

Report Prepared for:

ROCKWOOL Ltd
Wern Tarw Road
Bridgend
GB



Solutions

Project No.:

4792199165

Report No.:

4792199165-01

Issue No.:

01

Date of Issue:

20-08-2026

**UL Technical Assessment Report of Fire Performance of FirePro CB60 in Terms of EN 1366-3:
2021 + A1: 2024, Based on Fire Test Evidence**

This report has been prepared by Andres Mena Gallego, Associate Project Engineer in full accordance with the PFPF standard procedures guidance, (as outlined in the 2021 edition of 'Guide to undertaking technical assessments of fire performance of construction products based on test evidence') and in line with the principles of EN 15725: 2010.

Copyright © 2026

UL International authorizes the above-named company to reproduce this Report only for purposes as described in the Conclusion, provided it is reproduced in its entirety.

TABLE OF CONTENTS

1. Definition	3
2. Basic Assessment	3
3. Client Declaration	3
4. UL Declaration	4
5. Introduction	4
6. Assumptions	4
7. Assessment – Performance to EN 1366-3: 2021 + A1: 2024	5
8. Limits of Applicability	6
9. Conclusions	6
10. UL Confirmation of Validity	7
11. Signatories	8
12. Annex A – Primary Evidence	9
13. Annex B – Declaration by the Applicant	10

Client Name: ROCKWOOL Ltd

Date of Report: 20-08-2026

This report relates to a request from ROCKWOOL Ltd to undertake an assessment of the likely fire test performance of FirePro CB60 based on supporting test evidence.

The request to assess was for the following reason/s:

- To assess the fire resistance performance of FirePro CB60 product when acting as a replacement for FirePro CB50 product for all designs and configurations, as detailed within classification report 4791365447.1 and Annex A of this report.

1. Definition

In accordance with the PFPF guide – **Undertaking Technical Assessments of Fire Performance of Construction Products Based on Fire Test Evidence** the definition used for the scope of this report is as follows.

‘A technical evaluation of the likely performance of a component or element of structure (as defined in Approved Document B for England and Wales or their equivalent in Scotland and Northern Ireland) if it were subject to a standard fire test.

An assessment may consider design changes to a tested element of construction for a specific project, or it could form a wider scope of approval with a defined period of validity

Assessments are based on sufficient relevant test evidence and provide a defined scope of approval for a particular design or range of designs and is an opinion of the likely performance of a component or element if it were subject to a standard fire test’.

For the purpose of this assessment the level of complexity is defined as –

2. Basic Assessment

The assessment of relatively minor changes to a tested product or system. Such changes shall not be critical to the fire performance of the product or construction being assessed.

3. Client Declaration

During the application process the client ROCKWOOL Ltd. has confirmed in writing the following.

All information and evidence provided is accurate and reflects exactly the product or system which is subject to assessment. All information relevant to the assessment; references, drawings technical specifications, photographs and test/certification reports have been made available to the UL assessor; including any test failures and any information/evidence which they are aware of which may be unfavourable to the assessment outcome.

The client has also confirmed that they have not been refused an assessment by any other competent organisation and that to their knowledge the product or system has not been tested in the configuration (or similar) they are seeking an assessment on.

The original application declaration is kept on file for reference.

4. UL Declaration

UL have agreed to undertake this assessment based on the client's supplied information and their declaration confirming full disclosure of information. UL have reviewed the application and have completed an impartiality assessment. This report therefore represents an independent expert opinion, which has not been influenced by any commercial, financial, or other pressures, that could compromise impartiality.

5. Introduction

This report considers the expected fire resistance performance of FirePro CB60 product, when used as a replacement of FirePro CB50 product for all designs and configurations, as detailed within classification report 4791365447.1 and Annex A of this report.

The data which forms the basis of this assessment was obtained from tests in accordance with EN 1366-3: 2009, EN 1366-3: 2021 and EN 1366-3: 2021 + A1: 2024.

The FirePro CB60 product discussed is required to provide up to 120 minutes integrity and insulation performance, with respect to EN 1366-3.

6. Assumptions

It is assumed that the proposed FirePro CB60 will be installed by competent installers, in a manner that is in accordance with the manufacturers' approved installation methods and like that detailed within this report.

It is assumed that the specification of the FirePro CB60 will be as detailed in the supporting data section of this report unless specifically detailed otherwise within the assessed performance section of this report.

