



DF37

48UGW37NRN19071

NAZWA
HANDLOWA:

DF37, OPTIMUM 37, HOME 37, HOME 37 (W), MULTIRULLE 37,
ROLL 37, URSA DF37 OPTIMUM, DF37 OPTIMUM,
ISOLERINGRULLE

| | | |
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DEKLARACJA WŁAŚCIWOŚCI UŻYTKOWYCH

Nr

48UGW37NRN19071



1. **Niepowtarzalny kod identyfikacyjny typu wyrobu:**
DF37 MW-EN 13162-T2-MU1-AFr5
2. **Zamierzone zastosowanie lub zastosowania:**
Izolacja cieplna w budownictwie
3. **Producent:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. **Upoważniony przedstawiciel**
Nie dotyczy
5. **System(-y) oceny i weryfikacji stałości właściwości użytkowych:**
System 3, reakcja na ogień System 1
6. **Norma zharmonizowana:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Jednostka lub jednostki notyfikowane:
Nr 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))

7. Deklarowane właściwości użytkowe:

| Podstawowa charakterystyka | | | | Spełnienie | Zharmonizowana specyfikacja techniczna |
|----------------------------|--|---|---|--|---|
| 7.1 | Reakcja na ogień | Reakcja na ogień | Euroklasy | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Uwalnianie się substancji niebezpiecznych do środowiska wewnętrznego | Uwalnianie substancji niebezpiecznych | Metoda zharmonizowana nie została określona | NPD | |
| 7.3 | Wskaźnik pochłaniania dźwięku | Pochłanianie dźwięku | AP, AW | NPD | |
| 7.4 | Wskaźnik izolacyjności od dźwięków uderzeniowych (dla podłóg) | Sztywność dynamiczna | SD | NPD | |
| | | Grubość dL | dL | NPD | |
| | | Ścisłość | CP | NPD | |
| | | Opór przepływu powietrza | AFr | NPD | |
| 7.5 | Wskaźnik izolacyjności od dźwięków powietrznych przenoszonych drogą bezpośrednią | Opór przepływu powietrza | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.7 | Ciągłe spalanie w postaci żarzenia | Ciągłe spalanie w postaci żarzenia | Metoda zharmonizowana nie została określona | NPD | |
| 7.7 | Opór cieplny | Współczynnik przewodzenia ciepła λ_D [W/m*K] 0,037 | Grubość d_N [mm] | Opór cieplny R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| 70 | 1,85 | | | | |

| | | | | | |
|------|--|--|---|--|---|
| | | | 80 | 2,15 | |
| 7.7 | Opór cieplny | Współczynnik przewodzenia ciepła λ_D [W/m*K] | Grubość d_N [mm] | Opór cieplny R_D [m ² *K/W] | |
| | | 0,037 | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Grubość | Tolerancja grubości T | T2 | | |
| 7.8 | Przepuszczalność wody | Krótkotrwała nasiąkliwość wodą | WS | NPD | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | Długotrwała nasiąkliwość wodą | WL(P) | NPD | |
| 7.9 | Przepuszczalność pary wodnej | Przenikanie pary wodnej | MU | 1 | |
| 7.10 | Wytrzymałość na ściskanie | Naprężenia ściskające lub wytrzymałość na ściskanie | CS | NPD | |
| | | Obciążenie punktowe | PL | NPD | |
| 7.11 | Trwałość reakcji na ogień w funkcji ciepła, warunków atmosferycznych, starzenia / degradacji | Właściwości użytkowe reakcji na ogień dla wyrobów z wełny mineralnej nie pogarszają się w czasie. Klasyfikacja wyrobu według Euroklas jest związana z zawartością części organicznych, które nie mogą zwiększać się w czasie Euroklasa A1 | | | |
| 7.12 | Trwałość oporu cieplnego w funkcji ciepła, warunków atmosferycznych, starzenia / degradacji | Opór cieplny - współczynnik przewodzenia ciepła | Współczynnik przewodzenia ciepła wyrobów z wełny mineralnej nie zmienia się w czasie, doświadczenie wykazało stabilność struktury włókien, a pory nie zawierają żadnych innych gazów, niż powietrze atmosferyczne. Deklarowane poziomy patrz punkt 6.7 | | |
| | | Trwałość właściwości | DS (70,-) | NPD | |
| 7.13 | Wytrzymałość na rozciąganie / zginanie | Wytrzymałość na rozciąganie prostopadłe do powierzchni czołowych | TR | NPD | |
| 7.14 | Trwałość wytrzymałości na ściskanie w funkcji starzenia / degradacji | Pełzanie przy ściskaniu | CC | NPD | |

Właściwości użytkowe określonego powyżej wyrobu są zgodne z zestawem deklarowanych właściwości użytkowych. Niniejsza deklaracja właściwości użytkowych wydana zostaje zgodnie z rozporządzeniem (UE) nr 305/2011 na wyłączną odpowiedzialność producenta określonego powyżej.

W imieniu producenta podpisał(a):

Dąbrowa Górnicza 30.08.2024

URSA Polska Sp. z o.o.
Dyrektor Zakładu Bedkowski
Dyrektor Zakładu

DECLARATION OF PERFORMANCE

No

48UGW37NRN19071



- 1. Unique identification code of the product-type:**
DF37 MW-EN 13162-T2-MU1-AFr5
- 2. Intended use/es:**
Thermal insulation for building
- 3. Manufacturer:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
- 4. Authorized Representative**
Not applicable
- 5. System/s of AVCP:**
SYSTEM 3, reaction to fire SYSTEM 1
- 6. Harmonised standard:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Notified body/ies:
No 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart. Otto-Graf-Institut. (FMIPA))

7. Declared performance/s:

| Essential characteristics | | | | Performance | Harmonized technical specification |
|---------------------------|---|--|--|--|---|
| 7.1 | Reaction to fire | Reaction to fire | Euroclasses | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Release of dangerous substances to the indoor environment | Release of dangerous substances | Harmonization method has not been determined | NPD | |
| 7.3 | Acoustic absorption index | Sound absorption | AP, AW | NPD | |
| 7.4 | Impact noise transmission index (for floors) | Dynamic stiffness | SD | NPD | |
| | | Thickness dL | dL | NPD | |
| | | Compressibility | CP | NPD | |
| | | Air flow resistivity | AFr | NPD | |
| 7.5 | Direct airborne sound insulation index | Air flow resistivity | AFr | $\geq 5 \text{ kPa*s/m}^2$ | |
| 7.6 | Continuous glowing combustion | Continuous glowing combustion | Harmonization method has not been determined | NPD | |
| | | Thermal conductivity λ_D [W/m*K] | Thickness d_N [mm] | Thermal resistance R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |

| | | | | |
|------|---|---|--|------|
| 7.7 | Thermal resistance | 0,037 | 70 | 1,85 |
| | | | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| 250 | 6,75 | | | |
| | Thickness | Thickness tolerance T | T2 | |
| 7.8 | Water permeability | Short water absorption | WS | NPD |
| | | Long-lasting water absorption | WL(P) | NPD |
| 7.9 | Water vapour permeability | Water vapour transmission | MU | 1 |
| 7.10 | Compressive strength | Compressive stress or compressive strength | CS | NPD |
| | | Point load | PL | NPD |
| 7.11 | Durability of reaction to fire against heat, weathering, ageing/degradation | The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time Euroclass A1 | | |
| 7.12 | Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance and thermal conductivity | Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air Declared levels refer to section 6.7 | |
| | | Durability characteristics | DS (70,-) | NPD |
| 7.13 | Tensile / Flexural strength | Tensile strength perpendicular to faces | TR | NPD |
| 7.14 | Durability of compressive strength against ageing/degradation | Compressive creep | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Dąbrowa Górnicza 30.08.2024

URSA Polska Sp. z o.o.
Plant Manager
Dyrektor Zakładu

LEISTUNGSERKLÄRUNG

Nr.

48UGW37NRN19071



1. **Eindeutiger Kenncode des Produkttyps:**
DF37 MW-EN 13162-T2-MU1-AFr5
2. **Verwendungszweck(e):**
Wärmedämmstoffe für Gebäude
3. **Hersteller:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. **Vertretungsberechtigter**
Nicht zutreffend
5. **System(e) zur Bewertung und Überprüfung der Leistungsbeständigkeit:**
SYSTEM 3,brandverhalten SYSTEM 1
6. **Harmonisierte Norm:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Notifizierte Stelle(n):
Nr 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart. Otto-Graf-Institut. (FMPI))
7. **Erklärte Leistung(en):**

| Wesentliche Merkmale | | | | Leistung | Harmonisierte technische Spezifikation |
|----------------------|--|---|--|--|---|
| 7.1 | Brandverhalten | Brandverhalten | Euroklasse | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Freisetzung gefährlicher Stoffe, Abgabe in das Gebäudeinnere | Freisetzung gefährlicher Stoffe | Bisher keine harmonisierte Prüfmethode verfügbar | NPD | |
| 7.3 | Schallabsorptionsgrad | Schallabsorption | AP, AW | NPD | |
| 7.4 | Trittschallübertragung (für Böden) | Dynamische Steifigkeit | SD | NPD | |
| | | Dicke dL | dL | NPD | |
| | | Zusammendrückbarkeit | CP | NPD | |
| | | Strömungswiderstand | AFr | NPD | |
| 7.5 | Luftschalldämm-Maß | Strömungswiderstand | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Glimmverhalten | Glimmverhalten | Bisher keine harmonisierte Prüfmethode verfügbar | NPD | |
| | | Wärmeleitfähigkeit λ_D [W/m*K] | Dicke d_N [mm] | Wärmewiderstand R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |

| | | | | | |
|------|--|---|--|------|---|
| 7.7 | Wärmedurchlasswiderstand | 0,037 | 70 | 1,85 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | | 80 | 2,15 | |
| | | | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Dicke | Dickentoleranz T | T2 | | |
| 7.8 | Wasserdurchlässigkeit | Kurzfristige Wasseraufnahme | WS | NPD | |
| | | Lang anhaltende Wasseraufnahme | WL(P) | NPD | |
| 7.9 | Wasserdampfdurchlässigkeit | Wasserdampfdiffusion | MU | 1 | |
| 7.10 | Druckfestigkeit | Druckspannung oder Druckfestigkeit | CS | NPD | |
| | | Punktlast | PL | NPD | |
| 7.11 | Dauerhaftigkeit des Brandverhaltens unter Einfluss von Wärme, Witterungseinflüssen, Alterung/ Abbau | Das Verhalten von Mineralwolle bei Brandeinwirkung verschlechtert sich nicht mit der Zeit. Die Euroklassen- Einteilung des Produkts bezieht sich auf den Gehalt an organischen Bestandteilen, der sich mit der Zeit nicht erhöht. Euroklassen A1 | | | |
| 7.12 | Dauerhaftigkeit des Wärmedurchlasswiderstandes unter Einfluss von Wärme, Witterungseinflüssen, Alterung/ Abbau | Wärmedurchlasswiderstand und Wärmeleitfähigkeit | Die Wärmeleitfähigkeit von Produkten aus Mineralwolle verändert sich nicht mit der Zeit. Erfahrungen haben gezeigt, dass die Faserstruktur stabil bleibt und das relative Porenvolumen keine anderen Gase als Luft enthält. Deklarierte Werte siehe Abschnitt 6.7 | | |
| | | Dimensionsstabilität | DS (70,-) | NPD | |
| 7.13 | Zug-/ Biegefestigkeit | Zugfestigkeit senkrecht zur Plattenebene | TR | NPD | |
| 7.14 | Dauerhaftigkeit der Druckfestigkeit unter Einfluss von Alterung/ Abbau | Langzeit- Kriechverhalten bei Druckbeanspruchung | CC | NPD | |

Die Leistung des vorstehenden Produkts entspricht der erklärten Leistung/den erklärten Leistungen. Für die Erstellung der Leistungserklärung im Einklang mit der Verordnung (EU) Nr. 305/2011 ist allein der obengenannte Hersteller verantwortlich.

