

Certificate of Validation

Certificate Number: ENP516

Issue: 1

Trimo d.d

Prijateljva cesta 12

SI-8210 Trebnje

Slovenia

Having complied with the requirements of the following:

Environmental Profile

BRE Global Scheme Document SD028

and

BRE Methodology for Environmental Profile of
Construction Products SD6050

is authorised to use the BRE Global Certification Mark on the following product(s) and associated stationery and publications:

Product(s)

For a list of Products covered by this certificate and details please see Appendix

UK Sales Distribution:

Trimo UK Ltd.

Unit 4, Willaston House Business Centre

Crewe Road

Willaston

Nantwich CW5 6NE

United Kingdom

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Signed for BRE Global Ltd.

Laura Critien

Certification Scheme Manager

15 April 2016

Date of Issue

14 April 2019

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Appendix to Certificate No: ENP516

Issue: 1

Trimo d.d
 Prijateljeva cesta 12
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 Slovenia

Product list

Description	Appendix Ref. for details
Trimo Trimoterm Power T – FTV / Trimoterm Invisio Power T – FTV HL coated steel composite fireproof panel on steel support with stud work and dry wall with plasterboard finish	ENP516/a.
Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with stud work and dry wall with plasterboard finish	ENP516/b.
Trimo Trimoterm Power T – FTV / Trimoterm Invisio Power T – FTV HL coated steel composite fireproof panel on steel support and reinforced concrete frame	ENP516/c.
Trimo Qbiss One Power T coated steel composite modular façade element on steel support and reinforced concrete frame	ENP516/d.
Trimo Trimoterm Power T – FTV / Trimoterm Invisio Power T – FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/e.
Trimo Trimoterm Power T – SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/f.
Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish	ENP516/g.
Trimo Trimoterm – FTV / Trimoterm Invisio – FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/h.

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Appendix to Certificate No: ENP516

Issue: 1

Trimo d.d
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Product list

Description	Appendix Ref. for details
Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish	ENP516/i.
Trimo Trimoterm Acoustic system 63dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool on sound board and one-side perforated coated steel composite profiled panel	ENP516/j.
Trimo Trimoterm Acoustic system 55dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with sound board and one-side perforated coated steel composite profiled panel	ENP516/k.
Trimo Trimoterm Acoustic system 46dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool and corrugated steel sheet	ENP516/l.
Trimo Trimoterm Acoustic Power T – FTV-ac partition	ENP516/m.
Trimo Trimoterm Power T – FTV / Trimoterm Invisio Power T – FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/n.
Trimo Trimoterm Power T – SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/o.
Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish	ENP516/p.

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Appendix to Certificate No: ENP516

Issue: 1

Trimo d.d
 Prijateljeva cesta 12
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Product list

Description	Appendix Ref. for details
Trimo Trimoterm – FTV / Trimoterm Invisio – FTV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish	ENP516/q.
Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish	ENP516/r.
Trimo Trimoterm SNV Power T coated steel composite profiled panel on steel rafters and joists with no internal finish	ENP516/s.

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Appendix to Certificate of Verification

Appendix Number: ENP516a Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with metal stud infill (ex wall type 8.1c)

Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV
 HL coated steel composite fireproof panel on steel support with stud work and dry wall with plasterboard finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.351 Ecopoints

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Appendix No: ENP516a

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
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Slovenia

External Wall Construction: Insulated cladding on steel frame with metal stud infill (ex wall type 8.1c)
Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV HL coated steel composite fireproof panel on steel support with stud work and dry wall with plasterboard finish
1 m² over 60-year studv period

