



Expert's report No. 45-22/21

Fundamentals

DIN EN 1627-1630:2011-09, RC3
Test-/ Summary report 45-2121

Applicant

dormakaba Deutschland GmbH
DORMA Platz 1
D-58256 Ennepetal

Product

ST PRO Green RC3

As an extension of the above mentioned
fundamentals the following components/versions

Construction
(1-leaf and 2-leaf sliding door system with and without fixed side
elements as well as with and without multi-part fixed glazed fanlight)

Element dimensions
(Specified in table)

Profiles
(Wall installation profile 325536 with clips profile 325546,
wall installation profile 325578)

Filling
(P5A glazing)

will be approved. The otherwise identical
construction of the burglar-resistance element is
a prerequisite.

Date of expert's report

26. November 2021

Volume of expert's report

1 Page cover,
4 Pages expert's report,
16 Pages annexes

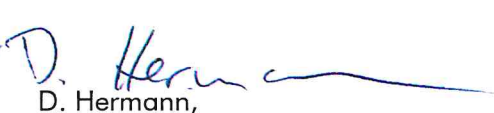
Additional conditions regarding this
expert's report

The expert's report is valid as long as the testing-
base and/or the tested products are not changed.
It is not allowed to modify or partially publish the
expert's report.

Signature


S. Holz,
State-certified technical engineer
Laboratory management




D. Hermann,
State-certified technical engineer
Verifier



Technical assessment

In addition to the 1-leaf and 2-leaf sliding door system with fixed side elements and fanlights described in the test-/ and summary report 45-21/21 the constructions and nonconformities are approved by this expert's report:

Construction

Compared to the tested sliding door systems, all constructions approved from the table below according to annex page 1 to 10. Based on the determined results of the tests and after review of the documentation, it can be assumed that the different constructions do not have a negative influence on the static and dynamic load and also not on the manual tool attack.

Tested constructions	Approved constructions by expert's report
<p>Automatic sliding door system, 2-leaf with fixed glazed side panels and three-part fixed glazed fanlight as passageway installation</p> <p>Burglar-resistant automatic sliding door system, 1-leaf without side panels as wall mounting</p>	<p>Version of elements as 1-leaf and 2-leaf sliding door systems optionally</p> <p>with and without fixed glazed side panels (on one- or both sides)</p> <p>with and without fixed glazed fanlights (two- to four-part)</p> <p>with and without horizontal bars (provided that the connection to the frame profiles corresponds to the tested condition of the frame corner connection)</p> <p>with drive heights 100 mm and 150 mm</p> <p>Installation carried out as wall mounting and passageway mounting</p> <p>Installation in mullion-transom constructions, tested as burglar-resistant component of resistance class RC 3 or higher with position of the profiles / screw connections in the mullion or transom area</p>



Element dimensions

Deviating from the element dimensions shown in the test- and summary report are approved element dimensions of the table below according to annex page 11. Based on the determined results of the tests and after review of the documentation, it can be assumed that the different sizes do not have a negative influence on the static and dynamic load and also not on the manual tool attack.

Tested element dimensions	Approved element dimensions by expert's report
<p>2-leaf with leaf dimensions 1408,5 width and 2798 mm height or 683 width and 2798 mm height as passage installation</p> <p>1-leaf with leaf dimensions 817 x 2798 mm for wall mounting</p>	<p>2-leaf automatic sliding door system with the leaf dimensions 558,50 mm to 1558,50 mm width 2048 mm to 3098 mm height</p> <p>with the side panel dimensions 598,50 mm to 1600 mm width 2060 mm to 3110 mm height</p> <p>with the fanlight sizes up to 3146 mm width up to 1500 mm height (depending on the manufacturability of the glasses)</p> <p>System dimensions 1000 mm to 3000 mm clear width 2050 mm to 3100 clear height 2197 mm to 6200 mm total system width (Tested construction joints and dimensions of the locking points from the corners (+10% / -20 %) measured to the middle of the locking point must be observed.)</p> <p>Maximum leaf weight per moving leaf 200 kg</p> <p>1-leaf automatic sliding door system with the leaf dimensions 767 mm to 3067 mm width 2048 mm to 3098 mm height</p> <p>with the side panel dimensions 807 mm to 3079 mm width 2060 mm to 3110 mm height</p> <p>with the fanlight sizes up to 3146 mm width up to 1500 mm height (depending on the manufacturability of the glasses)</p>