Unterzeichnet für den Hersteller und im Namen des Herstellers von:

Betriebsleiter

Dąbrowa Górnicza 30.08.2024

Marek Bedkowski
Dyrektor Zakładu

PROHLÁŠENÍ O VLASTNOSTECH

48UGW37NRN19071

Č.



- Jedinečný identifikační kód výrobku:**
DF37 MW-EN 13162-T2-MU1-AFr5
- Určené použití:**
Tepelněizolační výrobky pro budovy
- Výrobce:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
- Zplnomocněný zástupce**
Neuplatňuje se
- Systém nebo systémy posuzování a ověřování stálosti vlastností:**
Systém 3, reakce na oheň Systém 1
- Harmonizovaná norma:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Oznámený subjekt nebo oznámené subjekty:
č. 672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))

7. Deklarované vlastnosti:

| Základní charakteristika | | | | Deklarovaná hodnota | Harmonizovaná technická specifikace |
|--------------------------|--|--|------------------------------------|---|---|
| 7.1 | Reakce na oheň | Reakce na oheň | Eurotřídy | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Uvolňování nebezpečných látek do vnitřního prostředí | Uvolňování nebezpečných látek | Harmonizovaná metoda nebyla určena | NPD | |
| 7.3 | Index zvukové pohltivosti | Zvuková pohltivost | AP, AW | NPD | |
| 7.4 | Index kročejevé neprůzvučnosti (u podlah) | Dynamická tuhost | SD | NPD | |
| | | Tloušťka, dL | dL | NPD | |
| | | Stlačitelnost | CP | NPD | |
| | | Odpor proti proudění vzduchu | AFr | NPD | |
| 7.5 | Index vzduchové neprůzvučnosti | Odpor proti proudění vzduchu | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Hoření prostupujícím žhnutím | Hoření prostupujícím žhnutím | Harmonizovaná metoda nebyla určena | NPD | |
| | | Deklarovaný součinitel tepelné vodivosti λ_D [W/m*K] | Tloušťka d_N [mm] | Deklarovaný tepelný odpor R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |

| | | | | | |
|------|---|--|--|------|---|
| 7.7 | Tepelný odpor | 0,037 | 60 | 1,60 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | | 70 | 1,85 | |
| | | | 80 | 2,15 | |
| | | | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| 240 | 6,45 | | | | |
| 250 | 6,75 | | | | |
| | Tloušťka | Tolerance tloušťky T | T2 | | |
| 7.8 | Propustnost vody | Krátkodobá absorpce vody | WS | NPD | |
| | | Dlouhodobá nasákavost | WL(P) | NPD | |
| 7.9 | Propustnost vodní páry | Propustnost vodní páry | MU | 1 | |
| 7.10 | Pevnost v tlaku | Napětí v tlaku nebo pevnost v tlaku | CS | NPD | |
| | | Bodové zatížení | PL | NPD | |
| 7.11 | Stálost reakce na oheň při působení tepla, vlivu počasí, stárnutí / degradaci | Vlastnosti reakce na oheň minerální vlny se s časem nezhoršují. Klasifikace výrobku na Eurotřídy se vztahuje k obsahu organických látek, který se nemůže zvýšit s časem. Eurotřída A1 | | | |
| 7.12 | Stálost tepelného odporu při zvýšení tepla, vlivu počasí, stárnutí/degradaci | Tepelný odpor – součinitel tepelné vodivosti | V případě výrobků z minerální vlny se jejich tepelná vodivost nemění, struktura vláken je stálá a póry obsahují pouze atmosférický vzduch. Prohlášené úrovně viz část 6.7 | | |
| | | Rozměrová stabilita | DS (70,-) | NPD | |
| 7.13 | Pevnost v tahu/ohybu | Pevnost v tahu kolmo k rovině desky | TR | NPD | |
| 7.14 | Stálost pevnosti v tlaku při stárnutí / degradaci | Dotvarování tlakem | CC | NPD | |

Vlastnosti zde uvedeného výrobku jsou ve shodě s deklarovanými vlastnostmi. Toto prohlášení o vlastnostech se vydává v souladu s nařízením (EU) č. 305/2011 na výhradní odpovědnost zde uvedeného výrobce.

Jménem výrobce podepsal/a:

Dąbrowa Górnicza 30.08.2024

URSA Polska Sp. z o.o.
generální ředitel
Dyktor Zakładu

VYHLÁSENIE O PARAMETROCH

48UGW37NRN19071

č.



1. Jedinečný identifikačný kód typu výrobku:

DF37 MW-EN 13162-T2-MU1-AFr5

2. Zamýšľané použitie/použitia:

Tepelnoizolačné výrobky pre budovy

3. Výrobca:

URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl

4. Splnomocnený zástupca

Neuplatňuje sa

5. Systém(-y) posudzovania a overovania nemennosti parametrov:

Systém 3, reakcia na oheň Systém 1

6. Harmonizovaná norma:

EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)

Notifikovaný(-é) subjekt(-y):

č. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMFA))

7. Deklarované parametre:

| Základná charakteristika | | | | Deklarovaná hodnota | Harmonizovaná technická špecifikácia |
|--------------------------|---|---|------------------------------------|---|---|
| 7.1 | Reakcia na oheň | Reakcia na oheň | Euroclass | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Uvoľňovanie nebezpečných látok do vnútorného prostredia | Uvoľňovanie nebezpečných látok | Harmonizovaná metóda nebola určená | NPD | |
| 7.3 | Index zvukovej pohltivosti | Zvuková pohltivosť | AP, AW | NPD | |
| 7.4 | Index prenosu krokového hluku (pre podlahy) | Dynamická tuhosť | SD | NPD | |
| | | Hrúbka, dL | dL | NPD | |
| | | Stlačiteľnosť | CP | NPD | |
| | | Odpor prúdenia vzduchu | AFr | NPD | |
| 7.5 | Index vzduchovej nepriezvučnosti | Odpor proti prúdeniu vzduchu | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Pokračujúce horenie žeravením | Pokračujúce horenie žeravením | Harmonizovaná metóda nebola určená | NPD | |
| | | Deklarovaný súčiniteľ' tepelnej vodivosti λ_D [W/m*K] | Hrúbka d_N [mm] | Deklarovaný tepelný odpor R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |

| | | | | |
|------|---|---|--|------|
| 7.7 | Tepelný odpor | 0,037 | 60 | 1,60 |
| | | | 70 | 1,85 |
| | | | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| | | | 250 | 6,75 |
| | Hrúbka | Tolerancia hrúbky T | T2 | |
| 7.8 | Priepustnosť vody | Krátkodobá absorpcia vody | WS | NPD |
| | | Dlhotrjavá nasiakavosť vody | WL(P) | NPD |
| 7.9 | Priepustnosť vodnej pary | Priepustnosť vodnej pary | MU | 1 |
| 7.10 | Pevnosť v tlaku | Napätie v tlaku alebo pevnosť v tlaku | CS | NPD |
| | | Bodové zaťaženie | PL | NPD |
| 7.11 | Trvanlivosť reakcie na oheň pri pôsobení teploty, poveternosti, starnutia/degradácie | Požiarne vlastnosti minerálnej vlny sa časom nezhoršujú. Klasifikácia reakcie na oheň (eurotrieda) sa vzťahuje na organický obsah, ktorý sa nemôže časom zvýšiť. Eurotrieda A1 | | |
| 7.12 | Trvanlivosť tepelného odporu pri pôsobení teploty, poveternosti, starnutia/degradácie | Tepelný odpor a tepelná vodivosť | Tepelná vodivosť výrobkov z minerálnej vlny sa časom nemení, skúsenosť preukázala, že vláknitá štruktúra je stabilná a póry neobsahujú iné plyny okrem atmosférického vzduchu. Deklarované úrovne. pozri časť 6.7 | |
| | | Rozmerová stálosť | DS (70,-) | NPD |
| 7.13 | Pevnosť v ťahu/pri ohybe | Pevnosť v ťahu kolmo na rovinu | TR | NPD |
| 7.14 | Trvanlivosť pevnosti v tlaku pri starnutí a degradácii | Dotvorenie stlačením | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Uvedené parametre výrobku sú v zhode so súborom deklarovateľných parametrov. Toto vyhlásenie o parametroch sa v súlade s nariadením (EÚ) č. 305/2011 vydáva na výhradnú zodpovednosť uvedeného výrobcu.

Podpísal(-a) za a v mene výrobcu:

Generálny riaditeľ

URSA Polska Sp. z o.o.
Marek Bedkowski
Dyrektor Zakładu

Dąbrowa Górnicza 30.08.2024

DÉCLARATION DES PERFORMANCES

n°

48UGW37NRN19071



1. Code d'identification unique du produit type:

DF37 MW-EN 13162-T2-MU1-AFr5

2. Usage(s) prévu(s):

Isolation thermique du bâtiment

3. Fabricant:

URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl

4. Mandataire

Sans objet

5. Système(s) d'évaluation et de vérification de la constance des performances:

Système 3, réaction au feu Système 1

6. Norme harmonisée:

EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)

Organisme(s) notifié(s):

n° 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMIPA))

7. Performance(s) déclarée(s):

| Caractéristiques essentielles | | | | Performances | Spécification technique harmonisée |
|-------------------------------|---|--|---|---|---|
| 7.1 | Réaction au feu | Réaction au feu | Euroclasses | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Emissions de substances dangereuses à l'intérieur des bâtiments | Emissions de substances dangereuses | Méthode harmonisée n'a pas été déterminée | NPD | |
| 7.3 | Indice d'absorption acoustique | Absorption acoustique | AP, AW | NPD | |
| 7.4 | Indice de transmission des bruits d'impact (pour les sols) | Raideur dynamique | SD | NPD | |
| | | Epaisseur, dL | dL | NPD | |
| | | Compressibilité | CP | NPD | |
| | | Résistance au flux d'air | AFr | NPD | |
| 7.5 | Indice d'isolement aux bruits aériens directs | Résistance au flux d'air | AFr | $\geq 5 \text{ kPa*s/m}^2$ | |
| 7.6 | Combustion avec incandescence continue | Combustion avec incandescence continue | Méthode harmonisée n'a pas été déterminée | NPD | |
| | | Conductivité thermique λ_D [W/m*K] | épaisseur d_N [mm] | Résistance thermique RD [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |
| | | | 80 | 2,15 | |
| | | | 95 | 2,55 | |

| | | | | |
|------|---|--|---|-----------|
| 7.7 | Résistance thermique | 0,037 | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| | | | 250 | 6,75 |
| | | | | Epaisseur |
| 7.8 | Perméabilité à l'eau | Absorption d'eau à court terme | WS | NPD |
| | | À long terme absorption d'eau | WL(P) | NPD |
| 7.9 | Perméabilité à la vapeur | Transmission de vapeur | MU | 1 |
| 7.10 | Résistance à la compression | Force de compression/Force compressive | CS | NPD |
| | | Charge ponctuelle | PL | NPD |
| 7.11 | Durabilité de la réaction au feu par rapport à l'exposition à la chaleur ou aux intempéries, au vieillissement/à la dégradation | Les performances de réaction au feu pour les produits de laine minérale ne se détériorent pas avec le temps. La classification du produit selon Euroclasse est liée au contenu organique qui ne peut pas augmenter au fil de temps. Euroclasse A1 | | |
| 7.12 | Durabilité de la résistance thermique à la chaleur, aux intempéries, à l'usure / la dégradation | Résistance thermique - conductivité thermique | La conductivité thermique des produits en laine minérale ne change pas avec le temps. L'expérience a montré que la structure fibreuse est stable et que la porosité ne contient pas d'autre gaz que l'air de l'atmosphère Niveaux déclarés, voir section 6.7 | |
| | | Caractéristiques de durabilité | DS (70,-) | NPD |
| 7.13 | Résistance à la traction/flexion | Résistance à la traction perpendiculaire aux faces | TR | NPD |
| 7.14 | Durabilité de la résistance à la compression par rapport au vieillissement/à la dégradation | Fluage en compression | CC | NPD |

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13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Les performances du produit identifié ci-dessus sont conformes à l'ensemble des performances déclarées. La présente déclaration de performances est délivrée conformément au règlement (UE) n° 305/2011 sous la responsabilité exclusive du fabricant identifié ci-dessus.