Characterised Data

Issue	Value	Unit
Climate Change	73.8	kg CO ₂ eq (100 yr.)
Water Extraction	0.515	m ³
Mineral Resource Extraction	0.086	tonnes
Stratospheric Ozone Depletion	0.0000317	kg CFC11 eq.
Human Toxicity	13.1	kg 1,4-DB eq.
Ecotoxicity to Freshwater	2.24	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000876	m ³ high level waste
Ecotoxicity to Land	0.186	kg 1,4-DB eq..
Waste Disposal	44.7	kg
Fossil Fuel Depletion	863	MJ
Eutrophication	0.035	kg PO ₄ eq.
Photochemical Ozone Creation	0.0504	kg ethene eq.
Acidification	0.583	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.006	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00136	378 m ³
Mineral Resource Extraction	0.00353	24.4 tonnes
Stratospheric Ozone Depletion	0.000146	0.217 kg CFC11 eq.
Human Toxicity	0.000662	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0017	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0037	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00151	123 kg 1,4-DB eq..
Waste Disposal	0.0119	3750 kg
Fossil Fuel Depletion	0.00317	273 GJ
Eutrophication	0.00108	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00234	21.5 kg ethene eq.
Acidification	0.00819	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.351 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516b Issue: 1

Trimo d.d
 Prijateljeva cesta 12
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Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with metal stud infill (ex wall type 8.1c)

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with stud work and dry wall with plasterboard finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	1/7/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	UK

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.352 Ecopoints

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Appendix No: ENP516b

Issue: 1

Trimo d.d

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External Wall Construction: Insulated cladding on steel frame with metal stud infill (ex wall type 8.1c)
Trimo Obiss One Power T coated steel composite modular façade element on steel support, structural steel frame with stud work and dry wall with plasterboard finish
1 m² over 60-year studv period

Characterised Data

Issue	Value	Unit
Climate Change	74.1	kg CO ₂ eq (100 yr.)
Water Extraction	0.52	m ³
Mineral Resource Extraction	0.0863	tonnes
Stratospheric Ozone Depletion	0.0000321	kg CFC11 eq.
Human Toxicity	13.2	kg 1,4-DB eq.
Ecotoxicity to Freshwater	2.25	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000882	m ³ high level waste
Ecotoxicity to Land	0.186	kg 1,4-DB eq..
Waste Disposal	44.8	kg
Fossil Fuel Depletion	869	MJ
Eutrophication	0.0353	kg PO ₄ eq.
Photochemical Ozone Creation	0.0506	kg ethene eq.
Acidification	0.586	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00603	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00138	378 m ³
Mineral Resource Extraction	0.00354	24.4 tonnes
Stratospheric Ozone Depletion	0.000148	0.217 kg CFC11 eq.
Human Toxicity	0.000667	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00171	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00372	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00152	123 kg 1,4-DB eq..
Waste Disposal	0.012	3750 kg
Fossil Fuel Depletion	0.00319	273 GJ
Eutrophication	0.00108	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00235	21.5 kg ethene eq.
Acidification	0.00822	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.352 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516c Issue: 1

Trimo d.d
 Prijateljeva cesta 12
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 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on concrete frame with metal stud infill (ex wall type 8.2c)

Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV
 HL coated steel composite fireproof panel on steel support and reinforced concrete frame

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.175 Ecopoints

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Appendix No: ENP516c

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
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External Wall Construction: Insulated cladding on concrete frame with metal stud infill (ex wall type 8.2c)
Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV HL coated steel composite fireproof panel on steel support and reinforced concrete frame
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	34.7	kg CO ₂ eq (100 yr.)
Water Extraction	0.361	m ³
Mineral Resource Extraction	0.0754	tonnes
Stratospheric Ozone Depletion	0.0000159	kg CFC11 eq.
Human Toxicity	4.3	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.218	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000366	m ³ high level waste
Ecotoxicity to Land	0.109	kg 1,4-DB eq..
Waste Disposal	20.2	kg
Fossil Fuel Depletion	419	MJ
Eutrophication	0.0179	kg PO ₄ eq.
Photochemical Ozone Creation	0.0193	kg ethene eq.
Acidification	0.161	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00282	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000956	378 m ³
Mineral Resource Extraction	0.00309	24.4 tonnes
Stratospheric Ozone Depletion	0.0000733	0.217 kg CFC11 eq.
Human Toxicity	0.000218	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000165	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00155	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000883	123 kg 1,4-DB eq..
Waste Disposal	0.0054	3750 kg
Fossil Fuel Depletion	0.00153	273 GJ
Eutrophication	0.000552	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000895	21.5 kg ethene eq.
Acidification	0.00226	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.175 Ecopoints

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Appendix Number: ENP516d Issue: 1

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Characterised and normalised data for:

External Wall Construction: Insulated cladding on concrete frame with metal stud infill (ex wall type 8.2c)

