 6.81E-04 | -6.34E-01 |
| <b>GWP-fossil</b>                | kg CO2 eq               | 4.23E+00 | 2.58E-01 | 1.94E-02 | 4.51E+00 | 1.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 5.49E-03 | 4.18E-01 | 6.73E-04 | -6.33E-01 |
| <b>GWP-biogeni c</b>             | kg CO2 eq               | 1.65E-02 | 2.35E-04 | 3.02E-03 | 1.98E-02 | 2.36E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 8.57E-06 | 1.18E-02 | 7.27E-06 | 4.92E-04  |
| <b>GWP-luluc</b>                 | kg CO2 eq               | 1.04E-02 | 1.26E-04 | 1.32E-05 | 1.05E-02 | 5.40E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.96E-05 | 4.41E-04 | 7.19E-07 | -1.53E-03 |
| <b>ODP (A2)</b>                  | kg CFC11 eq             | 5.07E-08 | 5.65E-09 | 4.25E-10 | 5.68E-08 | 2.69E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 9.77E-11 | 7.75E-09 | 7.85E-12 | -8.08E-09 |
| <b>AP mol H+</b>                 | mol H+ eq               | 2.64E-02 | 1.07E-03 | 8.37E-05 | 2.75E-02 | 7.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 2.63E-05 | 5.48E-03 | 4.30E-06 | -3.91E-03 |
| <b>EP-freshwater</b>             | kg P eq                 | 1.57E-04 | 2.08E-06 | 1.42E-06 | 1.60E-04 | 1.51E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 5.46E-08 | 2.71E-05 | 2.17E-08 | -2.20E-05 |
| <b>EP-marine</b>                 | kg N eq                 | 4.24E-03 | 4.04E-04 | 2.30E-05 | 4.67E-03 | 2.75E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 9.99E-06 | 4.51E-04 | 1.08E-06 | -6.40E-04 |
| <b>EP-terrestrial</b>            | mol N eq                | 4.71E-02 | 4.35E-03 | 2.09E-04 | 5.17E-02 | 2.94E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.07E-04 | 5.71E-03 | 1.20E-05 | -7.15E-03 |
| <b>POCP kg NMVOC</b>             | kg NMVOC eq             | 1.48E-02 | 1.56E-03 | 8.11E-05 | 1.65E-02 | 1.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 3.64E-05 | 1.86E-03 | 3.96E-06 | -2.43E-03 |
| <b>ADP-minerals &amp; metals</b> | kg Sb eq                | 5.38E-05 | 8.35E-07 | 1.17E-07 | 5.47E-05 | 4.74E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.72E-08 | 5.58E-05 | 1.34E-09 | -6.51E-06 |
| <b>ADP-fossil</b>                | MJ, net calorific value | 4.55E+01 | 3.69E+00 | 2.10E-01 | 4.94E+01 | 2.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 7.87E-02 | 4.72E+00 | 9.65E-03 | -6.22E+00 |
| <b>WDP</b>                       | m3 world eq. Deprived   | 1.13E+00 | 1.51E-02 | 2.71E-04 | 1.14E+00 | 1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 3.98E-04 | 3.16E-01 | 2.54E-04 | -1.36E-01 |

GWP-total = Global Warming Potential total  
 GWP-fossil = Global Warming Potential fossil fuels  
 GWP-biogenic = Global Warming Potential biogenic total  
 GWP-LULUC = Global Warming Potential land use and land use change  
 ODP = Depletion potential of the stratospheric ozone layer  
 AP = Acidification Potential, Accumulated Exceedence  
 AP-freshwater = Eutrophication Potential, fraction of nutrients reaching freshwater end compartment  
 EP-marine = Eutrophication Potential, fraction of nutrients reaching marine end compartment  
 EP-terrestrial = Eutrophication Potential, Accumulated Exceedence  
 POCP = Formation potential of tropospheric ozone photochemical oxidants  
 ADP-minerals & metals = Abiotic Depletion Potential for non-fossil resources [1]  
 ADP-fossil = Abiotic Depletion for fossil resources potential [1]  
 WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [1]:

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.





## ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (ADDITIONAL INDICATORS A2)

| Unit   |                   | A1 | A2 | A3 | A1-A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D  |
|--------|-------------------|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| PM     | Disease incidence | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| IRP    | kBq U235 eq       | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ETP-fw | CTUe              | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HTP-c  | CTUh              | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HTP-nc | CTUh              | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SQP    | -                 | ND | ND | ND | ND    | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

PM = Potential incidence of disease due to particulate matter emissions  
 IRP = Potential Human exposure efficiency relative to U235 [1]  
 ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]  
 HTP-c = Potential Comparative Toxic Unit for humans, cancer [2]  
 HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]  
 SQP = Potential soil quality index [2]

### Disclaimer [1]:

- This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste.

