



This certificate of compliance validates the following

TEST REPORT NUMBER¹⁾:	89 4 132 35-81448 23 0297 9 90 19453 3580/396/07 2200/628/16 3359/810/10 2201/029/17 2200/923/17	CERTIFICATE NUMBER:	MPA BS-Z-078/18
DATE OF ISSUE:	1989-07-27 1991-05-03 1991-02-01 1995-05-02 2010-02-04 2016-11-29 2010-08-19 2017-12-18 2017-07-24	DATE OF ISSUE:	2018-03-27
DATE OF EXPIRY:	N/A	DATE OF EXPIRY:	2023-03-26

¹⁾ see also the additional document on the back of this certificate

NAME OF FACTORY/ MANUFACTURER:	SOMMER Fassadensysteme – Stahlbau - Sicherheitstechnik GmbH & Co. KG	NAME OF THE BRAND:	Door series 'System SOMMER - S1'	CERTIFICATION MARK:	
FACTORY ADDRESS/REGION:	Industriestr. 1 D-95182 Döhlau Germany Tel: ++49(0)9286-60-0 Fax: ++49(0)9286-60-498 Email: info@sommer-hof.de	MODEL/NO: LOGO ON THE PRODUCT:	T90		
					

DESCRIPTION OF THE PRODUCT:	Special purpose type fire door: Various single-leaf and double-leaf security steel door sets made from steel sheets filled with fire protection plates and stiffening as pivot doors with single action.
TEST STANDARD:	DIN 4102-5
TEST DESCRIPTION:	All tests are a testing program for a complete door series with various installations and fittings for the general assessment for Germany (no. Z-6.20-2070, issued from DIBt in Berlin, the state authority of German governments (Centre of Competence for Construction): Tests were performed in furnaces at temperatures of up to 1,000°C on single-leaf and double-leaf doors both with exposure at the pull-side (opening side) and the push-side (closing side). Additional tests were made for alternative versions and bigger sizes. The frames were installed in a masonry-wall or in a concrete-wall. The testing times were from 95 min. up to 121 min.

SPECIFICATION OF TEST SPECIMEN:

894132: The single-leaf doors tested had a clear opening size of the frame of $w \times h = 1,160\text{mm} \times 2,205\text{mm}$, the dimension of the leaf was $w \times h = 1270\text{mm} \times 2255\text{mm}$. The doors had a mortise lock with a latch in according to DIN18250. The frame was installed in a masonry-wall 240mm thick.

35-81448: A further single-leaf door with a larger height and an additional stiffening had a clear opening size of the frame of $w \times h = 1,160\text{mm} \times 2,455\text{mm}$, the dimension of the leaf was $w \times h = 1,270\text{mm} \times 2,505\text{mm}$. The doors had a mortise lock with a latch in according to DIN18250. The frame was installed in a masonry-wall 240mm thick.

230297990: The double-leaf doors tested had a clear opening size of the frame of $w \times h = 2,410\text{mm} \times 2,455\text{mm}$ with equal leaves (widths of active/passive leaf $w = 1,284\text{mm} / 1,291\text{mm}$ and the height $h = 2,505\text{mm}$). The doors had a mortise lock with a latch in according to DIN18250 in the active leaf and a lock with upper locking in the passive leaf. The frame was installed in a masonry-wall 240mm thick.

19453: Another single-leaf door had a clear opening size of the frame of $w \times h = 1,160\text{mm} \times 2,455\text{mm}$, the dimension of the leaf was $w \times h = 1270\text{mm} \times 2505\text{mm}$. The door had a reinforced leaf and a self-locking multi-point-lock. The frame was installed in a masonry-wall 240mm thick.

3580/396/07 und 2200/628/16: Two further single-leaf doors had a clear opening size of the frame of $w \times h = 1,160\text{mm} \times 2,205\text{mm}$, the dimension of the leaf was $w \times h = 1,270\text{mm} \times 2,253\text{mm}$. The doors had a mortise lock with a latch in according to DIN18250 resp. EN12209. One door had a concealed cable loop from the leaf to the frame and several electrical installations. The frame was installed in a masonry-wall 240mm thick.

3359/810/10: A further double-leaf door of larger sizes had a clear opening size of the frame of $w \times h = 2,900\text{mm} \times 2,955\text{mm}$ with equal leaves (widths of active/passive leaf $w = 1,531\text{mm} / 1,534\text{mm}$ and the height $h = 3,003\text{mm}$). The door had a mortise lock with a latch in according to DIN18250 and an additional upper locking in the active leaf with a panic bar and a lock with upper and lower locking in the passive leaf. In the leaves were an automatic bottom sealing installed. The frame was installed in a concrete-wall 140mm thick.

2201/029/17 und 2200/923/17: Two further double-leaf doors had a clear opening size of the frame of $w \times h = 2,410\text{mm} \times 2,330\text{mm}$ with equal leaves (widths of active/passive leaf $w = 1,286\text{mm} / 1,289\text{mm}$ and the height $h = 2,378\text{mm}$). The doors had a mortise lock with a latch in according to DIN18250 resp. EN12209 in the active leaf and a lock with upper locking in the passive leaf. One of the doors was with a panic bar and the other with a handle set. The frame was installed in a concrete-wall 140mm thick.

All doors had a leaf-thickness of 64mm, made with steel sheets 1,5mm thick with stiffening inside of the leaf and a filling with fire protection plates. The frame was made of steel sheet 2,5mm with bonded intumescent strips in the gaps between the leaf and the frame. The doors had steel hinges, security bolts in the leaf to the frame at the side of the hinges to limit the deformation of the leaf. All doors were self-closing with a surfaced mounted door closer and the double-leaf doors had a closing-coordinator system.

TEST RESULT:

MAINTENANCE OF FUNCTION CLASSIFICATION	INTERPRETATION	RESULT
	PASSED	All doors: T90

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All test facilities accepted for tests to DIN 4102-5 from DIBt in Berlin, the state authority of German governments (Centre of Competence for Construction).

PRODUCT APPLICATION GUIDELINE (END USE):

The sizes of the doors may be reduced but not enlarged. All alterations must meet the requirements of the German assessment no. Z-6.20-2070 from DIBt Berlin. - The doors must be used according to the provisions in the manufacturer's manual. Prior to assembly and installation the personnel must be instructed.



The above certificate is valid only when installed in accordance with the 'Product Application Guideline (End Use)'. To verify the validity of the product please log into our website, click on 'certification' and then on 'list of certificates'. You will find a list of manufacturers and a certificate with the number as given above.

THE LIST OF ACCREDITED TESTS (FIRE AND LIFE SAFETY PRODUCTS ONLY)

TEST STANDARD	TITLE
DIN 4102-5	Fire Behaviour of Building Materials and Building Components; Fire Barriers, Barriers in Lift Wells and Glazings Resistant against Fire; Definitions, Requirements and Tests

Additional documents

- 3190/822/10 of 2010-01-29 Expert opinion for Deutsches Institut für Bautechnik, Berlin on the general type approvals No. Z-6.11-1325 and No. Z-6.13-1378
- 3304/554/10 of 2011-03-28 Expert opinion about a modified approval procedure for Deutsches Institut für Bautechnik, Berlin on the general type approvals No. Z-6.20-2070
- General type approval No. Z-6.20-2070 of 2015-03-05