Trimo Qbiss One Power T coated steel composite modular façade element on steel support and reinforced concrete frame

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	1/7/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	UK

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.176 Ecopoints

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Appendix No: ENP516d

Issue: 1

Trimo d.d

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External Wall Construction: Insulated cladding on concrete frame with metal stud infill (ex wall type 8.2c)
Trimo Qbiss One Power T coated steel composite modular façade element on steel support and reinforced concrete frame
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	35.1	kg CO ₂ eq (100 yr.)
Water Extraction	0.366	m ³
Mineral Resource Extraction	0.0756	tonnes
Stratospheric Ozone Depletion	0.0000162	kg CFC11 eq.
Human Toxicity	4.4	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.22	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000372	m ³ high level waste
Ecotoxicity to Land	0.109	kg 1,4-DB eq..
Waste Disposal	20.3	kg
Fossil Fuel Depletion	424	MJ
Eutrophication	0.0182	kg PO ₄ eq.
Photochemical Ozone Creation	0.0195	kg ethene eq.
Acidification	0.164	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00285	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000969	378 m ³
Mineral Resource Extraction	0.0031	24.4 tonnes
Stratospheric Ozone Depletion	0.0000747	0.217 kg CFC11 eq.
Human Toxicity	0.000223	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000167	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00157	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000888	123 kg 1,4-DB eq..
Waste Disposal	0.00542	3750 kg
Fossil Fuel Depletion	0.00156	273 GJ
Eutrophication	0.00056	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000905	21.5 kg ethene eq.
Acidification	0.0023	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.176 Ecopoints

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Trimo d.d
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 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV
 HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.228 Ecopoints

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Appendix No: ENP516e

Issue: 1

Trimo d.d

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SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	54.8	kg CO ₂ eq (100 yr.)
Water Extraction	0.334	m ³
Mineral Resource Extraction	0.0603	tonnes
Stratospheric Ozone Depletion	0.0000195	kg CFC11 eq.
Human Toxicity	4.07	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.115	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000066	m ³ high level waste
Ecotoxicity to Land	0.155	kg 1,4-DB eq..
Waste Disposal	24.5	kg
Fossil Fuel Depletion	604	MJ
Eutrophication	0.0233	kg PO ₄ eq.
Photochemical Ozone Creation	0.0278	kg ethene eq.
Acidification	0.208	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00446	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000884	378 m ³
Mineral Resource Extraction	0.00247	24.4 tonnes
Stratospheric Ozone Depletion	0.0000898	0.217 kg CFC11 eq.
Human Toxicity	0.000206	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000871	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00279	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00126	123 kg 1,4-DB eq..
Waste Disposal	0.00653	3750 kg
Fossil Fuel Depletion	0.00222	273 GJ
Eutrophication	0.000717	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00129	21.5 kg ethene eq.
Acidification	0.00292	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.228 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516f Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.231 Ecopoints

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Signed for BRE Global Ltd.

Laura Critien
 Certification Scheme Manager

15 April 2016
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14 April 2019
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Appendix No: ENP516f

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	55.6	kg CO ₂ eq (100 yr.)
Water Extraction	0.344	m ³
Mineral Resource Extraction	0.0609	tonnes
Stratospheric Ozone Depletion	0.0000202	kg CFC11 eq.
Human Toxicity	4.28	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.121	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000673	m ³ high level waste
Ecotoxicity to Land	0.156	kg 1,4-DB eq..
Waste Disposal	24.7	kg
Fossil Fuel Depletion	616	MJ
Eutrophication	0.0239	kg PO ₄ eq.
Photochemical Ozone Creation	0.0283	kg ethene eq.
Acidification	0.212	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00452	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000911	378 m ³
Mineral Resource Extraction	0.0025	24.4 tonnes
Stratospheric Ozone Depletion	0.000093	0.217 kg CFC11 eq.
Human Toxicity	0.000217	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000915	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00284	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00127	123 kg 1,4-DB eq..
Waste Disposal	0.00658	3750 kg
Fossil Fuel Depletion	0.00226	273 GJ
Eutrophication	0.000735	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00131	21.5 kg ethene eq.
Acidification	0.00298	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.231 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516g Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	1/7/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	UK