### Disclaimer [2]:

- The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.



## OUTPUT FLOWS AND WASTE CATEGORIES PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

| Unit |    | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1       | B2       | B3       | B4       | B5       | B6 | B7 | C1       | C2       | C3       | C4       | D         |
|------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|----|----------|----------|----------|----------|-----------|
| HWD  | kg | 2.38E-03 | 2.35E-05 | 1.29E-06 | 2.40E-03 | 1.38E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 5.02E-07 | 4.63E-03 | 3.23E-08 | -2.58E-04 |
| NHWD | kg | 1.30E+00 | 1.80E-01 | 8.37E-03 | 1.49E+00 | 1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 5.20E-03 | 7.87E-02 | 1.83E-02 | -1.07E-01 |
| RWD  | kg | 6.95E-05 | 1.20E-06 | 2.86E-07 | 7.10E-05 | 4.96E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.80E-08 | 9.06E-06 | 1.02E-08 | -3.42E-06 |
| CRU  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| MFR  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 6.22E-01 | 0.00E+00 | 0.00E+00  |
| MER  | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 1.68E-02 | 0.00E+00 | 0.00E+00  |
| EEE  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| ETE  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |

HWD = Hazardous Waste Disposed  
 NHWD = Non Hazardous Waste Disposed  
 RWD = Radioactive Waste Disposed  
 CRU = Components for reuse  
 MFR = Materials for recycling  
 MER = Materials for energy recovery  
 EEE = Exported Electrical Energy  
 ETE = Exported Thermal Energy



## RESOURCE USE PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

| Unit  |    | A1       | A2       | A3       | A1-A3    | A4       | A5       | B1       | B2       | B3       | B4       | B5       | B6 | B7 | C1       | C2       | C3       | C4       | D         |
|-------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|----|----------|----------|----------|----------|-----------|
| PERE  | MJ | 6.46E+00 | 5.73E-02 | 2.14E-02 | 6.54E+00 | 3.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.11E-03 | 7.24E-01 | 6.42E-04 | -5.78E-01 |
| PERM  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| PERT  | MJ | 6.46E+00 | 5.73E-02 | 2.14E-02 | 6.54E+00 | 3.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.11E-03 | 7.24E-01 | 6.42E-04 | -5.78E-01 |
| PENRE | MJ | 4.84E+01 | 3.92E+00 | 2.23E-01 | 5.26E+01 | 2.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 8.37E-02 | 5.07E+00 | 1.03E-02 | -6.61E+00 |
| PENRM | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| PENRT | MJ | 4.84E+01 | 3.92E+00 | 2.23E-01 | 5.26E+01 | 2.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 8.37E-02 | 5.07E+00 | 1.03E-02 | -6.61E+00 |
| SM    | kg | 4.71E-01 | 0.00E+00 | 0.00E+00 | 4.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| RSF   | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| NRSF  | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| FW    | m3 | 3.56E-02 | 4.90E-04 | 4.46E-05 | 3.62E-02 | 4.88E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND | ND | 0.00E+00 | 1.77E-05 | 8.42E-03 | 6.58E-06 | -4.03E-03 |

- PERE = Use of renewable primary energy excluding renewable primary energy used as raw materials
- PERM = Use of renewable primary energy resources used as raw materials
- PERT = Total use of renewable primary energy resources
- PENRE = Use of non-renewable primary energy resources excluding non-renewable energy resources used as raw materials
- PENRM = Use of non-renewable primary energy resources used as raw materials
- PENRT = Total use of non-renewable primary energy resources
- SM = Use of secondary materials
- RSF = Use of renewable secondary fuels
- NRSF = Use of non-renewable secondary fuels
- FW = Use of net fresh water

## CALCULATION RULES

The LCA follows the EN 15804:A2 methodology, with the functional unit defined per space, panel, or piece to enable linear scaling.

**Cut Off**  
All known inputs and outputs like emissions, energy and materials have been considered in this LCA. And in accordance EN15804+A2, the total neglected input flows per module do not exceed 5% of energy usage or mass.

It is assumed that capital goods and infrastructure processes have a negligible contribution and are therefore excluded from the LCA, except where they are included in the ecoinvent background data.

**Data collection**  
Primary production data were collected for 2025 from Van der Valk's ERP system, complemented by background data from Ecoinvent v3.9.1.

