



CERTIFICATE OF APPROVAL

No CF 675

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:

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

Paul Duggan
Certification Manager



Issued: 30th October 2009
Reissued: 28th March 2018
Valid to: 31st August 2022





CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

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 (Sashlock with Rollerbolt)

Models are approved in 45, 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, in SS, PSS, PBS and PB finishes. Forend and strike plate material grades 430, 304 and 316 are approved.

2. The products identified within this certificate/assessment report are marketed under the brand names of SANTOS, VANTAGE and CODE. In all case the products are identical with only branding and packaging changing.
3. This certificate is designed specifically to demonstrate compliance of the product or system with Approved Document B (England and Wales); the Technical Handbooks (Scotland); Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflicts to be taken into account.
4. 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.
5. 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).

Page 2 of 8 Signed
W/001

Issued: 30th October 2009
Reissued: 28th March 2018
Valid to: 31st August 2022



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

6. The locks and latches are approved on the basis of:
 - i) Initial type testing to EN 1634-1 and EN 12209: 2003/EN 179: 2008 (where relevant)
 - ii) An appraisal against TS23 or TS31 (where relevant)
 - iii) Certification of quality management system.
 - iv) Inspection and surveillance of factory production control
 - v) On-going audit testing in accordance with TS23 requirements
7. 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.
8. The mortice locks and/or latches should only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987), 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:

Timber/mineral-based assemblies (Code ITT30 and ITT60):

- i) Door frame density - 450 kg/m³ (30 minutes), 640 kg/m³ (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 - 640 kg/m³.

Timber/mineral-based assemblies (Code ITT90 and ITT120):

- i) Previously been proven unlatched, as either single-leaf or double-leaf door assemblies as required.
- ii) Hardwood door frame – Hardwood having minimum dimensions of 38 mm thick by 90 mm deep with a plated hardwood doorstop of minimum dimensions 20 mm wide by 12 mm thick and a minimum density of 650 kg/m³
or
- iii) Mineral cored construction door frame - Having 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 plated hardwood doorstop of minimum dimensions 20 mm wide by 12 mm thick and a minimum density of 650 kg/m³.
- iv) Door leaves shall have a minimum thickness of 57 mm.
- v) Lipping density - 640 kg/m³.
- vi) Leaf to frame gaps 3mm or less



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

9. When fitted to insulated ITT timber or mineral composite-based door assemblies, the required intumescent protection will be as follows:
 - i) The required protection for 30 minute ITT applications will be 1 mm thickness of mono ammonium phosphate or graphite-based sheet material, around the lock case and behind the forend and strike plate.
 - ii) The required protection for 60 minute ITT applications will be 1 mm thickness of mono ammonium phosphate or graphite-based sheet material around the lock case and behind the forend and strike plate. Additionally the perimeter intumescent fire seal 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 lip where present).
 - iii) The required protection for 90 minute and 120 ITT applications will be 2 mm thickness of mono ammonium phosphate or graphite-based sheet material around the lock case and behind the forend and strike plate. Additionally the perimeter intumescent fire seal within the frame/door edge shall by-pass the strike plate or forend by a minimum of 9.5 mm wide on the opening side (with the exception of the latchbolt lip where present), and a minimum of 17.5 mm on the closing side.

Note: Failure to install the intumescent protection will invalidate this certificate

10. Lock assemblies not incorporating a latching mechanism and the 712EQ sashlock with rollerbolt lock shall only be fitted to proven unlatched door assemblies.
11. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
12. Timber doorsets shall be installed in accordance with BS 8214.
13. 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.
14. 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.

Page 4 of 8 Signed
W/001

Issued: 30th October 2009
Reissued: 28th March 2018
Valid to: 31st August 2022



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

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

Class	Approved Door Type				
	IMM	MM	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	✓	✓	✗	✗	✗

Key:

- ✓ - approved
- ✗ - Not approved



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

16. 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 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.

SANTOS Range of Locks and Latches

Approved lock/latch models and classifications.

768EQ, 770EQ, 772EQ, 785EQ, 788EQ, 790EQ & 792EQ Sashlocks - BS EN 12209

3	X	8	1	0	G	4	B	A	3	0
---	---	---	---	---	---	---	---	---	---	---

702PQ Latch - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
---	---	---	---	---	---	---	---	---	---	---

701EQ Deadlock - BS EN 12209

3	X	8	1	0	G	4	B	A	0	0
---	---	---	---	---	---	---	---	---	---	---

778WQ Bathroom Lock - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
---	---	---	---	---	---	---	---	---	---	---



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

Approved lock/latch models and classifications - Continued.

602EQ Nightlatch - BS EN 12209

3	X	8	1	0	G	-	B	0	3	0
---	---	---	---	---	---	---	---	---	---	---

673EQ & 672EQ Escape and Apartment Locks - BS EN 12209

3	X	8	1	0	G	4	B	A	3	0
---	---	---	---	---	---	---	---	---	---	---

712EQ Sashlock with Rollerbolt - BS EN 12209

3	C	8	1	0	G	4	B	A	0	0
---	---	---	---	---	---	---	---	---	---	---

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

Approved Scope

- The following maximum dimension of strikeplate are approved :

width	25 mm (exc. Lip)
height	170 mm
Latchbolt- lip height	54 mm

- 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.



CERTIFICATE No CF 675

MANUFACTURAS SANTOS SA

SANTOS Range of Locks and Latches

Approved Scope - Continued

- Locks may only be fitted to 90/120 minute ITT timber/mineral-based doorset assemblies which have previously been proven unlatched.
- Lock assemblies not incorporating a latching mechanism and the 712EQ Rollerbolt lock shall only be fitted to proven unlatched door assemblies.

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).

Page 8 of 8 Signed
W/001

A handwritten signature in black ink that reads "Paul Leggett".

Issued: 30th October 2009
Reissued: 28th March 2018
Valid to: 31st August 2022