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.229 Ecopoints

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Appendix No: ENP516g

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	55.2	kg CO ₂ eq (100 yr.)
Water Extraction	0.338	m ³
Mineral Resource Extraction	0.0606	tonnes
Stratospheric Ozone Depletion	0.0000198	kg CFC11 eq.
Human Toxicity	4.16	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.117	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000666	m ³ high level waste
Ecotoxicity to Land	0.155	kg 1,4-DB eq..
Waste Disposal	24.6	kg
Fossil Fuel Depletion	610	MJ
Eutrophication	0.0236	kg PO ₄ eq.
Photochemical Ozone Creation	0.028	kg ethene eq.
Acidification	0.21	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00449	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000896	378 m ³
Mineral Resource Extraction	0.00248	24.4 tonnes
Stratospheric Ozone Depletion	0.0000913	0.217 kg CFC11 eq.
Human Toxicity	0.000211	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000891	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00281	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00126	123 kg 1,4-DB eq..
Waste Disposal	0.00655	3750 kg
Fossil Fuel Depletion	0.00224	273 GJ
Eutrophication	0.000725	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.0013	21.5 kg ethene eq.
Acidification	0.00295	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.229 Ecopoints

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Appendix Number: ENP516h Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm - FTV / Trimoterm Invisio - FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.248 Ecopoints

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Appendix No: ENP516h

Issue: 1

Trimo d.d

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External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm - FTV / Trimoterm Invisio - FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	59.5	kg CO ₂ eq (100 yr.)
Water Extraction	0.398	m ³
Mineral Resource Extraction	0.0645	tonnes
Stratospheric Ozone Depletion	0.0000236	kg CFC11 eq.
Human Toxicity	5.24	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.148	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000735	m ³ high level waste
Ecotoxicity to Land	0.167	kg 1,4-DB eq..
Waste Disposal	26.1	kg
Fossil Fuel Depletion	677	MJ
Eutrophication	0.0269	kg PO ₄ eq.
Photochemical Ozone Creation	0.0307	kg ethene eq.
Acidification	0.236	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00484	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00105	378 m ³
Mineral Resource Extraction	0.00264	24.4 tonnes
Stratospheric Ozone Depletion	0.000109	0.217 kg CFC11 eq.
Human Toxicity	0.000265	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000113	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0031	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00136	123 kg 1,4-DB eq..
Waste Disposal	0.00696	3750 kg
Fossil Fuel Depletion	0.00248	273 GJ
Eutrophication	0.000826	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00143	21.5 kg ethene eq.
Acidification	0.00332	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.248 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516i Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
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Characterised and normalised data for:

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	1/7/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.251 Ecopoints

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Appendix No: ENP516i

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
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Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	60.2	kg CO ₂ eq (100 yr.)
Water Extraction	0.408	m ³
Mineral Resource Extraction	0.0651	tonnes
Stratospheric Ozone Depletion	0.0000243	kg CFC11 eq.
Human Toxicity	5.44	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.154	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000747	m ³ high level waste
Ecotoxicity to Land	0.168	kg 1,4-DB eq..
Waste Disposal	26.3	kg
Fossil Fuel Depletion	689	MJ
Eutrophication	0.0274	kg PO ₄ eq.
Photochemical Ozone Creation	0.0312	kg ethene eq.
Acidification	0.241	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.0049	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00108	378 m ³
Mineral Resource Extraction	0.00267	24.4 tonnes
Stratospheric Ozone Depletion	0.000112	0.217 kg CFC11 eq.
Human Toxicity	0.000276	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000117	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00315	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00137	123 kg 1,4-DB eq..
Waste Disposal	0.00701	3750 kg
Fossil Fuel Depletion	0.00253	273 GJ
Eutrophication	0.000844	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00145	21.5 kg ethene eq.
Acidification	0.00339	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.251 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516j Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:
 External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm Acoustic system 63dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool on sound board and one-side perforated coated steel composite profiled panel

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 1.58 Ecopoints

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Appendix No: ENP516j

Issue: 1

Trimo d.d

Prijateljeva cesta 12
SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Trimoterm Acoustic system 63dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool on sound board and one-side perforated coated steel composite profiled panel