7. Assessment – Performance to EN 1366-3/EN 13501-2.

The classification report UL No. 4791365447.1 details the fire resistance classifications for ROCKWOOL Ltd. FirePro CB50 penetration seals based on a series of tests conducted in accordance with EN 1366-3: 2009, EN 1366-3: 2021 and EN 1366-3: 2021 + A1: 2024, and the given direct field of application. Various classifications are included depending upon element of construction, opening size, services and thickness/layers of board, up to a maximum of EI 120 (120 minutes integrity and insulation performance).

The FirePro CB50 product is manufactured from a stone wool board, 50mm thick and 160 kg/m³ and coated on both faces with an outer layer of ablative coating. To form a penetration seal, the required thickness of board, in single or double layer, as required, is friction fitted within the opening or installed in a pattress configuration around the aperture, surrounding the penetrating services. Several complimentary ROCKWOOL Ltd FirePro products may be required and used depending upon the configuration and classification required.

It is proposed that both stone wool boards, FirePro CB50 50mm thick and 160 kg/m³ and FirePro CB60 60mm thick and 180 kg/m³ may be interchangeable while maintaining at least the same fire resistance performance/classification as the FirePro CB50 penetration seals detailed within classification report UL No. 4791365447.1.

Since no specific fire test data is available for FirePro CB60 penetration seals, it is necessary to consider a material comparison between the products.

The composition of the stone wool board component, as already identified, is identical in both products (same binder content) and the formulation of the ablative coating used in the outer layer of both products have been provided to UL for confidential comparison and consideration, being the same for CB50 and CB60 products.

Both products, FirePro CB50 and FirePro CB60, when compared via technical data sheets, present several different features:

- Acoustic performance: higher for CB60 than CB50.
- Thickness: 60mm for CB60 and 50mm for CB50
- Density: 180 kg/m³ for the CB60 and 160 kg/m³ for the CB50.

For the purpose of this document, we will establish the foundations of the assessment on the effect of the thickness and density over the fire performance of both products, FirePro CB50 & FirePro CB60.

From the point of view of the thickness, an increase in this property comprises the following consequences:

- An increase in the heat path length: a thicker mineral wool slab would imply a greater distance for the heat to travel across the non-combustible element and therefore, this reduces the amount of heat transfer to the unexposed face, and this would result in an improved insulation performance.
- An increased thickness will mean a larger slab mass that would lead onto more absorption of heat by the non-combustible element and an associated delay in the heat transfer.

- The same effect as in previous explanation applied to areas where the mineral slab is around the services and joints would result in a larger volume of the slab in contact with the services and joints and a reduced heat conduction across the penetration seal.
- A larger thickness also will be translated into an improved mechanical stability of the seal regarding the typical phenomena occurring during fires as burn-through, distortion or local shrinking affecting the performance of the seal.

Considering how the mineral wool slab density affects the fire performance of the seal incorporating it, the insulation criterion is not always affected positively. Nevertheless, the following observations are made for higher densities:

- They provide improved dimensional stability which translates into a better fire resistance due to a higher number of fibres per volume unit with a smaller void size between fibres, added to a better resistance to surface erosion and fibre movement. This results in an improved performance against hot gases and furnace pressure.
- Higher density helps providing a stiffer substrate around the services, reducing local deformation and service movement, on top of avoiding the formation of openings around services that contributes to the integrity (and insulation on a further stage) of the system.

FirePro CB60 has a nominal thickness of 60 mm, compared with 50 mm for FirePro CB50, and a higher density of 180 kg/m³ instead of 160 kg/m³ (12.5% increase). According to the explanation in previous paragraphs about the implications of higher density and thickness when evaluating mineral wool slab fire behaviour, the increased thickness and density of FirePro CB60 in comparison to those of FirePro CB50 will result in an improved rigidity and resistance to deformation during both installation and fire exposure, contributing positively to both, integrity and insulation criterions.

Because of the information explained in this section, it can be concluded that the replacement of FirePro CB50 by FirePro CB60 in the configurations contained in classification report 4791365447 Iss3 would produce at least the same test results and consequently the same classification performances obtained when using FirePro CB50 product.

8. Limits of Applicability

The conclusions of this report only apply to the fire performance of FirePro CB60, when installed as detailed earlier in this report.

This assessment does not constitute product certification by UL and should not be used to demonstrate compliance where the project requires product certification.

9. Conclusions

As a result of the information provided in section 7, the following can be inferred:

- Both products have the same binder content as shown in evidence provided by client.
- The substitution of FirePro CB50 by FirePro CB60 will result only in an increase in seal depth and density.
- The increase in thickness will contribute to an improved behaviour of the system towards the insulation criterion.
- The increase in density will contribute to an improved behaviour of the system towards the integrity criterion.

