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## CERTIFICATE OF APPROVAL

### No CF 675

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

**MANUFACTURAS SANTOS SA**  
Raso De Alagoa, Apartado 19, 3754-909 Agueda, Portugal  
Tel: + 35 1234 630680 Fax: + 35 1234 644596

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

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#### CERTIFIED PRODUCT

Santos Range of Locks &  
Latches

#### TECHNICAL SCHEDULE

TS23 The Contribution of  
Locks and Latches to the  
Performance of Fire Resisting  
of 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 Exova (UK) Limited trading as  
Warrington Certification



Sir Ken Knight  
Chairman  
Impartiality Committee



Paul Duggan  
Certification Manager



Issued: 30<sup>th</sup> October 2009  
Revised: 3<sup>rd</sup> August 2016  
Valid to: 5<sup>th</sup> September 2017

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## CERTIFICATE No CF 675

### MANUFACTURAS SANTOS SA

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#### SANTOS Range of Locks and Latches

1. The locks and latches covered by this certificate are all steel cased. This approval relates to the following specific locks:

- 768EQ, 770EQ, 772EQ, 785EQ, 788EQ, 790EQ & 792EQ (Sashlock)
- 702PQ (Upright Latch)
- 701EQ (Deadlock)
- 778WQ (Bathroom Lock)
- 602EQ (Nightlatch)
- 673EQ and 672EQ (Escape Lock and Apartment Lock)
- 712EQ (Roller Latch)

Models are approved in 50, 55, 60, 65 and 80 mm backsets.

All models are approved in 20 mm and 24 mm width forend with square or radius forend.

All models are approved in SS, PSS, PBS and PB finishes

Forend and strike plate material grades 430, 304 and 316 are approved.

2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section D of the Technical Standards (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
3. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets and metallic based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.
4. 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 up to 120 minutes (Code ITT).**

**Latched and unlatched, intumescent sealed door assemblies consisting of uninsulated or insulated metal door assemblies in metal frames having a fire resistance up to 240 minutes (Code IMM).**

**Latched and unlatched, door assemblies consisting of uninsulated or insulated metal door assemblies in metal frames without intumescent seals having a fire resistance up to 240 minutes (Code MM).**

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### SANTOS Range of Locks and Latches

5. The locks are approved on the basis of:
- i) Initial type testing to EN 1634-1 and EN 12209
  - ii) An appraisal against TS23
  - iii) Certification of quality management system to ISO 9001: 2008.
  - iv) Inspection and surveillance of factory production control
  - v) On-going audit testing in accordance with TS23 requirements
6. This approval is applicable only to the specified locks/latches for use with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and, when fitted to timber based doorsets, using appropriate intumescent protection.
7. The required intumescent protection for 30 minute door assemblies will be either intumescent mastic behind the forend and strike plates and around the lock case, or 1 mm thick Interdens intumescent sheet in the same positions. 60 minute doorset assemblies shall be installed with 1 mm thick Interdens intumescent sheet behind the forend and strike plates and around the lock case. It is also required that 60 minute doorsets incorporate 4.5 mm thick, non-combustible, mineral based sub-facings.
8. 90 and 120 minute timber based door assemblies shall have previously been proven unlatched, as either single-leaf or double-leaf door assemblies as required and shall consist of timber faced and edged leaves with timber, cellulosic or mineral cores (Code ITT) not less than 57 mm thick.
9. The required intumescent protection for 90 and 120 minute door assemblies will be 2 mm thick Interdens intumescent behind the forend and strike plates and around the lock case.
10. Failure to install the required intumescent protection will invalidate this approval.
11. Lock assemblies not incorporating a latching mechanism and the 712EQ Rollerbolt lock shall only be fitted to proven unlatched door assemblies.
12. Locks may only be fitted to 90/120 minute timber doorset assemblies which have previously been proven unlatched.
13. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.

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### SANTOS Range of Locks and Latches

14. Only the 673EQ and 672EQ lock models are approved for use as an emergency exit device by TS 31 "The Contribution Of Emergency Exit Devices, Operated By A Lever Handle Or Push Pad, To The Performance Of Fire Resisting Door Assemblies" and only when fitted to single leaf doorsets with the approved accessories detailed within the classifications section of this certificate.
15. 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.
16. Timber doorsets shall be installed in accordance with BS 8214.

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

Class	Approved Door Type					
	IMM	MM	TT	ITT	ITM	ITC
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	✓	✓	✗	✗	✗	✗

See CERTIFIRE Technical Schedules for designation of doorset types i.e. ITT etc.

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#### SANTOS Range of Locks and Latches

17. Doors are classified as the following types:

**Type MM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

**Type IMM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

**Type TT** - 20 minute doorsets that consist of non-metallic leaves in timber frames that do not contain intumescent materials in the frame to leaf gap.

**Type ITT** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

**Type ITM** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

**Type ITC** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

18. 90 and 120 Minute Timber Door Assemblies – Frame Requirements

The door frame of ITT 90 and 120 minute door assemblies shall be a mineral cored construction or timber complying with the following requirements:

- Mineral cored frames: minimum dimensions of 43 mm thick by 94 mm deep with the addition of minimum 4 mm thick hardwood facings to all sides and incorporating a planted hardwood doorstop of minimum dimensions 20 mm wide by 12 mm thick and a minimum density of 650 kg/m<sup>3</sup>.
- Timber frames: shall be hardwood, having minimum dimensions of 38 mm thick by 90 mm deep with a planted hardwood doorstop of minimum dimensions 20 mm wide by 12 mm thick and a minimum density of 650 kg/m<sup>3</sup> (with leaf to frame gaps no more than 3mm).

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**SANTOS Range of Locks and Latches**

**Approved lock/latch models and classifications.**

770EQ, 772EQ, 785EQ, 788EQ, 790EQ & 792EQ Sashlocks - BS EN 12209

3	X	8	1	0	G	4	B	A	3	0
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702PQ Latch - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
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701EQ Deadlock - BS EN 12209

3	X	8	1	0	G	4	B	A	0	0
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778WQ Bathroom Lock - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
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602EQ Nightlatch - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
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673EQ & 672EQ Escape and Apartment Locks - BS EN 12209

3	X	8	1	0	G	4	B	A	3	0
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712EQ Rollerbolt Locks - BS EN 12209

3	C	8	1	0	G	4	B	A	0	0
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### SANTOS Range of Locks and Latches

#### Approved lock/latch models and classifications (continued).

673EQ & 672EQ Escape Locks and Apartment Locks - BS EN 179

3	7	6	B	1	4	4	2	A	B
3	7	6	B	1	4	4	2	A	D

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

- AR228 Split follower spindle and AR228F half spindle and AR914/915 – HS-PLATE in combination with the HOPPE (UK) handle sets referenced below.
- Paris 138 / 42K, Paris 138S / 42K, AR361/10-UN, AR361/60-UN, AR361/10-SP, AR361/13-72, AR361/60-SP, AR362/60-SP, AR362/60-UN, AR370/60, AR374/60, AR375/60, AR461/10 – SP, AR461/13-72, AR600/20 (K138/42), AR600/10 (K138/42), AR600/23-72, E138F/42, E138Z/42K, Marseille 1138/42K, Marseille E1138Z/42K, Marseille 1138/2600-72 and Paris AR200S/33-72.

#### Further Information

Further information regarding the details contained in this certificate may be obtained from Manufacturas Santos SA (Tel: + 35 1234 630680).

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