



CERTIFICATE OF APPROVAL

No CF 6111

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

Manufacturas Santos, S.A.

Raso de Alagoa, Ap. 19, 3754-909 Águeda

Tel: + 351 234 630680

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

**Santos Range of Mortice Locks
and Latches**

TECHNICAL SCHEDULE

**TS23 The Contribution of
Locks and Latches to The
Performance of Fire Resisting
Doorsets**

**TS 31 The Contribution Of
Emergency Exit Devices,
Operated By A Lever Handle Or
Push Pad, To The Performance
Of Fire Resisting Door
Assemblies**

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

**Paul Duggan
Certification Manager**



Issued: 10th January 2023
Audit Frequency: Annually
Valid to: 9th January 2028



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Santos Range of Mortice Locks and Latches

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. The approval applies to the EQ, EZ, HQ, PQ, WQ, QQ, WQQ and QZ mortice locks, and AR, BR, ER, EJ, HI, HR and PR narrow mortice lock identified in the Annex.
 - EQ, EZ, HQ, PQ and WQ mortice locks have a 240 mm high or 235 mm x 20 mm or 24 mm wide forend which is available square or radiused, 15.8 mm thick case, and solid brass latch and/or solid zinc deadbolt, with a minimum latchbolt projection of 10.5 mm (excluding roller bolt latches). The locks are available with backsets of 45 mm to 80 mm.
 - QQ, WQQ and QZ mortice locks mortice locks have a 240 mm or 235 mm x 20 mm or 24 mm forend which are available square or radiused, a 16 mm/17.6 mm thick case, and a split stainless steel latch and/or solid zinc deadbolt, with a minimum latchbolt projection of 10.5 mm (excluding roller bolt latches). The locks are available with backsets of 55 mm to 70 mm.
 - AR, BR, ER, HR, and PR narrow mortice locks have a 240mm x 22mm or 24mm forend which is available square or radiused, a 14mm (ER) or 16mm (others) thick case and a solid zinc latch/roller and/or solid zinc + steel deadbolt, with a minimum latchbolt projection of 10.5mm (excluding rollerbolt latches).
 - EJ and HI narrow mortice locks have a 168mm or 158mm, respectively, x 22mm or 24mm forend which is available square or radiused, a 14mm thick case and a solid zinc + steel deadbolt or solid brass roller, respectively.

Note - AR, BR, ER, EJ, HI, HR and PR Narrow Mortice Locks with zinc latchbolts shall only be fitted to proven unlatched door assemblies.

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

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of up to 60 minutes (Code ITT).

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

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5. The locks are approved on the basis of:
- Initial type testing to EN 1634-1, EN 12209 and EN 179.
 - An appraisal against TS23 and TS31 (where relevant)
 - Certification of quality management system.
 - Inspection and surveillance of factory production control
 - On-going audit testing in accordance with TS23 requirements
6. The mortice locks and/or latches shall only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) with similar size 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:
- 30 minute ITT - Timber-based assemblies:
- Door frame minimum density - 450 kg/m³
 - Door leaves shall have a minimum thickness of 44 mm.
 - Lipping minimum density - 640 kg/m³.
- 60 minute ITT - Timber-based assemblies:
- Door frame minimum density - 640 kg/m³
 - Door leaves shall have a minimum thickness of 54 mm.
 - Lipping minimum density - 640 kg/m³.
7. When fitted to insulated timber or mineral door assemblies, The required protection will be as follows:
- EQ, EZ, HQ, PQ, WQ, QQ, WQQ and QZ mortice locks for ITT30 applications - The required protection shall be 1 mm thick Interdens mono ammonium phosphate intumescent sheet material around the lock case and behind the forend and strike plate.
 - AR, BR, ER, EJ, HI, HR and PR narrow mortice lock for ITT30 applications - The required protection shall be 2 mm thick Interdens mono ammonium phosphate intumescent sheet material around the lock case and behind the forend and strike plate.

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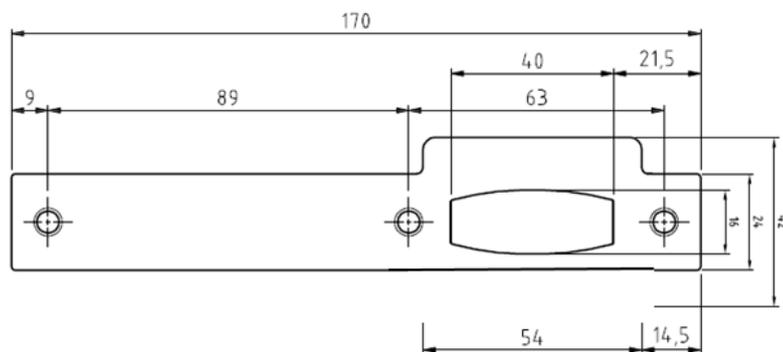
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- iii) All ITT60 applications - The required protection shall be 2 mm thick Interdens mono ammonium phosphate intumescent sheet material around the lock case and behind the forend and strike plate.
- iv) Additionally, for 60 minute ITT applications only, the perimeter intumescent within the frame/door edge shall by-pass the strike plate or forend by a minimum of 7 mm wide on each side (with the exception of the latchbolt lead where present)

Note: Failure to install the protection will invalidate this certificate

- 8. 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) and when using appropriate intumescent protection.
- 9. AR, BR, ER, EJ, HI, HR and PR Narrow Mortice Locks with zinc latchbolts shall only be fitted to proven unlatched door assemblies.
- 10. Lock assemblies with a roller bolt latch or not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
- 11. Where the locks incorporate a roller bolt latch, the strikeplate shall incorporate the latchbolt lip to the opening face only (double lipped strikeplates are not permitted), as follows:



- 12. The locks/latches should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.

