
Title

The Fire Resistance
Performance Of Timber-Based
Doorsets Incorporating
Mechanical Digital Pushbutton
Locks If Tested In Accordance
With BS 476: Part 22: 1987 or
EN 1634-1:2014 +A1:2018.

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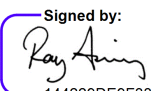
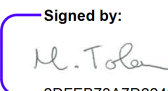
15th October 2030

Prepared for:

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The issue/revision number stated on the front of this report supersedes all previous issues/revisions, if applicable. Previous issues/revisions of the report, if applicable, cannot be used once an updated report has been issued/revised under a new revision.

Signatories and Revision History

Issue No.	Date	FM No.	Report scope and Signatures
1	19/10/2020	432751	Initial report issued to Securefast PLC
2	26/03/2024	432751	SBL310.BLFR added, and client signature included
3	16/10/2025	553103	5-year review/revalidation + change to company name and address
Assessor		Reviewer	
Name: *R. Anning		Name: *M. Tolan	
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*For and on behalf of Warringtonfire

Executive summary

This report presents an assessment of the fire resistance performance of the CQR mechanical digital pushbutton locks as fire tested and described in Annex A when modified as detailed in Section 3 of this report.

The proposed modification includes an evaluation of the family of locks for use with insulated timber doorsets of 30 and 60 minute fire resistance performance.

This assessment report is subject to the requirements and limitations described Sections 2 and 8.

The assessment in Section 5 of this report found that if SBL300, 310, 315, 320, 330, 350 and 365 Series mechanical digital locks as tested and described in Annex A had been modified as proposed, it is expected that it would have been capable of up to 60 minutes of integrity and insulation with timber-based doorsets if tested in a similar manner to BS 476: Part 22: 1987 or EN 1634-1:2014+A1:2018. Additionally this report found that if SBL700.SFR mechanical digital locks as tested and described in Annex A had been modified as proposed, it is expected that it would have been capable of up to 30 minutes of integrity and insulation with timber-based doorsets if tested in a similar manner to BS 476: Part 22: 1987 or EN 1634-1:2014+A1:2018

This report represents our opinion as to the performance likely to be demonstrated on a test in accordance with the test standard specified above, on the basis of the test evidence referred to in this report. We express no opinion as to whether that evidence, and/or this report would be regarded by any Building Control authorities or any other third parties as sufficient for that or any other purpose.

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1. Introduction

This report presents an assessment of the fire resistance performance of CQR mechanical digital pushbutton locks as fire tested and described in the annex A and as detailed in Section 3 of this report.

2. Assessment framework

An assessment is an opinion of the likely performance of a component or element of structure if it was subjected to a standard fire test.

This assessment report has been carried out in accordance with the Passive Fire Protection Forum (PFPF) 'Guide to Undertaking Technical Assessments of the Fire Performance of Construction Products Based on Fire Test Evidence - 2021' and has been written in accordance with the general principles outlined in BS EN 15725: 2023; *Extended application reports on the fire performance of construction products and building elements, as applicable*.

This scope document cannot be used as supporting documentation for either a CE or UKCA marking application for doorsets, nor can the conclusion be used to establish a formal classification against EN13501-2).

The scope presented in this report relates to the behaviour of the element under the particular conditions of the test; they are not intended to be the sole criterion for considering the potential fire hazard of the door assembly in use.

This report has been prepared and checked by product assessors with the necessary competence, who subscribe to the principles outlined in the Passive Fire Protection Forum (PFPF) 'Guide to Undertaking Technical Assessments of the Fire Performance of Construction Products Based on Fire Test Evidence - 2021'. The aim of the PFPF guidelines is to give confidence to end-users that assessments that exist in the UK are of a satisfactory standard to be used for building control and other purposes.

This report uses established empirical methods of extrapolation and experience of fire testing similar elements, in order to extend the scope of application by determining the limits for the designs based on the tested constructions and performances obtained. The scope is an evaluation of the potential fire resistance performance, if the variations specified herein were to be tested in accordance with test standard specified.

This report has been written using appropriate test evidence generated at UKAS accredited laboratories, to the relevant test standard. The supporting test evidence has been deemed appropriate to support the stated design and is summarised in Section 3 and Appendix A.

3. Description of the specimen and proposed modifications

Description of the products

This report presents an appraisal of the fire resistance performance of timber-based door assemblies, when fitted with the following CQR mechanical digital locks:

Reference	Description
Fire Rated Mechanical Digital Push Button Locks - Easy Code Change	
SBL315.SFR	Push Button Digital Lock Easy code change with holdback - Satin Chrome
SBL315.BFR	Push Button Digital Lock Easy code change with holdback - Brass
SBL320.SFR	Push Button Digital Lock Easy code change with holdback - Satin Chrome
SBL320.BFR	Push Button Digital Lock Easy code change with holdback - Brass
SBL330.SFR	Push Button Easy Code Plus with Knob - Satin Chrome
SBL330.SLFR	Push Button Easy Code Plus with Lever - Satin Chrome
SBL365.SFR	Push Button Easy Code with Lever, Passage Mode and Tubular Latch - Satin Chrome
SBL700.SFR	Push Button Easy Code Digital Lock with Passage Mode - Satin Chrome
Fire Rated Mechanical Digital Push Button Locks - Traditional Code Change	
SBL300.SFR	Push Button Digital Lock - Satin Chrome
SBL300.BFR	Push Button Digital Lock - Brass
SBL310.SFR	Push Button Digital Lock with holdback - Satin Chrome
SBL310.BFR	Push Button Digital Lock with holdback - Brass
SBL310.BLFR	Push Button Digital Lock with holdback - Black
SBL350.BFR	Push Button Digital Lock with Knob and Key Override - Satin Chrome
Fire Rated Mechanical Digital Push Button Locks - Easy Code Change With 72mm Crs Mortice Lock	
SBL365.SLFR/91	Push Button Easy Code with Lever and Sq. End Sash Lock - Satin Chrome
SBL365.SLFR/94	Push Button Easy Code with Lever and Sq. End Night Latch - Satin Chrome
SBL365.SLFR/95	Push Button Easy Code with Lever and Sq. End Escape Sash Lock - Satin Chrome
SBL365.SLFR/91R	Push Button Easy Code with Lever and Rnd End Sash Lock - Satin Chrome
SBL365.SLFR/94R	Push Button Easy Code with Lever and Rnd End N/Latch - Satin Chrome
SBL365.SLFR/95R	Push Button Easy Code with Lever and Rnd End Escape Sash Lock - Satin Chrome

