Application report

Fire and smoke control door assembly

No.: 15-003750-PR01
(EXAP-C04-01-en-02)

Client	Hydro Building Systems Germany GmbH Einsteinstr. 61 89077 Ulm (Germany)
Prepared by the notified body	**ift** Rosenheim GmbH Theodor-Gietl-Straße 7-9 83026 Rosenheim (Germany) Notified Body 0757
Product	Fire and smoke control door assembly
Product name	"WICLINE 75FP"
Object	Application report

ift Rosenheim
16.07.2018

ift Rosenheim
Notifizierte Prüf- Überwachungs- und Zertifizierungsstelle
PÜZ
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Basis

EN 1634-1:2014+A1:2018
EN 1634-3:2004/AC:2006
EN 1191:2012
EN 13501-2:2016
EN 15269-5:2014+A1:2016
EN 15269-20:2009
EN 16034:2014
EN15269-1:2010
EN 15725:2010+AC:2012

Instructions for use

This report is used to determine the extended application area of an element. This report does not replace the classification report according to EN 13501-2.

Note

The extended application results relate to the behaviour of a product/product family or building element under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family or building element in use.

Validity

This report loses its validity with the invalidation of the classification report or one of the test reports.

Notes on publication

The **ift** Guidance Sheet "Conditions and Guidance for the Use of **ift** Test Documents" applies.

Contents

The report consists of 53 pages including annex.

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1 Basis

1.1 Version note

This is a translation of the German report 15-003750-PR01 (EXAP-C04-01-de-02) dated 11.07.2018.
The original issue in German 15-003750-PR01 (EXAP-C04-01-de-02) dated 11.07.2018 is the second issue and based on the previous issue 15-003750-PR01 (EXAP-C04-01-de-01) dated 26.07.2017.

1.2 Test method

This extended application report concerns test results obtained in accordance with test method:

EN 1634-1:2014+A1:2018: Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows

EN 1634-3:2004/AC:2006: Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies

EN 1191:2012: Windows and doors - Resistance to repeated opening and closing - Test method

1.3 Standard of the extended application

The procedure of determination of the extended application is carried out in conformity with the following extended application standards:

EN 15269-5:2014+A1:2016: Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware - Part 5: Fire resistance of hinged and pivoted metal framed glazed doorsets and openable windows

EN 15269-20:2009: Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware - Part 20: Smoke control for hinged and pivoted steel, timber and metal framed glazed doorsets

1.4 Product technical specifications

In the procedure for determining the extended application, rules from the following product standard are also applied, if applicable:

EN 16034:2014: Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resistance and/or smoke control characteristics

2 Details of product

2.1 Type of function

The fire and/or smoke control door assembly is a single leave window consisting of leafs and frames of aluminium.

The product "WICLINE 75FP" is defined as a single leaved fire and/or smoke control door assembly.

Its function is to resist fire exposure on one face according to the fire performance characteristics set out in the case of fire in clause 5 of EN 13501-2 on the opening face or closing face (clause 5.2.2, 5.2.3 and 5.2.4). The element has the ability to reduce or eliminate the passage of cold gases or smoke from one side of the element to the other (clause 5.2.7). The element has the ability to close fully into its frame from an open position (clause 5.2.6).
An exposed face is not determined.

2.2 Description

The element is fully described in the table under point 5 and in the annex.
In addition, detailed descriptions and other variants were agreed with the notified body within the product documentation (stamp, date 11 July 2018).

2.3 Product family

The product family is as described by the manufacturer as follows.

The product is defined as a window with fire and / or smoke-separating capability and an ability to close.

3 Test reports and test results

3.1 Test reports according to EN 1634-1

The assessment is based on the following documents. Unless otherwise specified, the owner of this report is the holder of the test reports.
Note: The indication of the respective test report holders differs from the client of this report. This is due to a change of name (formerly Sapa Building Systems GmbH).