Signé pour le fabricant et en son nom:

Directeur de l'établissement

URSA Polska Sp. z o.o.
[Signature]
Dyrektor Zakładu

Dąbrowa Górnicza 30.08.2024

YDEEVNEDEKLARATION

Nej.

48UGW37NRN19071



- Varetypens unikke identifikationskode:**
DF37 MW-EN 13162-T2-MU1-AFr5
- Tilsligtet anvendelse eller anvendelser:**
Varmeisolering til byggeri
- Fabrikant:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
- Repraesentant**
Ikke relevant
- System(er) til vurdering og kontrol af ydeevnens konstans:**
System 3, reaktion ved brand System 1
- Harmoniseret standard:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Notificeret organ/notificerede organer:
Nej. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))
- Deklareret ydeevneværdier:**

| Grundlæggende karakteristik | | | | Værdi | Harmoniserede tekniske specifikationer |
|-----------------------------|---|---|----------------------------------|--|---|
| 7.1 | Reaktion ved brand | Reaktion ved brand | Euroklasser | A1 | EN 13162:2012+A1:2015 5 (PN-EN 13162+A1:2015-04) |
| 7.2 | Frigivelse af farlige stoffer til internt miljø | Frigivelse af farlige stoffer | Harmoniseret metode findes ikke. | NPD | |
| 7.3 | Lydabsorptionskoefficient | Lydabsorption | AP, AW | NPD | |
| 7.4 | Isoleringskoefficient mod stødlyde (gulve) | Dynamisk stivhed | SD | NPD | |
| | | Tykkelse dL | dL | NPD | |
| | | Kompressionsevne | CP | NPD | |
| | | Luftgennemstrømningsmodstand | AFr | NPD | |
| 7.5 | Isoleringskoefficient mod direkte transmitterede luftlyde | Luftgennemstrømningsmodstand | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Kontinuerlig fyring i form af glødning | Kontinuerlig fyring i form af glødning | Harmoniseret metode findes ikke. | NPD | |
| 7.7 | Varmemodstand | Varmeledningsevne λ_D [W/m ² *K] | Tykkelse d_N [mm] | Deklareret varmemodstand R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| 70 | 1,85 | | | | |

| | | | | | |
|------|---|---|--|--|--|
| | | | 80 | 2,15 | |
| 7.7 | Varmemodstand | Varmeledningsevne λ_D [W/m*K] | Tykkelse d_N [mm] | Deklareret varmemodstand R_D [m ² *K/W] | EN 13162:2012+A1:201 5 (PN-EN 13162+A1:2015-04) |
| | | 0,037 | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Tykkelse | Tykkelses tolerance T | T2 | | |
| 7.8 | Vandpermeabilitet | Kortvarig vandabsorption | WS | NPD | |
| | | Langtids vandoptagelse | WL(P) | NPD | |
| 7.9 | Vanddamp permeabilitet | Vanddampdiffusion | MU | 1 | |
| 7.10 | Trykstyrke | Trykspændinger eller trækstyrke | CS | NPD | |
| | | Punktbelastning | PL | NPD | |
| 7.11 | Holdbarhed af reaktion ved brand over for varme, vejrforhold, ældning/ nedbrydning | De brandmæssige egenskaber af mineraluld forringes ikke med tiden ved påvirkning af høj temperatur. Euroklasse Klassificeringen af produktet er relateret til det organiske indhold, der forbliver konstant eller aftager ved høje temperaturer. Euroklasse A1 | | | |
| 7.12 | Holdbarhed af termisk modstand mod varme, vejrforhold, ældning/ nedbrydning | Varmemodstand – valmeledningskoefficient | Varmeledningsevnen af mineraluld produkter ændres ikke med tiden, erfaringer har vist, at fiberstrukturen er stabil og at porøsiteten ikke indeholder andre gasser end atmosfærisk luft. Deklarerede værdier – se punkt 6.7 | | |
| | | Holdbarhed af egenskaber | DS (70,-) | NPD | |
| 7.13 | Træk-/ bøjningsstyrke | Bestandighed mod lodret trækstyrke over for frontale overflader | TR | NPD | |
| 7.14 | Trykevnes bestandighed ved ældning/ nedbrydning | Krybning ved kompression | CC | NPD | |

Ydeevnen for den vare, der er anført ovenfor, er i overensstemmelse med den deklarerede ydeevne.

Denne ydeevnedeklaration er udarbejdet i overensstemmelse med forordning (EU) nr. 305/2011 på eneansvar af den fabrikant, der er anført ovenfor.

Underskrevet for fabrikanten og på dennes vegne af:

Dąbrowa Górnicza 30.08.2024

Værkleder:

 Marek Bedkowski
 Dyrektor Zakładu

YTELSESERKLÆRING

48UGW37NRN19071



Nei.

1. Unik identifikasjonskode av produktet-typen:

DF37 MW-EN 13162-T2-MU1-AFr5

2. Planlagt bruk:

Varmeisolering i byggebransjen

3. Produsent:

URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl

4. Autorisert representant

Ikke aktuelt

5. System(er) av AVCP:

Sistema 3, reaksjon på brann Sistema 1

6. Harmonisert standard:

EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)

Teknisk kontrollorgan(er):

Nei 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMFA))

7. Oppgitt ytelse(r):

| Grunnleggende beskrivelse | | | | Oppfyllelse | Harmonisert teknisk spesifikasjon |
|---------------------------|--|--|----------------------------------|--|---|
| 7.1 | Reaksjon på brann | Reaksjon på brann | Euroklasser | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Utslipp av farlige stoffer til innemiljøet | Utslipp av farlige stoffer | Harmonisert metode ikke fastlått | NPD | |
| 7.3 | Indeks for lydabsorpsjon | Lydabsorpsjon | AP, AW | NPD | |
| 7.4 | Indeks for isoleringsevne mot slaglyd (for gulv) | Dynamisk stivhet | SD | NPD | |
| | | Tykkelse dL | dL | NPD | |
| | | Kompressibilitet | CP | NPD | |
| | | Luftmotstand | AFr | NPD | |
| 7.5 | Indeks for isolering mot direkte overførte luftlyder | Luftmotstand | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Konstant forbrenning i form av gløding | Konstant forbrenning i form av gløding | Harmonisert metode ikke fastlått | NPD | |
| | | Termisk ledningsevne λ_D [W/m*K] | Tykkelse d_N [mm] | Termisk motstand R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |

| | | | | |
|------|---|---|--|------|
| 7.7 | Varmemotstand | 0,037 | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| | | | 250 | 6,75 |
| | Tykkelse | Tykkelsestoleransen T | T2 | |
| 7.8 | Vanngjennomtrengelighet | Kortsiktig vannabsorpsjon | WS | NPD |
| | | Langsiktig vannabsorpsjon | WL(P) | NPD |
| 7.9 | Vanndampgjennomtrengelighet | Vanndampgjennomtrenging | MU | 1 |
| 7.10 | Kompresjonsmotstand | Kompresjonsspenning eller kompresjonsmotstand | CS | NPD |
| | | Punktbelastning | PL | NPD |
| 7.11 | Varighet av reaksjon på brann ved varme, atmosfæriske forhold, aldring/slitasje | Bruksegenskaper tilknyttet „reaksjon på brann” for varer laget av mineralull blir ikke verre med tiden. Varens klassifisering etter Euroklassene er tilknyttet innhold av organiske deler, som ikke kan øke med tiden. Euroklasse A1 | | |
| 7.12 | Varighet av varmemotstand ved varme, atmosfæriske forhold, aldring/slitasje | Varmemotstand – koeffisient for termisk konduktivitet | Koeffisient for termisk konduktivitet forandrer seg ikke med tiden. I et eksperiment ble stabilitet av fiberstrukturen påvist, og porene inneholder ingen andre gasser enn atmosfæreluft. Deklarererte nivåer, se seksjon 6.7 | |
| | | Dimensjonsstabilitet | DS (70,-) | NPD |
| 7.13 | Strek-/bøymotstand | Motstandsdyktighet mot strekking vinkelrett til frontale overflater | TR | NPD |
| 7.14 | Varighet av kompresjonsmotstand ved aldring/slitasje | Kryp under kompresjon | CC | NPD |

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13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Ytelsen til produktet som er identifisert ovenfor er i samsvar med de(n) erklærte ytelsen(e). Denne ytelseserklæringen er utstedt i samsvar med forordning (EF) nr 305/2011, under ansvaret til produsent identifisert ovenfor.

Signert for og på vegne av produsenten av:

Dąbrowa Górnicza 30.08.2024

URSA Polska Sp. z o.o.
Fabrikkdirektør
Dyrektor Zakładu

PRESTANDEDEKLARATION

Nej.

48UGW37NRN19071



1. Produkttypens unika identifikationskod:

DF37 MW-EN 13162-T2-MU1-AFr5

2. Avsedd användning/avsedda användningar:

Värmeisolering i byggnader

3. Tillverkare:

URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl

4. Auktoriserad representant

Ej tillämpligt

5. System för bedömning och fortlöpande kontroll av prestanda:

Systemet 3, reaktion vid brandpåverkan Systemet 1

6. Harmoniserad standard

EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)

Anmält/anmälda organ

Nej 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))

7. Angiven prestanda:

| Grundläggande egenskaper | | | | Uppfyllnad | Harmoniserad teknisk specifikation |
|--------------------------|--|--|--|---|---|
| 7.1 | Reaktion vid brandpåverkan | Reaktion vid brandpåverkan | Euroklasser | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Utsläpp av farliga ämnen till inomhusmiljön | Utsläpp av farliga ämnen | Den harmoniserade metoden har inte fastställts | NPD | |
| 7.3 | Ljudabsorptionskoefficient | Ljudabsorption | AP, AW | NPD | |
| 7.4 | Indikator för stegljudsisolering (för golv) | Dynamisk styvhet | SD | NPD | |
| | | Tjocklek dL | dL | NPD | |
| | | Kompressibilitet | CP | NPD | |
| | | Motståndsnivå för luftflöde | AFr | NPD | |
| 7.5 | Indikator för luftljudsisolering av ljud som överförs direkt | Motståndsnivå för luftflöde | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Kontinuerlig glödande förbränning | Kontinuerlig glödande förbränning | Den harmoniserade metoden har inte fastställts | NPD | |
| | | Värmeledningsförmåga λ_D [W/m ² *K] | Tjocklek d_N [mm] | Termisk resistans R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |

| | | | | |
|------|--|---|--|------|
| 7.7 | Värmemotstånd | 0,037 | 60 | 1,60 |
| | | | 70 | 1,85 |
| | | | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| 250 | 6,75 | | | |
| | Tjocklek | Tjocklekstolerans T | T2 | |
| 7.8 | Vattengenomsläpplighet | Kratkoročna absorpcija vode | WS | NPD |
| | | Långsiktig vattenabsorption | WL(P) | NPD |
| 7.9 | Ånggenomsläpplighet | Permeabilitet för vattenånga | MU | 1 |
| 7.10 | Tryckhållfasthet | Tryckspänning eller tryckhållfasthet | CS | NPD |
| | | Punktlast | PL | NPD |
| 7.11 | Hållbarhet vid brandpåverkan som en funktion av värme, väderförhållanden, åldring/ nedbrytning | Prestanda för mineralullsprodukter med hänsyn till reaktion vid brandpåverkan försämrans inte över tid. Klassificering av produkten enligt euroklasser är förknippad med innehållet av organiskt material som inte kan öka över tid. Euroklasse A1 | | |
| 7.12 | Hållbarhet av värmemotstånd som en funktion av värme, väderförhållanden, åldring/ nedbrytning | Värmemotstånd- termisk konduktivitet | Termisk konduktivitet för mineralullsprodukter förändras inte över tid. Testet har visat stabiliteten av fiberstruktur och porerna innehåller ingen annan gas än atmosfärisk luft. Deklarerade nivåer, se avsnitt 6.7 | |
| | | Dimensionsstabilitet | DS (70,-) | NPD |
| 7.13 | Draghållfasthet /böjhållfasthet | Draghållfasthet vinkelrät mot ytorna | TR | NPD |
| 7.14 | Tryckhållfasthet som en funktion av åldring /nedbrytning | Tryckkrypning | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Prestandan för ovanstående produkt överensstämmer med den angivna prestandan. Denna prestandadeklaration har utfärdats i enlighet med förordning (EU) nr 305/2011 på eget ansvar av den tillverkare som ange:

Undertecknad på tillverkarens vägnar av:

Dąbrowa Górnicza 30.08.2024

Chefen för anläggningen

URSA Polska Sp. z o.o.
B. Kowalski
Dyrektor Zakładu

EKSPLOATACINIŲ SAVYBIŲ DEKLARACIJA

Ne.