The proposed timber-based doorsets are required to provide a fire resistance performance of 30 or 60 minutes integrity, and where applicable insulation, with respect to BS 476: Part 22: 1987 or BS EN 1634-1 when incorporating the proposed hardware.

Summary of the proposed modifications/designs

Table 1 Summary of proposed modifications

Item	Proposed modifications
1	This report presents an assessment of the fire resistance performance of the CQR mechanical digital locks as fire tested and described in Annex A of this report. The proposed modification includes an evaluation of the family of locks for use with insulated timber doorsets of 30 and 60 minute fire resistance performance.

4. General requirements and assumptions

- It is assumed that the construction, which supports the proposed doorset assembly, will have been the subject of a separate test and its performance is such that it will not influence the performance of the doorset for the required period.
- Door leaf to frame clearance gaps can have a significant effect on the overall fire performance of a doorset. It is therefore assumed that the leaf to leaf and leaf to frame clearance gaps will not exceed those measured for the relevant fire tested doorset. The application of increased perimeter gaps in accordance with the Field of Direct application of test results, in accordance with BS EN 1634-1: 2014 + A1: 2018 is therefore not permitted in conjunction with this assessment report. It is assumed that the door leaves will be in the closed position.
- It is assumed that the proposed locks will be fitted to timber based door leaves which have previously been shown to be capable of providing 30 or 60 minutes integrity and insulation performance as required, in the same configuration as that proposed, with regard to:
 - Single-acting, single or double-leaf
- It is also assumed that the doorsets will fully comply with any certification scope or assessed modifications, apart from the modifications specified in this report.
- The locks/latches shall not be fitted higher than 1500 mm from the centre of the tubular latch to the finished floor level of the surrounding floors.
- The CQR fitting instructions and templates shall be followed. Recessing for locks shall result in a tight fit, allowing for any intumescent protection where required.

- Where a lock considered by this report does not incorporate a self-latching mechanism e.g. deadlocks, then either the lock must be engaged or the doorsets must have been proven for the required period without the restraint of a latch/lock.
- All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed, or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/ maximum size (e.g. case, forend, latchbolt, strikeplate, any holes through the door face, etc.), and the application of any additional intumescent protection. On this basis, approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope.
- EN1634-1 was issued originally in 2000, with amended versions issued in 2008, 2014 and 2018. The differences between each version are mainly procedural and are not considered to have a practical impact on the performance of the samples under test. On this basis this evaluation is considered applicable to all versions of EN1634-1 issued prior to the issue of this assessment.
- It is assumed that the end user will have a full understanding of the tested specification as defined in the relevant test report(s) summarised in Appendix A.
- If a design variation or extension to scope is not explicitly detailed within the assessment it should not be assumed to be acceptable by omission.

5. Assessment of proposed modifications

5.1 CQR mechanical digital locks

5.1.1 Proposal

This report presents an assessment of the fire resistance performance of the CQR mechanical digital locks as fire tested and described in Annex A of this report.

The proposed modification includes an evaluation of the family of locks for use with insulated timber doorsets of 30 and 60 minute fire resistance performance.

5.1.2 Discussions

An appraisal of the hardware variants detailed in this report is based upon product information supplied by the hardware manufacturer, which is retained in the confidential file relating to this report. Warringtonfire have not inspected the devices being appraised and cannot be held responsible for the accuracy of the information provided.

General mortice lock and handle performance

The critical aspects of the locks in terms of their impact on the performance of the doorset are considered to be the lock material, the case dimensions, the strike/forend dimensions, the size and location of holes through the face of the door, and the intumescent material incorporated around the lock. The tested locksets were chosen to be representative of the range of locks considered by this appraisal in terms of overall sizes and was judged to reflect the most onerous lock/handle options.

Consideration is required of the following key aspects:

- In terms of the lock material, it is critical that materials which are combustible or have a lower melting point are not utilised since materials which melt or ignite may advance the burn through of the leaf and therefore lead to a premature integrity failure.
- It is critical that the lock dimensions and any holes through the door face are not increased since the bigger mortice required for a larger case may lead to an earlier burn through of a timber-based leaf, and a bigger strike/forend may lead to the penetration of flames/hot gases at the leaf edge due to further interruption of intumescent seals and/or an increase in conducted heat. Additionally larger holes in the door face may lead to the penetration of flames/hot gases to the unexposed face
- In timber-based doorsets, in terms of the intumescent protection, it is critical that this is not reduced from that tested, as the reaction of this material, when subjected to the heating conditions of the test, is essential in limiting the burn through of the leaf and at the leaf to frame gap at the lock position.