Characterised Data

Issue	Value	Unit
Climate Change	325	kg CO ₂ eq (100 yr.)
Water Extraction	3.62	m ³
Mineral Resource Extraction	0.355	tonnes
Stratospheric Ozone Depletion	0.000195	kg CFC11 eq.
Human Toxicity	75.3	kg 1,4-DB eq.
Ecotoxicity to Freshwater	2.83	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000043	m ³ high level waste
Ecotoxicity to Land	1.25	kg 1,4-DB eq..
Waste Disposal	187	kg
Fossil Fuel Depletion	4350	MJ
Eutrophication	0.186	kg PO ₄ eq.
Photochemical Ozone Creation	0.229	kg ethene eq.
Acidification	2.69	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.0264	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00959	378 m ³
Mineral Resource Extraction	0.0146	24.4 tonnes
Stratospheric Ozone Depletion	0.000899	0.217 kg CFC11 eq.
Human Toxicity	0.00381	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00215	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0182	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.0102	123 kg 1,4-DB eq..
Waste Disposal	0.0499	3750 kg
Fossil Fuel Depletion	0.016	273 GJ
Eutrophication	0.00572	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.0106	21.5 kg ethene eq.
Acidification	0.0378	71.2 kg SO ₂ eq.

BRE Ecopoints score: 1.58 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516k Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
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Characterised and normalised data for:
 External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm Acoustic system 55dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with sound board and one-side perforated coated steel composite profiled panel

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 1.45 Ecopoints

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Appendix No: ENP516k

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Trimoterm Acoustic system 55dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with sound board and one-side perforated coated steel composite profiled panel
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	299	kg CO ₂ eq (100 yr.)
Water Extraction	3.48	m ³
Mineral Resource Extraction	0.313	tonnes
Stratospheric Ozone Depletion	0.000183	kg CFC11 eq.
Human Toxicity	65.3	kg 1,4-DB eq.
Ecotoxicity to Freshwater	2.06	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000401	m ³ high level waste
Ecotoxicity to Land	1.22	kg 1,4-DB eq..
Waste Disposal	172	kg
Fossil Fuel Depletion	4000	MJ
Eutrophication	0.173	kg PO ₄ eq.
Photochemical Ozone Creation	0.216	kg ethene eq.
Acidification	2.51	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.0243	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00922	378 m ³
Mineral Resource Extraction	0.0128	24.4 tonnes
Stratospheric Ozone Depletion	0.000845	0.217 kg CFC11 eq.
Human Toxicity	0.00331	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.00157	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0169	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00992	123 kg 1,4-DB eq..
Waste Disposal	0.0458	3750 kg
Fossil Fuel Depletion	0.0147	273 GJ
Eutrophication	0.00533	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.01	21.5 kg ethene eq.
Acidification	0.0353	71.2 kg SO ₂ eq.

BRE Ecopoints score: 1.45 Ecopoints

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Appendix Number: ENP516I Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia

Characterised and normalised data for:
 External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)

Trimo Trimoterm Acoustic system 46dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool and corrugated steel sheet

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 1.01 Ecopoints

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Appendix No: ENP5161

Issue: 1

Trimo d.d

Prijateljeva cesta 12
SI-8210 Trebnje
Slovenia

External Wall Construction: Insulated cladding on steel frame with no internal finish (ex wall type 8.1d - Industrial shed)
Trimo Trimoterm Acoustic system 46dB: coated steel composite fireproof panel on steel support, structural steel frame with no internal finish together with mineral wool and corrugated steel sheet
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	217	kg CO ₂ eq (100 yr.)
Water Extraction	2.41	m ³
Mineral Resource Extraction	0.251	tonnes
Stratospheric Ozone Depletion	0.000111	kg CFC11 eq.
Human Toxicity	30.3	kg 1,4-DB eq.
Ecotoxicity to Freshwater	1.26	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000288	m ³ high level waste
Ecotoxicity to Land	0.826	kg 1,4-DB eq..
Waste Disposal	111	kg
Fossil Fuel Depletion	2770	MJ
Eutrophication	0.114	kg PO ₄ eq.
Photochemical Ozone Creation	0.123	kg ethene eq.
Acidification	1.02	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.0176	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00639	378 m ³
Mineral Resource Extraction	0.0103	24.4 tonnes
Stratospheric Ozone Depletion	0.000513	0.217 kg CFC11 eq.
Human Toxicity	0.00153	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000957	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0122	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00672	123 kg 1,4-DB eq..
Waste Disposal	0.0295	3750 kg
Fossil Fuel Depletion	0.0101	273 GJ
Eutrophication	0.00352	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00572	21.5 kg ethene eq.
Acidification	0.0144	71.2 kg SO ₂ eq.