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13. Recessing for locks and strikeplates shall result in a tight fit, allowing for any intumescent protection where required.

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14. The spindle hole through the door shall be a maximum of 16 mm diameter unless the doorset has test evidence that proves spindle holes of a greater size than this.
15. Cylinders shall only be fitted to doors which have previously been shown capable of accommodating the installation of cylinder locks without detriment to the doorset's performance.
16. The mortice locks may incorporate Euro profile cylinders as follows:
- i) Single cylinder
 - ii) Double cylinder
 - iii) Cylinder and thumbturn
 - iv) Brass or steel cylinders

Note: The hole in the door face shall follow the shape of the cylinders and be as tight as possible; furthermore, the single cylinders door preparation will penetrate through only half the thickness of the door leaf)

17. ITT doorsets shall be installed in accordance with BS 8214.
18. 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.

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

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

Key:

- ✓ - approved
- x - Not approved

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20. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

Code ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral 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.

21. Approved lock/latch models and classifications.

Reference	Classification to EN 12209: 2003										
602EQ	3	X	8	1	0	G	-	B	0	3	0
672EQ	3	X	8	1	0	G	4	B	A	3	0
673EQ	3	X	8	1	0	G	4	B	A	3	0
701EQ	3	X	8	1	0	G	4	B	A	0	0
702PQ	3	X	8	1	0	G	-	B	0	3	0
702HQ*	3	C	8	1	0	G	-	B	0	0	0
712EQ	3	C	8	1	0	G	4	B	A	0	0
768EQ	3	X	8	1	0	G	4	B	A	3	0
770EQ	3	X	8	1	0	G	4	B	A	3	0
772EQ	3	X	8	1	0	G	4	B	A	3	0
772EZ	3	X	8	1	0	G	-	B	0	3	0
772WQ	3	X	8	1	0	G	-	B	0	3	0
778WQ	3	X	8	1	0	G	-	B	0	3	0
785EQ	3	X	8	1	0	G	4	B	A	3	0
788EQ	3	X	8	1	0	G	4	B	A	3	0
790EQ	3	X	8	1	0	G	4	B	A	3	0
792EQ	3	X	8	1	0	G	4	B	A	3	0

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Reference	Classification to EN 12209: 2003										
605QQ	3	X	8	1	0	G	-	B	0	3	0
605QZ	3	X	8	1	0	G	-	B	0	3	0
672QQ	3	X	8	1	0	G	4	B	A	3	0
673QQ	3	X	8	1	0	G	4	B	A	3	0
772QQ	3	X	8	1	0	F	2	B	A	2	0
802QQ	3	X	8	1	0	G	-	B	0	3	0
872QQ	3	X	8	1	0	F	2	B	A	2	0
878QQ	3	X	8	1	0	G	-	B	0	3	0
872WQQ	3	X	8	1	0	G	-	B	0	3	0

401AR	3	X	8	1	0	G	4	B	A	0	0
401EJ	3	X	8	1	0	G	4	B	A	0	0
402HI	3	C	8	1	0	G	-	B	0	0	0
402HR	3	C	8	1	0	G	-	B	0	0	0
402PR	3	X	8	1	0	F	-	B	0	2	0
485AR	3	X	8	1	0	F	1	B	A	2	0
485ER	3	X	8	1	0	F	1	B	A	2	0
490AR	3	X	8	1	0	F	1	B	A	2	0
490ER	3	X	8	1	0	F	1	B	A	2	0
492AR	3	X	8	1	0	F	1	B	A	2	0
492ER	3	X	8	1	0	F	1	B	A	2	0
412ER	3	C	8	1	0	F	4	B	A	0	0
412BR	3	C	8	1	0	F	1	B	A	0	0

Reference	Classification to EN 179: 2008									
602EQ	3	7	6	B	1	4	4	2	A	B/D
672EQ	3	7	6	B	1	4	4	2	A	B/D
673EQ	3	7	6	B	1	4	4	2	A	B/D
605QQ	3	7	6	B	1	4	4	2	A	B/D
672QQ	3	7	6	B	1	4	4	2	A	B/D
673QQ	3	7	6	B	1	4	4	2	A	B/D

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Santos Range of Mortice Locks and Latches

Scope of Approval

- Where the locks incorporate a roller bolt latch, the strikeplate shall incorporate the latchbolt lip to the opening face only.
- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- ITT door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- Strikeplates/keeps - The Santos range of locks/latches are approved with a range of strikeplates/keeps. All of which are stainless steel, steel or brass and the maximum size permitted for use on all doorsets is as follows:

width	24 mm (exc. Lip)
height	200 mm
thickness	1.5 mm
Latchbolt- lip height	68 mm