Tubular Latch

The test detailed in the report referenced WF No. 322545 included timber based doorsets considered typical of 30 minute and 60 minute constructions. Both doorsets were fitted with two examples of the range of SBL digital locks considered by this report, fitted in conjunction with a 60 mm backset tubular mortice latch typical to much of the range.

Doorset A included a single acting, single leaf doorset with a 44 mm thick multi-layered chipboard door with 6 mm thick hardwood lippings. The leaf was hung within a softwood frame which incorporated a single 15 x 4 mm perimeter intumescent fire seal and opened towards the heating conditions.

Doorset B included in test WF Report No. 422969 was a single acting, single leaf doorset with a 54 mm thick multi-layered chipboard door with 6 mm thick hardwood lippings. The leaf was hung within a hardwood frame which incorporated 2No. 15 x 4

mm perimeter intumescent fire seals set 9 mm apart. The door opened towards the heating conditions.

Both doorsets were fitted with a CQR tubular latch with a 57.5 mm high x 30 mm wide square forend, a 70 mm x 22 mm diameter case, with a 70 mm high x 42 mm wide strikeplate, including a 34 x 14 mm latchbolt lip. One set at approximately 1350 mm from the bottom of the door to the latchbolt, and the other approximately 950 mm from the bottom of the door to the latchbolt. The latchbolts was engaged for the test duration.

The pushbutton units and handle models included in the doorsets were the SBL330 SL (top) and the SBL365 (bottom) in both doorsets, with the keypads to the unexposed face and handles to exposed face.

In both doorsets the latch assemblies were provided with intumescent protection in the form of 1 mm thick Interdens sheet wrapping the latch body and backing the latch forend and strike plate. Additionally the perimeter intumescent fire seals within Doorset B by-passed the strikeplate by approximately 5 mm on either side, except at the latchbolt lip.

Review of the observations included in the test report shows that in both cases no instance of integrity failure was attributed to the presence or performance of the locksets fitted to either doorset.

Failure of the 30 minute doorset, Doorset A, occurred after a period of 44 minutes and was attributed to sustained flaming at the base of the door leaf. The doorset was sealed off at this time to allow the continuation of the test for the 60 minute doorset.

Failure of the 60 minute doorset, Doorset B, occurred after a period of 63 minutes and was attributed to sustained flaming at the head of the door leaf. The test was allowed to continue until 68 minutes at which time it was discontinued with no instance of integrity failure at the position of either of the locksets fitted to the door.

The data generated by the test has therefore demonstrated that the tested 60 mm backset tubular latch provide sufficient restraint for doors without self-closing and are capable of being fitted to 30 and 60 minute timber based doorsets without detriment to the performance of the doorset for periods well in excess of the 30 and 60 minute performances required.

The minimum intumescent protection for these locks shall be:

- 30 minutes - 1 mm thickness of Interdens Mono Ammonium Phosphate intumescent to all faces of the lockcase, 1 mm thickness of the same material is provided behind the forend, and behind the strike plate.
- 60 minutes - 1 mm thickness of Interdens Mono Ammonium Phosphate intumescent to all faces of the lockcase, 1 mm thickness of the same material is provided behind the forend, and behind the strike plate.

- 60 minutes - Additionally the perimeter intumescent within the frame/door edge shall by-pass the strike plate or forend by a minimum of 5 mm wide on each side (with the exception of the latchbolt lead where present)

SBL300, 310, 315, 330 & 350 Series

The SBL330.SL pushbutton units and handles included in test WF No. 322545 had overall unit dimensions of 142 mm high x 41 mm wide x 65 mm deep and a neoprene base seal to both sides, with the keypad to the unexposed face and handles to exposed face.

Additional testing as identified in WF Report No. 417165 was undertaken to evaluate the SBL330.SL with the keypad to the exposed face and handle to unexposed face. The testing was small-scale testing of simulated 30 minute and 60 minute doorsets, with the specification of the simulated doorsets as that tested full-scale under WF Report No. 422969, including the tubular set at an approximate simulated 1500 mm from the bottom of the door.

On reviewing the observations taken from the tests report, it's clear that there were no integrity failures associated with the SBL330.SL locksets fitted:

- Doorset A (E30) – No failure of the SBL330.SL lockset for a test duration of 46 minute, at which time the doorset was blanked off to allow the testing of the Doorset B (E60) to continue.
- Doorset B (E60) – No failure of the SBL330.SL lockset for the test duration of 66 minute, at which time the test was terminated.

Therefore it would be reasonable to conclude that should SBL330 digital mechanical pushbutton units, handles and tubular latches be incorporated within a 30 minute or 60 minute timber-based doorset it would not have a detrimental impact on the fire resisting performance.

The SBL330.SL was selected for the test on the basis that it was considered to be representative of the smaller locks to be considered from the SBL range which share overall unit dimensions of 142 mm high x 41 mm wide x 65 mm deep with a neoprene base seal to both sides. The model is a lever operated unit including 'Easy Code' and 'No Feel' functions. Whilst these functions have no bearing on the potential fire performance, the model was chosen as this had the deepest case at 65 mm rather than the 38 mm depth for the rest of this group.

All models require the same door leaf preparation in terms of through holes in the door leaf comprising a single 10 mm diameter hole for the 8 mm spindle, two 7 mm diameter holes for the lock fixing bolts and a single 6 mm diameter hole for the lock support post, the position of which is determined by the selected handing of the lock.