Tested element dimensions	Approved element dimensions by expert's report
1-leaf with leaf dimensions 817 x 2798 mm for wall mounting	System dimensions 700 mm to 3000 mm clear width 2050 mm to 3100 mm clear height 1628 mm to 6200 mm total system width (Tested construction joints and dimensions of the locking points measured from the corners (+10% / -20 %) to the middle of the locking point must be observed. For clear opening widths > 1500 mm with 3rd carriage on centre of moving leaf) Maximum leaf weight 250 kg

Hardware

Compared to the tested hardware are approved the hardware from the table below. Based on the determined results of the tests and after review of the documentation, it can be assumed that the different hardware do not have a negative influence on the static and dynamic load and also not on the manual tool attack.

Tested hardware	Approved hardware by expert's report
multitronic 881 multipoint locking system with 5 swivel hooks (type 5-00-794-02) of the company CARL FUHR GmbH & Co. KG Striking base plate 25715302150 Lock case 25813301650 Hook bar 32556600120 Guide rail 32543101120 Anti-lift device 25819400140 of the company dormakaba Deutschland GmbH	multitronic 881 multipoint locking with 5 swivel hooks (type 5-00-794-02) of the company CARL FUHR GmbH & Co. KG with hand operated release dormakaba item no. 258133 with tubular frame mortise lock 299 and profile cylinder according to DIN 18252:2006-12 (Class 21-, 31, 71-BZ) and hand operated release via bowden cable dormakaba item no. 258200 min. 2 anti-lift devices per moving leaf (1 piece per carriage)

Profile versions

In addition to the tested profiles of the profile system dormakaba ST PRO Green, the profile versions from the table below according to annex 12 to 16 will be also approved by this expert's report. Based on the determined results of the tests and after review of the documentation, it can be assumed that the different profiles and types of wood do not have a negative influence on the static and dynamic load and also not on the manual tool attack.

Tested profile versions	Approved profile versions by expert's report
2-leaf with lateral structural connection of fixed elements side part and fanlight with wall connection profile 325536 in conjunction with clip profile 325546	Version with the following profiles for the structural connection of the fixed elements side part and fanlight: Wall connection profile 325536 in combination with clip profile 325546 or wall connection profile one-piece 325578



Fillings

All fillings approved according to the table below by this expert's report. Based on the determined results of the tests and after review of the documentation, it can be assumed that the alternative fillings do not have a negative influence on the static and dynamic load and also not on the manual tool attack.

Tested fillings	Approved fillings by expert's report
3-fold insulating glass GEWE-therm, VSG 8,76 – SZR 14 – ESG 5 – SZR 14 – ESG 5	All P5A 2-fold insulating glazing with a glass thickness of 34 mm (34,28 mm) with a verification in class P5A according to EN 356
3-fold insulating glass HERO-TOP S, VSG P5A 11mm – SZR 12 – ESG 6 – SZR 12 – ESG 6	All P5A 3-fold insulating glazing with a glass thickness of 46 mm to 50 mm (46,28 mm to 50,28 mm) with a verification in class P5A according to EN 356
P5A 2-fold insulating glass GEWE-safe – VSG P5A 10,28 – SZR 12 – ESG 6 – SZR 12 – ESG 6	Fully bonded all around with Sikaflex-221

Applicable conditions

The identical construction of the elements, as described in the above named fundamentals are required.

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Annexes

Page 1 to page 16

D-42551 Velbert, 26. November 2021