48UGW37NRN19071



1. **Produkto tipo unikalus identifikavimo kodas:**
DF37 MW-EN 13162-T2-MU1-AFr5
2. **Naudojimo paskirtis (-ys):**
Šiluminė izoliacija statybose
3. **Gamintojas:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. **Igaliotasis atstovas**
Netaikoma
5. **Eksploatacinių savybių pastovumo vertinimo ir tikrinimo sistema (-os):**
Sistema 3, reakcija į ugnį Sistema 1
6. **Darnusis standartas:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Notifikuotoji (-osios) įstaiga (-os):
Ne. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))
7. **Deklaruojama (-os) eksploatacinė (-ės) savybė (-ės):**

| Pagrindinė savybė | | | | Tenkinimas | Suderinta techninė specifikacija |
|-------------------|--|---|---------------------------------|--|---|
| 7.1 | Reakcija į ugnį | Reakcija į ugnį | Euroklasės | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Pavojingų medžiagų išleidimas į vidaus aplinką | Pavojingų medžiagų išleidimas | Suderintas metodas neapibrėžtas | NPD | |
| 7.3 | Garso sugerties koeficientas | Garso sugertis | AP, AW | NPD | |
| 7.4 | Mušamųjų garsų (grindų atveju) izoliavimo koeficientas | Dinaminis standumas | SD | NPD | |
| | | Storis, dL | dL | NPD | |
| | | Suspaudžiamumas | CP | NPD | |
| | | Oro srauto pasipriešinimas | AFr | NPD | |
| 7.5 | Tiesioginiu būdu pernešamų oro garsų izoliavimo koeficientas | Oro srauto pasipriešinimas | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Nuolatinis degimas švytinčio degimo forma | Nuolatinis degimas švytinčio degimo forma | Suderintas metodas neapibrėžtas | NPD | |
| | | šilumos laidumas λ_D [W/m*K] | Storis d_N [mm] | Šiluminė varža R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |

| | | | | |
|------|---|---|---|------|
| 7.7 | Šiluminė varža | 0,037 | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| | | | 250 | 6,75 |
| 7.8 | Vandens pralaidumas | Storis | Storio nuokrypis T | T2 |
| | | Trumpalaikis vandens absorbcija | WS | NPD |
| | | Ilgalaikis vandens sugėrimas | WL(P) | NPD |
| 7.9 | Vandens garų pralaidumas | Vandens garų prasiskverbimas | MU | 1 |
| 7.10 | Atsparumas suspaudimui | Gniuždomasis įtempis arba atsparumas suspaudimui | CS | NPD |
| | | Krūvis | PL | NPD |
| 7.11 | Reakcijos į ugnį patvarumas šilumos funkcijos, atmosferinių sąlygų, senėjimo/degradavimo | Iš mineralinės vatos pagamintų gaminių reakcijos į ugnį eksploatacinės savybės nekinta laike. Gaminių klasifikavimas pagal Euroklas siejasi su organinių dalelių kiekiu, kuris negali ateityje didėti | | |
| 7.12 | Šiluminės varžos patvarumas šilumos funkcijos, atmosferinių sąlygų, senėjimo/degradavimo atvejais | Euroklasė A1 | | |
| | | Šiluminė varža – šilumos pralaidumo koeficientas | Iš mineralinės vatos pagamintų gaminių šilumos pralaidumo koeficientas nekinta laike. Patirtis parodė, jog audinių struktūra yra stabili, o plyšeliuose nėra kitokių dujų nei atmosferoje esantis oras. | |
| | | Dydžio stabilumas | DS (70,-) | NPD |
| 7.13 | Atsparumas tempimui/sulankstymui | Atsparumas tempiant vertikaliai priekiniams paviršiams | TR | NPD |
| 7.14 | Atsparumas spaudimui senėjimo/degradavimo funkcijų atveju | Tamprumas spaudžiant | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Nurodyto produkto eksploatacinės savybės atitinka visas deklaruotas eksploatacines savybes. Ši eksploatacinių savybių deklaracija pateikiama vadovaujantis Reglamentu (ES) Nr. 305/2011, atsakomybė už jos turinį tenka tik joje nurodytam gamintojui.

Pasirašyta (gamintojo ir jo vardu):

Dąbrowa Górnicza 30.08.2024

URSA Polska Sp. z o.o.
Michał Bedkowski
Jmonės direktorius

SUORITUSTASOILMOITUS

48UGW37NRN19071

Ei.



- Tuotetyypin yksilöllinen tunniste:**
DF37 MW-EN 13162-T2-MU1-AFr5
- Aiottu käyttötarkoitus (aiotut käyttötarkoitukset):**
Rakennusten lämpöeriste
- Valmistaja:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
- Valtuutettu edustaja**
Ei sovellettavissa
- Suoritusason pysyvyyden arvioinnissa ja varmentamisessa käytetty järjestelmä/käytetyt järjestelmät:**
Järjestelmä 3, palotekninen käyttäytyminen Järjestelmä 1
- Yhdenmukaistettu standardi:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Ilmoitettu laitos/ilmoitetut laitokset:
Ei. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMIPA))

7. Ilmoitettu suoritusaso/ilmoitetut suoritusasot:

| Peruskuvaus | | | | Täyttäminen | Yhdenmukaistettu tekninen spesifikaatio |
|-------------|--|---|--|--|---|
| 7.1 | Palotekninen käyttäytyminen | Palotekninen käyttäytyminen | Euroluokat | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Vaarallisten aineiden päästöt sisätiloihin | Vaarallisten aineiden päästöt | Yhdenmukaistettua menetelmää ei ole määritelty | NPD | |
| 7.3 | Äänen absorptiokerroin | Äänen absorptio | AP, AW | NPD | |
| 7.4 | Iskuäänten eristyskerroin (lattioille) | Dynaaminen jäykkyys | SD | NPD | |
| | | Paksuus, dL | dL | NPD | |
| | | Kokoonpuristuvuus | CP | NPD | |
| | | Ilman läpivirtausvastus | AFr | NPD | |
| 7.5 | Välittömien ilmaäänten eristävyyskerroin | Ilman läpivirtausvastus | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Jatkuva palaminen hehkuvassa muodossa | Jatkuva palaminen hehkuvassa muodossa | Yhdenmukaistettua menetelmää ei ole määritelty | NPD | |
| | | Lämmönjohtokyky λ_D [W/m ² *K] | Paksuus d_N [mm] | Lämmönkestävyys R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |

| | | | | | |
|------|---|--|--|------|---|
| 7.7 | Lämpöresistanssi | 0,037 | 70 | 1,85 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | | 80 | 2,15 | |
| | | | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Paksuus | Paksuus toleranssi T | T2 | | |
| 7.8 | Vedenläpäisevyys | Lynytäkainen veden läpäisevyys | WS | NPD | |
| | | Pitkäaikainen veden imemiskyky | WL(P) | NPD | |
| 7.9 | Vesihöyryn läpäisevyys | Vesihöyryn tunkeutuminen | MU | 1 | |
| 7.10 | Puristuslujuus | Puristusjännitys tai puristuslujuus | CS | NPD | |
| | | Pistekuormitus | PL | NPD | |
| 7.11 | Palotekninen kestävyys lämmön, ilmasto-olosuhteiden sekä vanhenemisen/hajoamisen funktiona | Mineraalivillatuotteiden paloteknisen käyttäytymisen ominaisuudet eivät huonone ajan kuluessa. Euroluokan mukainen tuoteluokitus liittyy orgaanisten osien sisältöön, jotka eivät saa lisääntyä ajan kuluessa. | | | |
| 7.12 | Lämmöneristävyyden pysyvyys lämmön, ilmasto-olosuhteiden sekä ikääntymisen/hajoamisen funktiona | Lämmöneristävyys - lämmönjohtavuuskerroin | Mineraalivillatuotteiden lämmönjohtavuuskerroin ei muutu ajan kuluessa. Kokemus on osoittanut kuitujen stabiilisuuden ja huokokset eivät sisällä muita kaasuja kuin ilmaa. | | |
| | | Mittojen pysyvyys | DS (70,-) | NPD | |
| 7.13 | Veto- /taivutuslujuus | Vetolujuus kohtisuoraan otsapintaan | TR | NPD | |
| 7.14 | Puristuslujuuden pysyvyys vanhenemisen/hajoamisen funktiona | Puristushiipuma | CC | NPD | |

Edellä yksilöidyn tuotteen suoritustaso on ilmoitettujen suoritustasojen joukon mukainen. Tämä suoritustasoilmoitus on asetuksen (EU) N:o 305/2011 mukaisesti annettu edellä ilmoitetun valmistajan yksinomaisella vastuulla.

Valmistajan puolesta allekirjoittanut:

Dąbrowa Górnicza 30.08.2024

Tehtaanjohtaja

 Ursula Bedkowska
 Dyrektor Zakładu

EKSPLUATĀCIJAS ĪPAŠĪBU DEKLARĀCIJA

Nē.

48UGW37NRN19071



1. Unikālais izstrādājuma tipa identifikācijas numurs:
DF37 MW-EN 13162-T2-MU1-AFr5
2. Paredzētais izmantojums:
Siltumizolācija būvniecībā
3. Ražotājs:
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. Pilnvarotais pārstāvis
Nav piemērojams
5. Eksploatācijas īpašību noturības novērtējuma un pārbaudes (AVCP) sistēma(-as):
Sistēma 3, pamata raksturlielumi Sistēma 1
6. Saskaņotais standarts:
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Paziņotā(-ās) iestāde(-es):
Nē. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))
7. Deklarētā(-ās) eksploatācijas īpašība(-as):

| Pamata raksturlielumi | | | | Izpilde | Saskaņota tehniskā specifikācija |
|-----------------------|---|--------------------------------------|----------------------------------|---|---|
| 7.1 | Degamība | Degamība | Eiroklases | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Bīstamo vielu izdalīšanās ēkas iekšienē | Bīstamo vielu izdalīšanās | Saskaņošanas metode nav noteikta | NPD | |
| 7.3 | Skaņu absorbēšanas koeficients | Skaņu absorbēšana | AP, AW | NPD | |
| 7.4 | Trieciena trokšņa pārvadīšana (grīdām) | Dinamiskā stingrība | SD | NPD | |
| | | Biezums, dL | dL | NPD | |
| | | Saspiežamība | CP | NPD | |
| | | Pretestība gaisa caurlaidībai | AFr | NPD | |
| 7.5 | Izolācija no gaisa trokšņa | Pretestība gaisa caurlaidībai | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Nepārtrauktā sadegšana kvēles veidā | Nepārtrauktā sadegšana kvēles veidā | Saskaņošanas metode nav noteikta | NPD | |
| | | Siltumvadītspēja λ_D [W/m*K] | Biezums d_N [mm] | Termiskā pretestība R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |

