

# EPD Hinge systems

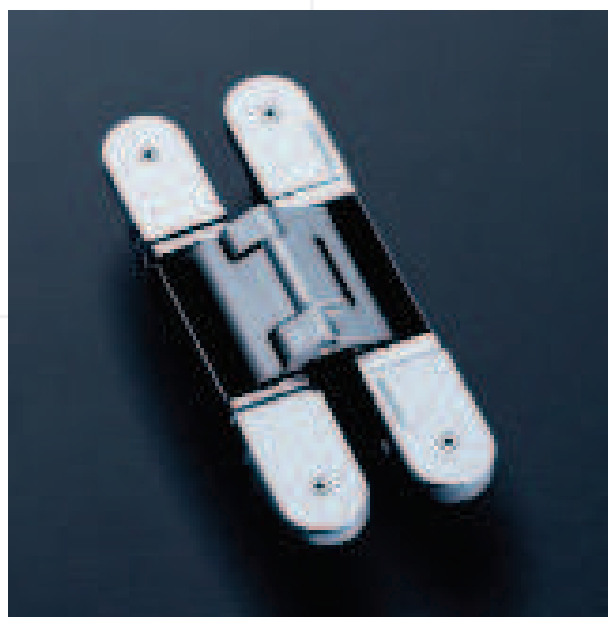
**Short version**

**Environmental Product Declaration**

Acc. to ISO 14025 and EN 15804

**Hinges for non-residential-, residential-, and entry doors  
(company EPD)**

**SIMONSWERK GmbH**



Deklaration code  
EPD-BS-GB-6.0  
March 2012

# Environmental Product Declaration in accordance with ISO 14025 and EN 15804 Summary



## Hinge systems

Programme operator	<b>ift Rosenheim GmbH</b> Theodor-Gietl-Strasse 7-9 D-83026 Rosenheim	
Holder of the declaration	<b>SIMONSWERK</b> Bosfelder Weg 5 D-33378 Rheda-Wiedenbrück	
Declaration code	EPD-BS-6.0	
Designation of declared product	<b>Hinge systems:</b> ALPRO hinges, BAKA Protect hinges, SIKU hinges, TECTUS hinges, VARIANT V hinges, VARIANT VG/VN/VX hinges	
Scope	SIMONSWERK hinge systems for residential and non-residential applications or as completely concealed hinge systems for modern, flush spatial structures. Hinge systems for two- or three-dimensional adjustment of timber entry doors and timber windows as well as for PVC entry doors for industrial, commercial or residential applications.	

### Basis

- ISO 14025:2006
- EN 15804:2012

Allgemeiner Leitfaden zur Erstellung von Typ III Umweltproduktdeklarationen (Guidance on preparing Type III Environmental Product Declarations).

This Declaration is based on the PCR document "Schloss und Beschlag" (lock and fittings), PCR-FA-1.0: 2011

### Validity

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### LCA basis

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### Notes on publication

The "Conditions and Guidance on the Use of ift Test Documents" apply.

LCA results per unit ALPRO hinge		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n renw</sub> ) in MJ		74.13	N → 0	-0.59	-42.77
Primary energy – renewable (PE <sub>renw</sub> ) in MJ		17.03	N → 0	-0.03	-1.00
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		5.65	N → 0	-0.52	-2.66
Ozone depletion potential (ODP) in kg R11 equiv.		3.60 x 10 <sup>-7</sup>	N → 0	-1.43 x 10 <sup>-10</sup>	-1.74 x 10 <sup>-9</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		0.03	N → 0	-2.05 x 10 <sup>-4</sup>	-0.01
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		1.67 x 10 <sup>-3</sup>	N → 0	-9.32 x 10 <sup>-4</sup>	-2.03 x 10 <sup>-5</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		2.00 x 10 <sup>-3</sup>	N → 0	-1.25 x 10 <sup>-4</sup>	-1.57 x 10 <sup>-3</sup>
Abiotic depletion potential (elements) (ADP <sub>el.</sub> ) in kg Sb equiv.		3.75 x 10 <sup>-5</sup>	N → 0	-7.54 x 10 <sup>-9</sup>	-1.99 x 10 <sup>-7</sup>
Abiotic depletion potential (fossil) (ADP <sub>fos</sub> ) in MJ		63.21	N → 0	-0.56	-42.15
Water consumption in m <sup>3</sup>		16.50	N → 0	-0.02	-0.70

Ulrich Sieberath  
Signature of Director of Institute,  
ift Rosenheim GmbH

Bernd Strufe  
Signature of Verifier



ift Rosenheim GmbH  
Geschäftsführer:  
Dipl.-Ing. (FH) Ulrich Sieberath  
Dr. Jochen Peichl