BRE Ecopoints score: 1.01 Ecopoints

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Laura Critien

Certification Scheme Manager

15 April 2016

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Appendix to Certificate of Verification

Appendix Number: ENP516m Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions
 Trimo Trimoterm Acoustic Power T - FTV-ac partition

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.064 Ecopoints

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Appendix No: ENP516m

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Internal Wall: Framed Partitions

Trimo Trimoterm Acoustic Power T - FTV-ac partition
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14	kg CO ₂ eq (100 yr.)
Water Extraction	0.144	m ³
Mineral Resource Extraction	0.0189	tonnes
Stratospheric Ozone Depletion	0.00000437	kg CFC11 eq.
Human Toxicity	1.17	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0282	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000152	m ³ high level waste
Ecotoxicity to Land	0.0325	kg 1,4-DB eq..
Waste Disposal	7.99	kg
Fossil Fuel Depletion	161	MJ
Eutrophication	0.00568	kg PO ₄ eq.
Photochemical Ozone Creation	0.00739	kg ethene eq.
Acidification	0.055	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00114	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000382	378 m ³
Mineral Resource Extraction	0.000775	24.4 tonnes
Stratospheric Ozone Depletion	0.0000201	0.217 kg CFC11 eq.
Human Toxicity	0.0000592	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000214	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000641	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000265	123 kg 1,4-DB eq..
Waste Disposal	0.00213	3750 kg
Fossil Fuel Depletion	0.000589	273 GJ
Eutrophication	0.000175	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000343	21.5 kg ethene eq.
Acidification	0.000772	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.064 Ecopoints

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Appendix Number: ENP516n Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV
 HL coated steel composite fireproof panel on steel support,
 structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/17/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0655 Ecopoints

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Issue: 1

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Slovenia

Internal Wall: Framed Partitions

Trimo Trimoterm Power T - FTV / Trimoterm Invisio Power T - FTV HL coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14.3	kg CO ₂ eq (100 yr.)
Water Extraction	0.148	m ³
Mineral Resource Extraction	0.0192	tonnes
Stratospheric Ozone Depletion	0.00000452	kg CFC11 eq.
Human Toxicity	1.2	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0294	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000156	m ³ high level waste
Ecotoxicity to Land	0.0344	kg 1,4-DB eq..
Waste Disposal	8.17	kg
Fossil Fuel Depletion	164	MJ
Eutrophication	0.00583	kg PO ₄ eq.
Photochemical Ozone Creation	0.00756	kg ethene eq.
Acidification	0.0563	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00117	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000392	378 m ³
Mineral Resource Extraction	0.000789	24.4 tonnes
Stratospheric Ozone Depletion	0.0000208	0.217 kg CFC11 eq.
Human Toxicity	0.0000606	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000223	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000657	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.00028	123 kg 1,4-DB eq..
Waste Disposal	0.00218	3750 kg
Fossil Fuel Depletion	0.000602	273 GJ
Eutrophication	0.000179	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000351	21.5 kg ethene eq.
Acidification	0.00079	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0655 Ecopoints

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Appendix Number: ENP516o Issue: 1

Trimo d.d
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 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0666 Ecopoints

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Appendix No: ENP516o

Issue: 1

Trimo d.d

Prijateljeva cesta 12
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Slovenia