| | | | | |
|------|--|---|---|------|
| 7.7 | Termiskā pretestība | 0,037 | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| 250 | 6,75 | | | |
| | Biezums | Biezuma pielaiide T | T2 | |
| 7.8 | Ūdens caurlaidība | Īstermiņa ūdens absorbcija | WS | NPD |
| | | Ilgtermiņa ūdens uzsūkšana | WL(P) | NPD |
| 7.9 | Ūdens tvaika caurlaidība | Ttvaika caurlaidība | MU | 1 |
| 7.10 | Spiedes izturība | Spiedes spriegums vai spiedes izturība | CS | NPD |
| | | Koncentrēta slodze | PL | NPD |
| 7.11 | Degamības saglabāšana sakarstot, atmosfēras iedarbībā, novecojot/nodilstot | Minerālvates izstrādājumu reakcijas uz uguni patēriņa īpašības laika gaitā nepasliktinās. Izstrādājuma klasificēšana saskaņā ar eiroklasi saistīta ar sastāvā esošajiem organiskajiem komponentiem, kuru daudzums laika gaitā pieaugt nevar Eiroklase A1 | | |
| 7.12 | Termiskās pretestības saglabāšana sakarstot, atmosfēras iedarbībā, novecojot/nodilstot | Termiskā pretestība – siltuma vadāmības koeficients | Minerālvates izstrādājumu siltuma vadāmības koeficients laika gaitā nemainās. Izmēģinājumos uzrādīta šķiedru struktūras stabilitāte, savukārt porās nav nekādu citu gāzu, izņemot atmosfēras gaisu Deklarēto līmeni skatīt apakšpunktā 6.7 | |
| | | Izmēru stabilitāte | DS (70,-) | NPD |
| 7.13 | Stiepes/lieces izturība | Stiepes izturība perpendikulāri plāksnes plaknei | TR | NPD |
| 7.14 | Spiedes izturības saglabāšana, novecojot/nodilstot | Stiepes šļūde | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Iepriekš norādītā izstrādājuma ekspluatācijas īpašības atbilst deklarēto ekspluatācijas īpašību kopumam. Šī ekspluatācijas īpašību deklarācija izdota saskaņā ar Regulu (ES) Nr. 305/2011, un par to ir atbildīgs vienīgi iepriekš norādītais ražotājs.

Parakstīts ražotāja vārdā:

Dąbrowa Górnicza 30.08.2024

Rūpnīcas direktors
URSA Polska Sp. z o.o.
Bogdan Bedkowski
Dyrektor Zakładu

TOIMIVUSDEKLARATSIOON

Ei.

48UGW37NRN19071



1. Tootetüübi kordumatu identifitseerimiskood:
DF37 MW-EN 13162-T2-MU1-AFr5
2. Kavandatud kasutusala(d):
Ehitussoojusisolatsioon
3. Tootja:
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. Volitatud esindaja
Ei kohaldata
5. Toimivuse püsivuse hindamise ja kontrolli süsteem
Süsteem 3, põlevus Süsteem 1
6. Ühtlustatud standard:
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Teavitatud asutus(ed):
Ei. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))

7. Deklareeritud toimivus:

| Põhiomadused | | | | Täitmine | Ühtlustatud tehniline spetsifikatsioon |
|--------------|------------------------------------|--|-----------------------------|--|---|
| 7.1 | Põlevus | Põlevus | Euroklassid | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Ohtlike ainete eraldamine ehitises | Ohtlike ainete eraldamine | Ühtlustamismeetod määramata | NPD | |
| 7.3 | Helineelduvustegur | Helineelduvus | AP, AW | NPD | |
| 7.4 | Löögimüra ülekanne (põrandatele) | Dünaamiline jäikus | SD | NPD | |
| | | Paksus, dL | dL | NPD | |
| | | Kokkusurutavus | CP | NPD | |
| | | Õhu läbilaskvuse takistus | AFr | NPD | |
| 7.5 | Õhumüraisolatsioon | Õhu läbilaskvuse takistus | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Pidev hõõguv põlemine | Pidev hõõguv põlemine | Ühtlustamismeetod määramata | NPD | |
| | | Soojusjuhtivus λ_D [W/m ² *K] | Paksus d_N [mm] | Termiline takistus R_D | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |

| | | | | |
|------|---|--|--|------|
| 7.7 | Soojatakistus | 0,037 | 80 | 2,15 |
| | | | 95 | 2,55 |
| | | | 100 | 2,70 |
| | | | 120 | 3,20 |
| | | | 140 | 3,75 |
| | | | 145 | 3,90 |
| | | | 150 | 4,05 |
| | | | 155 | 4,15 |
| | | | 160 | 4,30 |
| | | | 180 | 4,85 |
| | | | 195 | 5,25 |
| | | | 200 | 5,40 |
| | | | 220 | 5,90 |
| | | | 240 | 6,45 |
| 250 | 6,75 | | | |
| | Paksus | Paksus sallivus T | T2 | |
| 7.8 | Vee läbilaskmine | Lühiajaline veeimavus | WS | NPD |
| | | Pikaajaline imenduvus veega | WL(P) | NPD |
| 7.9 | Veeauru läbilaskmine | Veeauruläbivus | MU | 1 |
| 7.10 | Survetugevus | Survepinge või survetugevus | CS | NPD |
| | | Koondkoormus | PL | NPD |
| 7.11 | Põlevuse säilimine kuumenemisel, ilmastikutingimuste mõjul, vananemisel/kulumisel | Mineraalvilltoodete tuletundlikkuse tarbimisomadused ei halvene aja jooksul. Toote liigitus euroklassi alusel on seotud orgaaniliste koostisainete sisaldusega, mis ei saa aja jooksul suurenedada. Euroklassi A1 | | |
| 7.12 | Soojatakistuse säilimine kuumenemisel, ilmastikutingimuste mõjul, vananemisel/kulumisel | Soojatakistus – soojajuhtivustegur | Mineraalvilltoote soojajuhtivustegur ei muutu aja jooksul. Katsed näitasid kiudude struktuuri püsivust, poorid aga ei sisalda muid gaase peale atmosfääriõhu. Deklareeritud tasemed vt lõik 6.7 | |
| | | Mõõtmete püsivus | DS (70,-) | NPD |
| 7.13 | Tõmbe-/painedugevus | Tõmbetugevus risti plaadi tasapinnaga | TR | NPD |
| 7.14 | Survetugevuse säilimine vananemisel/kulumisel | Roomavus kokkusurumisel | CC | NPD |

EN
13162:2012+A1:2015
(PN-EN
13162+A1:2015-04)

Eespool kirjeldatud toote toimivus vastab deklareeritud toimivusele. Käesolev toimivusdeklaratsioon on välja antud kooskõlas määrusega (EL) nr 305/2011 eespool nimetatud tootja ainuvastutusel.

Tootja poolt ja nimel allkirjastanud:

Dąbrowa Górnicza 30.08.2024

Tehase direktor:

URSA Polska Sp. z o.o.
Marek Bedkowski
Dyrektor Zakładu

TELJESÍTMÉNYNYILATKOZAT

Nem.

48UGW37NRN19071



1. A terméktípus egyedi azonosító kódja:

DF37 MW-EN 13162-T2-MU1-AFr5

2. Felhasználás célja(i):

Építőipari hőszigetelés

3. Gyártó:

URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl

4. Meghatalmazott képviselő

Nem alkalmazható

5. Az AVCP-rendszer(ek):

Rendszer 3,reakció tűzre Rendszer 1

6. Harmonizált szabvány:

EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)

Bejelentett szerv(ek):

Nem. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMFA))

7. A nyilatkozatban szereplő teljesítmény(ek):

| Alapvető jellemzők | | | | Teljesítés | Harmonizált műszaki specifikáció |
|--------------------|--|-----------------------------------|--|---|---|
| 7.1 | Reakció tűzre | Reakció tűzre | Euro osztályok | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Belső környezet számára veszélyes anyagok felszabadulása | Veszélyes anyagok felszabadulása | A harmonizáció folyamata nem meghatározott | NPD | |
| 7.3 | Hang elnyelési mutató | Hang elnyelés | AP, AW | NPD | |
| 7.4 | Ütéshangok szigetelési mutatója (padlók esetében) | Dinamikus merevség | SD | NPD | |
| | | Vastagság, dL | dL | NPD | |
| | | Csúszósság | CP | NPD | |
| | | Levegőáramlási ellenállás | AFr | NPD | |
| 7.5 | Közvetlenül a levegőben terjedő hangokra vonatkozó szigetelési | Levegőáramlási ellenállás | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Folyamatos égés, izzás formájában | Folyamatos égés, izzás formájában | A harmonizáció folyamata nem meghatározott | NPD | |
| | | Hővezető λ_D [W/m*K] | Vastagság d_N [mm] | Termikus ellenállás R_D [m ² *K/W] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |

| | | | | | |
|------|--|---|--|------|---|
| 7.7 | Termikus ellenálás | 0,037 | 70 | 1,85 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | | 80 | 2,15 | |
| | | | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Vastagság | Vastagság tolerancia T | T2 | | |
| 7.8 | Vízáteresztő képesség | Rövid távú vízfelvétel | WS | NPD | |
| | | Hosszú lejáratú vízfelszívás | WL(P) | NPD | |
| 7.9 | Vízpára áteresztő képesség | Vízpára áteresztés | MU | 1 | |
| 7.10 | Nyomószilárdság | Nyomófeszültség vagy nyomószilárdság | CS | NPD | |
| | | Pontszerű terhelés | PL | NPD | |
| 7.11 | Tűzeseti reakció tartóssága hőtartás, időjárás, növekedés/csökkenés szempontjából, | Tűz esetén az ásványi gyapotból készült termékek felhasználói tulajdonságai nem romlanak az idő múlásával. Az Euroklas szerinti osztályozásban a termék organikus alkotóelemeit vették figyelembe, melyek az idő múltával sem képesek növekedésre. Euro osztály A1 | | | |
| 7.12 | Termikus ellenállás tartóssága hőtartás, időjárás, növekedés/csökkenés szempontjából | Termikus ellenállás, hővezetési együttható | Az ásványi gyapotból készült termékek hővezetési együtthatója az idő múlásával sem változik. A kísérletek igazolták a szálak stabilitását, melyek közt nincsen semmilyen egyéb gáz mint ami a légkörben is megtalálható. Bejelentett szintek, lásd a 6.7 pontot | | |
| | | Térfogati stabilitás | DS (70,-) | NPD | |
| 7.13 | Szakító- és hajlítószilárdság | Szakítószilárdság a felső merőleges felületek mentén | TR | NPD | |
| 7.14 | Szakítószilárdság tartóssága növekedés/csökkenés | Szakítószilárdsági elmozdulás | CC | NPD | |

A fent azonosított termék teljesítménye megfelel a bejelentett teljesítmény(ek)nek. A 305/2011/EU rendeletnek megfelelően e teljesítménynyilatkozat kiadásáért kizárólag a fent meghatározott gyártó a felelős.