Theodor-Gietl-Str. 7 - 9  
D-83026 Rosenheim  
Tel.: +49 (0)8031/261-0  
Fax: +49 (0)8031/261-290  
www.ift-rosenheim.de

Sitz: 83026 Rosenheim  
AG Traunstein, HRB 14763  
Sparkasse Rosenheim  
Kto. 3822  
BLZ 711 500 00

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Anerkannte PÜZ-Stelle: BAY 18  
 DAI  
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LCA results per hinge unit BAKA Protect		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n_renew</sub> ) in MJ		57.49	N → 0	-0.84	-18.41
Primary energy – renewable (PE <sub>renew</sub> ) in MJ		3.96	N → 0	-0.04	-0.42
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		4.46	N → 0	-0.74	-0.67
Ozone depletion potential (ODP) in kg R11 equiv.		3.64 x 10 <sup>-8</sup>	N → 0	-2.02 x 10 <sup>-10</sup>	-6.33 x 10 <sup>-10</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		0.03	N → 0	-2.93 x 10 <sup>-4</sup>	-4.83 x 10 <sup>-3</sup>
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		1.56 x 10 <sup>-3</sup>	N → 0	-1.32 x 10 <sup>-3</sup>	8.94 x 10 <sup>-4</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		1.77 x 10 <sup>-3</sup>	N → 0	-1.76 x 10 <sup>-4</sup>	-5.78 x 10 <sup>-4</sup>
Abiotic depletion potential (elements) (ADP <sub>el.</sub> ) in kg Sb equiv.		1.22 x 10 <sup>-3</sup>	N → 0	-1.07 x 10 <sup>-8</sup>	-8.10 x 10 <sup>-8</sup>
Abiotic depletion potential (fossil) (ADP <sub>foss</sub> ) in MJ		52.04	N → 0	-0.80	-18.16
Water consumption in m <sup>3</sup>		3.90	N → 0	-0.03	-0.29

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ift Rosenheim GmbH

Geschäftsführer:  
Dipl.-Ing. (FH) Ulrich Sieberath  
Dr. Jochen Peichl

Theodor-Gietl-Str. 7 - 9  
D-83026 Rosenheim  
Tel.: +49 (0)8031/261-0  
Fax: +49 (0)8031/261-290  
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LCA results per hinge unit SIKU		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n_renw</sub> ) in MJ		46.62	N → 0	-0.67	-13.49
Primary energy – renewable (PE <sub>renw</sub> ) in MJ		3.30	N → 0	-0.03	-0.30
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		3.52	N → 0	-0.58	-0.45
Ozone depletion potential (ODP) in kg R11 equiv.		3.12 x 10 <sup>-7</sup>	N → 0	-1.60 x 10 <sup>-10</sup>	-4.55 x 10 <sup>-10</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		0.02	N → 0	-2.32 x 10 <sup>-4</sup>	-3.54 x 10 <sup>-3</sup>
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		1.24 x 10 <sup>-3</sup>	N → 0	-1.04 x 10 <sup>-3</sup>	7.28 x 10 <sup>-4</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		1.47 x 10 <sup>-3</sup>	N → 0	-1.38 x 10 <sup>-4</sup>	-4.16 x 10 <sup>-4</sup>
Abiotic depletion potential (elements) (ADP <sub>el</sub> ) in kg Sb equiv.		9.27 x 10 <sup>-4</sup>	N → 0	-8.43 x 10 <sup>-9</sup>	-5.90 x 10 <sup>-8</sup>
Abiotic depletion potential (fossil) (ADP <sub>fos</sub> ) in MJ		41.87	N → 0	-0.64	-13.31
Water consumption in m <sup>3</sup>		2.87	N → 0	-0.02	-0.21

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ift Rosenheim GmbH

Geschäftsführer:  
Dipl.-Ing. (FH) Ulrich Sieberath  
Dr. Jochen Peichl

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Fax: +49 (0)8031/261-290  
www.ift-rosenheim.de