Internal Wall: Framed Partitions

Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14.6	kg CO ₂ eq (100 yr.)
Water Extraction	0.151	m ³
Mineral Resource Extraction	0.0194	tonnes
Stratospheric Ozone Depletion	0.00000475	kg CFC11 eq.
Human Toxicity	1.27	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0313	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000016	m ³ high level waste
Ecotoxicity to Land	0.0348	kg 1,4-DB eq..
Waste Disposal	8.26	kg
Fossil Fuel Depletion	168	MJ
Eutrophication	0.00603	kg PO ₄ eq.
Photochemical Ozone Creation	0.00772	kg ethene eq.
Acidification	0.0579	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00119	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000401	378 m ³
Mineral Resource Extraction	0.000797	24.4 tonnes
Stratospheric Ozone Depletion	0.0000219	0.217 kg CFC11 eq.
Human Toxicity	0.0000642	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000238	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000674	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000283	123 kg 1,4-DB eq..
Waste Disposal	0.0022	3750 kg
Fossil Fuel Depletion	0.000617	273 GJ
Eutrophication	0.000185	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000358	21.5 kg ethene eq.
Acidification	0.000812	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0666 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516p Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix No: ENP516p

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Internal Wall: Framed Partitions

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14.8	kg CO ₂ eq (100 yr.)
Water Extraction	0.155	m ³
Mineral Resource Extraction	0.0197	tonnes
Stratospheric Ozone Depletion	0.00000489	kg CFC11 eq.
Human Toxicity	1.29	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0324	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000163	m ³ high level waste
Ecotoxicity to Land	0.0365	kg 1,4-DB eq..
Waste Disposal	8.42	kg
Fossil Fuel Depletion	172	MJ
Eutrophication	0.00617	kg PO ₄ eq.
Photochemical Ozone Creation	0.00787	kg ethene eq.
Acidification	0.059	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00121	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00041	378 m ³
Mineral Resource Extraction	0.000809	24.4 tonnes
Stratospheric Ozone Depletion	0.0000225	0.217 kg CFC11 eq.
Human Toxicity	0.0000655	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000246	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000689	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000297	123 kg 1,4-DB eq..
Waste Disposal	0.00225	3750 kg
Fossil Fuel Depletion	0.000629	273 GJ
Eutrophication	0.00019	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000365	21.5 kg ethene eq.
Acidification	0.000829	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix Number: ENP516p Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix No: ENP516p

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Internal Wall: Framed Partitions

Trimo Qbiss One Power T coated steel composite modular façade element on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14.8	kg CO ₂ eq (100 yr.)
Water Extraction	0.155	m ³
Mineral Resource Extraction	0.0197	tonnes
Stratospheric Ozone Depletion	0.00000489	kg CFC11 eq.
Human Toxicity	1.29	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0324	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000163	m ³ high level waste
Ecotoxicity to Land	0.0365	kg 1,4-DB eq..
Waste Disposal	8.42	kg
Fossil Fuel Depletion	172	MJ
Eutrophication	0.00617	kg PO ₄ eq.
Photochemical Ozone Creation	0.00787	kg ethene eq.
Acidification	0.059	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00121	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00041	378 m ³
Mineral Resource Extraction	0.000809	24.4 tonnes
Stratospheric Ozone Depletion	0.0000225	0.217 kg CFC11 eq.
Human Toxicity	0.0000655	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000246	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000689	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000297	123 kg 1,4-DB eq..
Waste Disposal	0.00225	3750 kg
Fossil Fuel Depletion	0.000629	273 GJ
Eutrophication	0.00019	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000365	21.5 kg ethene eq.
Acidification	0.000829	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix Number: ENP516q Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Trimoterm - FTV / Trimoterm Invisio - FTV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix No: ENP516q

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Internal Wall: Framed Partitions

Trimo Trimoterm - FTV / Trimoterm Invisio - FTV coated steel composite fireproof panel on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	14.9	kg CO ₂ eq (100 yr.)
Water Extraction	0.156	m ³
Mineral Resource Extraction	0.0197	tonnes
Stratospheric Ozone Depletion	0.00000504	kg CFC11 eq.
Human Toxicity	1.35	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0337	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000165	m ³ high level waste
Ecotoxicity to Land	0.0353	kg 1,4-DB eq..
Waste Disposal	8.36	kg
Fossil Fuel Depletion	173	MJ
Eutrophication	0.00628	kg PO ₄ eq.
Photochemical Ozone Creation	0.00791	kg ethene eq.
Acidification	0.0598	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00121	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000412	378 m ³
Mineral Resource Extraction	0.000807	24.4 tonnes
Stratospheric Ozone Depletion	0.0000232	0.217 kg CFC11 eq.
Human Toxicity	0.0000685	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000256	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000696	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000287	123 kg 1,4-DB eq..
Waste Disposal	0.00223	3750 kg
Fossil Fuel Depletion	0.000635	273 GJ
Eutrophication	0.000193	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000367	21.5 kg ethene eq.
Acidification	0.00084	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0679 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516r Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Internal Wall: Framed Partitions

Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	1/7/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	UK

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0692 Ecopoints

This certificate appendix is maintained and held in force through annual review and verification.

