**SGS INTRON Certificatie B.V.**
Venusstraat 2, 4105 JH Culemborg
PO Box 267, 4100 AG Culemborg
The Netherlands
Tel: +31 (0)345 580 733
Website: www.sgs.com/intron-certificatie

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# European Technical Assessment

# ETA 24/0838
## of 18/08/2025

## General part

| Technical Assessment Body issuing the ETA: SGS INTRON Certificatie B.V. | |
|---|---|
| **Trade name of the construction product** | Durafloc RW / Cyclewool TF / Cyclewool CW |
| **Product family to which the construction product belongs** | Thermal insulation made of loose mineral wool |
| **Manufacturer** | Devilee Insulation B.V.<br>Galjoenweg 5<br>6222 NS, Maastricht<br>Netherlands |
| **Manufacturing plant(s)** | Devilee Insulation B.V.<br>Galjoenweg 5<br>6222 NS, Maastricht<br>Netherlands |
| **This European Technical Assessment contains** | 8 pages, including 1 annex which forms an integral part of this assessment |
| **This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of** | European Assessment Document EAD 040729-00-1201, edition December 2015 – “Thermal insulation made of loose mineral wool” |

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## Specific part

### 1. TECHNICAL DESCRIPTION OF THE PRODUCT

This European Technical Assessment (ETA) applies to Durafloc RW / Cyclewool TF / Cyclewool CW insulation. Durafloc RW / Cyclewool TF / Cyclewool CW is a thermal insulation product made of-loose-fill mineral wool (MW).

Durafloc RW / Cyclewool TF / Cyclewool CW is made from recycled mineral wool material, as described in standard EN 13162: “Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification”. These recycled mineral wool products are processed and mixed to obtain a homogeneous loose-fill mineral wool product.

Durafloc RW / Cyclewool TF / Cyclewool CW is delivered in the following quality, with distinguishable density, as described in table 1.1.

*Table 1.1. Durafloc RW / Cyclewool TF / Cyclewool CW characteristics*

| Trade name | Weight ($kg/m^3$)* | Delivered as | To be used as |
|---|---|---|---|
| Durafloc RW / Cyclewool TF / Cyclewool CW | 30-35 | Loose-fill material in packaging | Free placed insulation |
| | 40-45 | | Insulation placed in cavities |

* *Weight when applied on site.*

### 2. SPECIFICATION OF THE INTENDED USE(S) IN ACCORDANCE WITH THE APPLICABLE EUROPEAN ASSESSMENT DOCUMENT (HEREINAFTER EAD)

The thermal insulation material serves for the production of insulation layers, not exposed to compression loads, by means of machine processing at the place of use. The machine processing is carried out in dry conditions.

The thermal insulation product Durafloc RW / Cyclewool TF / Cyclewool CW can be used for the following intended uses:

- Exposed insulation on horizontal or moderately pitched areas (≤ 10°) (e.g. on the ceiling or in between beams).
- Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures.
- Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures.

The performances given in section 3 are only valid if the conditions laid down in the accompanying product data sheets and in the installation instructions given by the manufacturer have been respected throughout the transportation, storage and processing of Durafloc RW / Cyclewool TF / Cyclewool CW. Further information on handling of the Durafloc RW / Cyclewool TF / Cyclewool CW insulation is given in Annex A.

The provisions made in this ETA are based on an assumed intended working life of the reflective sheeting of 50 years, provided that the conditions laid down for the transportation, storage and processing are met.

The indications given on the working life cannot be interpreted as a guarantee given by the producer but are to be used as a means for choosing the right products in relation to the expected economic working life of the construction.

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## 3. PERFORMANCE OF THE PRODUCT AND REFERENCES TO THE METHODS USED FOR ITS ASSESSMENT

### 3.1. Mechanical safety and stability (BWR 1)

Not applicable

### 3.2. Safety in case of fire (BWR 2)

| Essential characteristic | Performance |
|---|---|
| Reaction to fire<br><br>Organic content<br>*(tested according to EN 13820:2003)* | Class A1<br>*(In accordance with EC decision 96/603/EC)*<br><br>≤ 2,9% (m/m) |
| Propensity to undergo continuous smouldering<br>*(tested according to EN 16733:2016)* | Test passed – The products show no propensity to undergo continuous smouldering |

### 3.3. Hygiene, health and the environment (BWR 3)

Not applicable

### 3.4. Safety and accessibility in use (BWR 4)

Not applicable

### 3.5. Protection against noise (BWR 5)

Not applicable

### 3.6. Energy economy and heat retention (BWR 6)

| Essential characteristic | Performance |
|---|---|
| Thermal conductivity | Declared value for a moisture content of the insulation material at 23°C and 50% relative humidity[1]:<br><br>$\lambda d_{23/50}$ = 0,037 W/mK<br>for density range 30 - 35 kg/m³<br><br>$\lambda d_{23/50}$ = 0,035 W/mK<br>for density range 40 - 45 kg/m³ |
| Conversion of humidity<br>*(acc. to EN ISO 10456:2007+AC:2009)*<br>moisture conversion factor (23 °C/50 % rel. humidity to 23 °C/ 80 % rel. humidity): | $F_m$ = 1,00 |
| Short term water absorption | No performance declared |
| Long term water absorption | No performance declared |
| Bulk density | 33,8 kg/m³, in case of free placing<br><br>46,2 kg/m³, in case of use in closed cavities |
| Water repellency | No performance declared |
| Water vapour transmission (water vapour diffusion resistance factor) | μ = 1 |
| Settlement | |
| - Setting of loose fill insulation applied in ceilings | ≤ 9,5 % at a minimum bulk density of 35 kg/m³ and a maximum thickness of 321 mm |
| - Setting of loose fill insulation applied in cavities of walls and between rafters | SC 0<br>at a minimum bulk density of 41 kg/m³ and a maximum thickness of 100 mm<br>*(according to EN 15101-1:2013 (≤ 1 %))* |
| - Setting of loose fill insulation under constant temperature and humidity conditions | No performance declared |
| - Setting under cyclical temperature and cyclic humidity | No performance declared |
| Airflow resistivity<br>*(tested according to EN 29053:1993, Method A, in accordance with EN 14064-1: 2010)* | ≥ 5,2 kPa·s/m² at a minimum bulk density of 30 kg/m³<br><br>≥ 11,3 kPa·s/m² at a minimum bulk density of 40 kg/m³ |