Given the similarities of the models and that they all share identical fixing and door preparation requirements to that of the tested SBL330 SL, the proposed SBL300, 310, 315, 330 & 350 Series are all positively appraised.

SBL365.SFR & Tubular Latches

The SBL365.SFR pushbutton units and handles included in test WF No. 322545 had overall unit dimensions of 178 mm high x 48 mm wide x 90 mm deep and a neoprene base seal to both sides, with the keypad to the unexposed face and handles to exposed face.

The door leaf preparation for this model comprises of a single 19 mm diameter hole for spindle and two 7 mm diameter holes for the lock fixing bolts.

Additional testing as identified in WF Report No. 417165 was undertaken to evaluate the SBL365.SFR with the keypad to the exposed face and handle to unexposed face. The testing was small-scale testing of simulated 30 minute and 60 minute doorsets, with the specification of the simulated doorsets as that tested full-scale under WF Report No. 422969, including the tubular set at an approximate simulated 1500 mm from the bottom of the door.

On reviewing the observations taken from the tests report, it's clear that there was no integrity failures associated with the SBL365.SFR locksets fitted:

- Doorset A (E30) – No failure of the SBL365.SFR lockset for a test duration of 46 minute, at which time the doorset was blanked off to allow the testing of the Doorset B (E60) to continue.
- Doorset B (E60) – Cotton pad failure of the SBL365.SFR lockset was recorded at 61 minutes.

Therefore it would be reasonable to conclude that should SBL365.SFR digital mechanical pushbutton units, handles and tubular latches be incorporated within a 30 minute or 60 minute timber-based doorset it would not have a detrimental impact on the fire resisting performance.

SBL365.SFR & SEU1090 Series Mortice Locks

It is further proposed that the SBL365.SFR pushbutton units and handles may operate in conjunction with the SEU1090 series mortice locks. The pushbutton units and handles have not previously been tested with an upright mortice lock.

The performance of the SEU1090 series mortice locks within single-action, single-leaf and double-leaf, timber-based doorsets of up to 60 minutes integrity performance has been assessed previously with CQR report WF 432749 Issue 2, and this report should be referred to when considering this combination.

WF Assessment Report No. 432749 Issue 2 concluded that should the recommendations given in this report be followed, the SEU1090 Series mortice locks

and accessories as detailed within this report may be fitted to previously tested single-action, single-leaf and double-leaf, timber based doorsets to provide up to 60 minutes integrity performance, without detracting from the overall performance of the doorset, with respect to EN 1634-1 or BS 476: Part 22: 1987.

An important requirement of this appraisal identified that the minimum intumescent protection for these locks shall be:

- 30 minutes - 1 mm thickness of Interdens Mono Ammonium Phosphate intumescent to all faces of the lockcase, 1 mm thickness of the same material is provided behind the forend, and behind the strike plate.
- 60 minutes - 2 mm thickness of Interdens Mono Ammonium Phosphate intumescent to all faces of the lockcase, 2 mm thickness of the same material is provided behind the forend, and behind the strike plate.
- 60 minutes - Additionally the perimeter intumescent within the frame/door edge shall by-pass the strike plate or forend by a minimum of 8 mm wide on each side (with the exception of the latchbolt lead where present)

Although the SBL365.SFR pushbutton units and handles have not previously been tested with an upright mortice lock the only difference between the standard door face preparations for the SEU1090 Series with a lever handle and the proposed SBL365.SFR is a slightly larger spindle hole - 19 mm diameter as opposed to a standard 16 mm diameter.

This larger spindle hole would have been tested with the tubular latch, and this can be potentially considered to be a more onerous combination as the interaction between the tubular latch mortice and spindle hole results in the spindle hole being very close to the edges of the latch mortice; whereas with the upright mortice lock only a small additional portion of the lockcase is exposed, and this is fully protected by intumescent sheet material.

It is therefore reasonable to assume that this combination will not have a detrimental impact on the performance of the doorsets.

It is consequently concluded that should SBL365.SFR digital mechanical pushbutton units, handles and the SEU1090 series mortice locks be incorporated within a 30 minute or 60 minute timber-based doorset it would not have a detrimental impact on the fire resisting performance.

SBL320 Series

The SBL320 has overall unit dimensions of 158 mm high x 45 mm wide x 44 mm deep with a neoprene base seal to both sides. The door leaf preparation for this model comprises of a single 10 mm diameter hole for the 8 mm spindle, two 7 mm diameter holes for the lock fixing bolts and a single 6 mm diameter hole for the lock support post, the position of which is determined by the selected handing of the lock.

The SBL320 Series pushbutton units and handles incorporate the same tubular latch included in the 30 minute and 60 minute timber doorsets in test WF No. 322545, therefore the ability of these latches to retain the door has already been established.

Additional testing as identified in WF Report No. 417165 was undertaken to evaluate the SBL320.SFR with the keypad and handle from both directions. The testing was small-scale testing of simulated 30 minute and 60 minute doorsets, with the specification of the simulated doorsets as that tested full-scale under WF Report No. 422969, including the tubular latch set at an approximate simulated 1650 mm from the bottom of the door.

On reviewing the observations taken from the tests report, it's clear that there were no integrity failures associated with the SBL320.SFR locksets fitted:

- Doorset A (E30)
 - Cotton pad failure of the SBL320.SFR lockset with keypad to the exposed face at 46 minutes.
 - No failure of the SBL320.SFR lockset with keypad to the exposed face for a test duration of 46 minute, at which time the doorset was blanked off to allow the testing of the Doorset B (E60) to continue.
- Doorset B (E60)
 - Sustained flaming failure of the SBL320.SFR lockset with keypad to the exposed face at 63 minutes.
 - No failure of the SBL320.SFR lockset with keypad to the unexposed face for the test duration of 66 minutes, at which time the test was terminated.