Signed for BRE Global Ltd.

Laura Critien
 Certification Scheme Manager

15 April 2016
 Date of Issue

14 April 2019
 Expiry Date



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Appendix No: ENP516r

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Internal Wall: Framed Partitions

Trimo Qbiss One coated steel composite modular façade element on steel support, structural steel frame with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	15.2	kg CO ₂ eq (100 yr.)
Water Extraction	0.16	m ³
Mineral Resource Extraction	0.0199	tonnes
Stratospheric Ozone Depletion	0.00000532	kg CFC11 eq.
Human Toxicity	1.44	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.036	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000000017	m ³ high level waste
Ecotoxicity to Land	0.0358	kg 1,4-DB eq..
Waste Disposal	8.46	kg
Fossil Fuel Depletion	178	MJ
Eutrophication	0.00651	kg PO ₄ eq.
Photochemical Ozone Creation	0.00809	kg ethene eq.
Acidification	0.0617	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00123	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.000422	378 m ³
Mineral Resource Extraction	0.000817	24.4 tonnes
Stratospheric Ozone Depletion	0.0000245	0.217 kg CFC11 eq.
Human Toxicity	0.0000728	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000273	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000716	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000292	123 kg 1,4-DB eq..
Waste Disposal	0.00226	3750 kg
Fossil Fuel Depletion	0.000653	273 GJ
Eutrophication	0.0002	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000376	21.5 kg ethene eq.
Acidification	0.000867	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0692 Ecopoints

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Appendix to Certificate of Verification

Appendix Number: ENP516s Issue: 1

Trimo d.d
 Prijateljeva cesta 12
 SI-8210 Trebnje
 Slovenia



Characterised and normalised data for:

Roofing: Low Pitched Roof

Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel rafters and joists with no internal finish

1 m² over 60-year study period

Quality of data for profiled material

Start date	1/1/2014
End Date	12/31/2014
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	2/8/2016
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All Building Types
Source of data	Company records
Geography	SI

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.134 Ecopoints

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Appendix No: ENP516s

Issue: 1

Trimo d.d

Prijateljjeva cesta 12
SI-8210 Trebnje
Slovenia

Roofing: Low Pitched Roof

Trimo Trimoterm Power T - SNV coated steel composite fireproof panel on steel rafters and joists with no internal finish
1 m² over 60-year study period

Characterised Data

Issue	Value	Unit
Climate Change	30.1	kg CO ₂ eq (100 yr.)
Water Extraction	0.314	m ³
Mineral Resource Extraction	0.0336	tonnes
Stratospheric Ozone Depletion	0.0000155	kg CFC11 eq.
Human Toxicity	3.88	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.115	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000391	m ³ high level waste
Ecotoxicity to Land	0.0993	kg 1,4-DB eq..
Waste Disposal	14	kg
Fossil Fuel Depletion	380	MJ
Eutrophication	0.0159	kg PO ₄ eq.
Photochemical Ozone Creation	0.0169	kg ethene eq.
Acidification	0.138	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00245	12300 kg CO ₂ eq (100 yr.)
Water Extraction	0.00083	378 m ³
Mineral Resource Extraction	0.00138	24.4 tonnes
Stratospheric Ozone Depletion	0.0000713	0.217 kg CFC11 eq.
Human Toxicity	0.000197	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000087	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00165	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000807	123 kg 1,4-DB eq..
Waste Disposal	0.00375	3750 kg
Fossil Fuel Depletion	0.00139	273 GJ
Eutrophication	0.000489	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000783	21.5 kg ethene eq.
Acidification	0.00193	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.134 Ecopoints

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