### 3.7. Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

[1] The declared value is representative for at least 90 % of the production with a confidence level of 90 % and applies to the above-named density range. For the admissible deviation of an individual value of the thermal conductivity from the declared value the method described in EN 13172:2012, annex F, applies.

## 4. ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

In accordance with EAD No 040729-00-1201, the applicable European legal act is: Decision 1991/91/EC. The system(s) to be applied is: 3.
Additionally, for reaction to fire including propensity to undergo continuous smouldering, the applicable European legal act is: Decision 2001/596/EC. The system(s) to be applied with regard to reaction to fire is: 3.

## 5. TECHNICAL DETAILS NECESSARY FOR THE IMPLEMENTATION OF THE AVCP SYSTEM, AS PROVIDED FOR IN THE APPLICABLE EAD

### 5.1. Tasks for the ETA-holder

The cornerstones of the actions to be undertaken by the manufacturer of the product in the process of assessment and verification of constancy of performance are laid down in clause 3.2 of the European Assessment Document 040729-00-1201.

The manufacturer is allowed to use similar test or control methods, using different equipment and test samples under different conditions, as long as the manufacturer ensures constant product performances, but the frequency of control shall be respected.

### 5.2. Tasks of notified bodies

The cornerstones of the actions to be undertaken by the notified body in the process of assessment and verification of constancy of performance are laid down in clause 3.3 of the European Assessment Document 040729-00-1201.

## 6. REFERENCE LIST

MPA NRW Prüfbericht 423000540-23-E-01a of 27-5-2024
MPA NRW Prüfbericht 423000540-23-E-02a of 27-5-2024

MPA NRW Prüfbericht 231002052-1 of 27-3-2024 (reaction to fire tests – EN ISO 1182)
MPA NRW Prüfbericht 231002052-2 of 27-3-2024 (reaction to fire tests – EN ISO 1716)
MPA NRW Bericht zur Klassifizierung des Brandverhaltens, nr. 23100052052-3 of 27-3-2024
MPA NRW Prüfbericht 231002052-4 of 27-4-2024 (propensity to undergo continuous smoldering)

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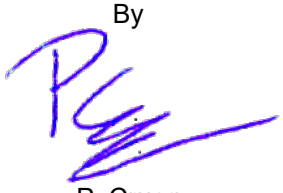
By



P. Crucq
TAB Manager

## ANNEX A INSTRUCTIONS ON HANDLING OF DURAFLOC RW / CYCLEWOOL TF/ CYCLEWOOL CW

The performances of the thermal insulation products given in Section 3 are valid if the following will be considered concerning installation and use:

- Densities at built-in stage:

| Area of application | Density [kg/m³] |
|---|---|
| Exposed insulation on horizontal or moderately pitched areas (≤ 10°) (e. g. on the ceiling or between beams) | 30 – 35 |
| Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures. | 40 – 45 |
| Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures | 40 – 45 |

- The density is determined by calculation as a quotient from the mass of the material brought in and the full volume.
- The thermal insulation layer has a constant installation thickness taking account of the nominal thickness. For that purpose, suitable height marks are be arranged by the executing company in sufficient distances before the processing. The executing company check the installation thickness and the density.
- When calculating the thermal resistance of the construction elements, the nominal thickness of the thermal insulation layer is applied as follows:

| Processing of the insulation material | Nominal thickness |
|---|---|
| Exposed insulation on horizontal or moderately pitched areas (≤ 10°) (e. g. on the ceiling or between beams) | installation thickness of the insulation material minus 10 % |
| Space-filling insulation in closed cavities of external and interior walls of timber frame constructions and similar structures. | Clear span of the filled cavity |
| Insulation in closed cavities between rafters and timber beams as well as in cavities of corresponding structures | Clear span of the filled cavity |

- The requirements concerning ventilation openings and the ventilation section above the thermal insulation layer are considered.
- In case of installation on pitched or arched areas slipping of the thermal insulation product is prevented by suitable measures.
- In case of use as space-filling thermal insulation in closed cavities it is made sure by appropriate measures (e.g. control drillings) that the cavity is completely filled with the thermal insulation product.
- In case of installation in timber frame constructions, it must be checked in advance that the structure is dry and properly protected against moisture. Suitable vapor retarders and water-resistant membranes must be installed. The insulation must be kept dry at all times, as moisture can affect performance.
- The thermal insulation products are only processed by companies which have adequate experience in installing the material.

- The executing company provides an installer’s declaration as indicated in EN 14064-2 which contains the following information with reference to this European Technical Assessment:
  - thermal insulation product made of loose mineral wool.
  - trade names.
  - executing company.
  - building project and building component.
  - date of installation.
  - installation thickness.