Therefore it would be reasonable to conclude that should SBL320.SFR digital mechanical pushbutton units, handles and tubular latches be incorporated within a 30 minute or 60 minute timber-based doorset it would not have a detrimental impact on the fire resisting performance.

SBL700.SFR

The SBL700.SFR has overall unit dimensions of 175 mm high x 65 mm wide x 36 mm deep and neoprene base seal both sides. The door leaf preparation for this model comprises of a single 35 mm high x 25 mm wide hole for the spindle, two 7 mm diameter holes for the lock fixing bolts and a single 6 mm diameter hole for code change rod.

The SBL700.SFR pushbutton units and handles incorporate the same tubular latch included in the 30 minute and 60 minute timber doorsets in test WF No. 322545, therefore the ability of these latches to retain the door has already been established.

Additional testing as identified in WF Report No. 419607 was undertaken to evaluate the SBL700.SFR with the keypad and handle from both directions on 30 minute timber-based doorsets.

Both Doorset A and Doorset B included in test WF Report No. 419607 were single acting, single leaf doorsets with 44 mm thick multi-layered chipboard doors with 8 mm thick hardwood lippings. Each leaf was hung within a softwood frame which incorporated a single 15 x 4 mm perimeter intumescent fire seal.

Both doorsets were fitted with SBL700.SFR pushbutton units and handles and incorporate the same tubular latch set 1280 mm from the bottom of the door to the centre of the latchbolt. The latchbolt was disengaged in both doorsets for the test duration.

Doorset A opened towards the heating conditions with the keypad on the unexposed face and handle on the exposed face, whilst Doorset B opened away from the heating conditions with the keypad on the exposed face and handle on the unexposed face.

In both doorsets the latch assemblies were provided with intumescent protection in the form of 1 mm thick Interdens sheet wrapping the latch body and backing the latch forend and strike plate.

On reviewing the observations taken from the test report, the test was terminated at 38 minutes with no integrity failures of either doorset.

Therefore it would be reasonable to conclude that should SBL700.SFR digital mechanical pushbutton units, handles and tubular latches be incorporated within a 30 minute timber-based doorset it would not have a detrimental impact on the fire resisting performance.

5.2 Proposed Doorsets

As stated in this report, the doorset, in the required configuration, will be previously tested and its performance is therefore not in doubt.

All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed, or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/maximum size (e.g. case, forend, latchbolt, strikeplate, etc.), and the application of any additional intumescent protection. On this basis, approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope.

To enable the use of the CQR mechanical digital locks on a range of doorsets, it is necessary to address the available information on the proposed doorset. As this appraisal is intended to be used on a general basis and not restricted to any

particular manufacturer of fire resisting doorsets, the following points are given to enable the locks to be used safely:

The doorset shall carry valid certification or the doorset, including the door frame and associated hardware should have achieved 30 or 60 minutes integrity, as required, when tested by a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), to BS EN 1634-1 or BS 476: Part 22: 1987 as required.

- a) The doorset, onto which the proposed hardware is to be fitted, may be of single-leaf or double-leaf configuration, on the basis the scope is supported by the test data/Field of Application for the doorset proposed.
- b) The leaves of the proposed doorset shall be of a minimum thickness of 44 mm for 30 minute doorsets and 54 mm for 60 minute doorsets.
- c) Door leaves of solid lignocellulosic construction in the lock, keypad and handle area, encompassing the entire footprint of the lock, keypad and handle.
- d) The leaves should incorporate hardwood lippings of a minimum thickness of 6 mm and minimum density 640kg/m^3 .
- e) Door frame density –
 - 30 minutes – Minimum 450 kg/m^3
 - 60 minutes – Minimum 640 kg/m^3
- f) Additionally, the amount of interruption to the intumescent seal specification at the door leaf to frame perimeter clearance gaps should be replicated or reduced from that originally specified for the tested doorset.

6. Conclusions

Should the recommendations given in this report be followed, it can be concluded that single-acting, timber doorsets, which have previously been successfully fire tested to BS 476: Part 22: 1987 or BS EN 1634 by a UKAS approved laboratory, or a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), and have achieved 30 or 60 minutes, as discussed in this report, may be fitted with SBL300, 310, 315, 320, 330, 350 and 365 Series mechanical digital locks, without detracting from the overall achieved performance of the doorset.

Additionally should the recommendations given in this report be followed, it can be concluded that single-acting, timber doorsets, which have previously been successfully fire tested to BS 476: Part 22: 1987 or BS EN 1634 by a UKAS approved laboratory, or a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), and have achieved 30 minutes, as discussed in this report, may be fitted with SBL700.SFR mechanical digital locks, without detracting from the overall achieved performance of the doorset.

7. Declaration

We the undersigned confirm that we have read and comply with 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

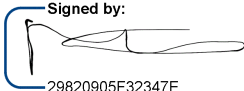
We confirm that any changes to a component or element of structure which are the subject of this assessment have not to our knowledge been tested to the standard against which this assessment has been made.

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 No. 82: 2001)

Signed:  Signed by:
29820905F32347E...