A gyártó nevében és részéről aláíró személy:

Dąbrowa Górnicza 30.08.2024

Vállalat igazgatója

URSA Polska Sp. z o.o.
Marek Bedkowski
Dyrektor Zakładu

ДЕКЛАРАЦІЯ РОБОЧИХ ХАРАКТЕРИСТИК

ні. 48UGW37NRN19071



1. **Неповторний ідентифікаційний код типу виробу:**
DF37 MW-EN 13162-T2-MU1-AFr5
2. **Умисне застосування або види застосування:**
теплоізоляція у будівництві
3. **Виробник:**
URSA Polska Sp. z o.o.
ul. Armii Krajowej 12
42-520 Dąbrowa Górnicza
www.ursa.pl
4. **Уповноважений представник**
[Не застосовується](#)
5. **Система(-и) оцінки і верифікації незмінності експлуатаційних характеристик:**
Система 3, реакція на вогонь Система 1
6. **Гармонізована норма:**
EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04)
Нотифікована одиниця або одиниці:
ні. 0672
Universität Stuttgart für die
Materialprüfungsanstalt Universität Stuttgart
(MPA Stuttgart, Otto-Graf-Institut, (FMPA))

7. Декларовані експлуатаційні характеристики:

| Основна характеристика | | | | Виповнення | Балансована технічна специфікація |
|------------------------|---|--|-----------------------------------|--|---|
| 7.1 | Реакція на вогонь | Реакція на вогонь | Єврокласи | A1 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| 7.2 | Виділення речовин, небезпечних для внутрішнього середовища | Виділення небезпечних речовин | Балансованого методу не визначено | NPD | |
| 7.3 | Коефіцієнт звукопоглинання | Звукопоглинання | AP, AW | NPD | |
| 7.4 | Коефіцієнт ізоляції від ударних звуків (для підлог) | Динамічна твердість | SD | NPD | |
| | | Товщина, dL | dL | NPD | |
| | | Стисливість | CP | NPD | |
| | | Опір потоку повітря | AFr | NPD | |
| 7.5 | Коефіцієнт ізоляції від повітряних звуків, котрі переносяться | Опір потоку повітря | AFr | $\geq 5 \text{ kPa}\cdot\text{s}/\text{m}^2$ | |
| 7.6 | Постійне спалювання у вигляді розжарювання | Постійне спалювання у вигляді розжарювання | Балансованого методу не визначено | NPD | |
| | | теплопровідність [Вт/м*К] | Товщина d _N [мм] | Термічний опір R _D [м ² *К/Вт] | |
| | | | 25 | 0,65 | |
| | | | 40 | 1,05 | |
| | | | 45 | 1,20 | |
| | | | 50 | 1,35 | |
| | | | 60 | 1,60 | |
| | | | 70 | 1,85 | |

| | | | | | |
|------|--|--|---|------|---|
| 7.7 | Тепловий опір | 0,037 | 80 | 2,15 | EN 13162:2012+A1:2015 (PN-EN 13162+A1:2015-04) |
| | | | 95 | 2,55 | |
| | | | 100 | 2,70 | |
| | | | 120 | 3,20 | |
| | | | 140 | 3,75 | |
| | | | 145 | 3,90 | |
| | | | 150 | 4,05 | |
| | | | 155 | 4,15 | |
| | | | 160 | 4,30 | |
| | | | 180 | 4,85 | |
| | | | 195 | 5,25 | |
| | | | 200 | 5,40 | |
| | | | 220 | 5,90 | |
| | | | 240 | 6,45 | |
| 250 | 6,75 | | | | |
| | Товщина | допуск по товщині T | T2 | | |
| 7.8 | Водопроникність | Короткочасне волопоглинання | WS | NPD | |
| | | Довгострокове волопоглинання | WL(P) | NPD | |
| 7.9 | Проникність водяної пари | Проникність водяної пари | MU | 1 | |
| 7.10 | Стійкість до стискання | Стискаюча напруга або стійкість до | CS | NPD | |
| | | Зосереджене навантаження | PL | NPD | |
| 7.11 | Стійкість реакції на вогонь в залежності від тепла, погодних умов, старіння/деградації | Експлуатаційні властивості на вогонь для виробів з мінеральної вати не погіршуються з часом. Класифікація виробу по Єврокласу пов'язана з вмістом органічних частин, котрі не можуть збільшувати з часом. Євроклас A1 | | | |
| 7.12 | Стійкість теплового опору в залежності від тепла, погодних умов, старіння/деградації | Тепловий опір – коефіцієнт теплопровідності | Коефіцієнт теплопровідності виробів з мінеральної вати не змінюється з часом. Досвід показав стабільність структури волокон, а пори не містять жодних інших газів, крім атмосферного повітря Заявлені рівні, див. Розділ 6.7 | | |
| | | Розмірна стабільність | DS (70,-) | NPD | |
| 7.13 | Стійкість до розтягування/згинання | Стійкість до розтягування перпендикулярного до передніх | TR | NPD | |
| 7.14 | Стійкість опору до стискання в залежності від старіння/деградації | Повзучість при стисканні | CC | NPD | |

Експлуатаційні характеристики визначеного вище виробу відповідають комплекту декларованих експлуатаційних характеристик. Ця декларація експлуатаційних характеристик була видана згідно з розпорядженням (ЄС) № 305/2011 на виключну відповідальність виробника, визначено

Від імені виробника підписав(-а):

Дąbrowa Górnicza 30.08.2024

Директор Заводу

URSA Polska Sp. z o.o.
Marek Bedkowski
Dyrektor Zakładu

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for

URSA GLASSWOOL

EPD of multiple products, based on a representative product (*representative product URSA GOLD 35*)

150 mm

R= 4.25 m²·K/W

List of all covered products on Annex I

Owner: URSA INSULATION S.A

Programme: The International EPD® System,

www.environdec.com

Programme operator: EPD International AB

EPD registration number: EPD-IES-0002844:001

Publication date: 2025-02-24

Valid until: 2030-02-23



THE INTERNATIONAL EPD® SYSTEM

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

General information

EPD Owner: URSA Insulation. Paseo de Recoletos 3, 28004 Madrid (Spain)

Programme used: The International EPD® System. www.environdec.com info@environdec.com

EPD prepared by: Silvia Herranz (URSA Insulation)

Contact: silvia.herranz@etexgroup.com

Date of issue: 2025-02-24

Valid: 2030-02-23

| | |
|---|---|
| Programme: | The International EPD® System |
| Address: | EPD International AB Box 210 60 SE-100 31 Stockholm, Sweden |
| Website: | www.environdec.com |
| E-mail: | info@environdec.com |
| CEN standard EN 15804+A2 serves as the Core Product Category Rules (PCR) | |
| Product Category Rules (PCR): <i>PCR 2019:14. Construction products (EN 15804+A2) Version 1.3.4. PCR 2019:14-c-PCR-005 c-PCR-005 Thermal Insulation products (EN 16783) (2024-05-03)</i> | |
| PCR review was conducted by: The Technical Committee of the International EPD® System. See www.environdec.com/TC for a list of members. Review chair: Claudia A. Peña. The review panel may be contacted via the Secretariat info@environdec.com | |
| Independent third-party verification of the declaration and data, according to ISO 14025:2006: <input type="checkbox"/> EPD process certification* <input checked="" type="checkbox"/> EPD verification | |
| <small>*For EPD Process Certification, an accredited certification body certifies and reviews the management process and verifies EPDs published on a regular basis. For details about third-party verification procedure of the EPDs, see GPI.</small> | |
| Third-party verifier: Itxaso Trabudua, IK Ingeniería S.L. Approved by: The International EPD® System | |
| Procedure for follow-up of data during EPD validity involves third party verifier: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programs, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: URSA Insulation S.A.

Contact: Silvia Herranz (Sustainability & Technical Manager) (silvia.herranz@etexgroup.com)

Description of the organization: URSA is a company dedicated to the production and commercialization of thermal and acoustic insulation materials aimed at sustainability and energy efficiency in buildings. It is currently one of the largest manufacturers in Europe of mineral wool and extruded polystyrene (XPS), two totally complementary insulation materials that contribute to the thermal and acoustic insulation of buildings. There are 11 factories throughout Europe and the headquarters are in Spain.

URSA manufactures products for thermal and acoustic insulation that is used in buildings, building equipment and industrial installations following European standards:

- EN 13162:2012+A1:2015 Thermal insulation products for buildings - Factory made mineral wool (MW) products – Specification.
- EN 14303:2015 Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products – Specification.
- EN 14064-1:2018 Thermal insulation products for buildings - In-situ formed loose-fill mineral wool (MW) products - Part 1: Specification for the loose-fill products before installation.
- EN 14064-2:2010 Thermal insulation products for buildings - In-situ formed loose-fill mineral wool (MW) products - Part 2: Specification for the installed products.

Product-related or management system-related certifications: Dabrowa plant is covered by EPD process certification system, are certified ISO 9001, ISO 14001, ISO 45001 (Certificate Registration No. AC090 100/0254/997/2012, AC090 104/0254/997/2012, AC090 126/0254/997/2012 respectively).

Name and location of production site(s): Dabrowa, Armii Krajowej 12, 42-520 Dąbrowa Górnicza, Poland.

Product information

Product name: URSA GLASSWOOL GOLD 35. URSA GLASSWOOL mineral wool panel in accordance with the EN 13162 standard, non-hydrophilic, without facing. Supplied in roll and panel format.

Product identification: this EPD describes the environmental impacts for glass wool family products manufactured in Dabrowa's plant. The reference product is URSA GOLD 35, and the thickness of 150 mm has been selected, taking into account its representativeness in market sales.

| Thickness (mm) | R -Value (m ² ·K/W) | Weight, kg/m ² |
|-------------------------------|--------------------------------|---------------------------|
| 40 | 1.10 | 0.760 |
| 50 | 1.40 | 0.950 |
| 60 | 1.70 | 1.140 |
| 80 | 2.25 | 1.520 |
| 100 | 2.85 | 1.900 |
| 120 | 3.40 | 2.280 |
| 140 | 4.00 | 2.660 |
| 150 (Declared product) | 4.25 | 2.850 |
| 160 | 4.55 | 3.040 |
| 180 | 5.10 | 3.420 |
| 200 | 5.70 | 3.800 |
| 220 | 6.25 | 4.180 |
| 240 | 6.85 | 4.560 |
| 250 | 7.10 | 4.750 |

Product description: URSA manufactures glass wool using natural and plentiful raw materials (sand) or recycled materials (Cullet) in a fusion and fiber formation process. The products obtained are presented in the form of a "mineral wool mattress" composed of a flexible airy structure or loose flakes.

Thanks to their intertwined structure, mineral wools (glass wool or stone wool) are porous materials which trap air, thus providing an insulation solution. The porous and elastic structure of the mineral wool also absorbs aerial noise, impact sounds and enables acoustic correction inside buildings and premises. Finally, as they are based on naturally incombustible minerals, mineral wools are incombustible and do not propagate fire.

Insulation with mineral wool (glass wool) is used in buildings and in industrial installations. It ensures a high level of comfort, reduces energy costs, reduces carbon dioxide emissions (CO₂), prevents heat

loss through sloping roofs, walls, ceilings, pipes, and boilers, reduces sound pollution and protects houses and industrial installations from risk of fire.

The following table gathers all the main technical information for the representative product. The service life of this glass wool product was established at 50 years.

| Technical data and physical characteristics | | | |
|---|--------------------------------|----------------------|--|
| Parameters | Unit | Test | Value |
| Thickness | mm | | 40-250 (150 for the reference product) |
| R-value | m ² -K/W | | 1.10-7.10 |
| Thermal Conductivity | W/(m.K) | EN 12667 EN 12939 | 0.035 |
| Fire reaction | Euroclas e | EN 13501-1 | A1 |
| Air Flow resistivity | | EN 29053 | AFr5 |
| Thickness tolerance | | EN 823 | T2 |
| Water vapour transmission (μ) | | EN 12086 | MU1 |
| Reference standard to declare the efficacy of the product | EN 13162 | | |
| Designation code CE | DP34 MW-EN 13162-T2-MU1-AFr5 | | |
| Application | Thermal insulation in Building | | |

UN CPC code: 37990 Non-metallic mineral products N.E.C (including mineral wool, expanded mineral materials, worked mica, articles of mica, non-electrical articles of graphite or other carbon and articles of pear)

Geographical scope: The product is manufactured in Poland. The product is marketed mainly in Europe.

LCA Information

Functional unit: "Perform a thermal insulation function on 1 m² of wall by ensuring the thermal resistance of R = 4.25 K.m². W-1", include thickness 150 mm."

The thermal resistances of all the products covered by the EPD are between 1.30 and 5.70 (m²·K/W) and weigh between 1 to 4,4 kg/m².

