CERTIFICATE OF APPROVAL
No CF 6123

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

ASSA ABLOY LTD
SCHOOL STREET
WILLENHALL
WV13 3PW
UNITED KINGDOM

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
SmartLatch, SmartBolt & Jigtech Tubular Locks	TS23 The Contribution of Locks and Latches to The Performance of Fire Resisting Doorsets

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager

Issued: 29th April 2024
Audit Test Frequency: Annually
Valid to: 28th April 2029

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ASSA ABLOY Jigtech and Union SmartLatch and SmartBolt and associated Jigtech lever handles

1. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.

2. This approval relates to the following tubular locks (SmartBolt), latches (SmartLatch) and handles:

Function	Backset / Name	Finish	JIGTECH code	UNION code
Latch	45	PCP	JTL4021-F	N/A
Latch	45	SNP	JTL4221-F	N/A
Latch	45	BNKL	JTL4321-F	N/A
Latch	45	PEB	JTL4421-F	N/A
Latch	45	ANB	JTL4521-F	N/A
Latch	57	PCP	JTL4020-F	DH002285-F
Latch	57	SNP	JTL4220-F	DH002280-F
Latch	57	BNKL	JTL4320-F	DH002290-F
Latch	57	PEB	JTL4420-F	N/A
Latch	57	ANB	JTL4520-F	DH002295-F
Latch	57	MBLK	JTL4620-F	DH002300-F
Latch	45	MBLK	JTL4621-F	N/A
Bolt	45	PCP	JTL4024-F	N/A
Bolt	45	SNP	JTL4224-F	N/A
Bolt	45	BNKL	JTL4324-F	N/A
Bolt	45	PEB	JTL4424-F	N/A
Bolt	45	ANB	JTL4524-F	N/A
Bolt	57	PCP	JTL4023-F	DH002286-F
Bolt	57	SNP	JTL4223-F	DH002281-F
Bolt	57	BNKL	JTL4323-F	DH002291-F
Bolt	57	PEB	JTL4423-F	N/A
Bolt	57	ANB	JTL4523-F	DH002296-F
Bolt	57	MBLK	JTL4623-F	DH002301-F
Bolt	45	MBLK	JTL4624-F	N/A

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Function	Name	Finish	JIGTECH code
Handles	Solar	PCP	JTF1000-F
Handles	Sabre	PCP	JTF1005-F
Handles	Viper	PCP	JTF1010-F
Handles	Eden	PCP	JTF1015-F
Handles	Condor	PCP	JTF1020-F
Handles	Ultro	PCP/SCP	JTF1065-F
Handles	Harrier	PCP/SCP	JTF1070-F
Handles	Solar	SCP	JTF1200-F
Handles	Sabre	SCP	JTF1205-F
Handles	Viper	SCP	JTF1210-F
Handles	Eden	SCP	JTF1215-F
Handles	Condor	SCP	JTF1220-F
Handles	Solar	BNKL	JTF1400-F
Handles	Solar	ANB	JTF1600-F
Handles	Jigtech solar lever on rose mblk fire-rated	Matt Black (MBLK)	JTF1710-F
Handles	Jigtech cresta lever on rose mblk fire-rated	Matt Black (MBLK)	JTF1700-F
Handles	Jigtech riva lever on rose mblk fire-rated	Matt Black (MBLK)	JTF1705-F
Handles	Jigtech vecta lever on rose mblk fire-rated	Matt Black (MBLK)	JTF1715-F
Handles	Jigtech textura lever on rose anb fire-rated	Antique Brass (ANB)	JTHA1800-F
Handles	Jigtech textura lever on rose mblk fire-rated	Matt Black (MBLK)	JTHA1805-F
Handles	Jigtech textura lever on rose pcp fire-rated	Polished Chrome Plated (PCP)	JTHA1810-F
Handles	Jigtech textura lever on rose snp fire-rated	Satin Nickel Plated (SNP)	JTHA1815-F
Handles	Jigtech tactil lever on rose anb fire-rated	Antique Brass (ANB)	JTHA1900-F
Handles	Jigtech tactil lever on rose mblk fire-rated	Matt Black (MBLK)	JTHA1905-F
Handles	Jigtech tactil lever on rose pcp fire-rated	Polished Chrome Plated (PCP)	JTHA1910-F
Handles	Jigtech tactil lever on rose snp fire-rated	Satin Nickel Plated (SNP)	JTHA1915-F

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All latches and locks have the same basic construction, all comprising of a zinc alloy cases, zinc alloy latch bolt or zinc alloy dead bolt and zinc alloy strikeplate/keeps. All locksets when incorporating a latch or dead bolt have the same projections. The forend and case dimensions are generally the same, the only difference in the dimensions is the width of the case as the SmartLatch has a width of 15 mm and the SmartBolt has a width of 11 mm, the other notable difference being in either the surface finish or the length of the backset. The strikeplate design varies slightly as the SmartBolt does not include the lip on the strikeplate. The main difference between the SmartLatch and SmartBolt is that the SmartLatch has a latch and the SmartBolt has a bolt.

3. The Jigtech concept is a complete system, consisting of the tubular latch (SmartLatch) or deadbolt (SmartBolt), strikeplate, special plastic spacer and Jigtech lever furniture. It is designed to be fitted using specialist jigs.

4. The Union Hardware products are purely the tubular latch (SmartLatch) or deadbolt (SmartBolt) and strikeplate, fitted in the typical method. The lock is identical to the Jigtech lock element but is sold separately to work in conjunction with any surface mounted lever handle via a standard spindle hole.

5. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.