Name: adam gallacher

Position: Product Director

Date: 17-Oct-2025

For and on behalf of: **CQR Security Ltd**

8. Limitations

This assessment report:

- Does not provide an endorsement by Warringtonfire of actual products supplied.
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- This report addresses itself solely to the elements and subjects discussed and do not cover any other criteria or modifications. All other details not specifically referred to should remain as tested or assessed.
- This report is issued on the basis of test data and information to hand at the time of issue. If contradictory evidence becomes available to Warringtonfire, 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 has been carried out in accordance with Fire Test Study Group Resolution No. 82: 2001.
- Opinions and interpretation expressed herein are outside the scope of UKAS accreditation.
- This assessment report relates only to those aspects of design, materials and construction that influence the performance of the element(s) under fire resistance test conditions that are stipulated in the standard this assessment concludes to. It does not purport to be a complete specification ensuring fitness for purpose and long-term serviceability. It is the responsibility of the client to ensure that the element conforms to recognised good practice in all other respects and that, with the incorporation of the guidance given in this assessment, the element is suitable for its intended purpose.
- This report represents our opinion as to the performance likely to be demonstrated on a test in accordance with the standard to which this

assessment concludes, on the basis of the test evidence referred to in this report. We express no opinion as to whether that evidence, and/or this report would be regarded by any Building Control authorities or any other third parties as sufficient for that or any other purpose.

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9. Validity

This assessment report is not valid unless signed by all signatories identified within the Signatories and Revision History section of this report.

This assessment report is not valid unless it incorporates the declaration given in Section 7 duly signed by the applicant.

The assessment is valid initially for a period of five years after which time it is recommended that it be submitted to the assessing authority for re-evaluation.

Appendix A

Summary of supporting data

The summaries in this section are for information only. It is assumed that the end user will have a full understanding of the tested specification as defined in the relevant test report.

The test evidence used in the evaluation is over 5 years old. In accordance with industry guidance, the evidence has been reviewed to consider its suitability. Warringtonfire are satisfied that there have been no significant revisions to the relevant test standards which would render the evidence irrelevant.

A.1 Primary Evidence

Test Report Reference WF No. 322545 Issue 1	
Report sponsor	CQR Ltd (previously Securefast PLC)
Test laboratory	Warringtonfire, Warrington.
Test date	1 st October 2012
Test standard	BS EN 1634-1:2008
Specimen summary	Doorset A had overall dimensions of 2020 mm high by 1000 mm wide and incorporated a door leaf of overall dimensions 1980 mm high by 931 mm wide by 45 mm thick. The door leaf was hung within a softwood door frame on three stainless steel hinges. The door leaf was formed from a graduated density chipboard core with hardwood lippings to the vertical edges. The doorset was fitted with two Securefast push button digital latchsets, the lower latchset was referenced SBL365 and the upper latchset was referenced SBL330SL The doorset was installed so it opened towards the heating conditions of the test and was latched via the lower latchset for the duration of the test. Doorset B had overall dimensions of 1994 mm high by 1012 mm wide and incorporated a door leaf of overall dimensions 1946 mm high by 930 mm wide by 54 mm thick. The door leaf was hung within a hardwood door frame on three stainless steel hinges. The door leaf was formed from a graduated density chipboard core with hardwood lippings to the vertical edges. The doorset was fitted with two Securefast push button digital latchsets, the lower latchset was referenced SBL365 and the upper latchset was referenced SBL330SL The doorset was installed so it opened towards the heating conditions of

Test Report Reference WF No. 322545 Issue 1

	the test and was latched via the lower latchset for the duration of the test.	
	Warringtonfire Limited was not involved with the sampling of the hardware.	
Test results Doorset A	Integrity:	44 minutes
	Insulation:	44 minutes
Test results Doorset B	Integrity:	63 minutes
	Insulation:	44 minutes

Test Report Reference WF No. 419607 Issue 1

Report sponsor	CQR Ltd (previously Securefast PLC)																																										
Test laboratory	Warringtonfire, Warrington.																																										
Test date	29 th October 2019																																										
Test standard	BS EN 1634-1:2014 + A1:2018																																										
Specimen summary	Doorset A had overall nominal dimensions of 1010 mm wide by 2080 mm high, incorporating a single door leaf with overall dimensions of 936 mm wide by 2040 mm high by 44 mm thick. The door leaf was formed from a solid graduated density chipboard construction, with 8 mm hardwood lippings to the vertical edges and was hung within a softwood frame, on three stainless steel hinges and was orientated so that the door leaf opened towards the heating conditions. The Doorset was latched via both of the locksets for the duration of the test. The Doorset was fitted with the following hardware: <table><tr><td>Item No</td><td>Description</td><td>Reference</td></tr><tr><td>3</td><td>Push latch device</td><td>SED993</td></tr><tr><td>4</td><td>Digital push button lockset</td><td>SBL700.SFR</td></tr><tr><td>5</td><td>Mortice sash lock</td><td>SEU1092.2</td></tr><tr><td>6</td><td>Lever handleset</td><td>SH-0203</td></tr><tr><td>7</td><td>Escutcheon</td><td>SDC-P-02</td></tr><tr><td>8</td><td>Cylinder</td><td>SEU6702/T</td></tr><tr><td>9</td><td>Lever handle access device</td><td>SED900/SE/LE</td></tr><tr><td>11</td><td>Strike plate – fail secure</td><td>AL900M</td></tr></table> Doorset B had overall nominal dimensions of 1010 mm wide by 2080 mm high, incorporating a single door leaf with overall dimensions of 936 mm wide by 2040 mm high by 44 mm thick. The door leaf was formed from a solid graduated density chipboard construction, with 8 mm hardwood lippings to the vertical edges and was hung within a softwood frame, on three stainless steel hinges and was orientated so that the door leaf opened away from the heating conditions. The Doorset was latched via both locksets for the duration of the test. The Doorset was fitted with the following hardware: <table><tr><td>Item No</td><td>Description</td><td>Reference</td></tr><tr><td>3</td><td>Push latch device</td><td>SED993</td></tr><tr><td>4</td><td>Digital push button lockset</td><td>SBL700.SFR</td></tr><tr><td>5</td><td>Mortice sash lock</td><td>SEU1092.2</td></tr><tr><td>6</td><td>Lever handleset</td><td>SH-0203</td></tr></table>	Item No	Description	Reference	3	Push latch device	SED993	4	Digital push button lockset	SBL700.SFR	5	Mortice sash lock	SEU1092.2	6	Lever handleset	SH-0203	7	Escutcheon	SDC-P-02	8	Cylinder	SEU6702/T	9	Lever handle access device	SED900/SE/LE	11	Strike plate – fail secure	AL900M	Item No	Description	Reference	3	Push latch device	SED993	4	Digital push button lockset	SBL700.SFR	5	Mortice sash lock	SEU1092.2	6	Lever handleset	SH-0203
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Test Report Reference WF No. 419607 Issue 1