The variability of the products, as the EPD covers a complete Glass Wool family from Dabrowa's plant, and it is stated on the data quality requirements with a range of -52%+49% for the GWP-GHG indicator. The rest of the indicator's variability is detailed below for the worst- and best-case scenarios. The variability is wide due to the fact that all the glass wool family products from the plant are being considered.

| Indicator | A-C | |
|---------------------|------------|-----------|
| | WORST CASE | BEST CASE |
| GWP-fossil | 58% | -56% |
| GWP-biogenic | 120% | -74% |
| GWP-luluc | 85% | -70% |
| GWP-total | 29% | -64% |
| ODP | 78% | -73% |
| AP | 51% | -48% |
| EP-freshwater | 78% | -74% |
| EP- marine | 65% | -61% |
| EP-terrestrial | 40% | -38% |
| POCP | 14% | -13% |
| ADP-minerals&metals | 82% | -82% |
| ADP-fossil | 80% | -78% |
| WDP | 80% | -76% |

Reference service life: 50 years.

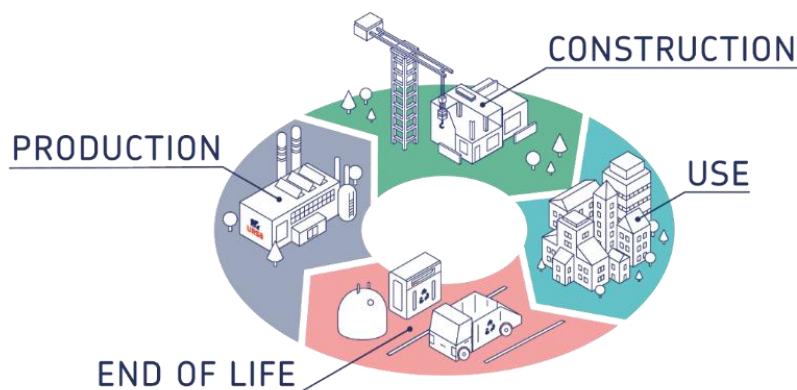
The choice of a 50-year-old RSL is based on the provisions included in the document prepared by CEN TC 88 "Thermal insulation products — Product category rules (PCR) for factory made and in-situ formed products for preparing environmental product declarations — Complementary element » System boundaries, scenarios, and modelling assumptions.

Time representativeness: Plant production data for the complete year 2023.

Database(s) and LCA software used: ECOINVENT 3.10, 15804+A2_IA v4.1, OPENLCA 2.4.0 (2023), EF 3.1

Description of system boundaries: this LCA report considers the scope 'c) Cradle to grave and module D (A + B + C + D)'. defined in the PCR 2019:14-c-PCR-005 Thermal Insulation products (EN

16783) (2024-05-03). The analysis covers the full life cycle of the glass wool products, from the extraction of raw materials to the final disposal.



Product stage A1-A3

The production phase of mineral wool products is divided into three modules: raw materials supply (A1), raw materials transport (A2) and manufacture (A3).

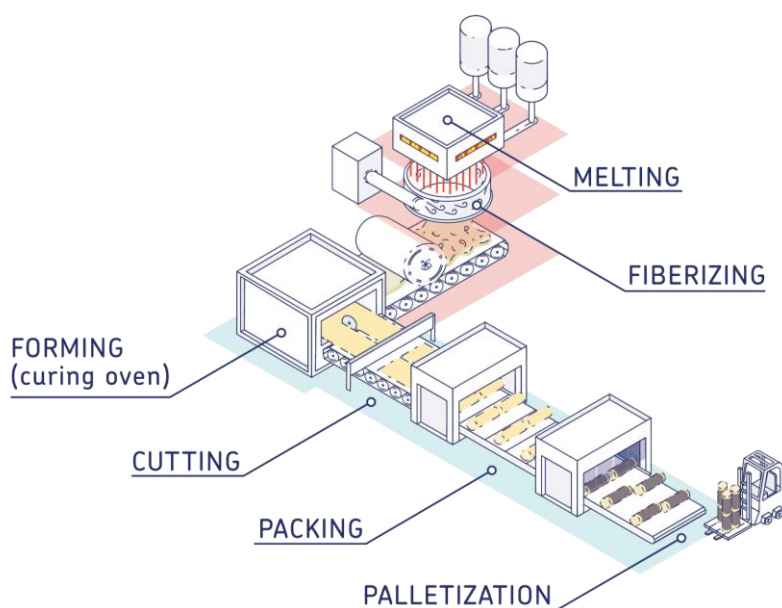
A1 Raw materials supply: this module considers the supply and processing of all raw materials and the energies they produce prior to the manufacturing process. In particular, it covers the supply of raw materials for manufacturing binding and glass fibers. In addition to these raw materials, recycled materials (cullet) are used in the process.

A2 Raw materials supply transport: this stage takes into account the transportation from the suppliers to the manufacturing plant (Dabrowa plant (Poland)). In the case of several suppliers an average value has been adopted, that is representative.

A3 Manufacturing: Glass wool manufacture includes stages of fusion and fiber formation (see diagram of manufacturing process). Furthermore, production of packaging is considered during this phase. Regarding the electricity modelling, only green electricity has been considered with the relevant documentation on Guarantees of Origin. The main characteristics of Dabrowa's electricity mix are:

- The amount of electricity (in kWh) is covered.
- The time periods for issue and validity of the contract: 2023-01-01 do 2023-12-31. Contract until 2029.
- The energy comes 50% from solar and 50% from wind energy.

Besides, in relation to the contribution to the environmental impacts of the product, the production of 1 kWh of electricity consumed by the average production in Dabrowa in 2023 generated 0.06068 kg of CO₂ eq. emissions.



A4-A5 Construction phase

The construction phase is divided into two modules: transport to the construction site (A4) and installation in the building (A5).

A4 Transport

This module includes transport from factory to site. Weighted average value of Europe, being the majority market is Poland. The transport is calculated based on a scenario that includes the following parameters:

| Parameter | Value |
|--|---|
| Type of fuel and consumption of the vehicle or type of vehicle used for the transport for example, long distance lorry, boat, etc. | The vehicle runs on diesel, its emission standard is classified as EURO5 and it falls under the truck size class of 7.5 to 16 metric tons |
| Average distance to site | Lorry: 460 km |
| Use of capacity (including returning empty) | 100 % volume capacity |
| Density of transported product | 412.50-58.50 m ² per pallet and 22 pallets per lorry Density of product)=19 kg/m ³ |
| Coefficient of use of volume capacity | >1 (products compressed in the packaging) |

A5 Installation: this module includes the waste products created during manual installation of the mineral wool in the building, supplementary production required to compensate losses and treatment of site waste. The scenarios used for the quantity of waste generated during the installation and the treatment of the site waste are as follows:

| Parameter | Value |
|--|---|
| Ancillary inputs for installation (specified by material) | No ancillary inputs |
| Use of water | No water used |
| Use of other resources | No other resources |
| Quantitative description of the type of energy (regional mix) and consumption during the installation process | No energy required |
| Waste produced on the construction site prior to waste treatment generated by installation of the product (specified by type) | 2 % of glass wool |
| Materials (specified by type) produced by waste treatment on the construction site, for example collection with a view to recycling, recovery of energy, disposal (specified by channel) | All glass wool waste, its packaging and waste deriving from excess production for installation are considered as disposed of in landfill 69-243 gr/UF |
| Transport to landfill | 50 km |
| Direct emissions to atmosphere, soil and water | No emissions to be considered |

B1-B7 Phase of use

The use phase is considered, but its impact is zero due to the type of functionality of the glass wool products. No technical operation is required during the useful phase until the end of service life. Thus, mineral wool does not have any impact during this phase and also permits potential energy savings during its lifetimes.

C1-C4 End of life phase

This phase includes the different modules of the end of service life as follows: C1, deconstruction, demolition; C2, transport to waste treatment; C3, waste treatment with a view to their reuse, recovery and/or recycling; C4, disposal.

Deconstruction, demolition: Deconstruction and /or dismantling of the insulation products is part of the demolition work of an entire building. In our case the environmental impact is. Not significant and it's below the cut-off rules

Transport to waste treatment site: The use of the model for transport is considered (see A4, transport to the construction site) at a distance of 50 km.

Waste treatment with a view to reuse, recovery, and/or recycling: The product is considered for landfill without reuse, recovery and/or recycling.

Disposal: Glass wool should be installed in a storage facility for non-inert and non-hazardous waste

| Parameter | Value |
|---|---|
| Collection procedure specified by type | 0.760-4.750 kg of glass wool (collected with mixed construction waste) |
| Recovery system specified by type | No reuse, no recycling, no energy recovery |
| Disposal specified by type | 0.760-4.750 kg of glass wool kept in storage facility for non-inert and non-hazardous waste |
| Hypotheses for creating scenarios (for example transport) | 100% Landfill |

D Benefit and charge (refer to standard)

This module considers the hypothetical stage where potential glass and pallet leftovers and its possibilities to be recycled.

Allocation procedures: The allocation procedure used for the LCI is physical, based on the mass (kg of production).

Regarding the pre-consumer material, part of the external cullet, an economic allocation shall be done as it is stated on PCR 2019:14 v1.3.4 section 4.5.5 Guidance on the allocation of scrap. The external cullet for Poland has two suppliers and glass comes from two different sectors (car windows and medical glass).

Applying the allocation rules with estimated prices from existing companies in the market the economic allocation is less than 1%. Due to this low value and following standard EN 15804+A2, no impact will be applied to the pre-consumer cullet and the economic allocation will be negligible.

Table – Economic allocation for window glass

| Glass: windows | Source | Year | Economic allocation |
|----------------|-----------------|------|---------------------|
| Primary glass | External source | 2025 | 99,51% |
| Recycled glass | Internal source | 2023 | 0,49% |

Table – Economic allocation for medical glass

| Glass: medical | Source | Source | Economic allocation |
|----------------|-----------------|--------|---------------------|
| Primary glass | External source | 2025 | 99,61% |
| Recycled glass | Internal source | 2023 | 0,39% |

Hypotheses and considerations:

The LCA study has been developed using the Ecoinvent v3.10 database and the software OpenLCA v2.4.0. The main hypothesis of the study are listed below:

- The production data used on the LCI analysis corresponds to 2023.
- The report gathers 49 references and the LCA has been developed with the reference product GLASSWOOL GOLD 35, the most sold product.
- For module C2, a distance of 50 km has been considered for transport between the place of generation of waste and its treatment point. (Product Environmental Footprint, PEF).
- The recycling rates defined on the Annex C of the PEF (Product Environmental Footprint) have been used for the calculation of the material for recycling.

Cut-off rules:

In the case that there is not enough information, the energy process and materials According to PCR 2019:14 Construction Products v1.3.4 and EN 15804:2012+A2:2019/AC:2021, at least 95% of all mass and energy inputs and outputs of the central system have been included in the analysis.

The infrastructure and capital goods have been excluded from the LCA. Besides, the following flows are excluded from the system boundaries, given their relatively low contribution to the impacts of the production system:

- Lighting, heating and cleaning of workshops,
- the administrative department,
- transportation of employees,
- the manufacture of the production tool and transport systems (machines, trucks, etc.),
- the maintenance of the factory infrastructure has not been considered,
- diffuse emissions of particulate matter during transport and storage of raw materials, & long-term emissions.

Additional Information

EUCEB:

Mineral wool fibers have been exempted from carcinogenic classification according to: Regulation on classification and labelling of substances and mixtures Regulation (EC) n° 1272/2008 and its last update Regulation (EU) n° 2021/643. They have in fact successfully passed the tests established by this Regulation and their biopersistence is lower than the values defined in note « Q » of this text. This exemption is certified by the European Certification Board (EUCEB - www.euceb.org).

The EUCEB certifies that fibers conform to note « Q » of the Regulation (EC) n° 1272/2008. The EUCEB guarantees that the exemption tests have been executed in conformance with European protocols, that industrial entities have control procedures in place during manufacture of the products, and that third parties inspect and approve the results.

The industrial entities in respect of EUCEB undertake as follows:

- To provide a test report compiled by a EUCEB recognized laboratory providing proof that the fibers satisfy one of the four exemption conditions established in note « Q » of Regulation (EC) n° 1272/2008,
- Twice yearly, to undergo production inspection by an independent third party recognized by EUCEB (sample taking and conformance with initial chemical analysis),
- To set up internal control procedures in each factory.