- The EN179 escape locks are certified for use on single leaf doorsets only with the following accessories:

Lever Handle Model Numbers	Lock reference
Paris 1138 / 42K	672EQ 673EQ
Accessories	
AR228	Split Spindle

Lever Handles			Lock reference
Model Number	Series	Handle Shape	
XS4 ORIGINAL	Ei4xx	H	672QQ 673QQ 605QQ
XS4 ORIGINAL	Ei4xx	U	
XS4 ORIGINAL	Ei6xx	H	
XS4 ORIGINAL	Ei6xx	U	
XS4 MINI	Ei15xx	E	
XS4 MINI	Ei15xx	U	
XS4 ONE	Ei7xx	H	
XS4 ONE	Ei7xx	U	

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Further Information

Further information regarding the details contained in this certificate may be obtained from Manufacturas Santos, S.A. (Tel: + 351 234 630680).

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

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Annex

EQ, EZ, HQ, PQ and WQ mortice locks (Brass latchbolt)	
Reference	Description
602EQ	Euro Cylinder Nightlatch Anti-thrust 165 mm case & 72 mm centres
672EQ	Euro Cylinder Apartment Lock Anti-thrust 165 mm case & 72 mm centres
673EQ	Euro Cylinder Escape Lock Anti-thrust 165 mm case & 72 mm centres
702PQ	Upright Latch 165 mm case
701EQ	Euro Cylinder Deadlock 165 mm case
702HQ*	Roller Bolt Upright Latch 165 mm case
712EQ	Euro Cylinder Roller Bolt Sashlock 165 mm case & 72 mm centres
768EQ	Euro Cylinder Sashlock 165 mm case & 68 mm centres
770EQ	Euro Cylinder Sashlock 165 mm case & 70 mm centres
772EQ	Euro Cylinder Sashlock 165 mm case & 72 mm centres
772EZ*	Euro Cylinder Nightlatch 165 mm case & 72 mm centres
772WQ*	Bathroom Sashlock 165 mm case & 72 mm centres
778WQ	Bathroom Sashlock 165 mm case & 78 mm centres
785EQ	Euro Cylinder Sashlock 168 mm case & 85 mm centres
788EQ	Euro Cylinder Sashlock 168 mm case & 88 mm centres
790EQ	Euro Cylinder Sashlock 168 mm case & 90 mm centres
792EQ	Euro Cylinder Sashlock 168 mm case & 92 mm centres

QQ, QZ and WQQ mortice locks (stainless steel latchbolt)	
Reference	Description
605QQ	Euro Cylinder Nightlatch Anti-thrust 165 mm case & 72 mm centres
605QZ*	Euro Cylinder Nightlatch 165 mm case & 72 mm centres
672QQ	Euro Cylinder Escape Lock Anti-thrust 165 mm case & 72 mm centres
673QQ	Euro Cylinder Escape Lock Anti-thrust 165 mm case & 72 mm centres
772QQ	Euro Cylinder Sashlock Anti-thrust 165 mm case & 72 mm centres
802QQ	Upright Latch 165 mm case
872QQ	Euro Cylinder Sashlock 165 mm case & 72 mm centres
878QQ	Bathroom Sashlock 165 mm case & 78 mm centres

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872WQQ	Bathroom Sashlock 165 mm case & 72 mm centres
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Annex – Cont'd

AR, BR, ER, EJ, HI, HR and PR narrow mortice locks (Zinc latchbolt) *	
Reference	Description
401AR	Euro Cylinder deadlock 174 mm case (25-40 mm backsets)
401EJ	Euro Cylinder deadlock 102 mm case (20-40 mm backsets)
402HI	Roller Bolt Latch 92 mm case (25-40 mm backsets)
402HR	Roller Bolt Upright Latch 174 mm case (25-40 mm backsets)
402PR	Upright Latch 174 mm case (25-40 mm backsets)
485AR	Euro Cylinder Sashlock 174 mm case & 85 mm centres (25-40 mm backsets)
485ER	Euro Cylinder Sashlock 174 mm case & 85 mm centres (20-40 mm backsets)
490AR	Euro Cylinder Sashlock 174 mm case & 90 mm centres (25-40 mm backsets)
490ER	Euro Cylinder Sashlock 174 mm case & 90 mm centres (20-40 mm backsets)
492AR	Euro Cylinder Sashlock 174 mm case & 92 mm centres (25-40 mm backsets)
492ER	Euro Cylinder Sashlock 174 mm case & 92 mm centres (20-40 mm backsets)
412ER	Euro Cylinder Roller Bolt Sashlock 174 mm case (20-40 mm backsets)
412BR	Euro Cylinder Roller Bolt Sashlock 174mm case (25-40mm backsets)

Note - AR, BR, ER, EJ, HI, HR and PR Narrow Mortice Locks with zinc latchbolts shall only be fitted to proven unlatched door assemblies.

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