6. This approval relates to their use with the following door assemblies:-

   Code ITT - 20 minute to 60 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

7. The locks are approved on the basis of:

   i) Initial type testing to EN 1634-1 and EN 12209
   ii) An appraisal against TS23
   iv) Certification of quality management system.
   v) Inspection and surveillance of factory production control
   vi) On-going audit testing in accordance with TS23 requirements

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8. The mortice locks and/or latches shall only be used with door assemblies that are CERTIFIRE approved or have achieved the appropriate fire resistance performance when tested at a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), in accordance with BS 476: Part 22: 1987 or BS EN 1634:1 with similar size or larger locks and strikeplates, the critical aspects of the doorset construction are considered to be the material of the door frame, the leaf to frame clearance gaps and the lipping material. Attention should be paid to these details, and these should not be amended from that previously fire tested.

   The following minimum specification shall be followed, unless the chosen doorset has evidence to the contrary with locks/strikeplates of a similar size/specification:

   Timber-based assemblies:

   i) Door frame density – minimum 450 kg/m³ (30 minutes), minimum 640 kg/m^3 (60 minutes)
   ii) Door leaves shall have a minimum thickness of 44 mm for 30 minute applications and 54 mm for 60 minute applications.
   iii) Lipping density - minimum 640 kg/m^3.

9. When fitted to insulated timber door assemblies, The required protection will be as follows:

   Jigtech System latches/deadbolts, with plastic spacers and Jigtech lever handles:

   i) 30 minutes – 0.8 mm graphite-based intumescent sheet material (ref. JTA3060-IK) wrapped around the tubular latch/lock (SmartLatch/SmartBolt), behind the latch forend, strike plate, all sides and base of the dust box and around the plastic spacer. 4 mm graphite disc (cut to suit spacer) placed behind spacer on both sides.
   ii) 60 minutes – 0.8 mm graphite-based intumescent sheet material (ref. JTA3060-IK) wrapped around the tubular latch/lock (SmartLatch/SmartBolt), behind the latch forend, strike plate, all sides and base of the dust box and around the plastic spacer. 4 mm graphite disc (cut to suit spacer) placed behind spacer on both sides.

   Union Hardware latches/deadbolts only, with standard surface mounted lever handles:

   i) 30 minutes – 0.8 mm graphite-based intumescent sheet material (ref. JTA3060-IK) was wrapped around the tubular latch/lock (SmartLatch/SmartBolt), behind the latch forend, strike plate, all sides and base of the dust box.
   ii) 60 minutes – 0.8 mm graphite-based intumescent sheet material (ref. JTA3060-IK) wrapped around the tubular latch/lock (SmartLatch/SmartBolt), behind the latch forend, strike plate, all sides and base of the dust box.

Failure to install the protection will invalidate this certificate.

10. The mortice locks and/or latches and their associated strikeplates and keeps may only be fitted in the manner described in this certificate and subject to any limitations on the inclusion of locks/latches specified for the door leaf. This approval is applicable only to the specified locks used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and when using appropriate intumescent protection.

11. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.

12. The mortice locks and/or latches should only be used with doorsets which have been previously shown to be capable of providing the required fire resistance performance when tested in accordance with EN 1634-1 or BS 476: Part 22: 1987 in the proposed configuration i.e. single-leaf or double-leaf.

13. The lock/latch should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.

14. The holes in the door face shall be strictly in accordance with the fitting instructions supplied by the lock manufacturer.

15. Recessing for locks shall result in a tight fit, allowing for any intumescent protection where required. Mortices for the latchbolt and deadbolt behind the strikeplate shall be as small as possible.

16. The doorset shall be installed in accordance with BS 8214. 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. forend, case, 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.

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17. The approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

The following table shows the acceptable doorset types and fire resistance periods:

	Approved Door Type			
Class	**IMM**	**MM**	**ITT**	**ITM**
FD20	✘	✘	✓	✘
FD30	✘	✘	✓	✘
FD60	✘	✘	✓	✘
FD90	✘	✘	✘	✘
FD120	✘	✘	✘	✘
FD240	✘	✘	✘	✘
E 20	✘	✘	✓	✘
EI 20	✘	✘	✓	✘
E 30	✘	✘	✓	✘
EI 30	✘	✘	✓	✘
E 60	✘	✘	✓	✘
EI 60	✘	✘	✓	✘
E 90	✘	✘	✘	✘
EI 90	✘	✘	✘	✘
E 120	✘	✘	✘	✘
EI 120	✘	✘	✘	✘
E 240	✘	✘	✘	✘
EI 240	✘	✘	✘	✘

Key:

✓ - approved

✘ - Not approved

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18. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

Code ITM - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.

Code MM - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

Code IMM - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

19. Approved lock/latch models and classifications.

Smart passage latches:

Classification to EN 12209: 2003										
1	L	4	1	0	C	-	B	0	NPD	0

Smart Deadbolts:

Classification to EN 12209: 2003										
NPD	NPD	NPD	1	0	NPD	NPD	NPD	NPD	NPD	NPD

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Scope of approval

- The locks may not be fitted to timber based doorsets without perimeter intumescent fire seals fitted with the frame rebate or door edge.
- ITT door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- The Tubular range locks/latches (SmartLatch/SmartBolt) are approved with the following zinc alloy strikeplate:

width	32 mm dia. (exc. Lip)
height	32 mm dia.
Latchbolt- lip height	20 mm
Zinc alloy backbox	16 mm deep

- Only the handles detailed on page 3 are approved for use with the Jigtech system.
- The intumescent protection detailed in Section 9 of this document shall be strictly adhered to.

Further Information

Further information regarding the details contained in this certificate may be obtained from ASSA ABLOY Ltd (Tel: 0845 223 2124).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).