Table 1: Test report according to EN 1634-1 regarding fire resistance

No.	Test report / notified body	Date of test	Tested face	Test size	Results / Cat.	rel. deflec-tion	Wall system
[F1]	11-000483-PR01 (PB-C04-01-de-01) / 0757	23.03.11	Opening face	1290 x 2190 / 1110 x 2010	E 35 EI_2 35 / A	low	Associated supporting construction WICTEC 50FP
[F2]	11-000819-PR01 (PB-C04-01-de-01) / 0757	05.04.11	Closing face	1290 x 2190 / 1110 x 2010	E 30 EI_2 30 / A	low	Associated supporting construction WICTEC 50FP
[F3]	11-001634-PR01 (PB-C04-01-de-02) / 0757	01.07.11	Closing facee	2970 x 2970 / 1110 x 2010	E 28 EI_2 28	low	Associated supporting construction WICLINE 75FP
[F4]	11-002352-PR01 (PB-C04-01-de-01) / 0757	16.08.11	Closing face	1260 x 2570 / 1110 x 2010	E 38 EI_2 38 / B	low	Standard supporting construction with low density, d = 150 mm (sublight)
[F5]	11-003562-PR01 (PB-C04-01-de-01) / 0757	11.01.12	Opening face	1240 x 2240 / 1110 x 2110	E 37 EI_2 37 / B	low	Standard flexible supporting construc-tion, d = 87,5 mm
[F6]	13–V-844 / 1812	21.10.13	Opening face	2960 x 2960 / 1240 x 2190	E 34 EI_2 34 / A	medium	Associated supporting construction WICLINE 75FP
[F7]	13-002569-PR01 (PB-C04-01-de-01) / 0757	04.09.13	Closing face	1510 x 2510 / 1240 x 2240	E 38 EI_2 38 / B	low	Standard supporting construction with low density, d = 175 mm (front mounted)
[F8]	13-002569-PR02 (PB-C04-01-de-01) / 0757	02.09.13	Opening face	1370 x 2370 / 1240 x 2240	E 38 EI_2 38 / B	medium	Standard supporting construction with low density, d = 175 mm
[F9]	DMT-DO-50-279 / 2509	01.07.15	Opening face	2960 x 2960 / 1240 x 2190	E 34 EI_2 34 / A	low	Associated supporting construction WICLINE 75FP

No.	Test report / notified body	Date of test	Tested face	Test size	Results / Cat.	rel. deflec-tion	Wall system
[F10]	DMT-DO-50-278 / 2509	02.07.15	Opening face	1370 x 2370 / 1240 x 2240	E 40 EI_2 40 / B	low	Standard supporting construction with low density, d = 150 mm
[F11]	16-003899-PR01 (PB-C04-01-en-02) / 0757	21.12.16	Closing face	1370 x 2370 / 1240 x 2240	E 30 EI_2 30 / A	low	Standard supporting construction with low density, d = 150 mm
[F12]	17-000889-PR03 (PB-C04-01-en-01) / 0757	24.10.17	Closing facee	1870 x 2870 / 1240 x 2240	E 37 EI_2 35 / A	low	Standard supporting construction with low density, d = 150 mm (front mounted)

The sampling procedure was examined. The confirmation according to EN 16034 is given. The supporting constructions were conditioned in accordance with EN 1363-1. The conditioning of the test specimen according to EN 16034 was carried out and was positively.

Following deviations to the test standard were ascertained:
[F7] and [F8]: During the tests, a furnace pressure of approx. 20 Pa was set at the upper edge of the elements. Since this represents a more critical test situation, especially at the lower edge of the elements, which were thus in the overpressure range, the results are fully usable in the sense of EN 1634-1.

The tests [F1] to [F6] and [F9] to [F12] did not show any deviations from the test procedure.

Note on the test results: In accordance with EN 15269-5 paragraph 4.4.3 test results with failure based on specific parameter may be used to apply other design parameters within the area of extended application, if the specific parameter can be excluded. This applies to following tests:

Comment on test [F3]:
During the test, the upper connection of the glass in the sash came loose from the 25th minute. At the 29th minute a cotton pad test was carried out in this area, whereby integrity was lost due to the ignition of the cotton pad. Also a penetration of the 6 mm gap gauge was possible. The test was continued until the 37th minute.
Three glass clamps were arranged in the upper area of the test specimen, whereby the centrally arranged off-centre was placed at a distance of 600 mm. For the other tests in Table 1, three glass clamps were also used, one in the middle. Since this arrangement demonstrably meets the criteria for the enclosure of EN 1634-1 within at least 30 minutes, it can be assumed that, taking these distances into account, no failure would have occurred even with [F3] (see point 6.6.4). The results of the test are therefore used in full in the following.

3.2 Test reports according to EN 1634-3

The assessment is based on the following documents. Unless otherwise specified, the owner of this report is the holder of the test reports.
Note: The indication of the respective test report holders differs from the client of this report. This is due to a change of name (formerly Sapa Building Systems GmbH).

Table 2: Test report according to EN 1634-3 regarding smoke density

No.	Test report / notified body	Date of test	Tested face	Test size	Results	Wall system
[S1]	17-000887-PR02 (PB-C05-14-de-02) / 0757	11.10.17	both sides	1240 x 2280 / 1370 x 2450	S_a 0,55 m^3/h/m	Standard flexible supporting construction, d = 100 mm
[S2]	17-000889-PR02 (PB-C05-14-de-02) / 0757	11.10.17	both sides	1870 x 2870 / 1240 x 2240	S_a 2,39 m^3/h/m	Standard supporting construction with low density, d = 150 mm (front mounted)

The sampling procedure was examined. The confirmation according to EN 16034 is given. The supporting constructions were conditioned in accordance with EN 1363-1. The conditioning of the test specimen according to EN 16034 was carried out and was positively.

No deviations to the test standard were ascertained.

3.3 Test reports according to EN 1191

The assessment is based on the following documents. Unless otherwise specified, the owner of this report is the holder of the test reports.
Note: The indication of the respective test report holders differs from the client of this report. This is due to a change of name (formerly Sapa Building Systems GmbH).