	7	Escutcheon	SDC-P-02
	8	Cylinder	SEU6702/T
	9	Lever handle access device	SED900/SE/LE
	11	Strike plate – fail secure	AL900M
	The hardware was selected and sampled by Warringtonfire Certification on the 14 th October 2019.		
Test results Doorset A	Integrity:	38 minutes	
	Insulation:	38 minutes	
Test results Doorset B	Integrity:	38 minutes	
	Insulation:	38 minutes	

Test Report Reference WF No. 422969 Issue 1

Report sponsor	CQR Ltd (previously Securefast PLC)																								
Test laboratory	Warringtonfire, Warrington.																								
Test date	14 th January 2020																								
Test standard	BS EN 1634-1:2014 + A1:2018																								
Specimen summary	Doorset A incorporated a single door leaf with overall dimensions of 928 mm wide by 2042 mm high by 44 mm thick. The door leaf was formed from a chipboard core with 6 mm thick hardwood lippings to the vertical edges and was hung in a softwood frame with a single 15 x 4 mm intumescent perimeter seal within the frame rebate and hung on three stainless steel hinges. The Doorset was installed so that the leaf opened towards the heating conditions of the test. The Doorset was latched for the duration of the test. Doorset B incorporated a single door leaf with overall dimensions of 928 mm wide by 2042 mm high by 54 mm thick. The door leaf was formed from a chipboard core with 6 mm thick hardwood lippings to the vertical edges and was hung in a hardwood frame with 2No. 15 x 4 mm intumescent perimeter seal within the frame rebate and hung on three stainless steel hinges. The doorset was installed so that the leaf opened towards the heating conditions of the test. The Doorset was latched for the duration of the test. Both doorsets were fitted with the following hardware: <table><tr><th>Item No</th><th>Description</th><th>Reference</th></tr><tr><td>11</td><td>Hinges</td><td>H101</td></tr><tr><td>12</td><td>Mortice Sash Lock</td><td>SEU1091.2</td></tr><tr><td>14</td><td>Lever Handleset</td><td>SDP-0203</td></tr><tr><td>12</td><td>Euro double cylinder</td><td>SSC3535-NI</td></tr><tr><td>16</td><td>Emergency push pad actuator</td><td>SED996/SE</td></tr><tr><td>17</td><td>Mortice nightlatch</td><td>SEU777/1</td></tr><tr><td>18</td><td>Euro single cylinder</td><td>SSC45-SN</td></tr></table>	Item No	Description	Reference	11	Hinges	H101	12	Mortice Sash Lock	SEU1091.2	14	Lever Handleset	SDP-0203	12	Euro double cylinder	SSC3535-NI	16	Emergency push pad actuator	SED996/SE	17	Mortice nightlatch	SEU777/1	18	Euro single cylinder	SSC45-SN
Item No	Description	Reference																							
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14	Lever Handleset	SDP-0203																							
12	Euro double cylinder	SSC3535-NI																							
16	Emergency push pad actuator	SED996/SE																							
17	Mortice nightlatch	SEU777/1																							
18	Euro single cylinder	SSC45-SN																							
	The hardware was selected and sampled by Warringtonfire Certification on the 7 th January 2020.																								

Test Report Reference WF No. 422969 Issue 1

Test results Doorset A	Integrity: 48 minutes Insulation: 48 minutes
Test results Doorset B	Integrity: 55 minutes Insulation: 55 minutes

A.2 Secondary Evidence

Test Report Reference WF No. 417165 Issue 1

Report sponsor	CQR Ltd (previously Securefast PLC)
Test laboratory	Warringtonfire, Warrington.
Test date	23 rd August 2019
Test standard	Test report relating to an investigation which utilised the heating and pressure conditions given in BS EN 1634-1:2014 + A1:2018 the full requirements of the Standard were not, however, complied with. The information is provided for the test sponsor's information only and should not be used to demonstrate performance against the Standard nor compliance with a regulatory requirement.

