

TESTING REQUESTED BY:

PROTOX ApS
Fabriksvej 19
6000 Kolding
Denmark

GENERAL INFO :

- Test Report No.: 2025-909-FRDk. Dated October 9, 2025
- This report concerns the evaluation of the fiber fixation of the insulation
- ROCKWOOL brand, type FLEXIBATTS 37
- Fixation agent: PROTOX AS50 commercialised by PROTOX ApS
- Batch number PROTOX AS50

PROCEDURE :

- Volatile fibers are measured in a sealed plexiglass enclosure measuring 90 cm x 70 cm x 60 cm (glove box). (*Picture 1*)
- Samples of FLEXIBATTS 37 measuring 29 cm x 21 cm x 5 cm are weighed with a KERN EMS precision balance version 1.6 2017-10, readable accuracy to 0.01 g, reproducibility 0.02 g.
- Buderus DN 125 G3 conical filters, 200 mm long, 125 mm diameter, 11 mm thick, type G3, stop 80/90% of 10 μ fibers
- The Technical University of Denmark measured using 3D technology that the length of Rockwool fibers was 9 mm on average (8.8 to 9.6 mm).
- Each of the five Rockwool Flexibatts 37 samples is protected on five sides with a cardboard backing and the edges are sealed with strong tape. (*Picture 2*)
- Samples numbered 1 and 2 are not impregnated with PROTOX AS50.
- All samples are subjected to an air current of approximately 3,5m³ per hour created by two fans for approximately one hour.
- The loose fibers are sucked into the conical filter by a Quirumed vacuum pump of 16 liters/minute at 0.75 bar.
- Each element is weighed six times, with the scale reset to zero after three measurements to ensure reproducibility of 0.02 g.

MEASUREMENTS

Sample n°1 :

- Test duration: 34 minutes
- Result: 0,70 gram fibres on filter

Sample n°2:

- Test duration: 47 minutes
- Result: 0,65 gram fibres on filter

AUCTUM

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Scientific collaborator University of Liège, Belgium, department applied sciences.

Sample n°4:

- PROTOX AS50 applied on rockwool panel; 394 gram/m².
- Test duration: 70 minutes
- Result: not measurable (< 0,02 gram fibres on filter)

Sample n°5:

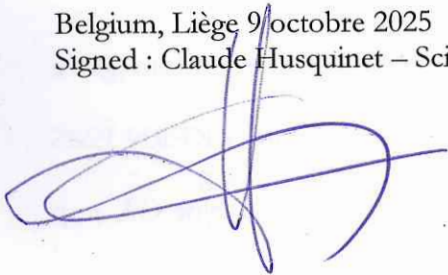
- PROTOX AS50 applied on rockwool panel; 119 gram/m².
- Test duration: 68 minutes
- Result: not measurable (< 0,02 gram fibres on filter)

CONCLUSION :

The fixation agent PROTOX AS50 is effective for tested purpose.

Belgium, Liège 9/octobre 2025

Signed : Claude Husquinet – Scientific collaborator University of Liège



Pictures:



Picture 1



Picture 2