The products with this certification are recognizable as they have the EUCEB logo affixed to their packaging



REACH:

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

The glass wool products (rolls and boards) manufactured by URSA are defined as “articles” according to the article 3 (3) of EC Regulation 1907/2006 (REACH). Articles, whose functionality is more determinate by the shape, surface or design given in their production process, than by its chemical composition.

There, according to Art. 2 of EC Regulation 1907/2006 (REACH) our articles are excluded from the EC Regulation 1907/2006 (REACH).

Our products do not contain Substances of Very High Concern (SVHC) in a higher concentration than 0,1 % by weight according to the last update of the candidate list know at the date this document was issued.

ECHA-European Chemicals Agency regularly published an update SHVC list. The validity of this statement is therefore of ECHA new publications.

Circular Economy:

Recycled Glass Content:

According to ISO 14021:

- 1) Recycled Content is a Proportion, by mass, of recycled material in a product. *Only pre-consumer and post-consumer materials shall be considered as recycled content, consistent with the following use of terms,*

Pre-consumer material: Material diverted from waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

Post-consumer material: Material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of materials from the distribution chain.

- 2) Recovered material: Material that would have otherwise been disposed of a waste or used for energy recovery but has instead been collected and recovered as a material input, in lieu of new primary material, for a recycling or a manufacturing process.

For the Dabrowa plant, in the year 2023, the values are:

Minimum 70% Recycled Glass Content, a mix of pre-consumer and post-consumer recycled material.

Certificate n°. SCS-RC-20328.

European Waste Codes

Waste glass wool in the module A5 and C will be classified according to the European Waste Codes:

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

Data quality requirements:

The data collection has considered 1 year (2023), following “Data quality level and criteria of the UN Environment Global Guidance on LCA database development” annex E, EN 15804+A2. It is quantified that all the data gathered for the LCA has a medium level of quality (3.8 out of 5), having a range of ‘very poor’ (1), poor (2), medium (3), good (4) and very good (5).

The Ecoinvent 3.10 and EuGeos' 15804+A2_IA v4.1 databases have been used to choose the most representative processes, considering that the data is representative of technological development, regionalized data and as current as possible. These data have been treated in the OpenLCA 2.4.0 software for LCA modeling and the calculation of environmental impact categories, complying with the quality requirements established in the PCR.

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

| Phases and modules of life cycle taken into account | | | | | | | | | | | | | | | |
|---|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
| Module | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| Module declared | x | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Geography | Poland | Poland | Global | Global | Global | Global | Global | Global | Global | Global | Global | Global | Global | Global | Global |
| Specific data used | 17% | >90% GWP | >90% GWP | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation -Products | -52%/+49% | No variability | No variability | - | - | - | - | - | - | - | - | - | - | - | - |
| Variation - Sites | 0% | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Content information

The content of the information gathered on the following table refers to the representative product GLASWOOL GOLD 35.

| Product components | Weight, kg/m ² | Pre-consumer material, weight-% | Post-consumer material, weight-% | Biogenic material, weight-% and kg C/kg |
|--------------------|---------------------------|---------------------------------|----------------------------------|---|
| Glass wool | 2.850 (90-100%) | 85% | 15% | 0 |
| Binder | 0-10% | - | - | 0 |

| Packaging components | Weight, kg/m ² | Weight-% (versus the product) | Weight biogenic carbon, kg C/kg |
|----------------------|---------------------------|-------------------------------|---------------------------------|
| Plastic Packaging | 0.017 | - | - |
| Wood Pallet | 0.157 | - | 0.288 |
| TOTAL | 0.174 | 6 | - |

Results of the environmental performance indicators

The following tables gather the environmental impacts. Estimated impact results are only relative statements that do not indicate impact category endpoints, exceeding threshold values, safety margins, or risks.

Potential environmental impact – mandatory indicators according to EN 15804

The use of the results of modules A1-A3 (A1-A5 for services) without considering the results of module C.

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
|----------------------|---|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| GWP-fossil | kg CO2 eq. | 1.34E+00 | 3.15E-01 | 2.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 0.00E+00 | 1.47E-02 | -1.49E-01 |
| GWP-biogenic | kg CO2 eq. | 1.06E-01 | 4.76E-03 | 2.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 2.83E-04 | -9.24E-03 |
| GWP-luluc | kg CO2 eq. | 9.52E-04 | 9.91E-05 | 1.61E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-06 | 0.00E+00 | 1.39E-05 | -2.50E-04 |
| GWP-total | kg CO2 eq. | 1.45E+00 | 3.20E-01 | 3.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 1.50E-02 | -1.58E-01 |
| ODP | kg CFC 11 eq. | 2.19E-07 | 6.29E-09 | 5.39E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-10 | 0.00E+00 | 6.07E-09 | -1.11E-08 |
| AP | mol H+ eq. | 8.32E-03 | 9.42E-04 | 1.86E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-05 | 0.00E+00 | 1.41E-04 | -1.07E-03 |
| EP-freshwater | kg P eq. | 3.49E-04 | 2.06E-05 | 6.85E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.72E-07 | 0.00E+00 | 1.37E-06 | -5.79E-05 |
| EP-marine | kg N eq. | 1.26E-03 | 3.16E-04 | 3.37E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-05 | 0.00E+00 | 4.91E-05 | -1.90E-04 |
| EP-terrestrial | mol N eq. | 2.58E-02 | 3.44E-03 | 5.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.12E-04 | 0.00E+00 | 5.37E-04 | -3.06E-03 |
| POCP | kg NMVOC eq. | 2.78E-02 | 1.49E-03 | 5.78E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.85E-05 | 0.00E+00 | 1.56E-04 | -5.61E-04 |
| ADP-minerals&metals* | kg Sb eq. | 2.10E-04 | 1.03E-06 | 4.21E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E-08 | 0.00E+00 | 8.83E-09 | -2.22E-06 |
| ADP-fossil* | MJ, net calorific value | 7.56E+00 | 4.39E+00 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 2.46E-02 | -1.05E+00 |
| WDP* | m3 world eq. deprived | 9.67E-01 | 2.11E-02 | 1.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.87E-04 | 0.00E+00 | 1.30E-03 | -6.41E-02 |
| Acronyms | GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-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 Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption | | | | | | | | | | | | | | | |

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

Potential environmental impact – additional mandatory and voluntary indicators

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
|----------------------|------------|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| GWP-GHG ¹ | kg CO2 eq. | 1.36E+00 | 3.16E-01 | 3.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 0.00E+00 | 1.47E-02 | -1.50E-01 |

Use of resources

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
|-----------|----------------|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| PERE | MJ | 3.21E+00 | 8.48E-02 | 8.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-03 | 0.00E+00 | 2.42E-03 | -1.41E-01 |
| PERM | MJ | 1.01E+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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| PERT | MJ | 4.23E+00 | 8.48E-02 | 8.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.76E-03 | 0.00E+00 | 2.42E-03 | -1.41E-01 |
| PENRE | MJ | 7.00E+00 | 4.39E+00 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 2.47E-02 | -1.05E+00 |
| PENRM | MJ | 5.58E-01 | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| PENRT | MJ | 7.56E+00 | 4.39E+00 | 1.46E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 2.47E-02 | -1.05E+00 |
| SM | kg | 2.35E+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 | 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 | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| FW | m ³ | 2.29E-02 | 5.96E-04 | 5.06E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-05 | 0.00E+00 | 4.48E-04 | -1.86E-03 |

¹ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO2 is set to zero.

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
|-----------|--|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| Acronyms | PERE = Use of renewable primary energy excluding renewable primary energy resources 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 excluding non-renewable primary 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water | | | | | | | | | | | | | | | |

Waste production and output flows

Waste production

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system |
|------------------------------|------|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | |
| Hazardous waste disposed | kg | 5.98E-03 | 3.88E-03 | 9.52E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-04 | 0.00E+00 | 6.32E-07 | -1.67E-06 |
| Non-hazardous waste disposed | kg | 4.56E-01 | 4.91E-02 | 7.12E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Radioactive waste disposed | kg | 5.11E-05 | 1.68E-06 | 1.47E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.48E-08 | 0.00E+00 | 2.75E-06 | -5.02E-06 |

Output flows

Results per functional or declared unit for the representative product GOLD 35

| Indicator | Unit | Production phase | Construction phase | | Use phase | | | | | | | End of life phase | | | | D Benefits and loads beyond the limits of the system | |
|-------------------------------|------|------------------|--------------------|-----------------|-----------|----------------|-----------|----------------|------------------|---------------|-----------------|--------------------------------|--------------|--------------------|------------|--|----------|
| | | A1 / A2 / A3 | A4 Transport | A5 Installation | B1 Use | B2 Maintenance | B3 Repair | B4 Replacement | B5 Refurbishment | B6 Energy use | B7 Use of water | C1 Deconstruction / demolition | C2 Transport | C3 Waste treatment | C4 Removal | | |
| Components for re-use | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Material for recycling | kg | 1.60E+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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, electricity | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, thermal | 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 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

References

- ISO 14040:2006 Environmental management — Life cycle assessment — Principles and framework
- ISO 14044:2006 Environmental management — Life cycle assessment — Requirements and guidelines
- UNE-EN ISO 14020:2002 -Environmental labels and declarations - General principles. (ISO 14020:2000)
- UNE-EN ISO 14025:2006 - Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
- EN 15804:2012+A2:2019 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- EN 16783:2024 Thermal insulation products. Environmental Product
- PCR 2019:14. Construction products (EN 15804+A2) Version 1.3.4. PCR 2019:14
- c-PCR-005 c-PCR-005 Thermal Insulation products (EN 16783) (2024-05-03)
- General Programme Instructions of the International EPD® System. Version 4.
- LCA Report (Version 4 – 30.01.2024)

Annex I: list of products covered by the EPD

| GLASSWOOL FAMILY REFERENCES | |
|-----------------------------|-----------------------|
| 1 | URSA PLATINUM 32 |
| 2 | URSA TEP |
| 3 | URSA AMBER 33 |
| 4 | URSA SILENTIO 33 |
| 5 | URSA VENTO 34 |
| 6 | URSA PROFILO 35 |
| 7 | URSA GOLD 35 |
| 8 | URSA FERMTERM 35 |
| 9 | URSA FRAMEWOOL 35 |
| 10 | URSA TRS-TAP-HCS 22 |
| 11 | URSA OPTIMUM 37 |
| 12 | URSA PROFILO 37 |
| 13 | URSA MODULO 37 |
| 14 | URSA SILENTIO 37 |
| 15 | URSA SILENTIO 38 |
| 16 | URSA SILVER 39 |
| 17 | URSA FERMOTERM 39 |
| 18 | URSA FRAMEWOOL 39 |
| 19 | URSA PROFILO 39 |
| 20 | URSA CRISTAL 40 |
| 21 | URSA PRACTIC 42 |
| 22 | URSA DF 45 |
| 23 | URSA PROFESJONALNA 34 |
| 24 | STANDARDOWA 38 |
| 25 | URSA BUDOWLANA 44 |
| 26 | URSA ULTRA 33 |
| 27 | URSA PREMIUM 35 |
| 28 | URSA KOMFORT 40 |
| 29 | URSA STANDARD |
| 30 | URSA HOME 33 |
| 31 | URSA HOME 37 |
| 32 | URSA HOME 39 |
| 33 | URSA HOME 40 |
| 34 | URSA ESSENTIA ROLL |

| | |
|----|----------------------|
| 35 | URSA HOMEWALL |
| 36 | URSA GRANULO |
| 37 | URSA THERMO 35 |
| 38 | URSA THERMO ULTRA 33 |
| 39 | URSA MULTISKIVA 37 |
| 40 | URSA NORPLATTE 37 |
| 41 | URSA MATA 35 |
| 42 | URSA I-BJELKE 35 |
| 43 | URSA MATA 37 |
| 44 | URSA MATA 34 |
| 45 | URSA TAPE 22 |
| 46 | URSA MULTISKIVA 37 |
| 47 | URSA MULTISKIVA 35 |
| 48 | URSA NORPLATTE 37 |
| 49 | URSA ROLL 37 |