**Allocation**  
No allocation was required, as the system covers a single product with no co-products or by-products.

## DATA QUALITY

Primary data (Van der Valk 2025 production) is used for on-site processes; Ecoinvent v3.9.1 background data is used elsewhere.

No specific, published EPD was used for this product.

All materials (aluminium, which represents ~82.7% of total product mass, and stainless steel) are modelled using generic Ecoinvent v3.9.1 background datasets.

Energy use at the Van der Valk factory is not based on primary data: drilling (A3) is modelled with the generic Ecoinvent v3.9.1 dataset "steel drilling, conventional". This dataset contributes less than 30% of every core indicator.

Data quality is assessed according to EN 15941, using Table E.1 of EN 15804+A2, Annex E.

## DATA QUALITY REPRESENTATIVENESS

| Representativeness              | Quality level | Remarks                                                                                                                                                                                          |
|---------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Geographical Representativeness | Very ...      | Data used is obtained from the area under study                                                                                                                                                  |
| Technical Representativeness    | Good          | Product data come from Van der Valk's ERP system. Factory electricity is negligible, modelled with location-based Ecoinvent background data. Supplier-specific data come from suppliers EPD.     |
| Time Representativeness         | Very ...      | <p>&lt;1 year difference</p> <p>The production data has been collected for reference year 2025.</p> <p>This data was the most recent data available at the time of conducting the LCA study.</p> |

## POWER MIX

A location-based approach is used for electricity modelling. Electricity is not modelled as a separate foreground flow with primary data from Van der Valk.

Energy use at the factory is included implicitly in the Ecoinvent v3.9.1 dataset for drilling (A3, "steel drilling, conventional"), which uses the Ecoinvent grid mix.

The factory's electricity use is negligible: A3 accounts for less than 2% of the primary energy use in A1-A3, so electricity is well below 30%



## SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

Declared unit and data basis.

One ValkClick Board profile (L=1979 mm, C=51) with pre-mounted stainless steel clips and a coupling profile (0.6762 kg), excluding façade panels, cladding elements and screws. The LCA models one piece directly, without scaling. Primary data (bill of materials, suppliers, distances) come from the Van der Valk ERP system (production year 2025).

A1. Supply of raw materials.

Aluminium and stainless steel, from the European supply chain. No supplier EPD is used; all materials use generic data, including supplier forming steps.

A2. Transport to the manufacturer.

The aluminium travels 2,426 km by lorry from Shumen (Bulgaria) and the clips 171 km from Lebbeke (Belgium) (1.38 tkm per piece).

A3. Production.

Van der Valk cuts and drills the aluminium; only drilling (0.0056 kg per piece) is modelled. Factory electricity use is negligible (0.4% of A1-A3 primary energy); it is modelled with location-based background data, not primary foreground data. The product has no packaging or plastic parts. No allocation.

A4. Transport to the project location.

By lorry over a standard 150 km: aluminium 0.084 tkm, steel 0.018 tkm.

A5. Construction and installation process.

The components are assembled manually on the façade construction without equipment: no energy or fuel. No packaging, construction loss or installation activity other than manual assembly, so A5 is zero.

B1-B7. Use stage.

Reference service life: 25 years. No maintenance, repair or replacement; no operational energy or water.

C1. Deconstruction.

Manual dismantling and sorting, without equipment, energy or fuel. No packaging, loss or demolition activity other than manual dismantling, so C1 is zero.

C2. Transport to waste processing.

By lorry: 50 km to recycling, 100 km to landfill, 150 km to incineration (Dutch NMD Forfaitaire waarden End of Life, May 2024).

C3. Waste processing.

94% Aluminium and 99% stainless steel are sorted for recycling.

C4. Final waste processing.

In C4, 1% of the steel and 3% of the aluminium is landfilled and 3% is incinerated. No material is reused.

D. Benefits and loads beyond the system boundary.

In module D, the avoided production of aluminium and steel through recycling is included. The recycled aluminium replaces cast alloy aluminium and the recycled steel replaces pig iron, net of the secondary content used in A1. No energy recovery credit is modelled.

Additional environmental impact indicators.

The additional environmental impact indicators specified in EN 15804+A2 are not declared in this EPD. These indicators are optional according to EN 15804+A2.

## DECLARATION OF SVHC

The product does not contain SVHC

## REFERENCES

ISO 14040:2006

ISO 14044:2006

ISO 14025:2006

NEN-EN 15804+A2:2019

Ecochain Mobius 1.2.1207

NMD Dutch Forfaitaire waarden verwerkingsscenario's einde leven, May 2024

**REMARKS**

The release date of Ecoinvent 3.9.1 is 2022.