Test Report Reference WF No. 417165 Issue 1

Specimen summary	The purpose of the test was to provide an indication of the performance of the following Securefast hardware under fire test conditions, when fitted to 30 and 60 minute fire rated timber based doorsets. Both doorsets were fitted with the following: 1No. SBL320 Digital Locks with tubular latch/strike (engaged) – with pushbutton key pad on the exposed face and handle/turn on the unexposed face (Key to figures: 12). 1No. SBL320 Digital Locks with tubular latch/strike (engaged) – with pushbutton key pad on the unexposed face and handle/turn on both faces (Key to figures: 13). 1No. SBL330 Digital Locks with tubular latch/strike (engaged) – with pushbutton key pad on the exposed face (Key to figures: 14). 1No. SBL365 Digital Locks with tubular latch/strike (engaged) – with pushbutton key pad on the exposed face (Key to figures: 15). 1No. Electromagnetic lock AEM10001 Armature on the exposed face (Key to figures: 16). 1No. Electromagnetic lock AEM10001 Armature on the unexposed face (Key to figures: 17). 1No. Electromagnetic lock AEM12100 Armature on the exposed face (Key to figures: 18). 1No. Electromagnetic lock AEM12100 Armature on the unexposed face (Key to figures: 19). 1No. SED993/SE Push Pad Emergency fitted on the exposed face with 1No.SED990/SEKNC OAD fitted on the unexposed face (Key to figures: 20). 1No. SED993/SE Push Pad Emergency fitted on the unexposed face with 1No.SED990/SEKNC OAD fitted on the exposed face (Key to figures: 21). The test assembly consisted of two small scale single leaf timber doorsets which for test purposes were referenced as Doorsets A and B. Doorset A had overall dimensions of 1440 mm high by 700 mm wide incorporating a door leaf with overall dimensions 1400mm high x 613mm wide x 44mm thick. The leaf comprised a solid graduated density chipboard construction, with 6 mm hardwood lippings to the vertical edges. The leaf was mounted in a softwood frame. Doorset B had overall dimensions of 1440 mm high by 700 mm wide incorporating a door leaf with overall dimensions 1400mm high x 613mm wide x 54mm thick. The leaf comprised a solid graduated density chipboard construction, with 6 mm hardwood lippings to the vertical edges. The leaf was mounted in a hardwood frame.
	The test assembly formed the front vertical face of a 1.5 metre wide by 1.5 metre high by 2 metre deep gas fired furnace chamber, the temperature rise of which was controlled to conform to the relationship given in BS EN 1363-1: 2012. The furnace atmospheric pressure was controlled so that it simulated a pressure of 13 Pa 1m up from the furnace floor.
	The hardware was selected and sampled by Warringtonfire Certification on the 30th July 2019.
Test results Doorset A	Integrity: 48 minutes Insulation: 55 minutes
Test results Doorset B	Integrity: 48 minutes Insulation: 55 minutes

Assessment Report Reference WF No. 432749 Issue 2

Report sponsor	CQR Ltd (previously Securefast PLC)														
Test laboratory	Warringtonfire, Warrington.														
Current report date	15 th October 2025														
Test standard	The proposed doorsets are required to provide a fire resistance performance of up to 60 minutes integrity performance for timber-based doorsets, with respect to EN 1634-1 or BS 476: Part 22: 1987.														
Report summary	This report presents an appraisal of the fire resistance performance of single-action timber-based, when fitted with SEU1090 Series mortice locks and accessories. The doorset, onto which the proposed hardware is to be fitted, may be of single-leaf or double-leaf configuration.														
	The approval applies to the following products: <table border="1"> <thead> <tr> <th><i>Reference</i></th><th><i>Description</i></th></tr> </thead> <tbody> <tr> <td>SEU1091.2</td><td>Euro Profile Mortice Sash Lock</td></tr> <tr> <td>SEU1092.2</td><td>Euro Profile Mortice Latch</td></tr> <tr> <td>SEU1093.2</td><td>Euro Profile Mortice Dead Lock</td></tr> <tr> <td>SEU1094.2</td><td>Euro Profile Mortice Night Latch</td></tr> <tr> <td>SEU1095.2</td><td>Euro Profile Mortice Escape Lock</td></tr> <tr> <td>SEU1096.2</td><td>Euro Profile Mortice Bathroom Lock</td></tr> </tbody> </table>	<i>Reference</i>	<i>Description</i>	SEU1091.2	Euro Profile Mortice Sash Lock	SEU1092.2	Euro Profile Mortice Latch	SEU1093.2	Euro Profile Mortice Dead Lock	SEU1094.2	Euro Profile Mortice Night Latch	SEU1095.2	Euro Profile Mortice Escape Lock	SEU1096.2	Euro Profile Mortice Bathroom Lock
<i>Reference</i>	<i>Description</i>														
SEU1091.2	Euro Profile Mortice Sash Lock														
SEU1092.2	Euro Profile Mortice Latch														
SEU1093.2	Euro Profile Mortice Dead Lock														
SEU1094.2	Euro Profile Mortice Night Latch														
SEU1095.2	Euro Profile Mortice Escape Lock														
SEU1096.2	Euro Profile Mortice Bathroom Lock														
	WF Assessment Report No. 432749 concluded that should the recommendations given in this report be followed, the SEU1090 Series mortice locks and accessories as detailed within this report may be fitted to previously tested single-action, single-leaf and double-leaf, timber-based doorsets to provide up to 60 minutes integrity performance, without detracting from the overall performance of the doorset, with respect to EN 1634-1 or BS 476: Part 22: 1987.														

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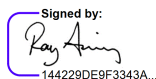
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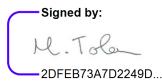
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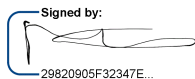
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