- Although neither a positive nor negative effect can be concluded with respect to the influence of increased density upon the insulation performance, this will in any case be outweighed by the positive contribution of the increase in board thickness

It can be concluded that the replacement of FirePro CB50 with FirePro CB60 as described earlier in this report would be expected to provide up to 120 minutes integrity and insulation performance when installed as detailed earlier in this report, if subjected to a test in accordance with EN 1366-3: 2021 + A1: 2024.

10. UL Confirmation of Validity

This assessment is issued based on the test data and information to hand at the time of issue. If contradictory evidence becomes available to the assessing authority the assessment will be unconditionally withdrawn and the applicant will be notified in writing. Similarly, the assessment should be re-evaluated, if the assessed construction is subsequently tested, since actual test data is deemed to take precedence.

This assessment is valid for an initial period of five years (if the clause above is not enacted) after which time it is recommended that it be submitted to the assessing authority for re-evaluation.

This report may only be used in its entirety and should be supplied to interested parties or AHJ's as such.

NB This assessment report is not valid unless it incorporates all pages and the declaration duly signed by the applicant's representative.

11. Signatories

Engineer Completing the Assessment on behalf of UL.

Issue No	Name of Engineer	Name of Reviewer	Date
01			20-08-2026
	Andres Jesus Mena Gallego	Chris Johnson	

Date of Issue	20-08-2026
Date end of validity (five years from issue)	19-08-2031

12. Annex A – Primary Evidence**List of Primary Evidence referred to**

Classification Report No. 4791365447.1 Iss3

A classification report generated in accordance with EN 13501-2: 2023 on 21.07.26 for FirePro CB50 product, detailing the fire resistance classifications for ROCKWOOL Ltd. FirePro CB50 penetration seals based on a series of tests conducted in accordance with EN 1366-3: 2009, EN 1366-3: 2021 and EN 1366-3: 2021 + A1: 2024, and the given direct field of application. Various classifications are included depending upon element of construction, opening size, services and thickness/layers of board, up to a maximum of EI 120 (120 minutes integrity and insulation performance).

Classification report 4791365447.1 contains the following summary of test reports:

Name of laboratory	Name of sponsor	Test reference	Test date	Test method
FPA Accredited Body no. 10536	ROCKWOOL Limited	FPA 106784 r0	29/10/2024	EN 1366-3: 2021
		FPA 106884 r1	19/11/2024	
		541986/R Iss 1	09/08/2024	EN 1366-3: 2021
		546853/R Iss 1	17/11/2024	
		549189/R Iss 1	10/01/2025	EN 1366-3: 2021+A1:2024
		549190/R Iss 1	13/01/2025	
		549191/R Iss 2	14/01/2025	
		549192/R Iss 1	15/01/2025	
		549193/R Iss 2	17/01/2025	
		549194/R Iss 1	20/01/2025	
		549195/R Iss 1	22/01/2025	
		549196/R Iss 1	21/01/2025	
		549200/R Iss 2	03/02/2025	
		549201/R Iss 2	13/02/2025	
		549202/R Iss 1	14/02/2025	
		550006A/R Iss1	24/02/2025	
		550561/R Iss 2	11/03/2025	
		550560/R Iss 1	05/03/2025	
		551825C/R Iss 1	28/04/2025	
		551829/R Iss 1	20/05/2025	
		551828/R Iss2	12/05/2025	
		555523/R Iss1	08/11/2025	
		556230A/R Iss1	08/12/2025	EN 1366-4: 2021
		556232/R Iss1	16/12/2025	EN 1366-3: 2021+A1:2024
	ROCKWOOL A/S	557560/R Iss1	19/02/2026	

Date of issue: 21.07.26

Classification sponsor: ROCKWOOL Ltd.

13. Annex B – Declaration by the Applicant

Reference No. _____

We the undersigned confirm that we have read and complied with the obligations placed on us by the

Passive Fire Protection Forum (PFPF)

Guide to undertaking technical assessments and engineering evaluations based on fire test evidence

2021

Industry Standard Procedure

We confirm that any changes which are the subject of this assessment have not to our knowledge been tested to the standard against which this assessment has been made.

We agree to withdraw this assessment from circulation should the component or element of structure, or any of its component parts be the subject of a failed fire resistance test to the standard against which this assessment is being made.

We understand that this assessment is based on test evidence and will be withdrawn should evidence become available that causes the conclusion to be questioned. In that case, we accept that new test evidence may be required.

We are not aware of any information that could affect the conclusions of this assessment. If we subsequently become aware of any such information, we agree to ask the assessing authority to withdraw the assessment.

(in accordance with the principles of FTSG Resolution 82)

Signature:

Name: _____

Position: _____

Company: _____

Date: _____