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AG Traunstein, HRB 14763  
Sparkasse Rosenheim  
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LCA results per hinge unit TECTUS		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n renw</sub> ) in MJ		67.74	N → 0	-0.62	-20.00
Primary energy – renewable (PE <sub>renw</sub> ) in MJ		13.90	N → 0	-0.03	-0.46
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		4.57	N → 0	-0.55	-0.96
Ozone depletion potential (ODP) in kg R11 equiv.		3.51 x 10 <sup>-7</sup>	N → 0	-1.51 x 10 <sup>-10</sup>	-7.43 x 10 <sup>-3</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		0.02	N → 0	-2.17 x 10 <sup>-4</sup>	-5.27 x 10 <sup>-3</sup>
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		1.24 x 10 <sup>-3</sup>	N → 0	-9.86 x 10 <sup>-4</sup>	5.33 x 10 <sup>-4</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		1.24 x 10 <sup>-3</sup>	N → 0	-1.32 x 10 <sup>-4</sup>	-6.75 x 10 <sup>-4</sup>
Abiotic depletion potential (elements) (ADP <sub>el.</sub> ) in kg Sb equiv.		2.17 x 10 <sup>-3</sup>	N → 0	-7.97 x 10 <sup>-9</sup>	-9.02 x 10 <sup>-8</sup>
Abiotic depletion potential (fossil) (ADP <sub>fos</sub> ) in MJ		53.17	N → 0	-0.59	-19.72
Water consumption in m <sup>3</sup>		14.87	N → 0	-0.02	-0.32

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Dr. Jochen Peichl

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LCA results per hinge unit VARIANT V		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n renw</sub> ) in MJ		40.61	N → 0	-0.05	-1.97
Primary energy – renewable (PE <sub>renw</sub> ) in MJ		7.66	N → 0	-2.50 x 10 <sup>-3</sup>	-0.05
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		0.31	N → 0	-0.05	-0.10
Ozone depletion potential (ODP) in kg R11 equiv.		7.38 x 10 <sup>-8</sup>	N → 0	-1.33 x 10 <sup>-11</sup>	-7.46 x 10 <sup>-11</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		5.41 x 10 <sup>-3</sup>	N → 0	-1.89 x 10 <sup>-5</sup>	-5.21 x 10 <sup>-4</sup>
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		8.57 x 10 <sup>-4</sup>	N → 0	-8.63 x 10 <sup>-5</sup>	4.18 x 10 <sup>-5</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		5.91 x 10 <sup>-4</sup>	N → 0	-1.16 x 10 <sup>-5</sup>	-6.78 x 10 <sup>-5</sup>
Abiotic depletion potential (elements) (ADP <sub>el.</sub> ) in kg Sb equiv.		5.89 x 10 <sup>-7</sup>	N → 0	-6.98 x 10 <sup>-10</sup>	-8.95 x 10 <sup>-9</sup>
Abiotic depletion potential (fossil) (ADP <sub>fos</sub> ) in MJ		38.19	N → 0	-0.05	-1.94
Water consumption in m <sup>3</sup>		0.27	N → 0	-2.0 x 10 <sup>-3</sup>	-0.03

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LCA results per hinge unit VARIANT VG/VN/VX		Manufacture A1 - A5	Use B1 - B7	End-of-Life C1 - C4	Recycling potential D
Primary energy – non-renewable (PE <sub>n renw</sub> ) in MJ		38.66	N → 0	-0.63	-15.85
Primary energy – renewable (PE <sub>renw</sub> ) in MJ		3.09	N → 0	-0.03	-0.36
Global warming potential (GWP 100) in kg CO <sub>2</sub> equiv.		2.94	N → 0	-0.56	-0.65
Ozone depletion potential (ODP) in kg R11 equiv.		1.66 x 10 <sup>-7</sup>	N → 0	-1.53 x 10 <sup>-10</sup>	-5.62 x 10 <sup>-10</sup>
Acidification potential (AP) in kg SO <sub>2</sub> equiv.		0.02	N → 0	-2.19 x 10 <sup>-4</sup>	-4.17 10 <sup>-3</sup>
Eutrophication potential (EP) in kg PO <sub>4</sub> <sup>3-</sup> equiv.		1.41 x 10 <sup>-3</sup>	N → 0	-9.94 x 10 <sup>-4</sup>	6.32 x 10 <sup>-4</sup>
Photochemical ozone creation potential (POCP) in kg C <sub>2</sub> H <sub>4</sub> equiv.		1.51 x 10 <sup>-3</sup>	N → 0	-1.33 x 10 <sup>-4</sup>	-5.12 x 10 <sup>-4</sup>
Abiotic depletion potential (elements) (ADP <sub>el.</sub> ) in kg Sb equiv.		1.51 x 10 <sup>-4</sup>	N → 0	-8.05 x 10 <sup>-9</sup>	-7.05 x 10 <sup>-8</sup>
Abiotic depletion potential (fossil) (ADP <sub>fos</sub> ) in MJ		34.84	N → 0	-0.60	-15.64
Water consumption in m <sup>3</sup>		1.04	N → 0	-0.02	-0.25

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**ift Rosenheim GmbH**  
**Theodor-Gietl-Straße 7-9**  
**D - 83026 Rosenheim**  
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**Fax: +49 (0) 80 31 / 261-290**  
**E-mail: [info@ift-rosenheim.de](mailto:info@ift-rosenheim.de)**  
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