Table 3: Test report according to EN 1191 regarding durability

No.	Test report / notified body	Date of test	Tested face	Test size	Cycles / weight	Wall system
[D1]	11-001340-PR01 (PB-C05-03-de-01) / 0757	03.05.11 - 09.05.11	-	1100 x 2010 / 1290 x 2190	10,000 / 150 kg	Associated supporting construction WICTEC 55FP
[D2]	11-001340-PR03 (PB-C05-03-de-01) / 0757	26.07.11 - 05.08.11	-	1130 x 2030 / 1310 x 2210	50,000 / 150 kg	Associated supporting construction WICLINE 75FP
[D3]	17-000887-PR01 (PB-C05-03-de-02) / 0757	07.09.17 - 11.09.17	-	1240 x 2280 / 1370 x 2450	10,000 / 160 kg	Standard flexible supporting construction, d = 100 mm
[D4]	17-000889-PR01 (PB-C05-03-de-02) / 0757	06.09.17 - 08.09.17	-	1870 x 2870 / 1240 x 2240	10,000 / 200 kg	Standard supporting construction with low density, d = 150 mm (front mounted)

The sampling procedure was examined. The confirmation according to EN 16034 is given.
The supporting constructions were conditioned in accordance with EN 1363-1.

No deviations to the test standard were ascertained.

3.4 Validation

The test reports according to older editions of the respective test standards were validated with regard to the currently valid test standards. The results given in 3.1 to 3.3 can be used.

3.5 Reference tests

The following tests are used as reference tests for the extended application:

Reference tests according to EN 1634-1: [F10] und [F11]
Reference tests according to EN 1634-3: [S1]
Reference tests according to EN 1191: [D1]

4 Field of application

4.1 Direct application

The direct application is the subject of the test reports.

4.2 Extended application

Principles applied for the extension of the field of application.

This extended application procedure is based on:

Method 1: Established influence(s) of product and end-use parameters in accordance with:

- the relevant extended application standard EN 15269-5 and EN 15269-20

and/or

Method 3: Additional test results on several products /end-use parameters

5 Extended application results

5.1 Field of application - Product family

All changes have been singularly reviewed during the analysis of the field of extended application. Afterwards the effects of combining different, relevant changes have been considered. If combinations are not possible, hereafter it will be clearly referred to respectively restrictions will be defined.

Preliminary note: references to tests will be marked with […] that referenced to the documents mentioned under point 5, rules of the direct field of application of the test standards are signed with "DA …", rules of the extended application are mentioned by referring to the numeration of the respective part of standard (EN 15269-xx).
If a design parameter are not possible for a characteristics there are found the comment "not classified".

No.	Design parameter	Drawing	EI_2 30	S_a	C2
1	**Door leaf**				
1.1	Singel leaf door		Table 1	Table 2	Table 3
1.1.1	Clear opening (W x H) from 440 x 540 mm to 1,240 x 2,240 mm		[F10] [F11] [F12]	[S1] [S2]	[D1] [D2] [D3] [D4]
1.1.2	Leaf dimension (W x H) from 500 x 600 mm to 1,300 x 2,300 mm		[F10] [F11] [F12]	[S1] [S2]	[D1] [D2] [D3] [D4]
1.1.3	Outer dimensions (W x H) from 570 x 670 mm to 1,870 x 2,870 mm		[F12]	[S2]	[D4]
1.2	Profiles in sash (sash profiles type A) Profile shells made of EN AW-6060 T66, Insulator made of glass fibre reinforced PA Representation stored				
1.2.1	Profiles, type A, four-sided circumferentially Item no. / W x T				
1.2.1.1	1910146 / 87 x 85 mm		[F3] [F4] [F5] [F6] [F7] [F9]	[S1]	[D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
			[F10] [F11]		
1.2.1.2	1910147 / 97 x 85 mm		[F1] [F8]	[S1] [S2] repre-sentative	[D1]
1.2.1.3	1917115 / 107 x 85 mm		[F2] [F12]	[S2]	[D2] [D4]
1.2.2	Insulation				
1.2.2.1	Restoration board RP-TF alternative to 1.2.2.2		[F3] [F4] [F5] [F6] [F7] [F8] [F9] [F10] [F11] [F12]	[S1] [S2]	[D2] [D3] [D4]
1.2.2.2	Floorock GF alternative to 1.2.2.1		[F1] [F2]	not classified	[D1]
1.2.2.3	optionally additional Fermacell Profile shell opening surface		with: [F1] [F2] [F3] [F4] [F5] without: [F6] [F7] [F8] [F9] [F10] [F11] [F12]	with: DA 13.2.2.2 b) without: [S1] [S2]	with: [D1] [D2] without: [D3] [D4]
1.3	Intumescent material Item no. / dimensions / material / position				
1.3.1	Variant 1				
1.3.1.1	4090122 / 1.2 x 15 mm 199178 / 1.2 x 20 mm Kerafix Flexpress 100, self-adhesive stop additionally to 1.3.1.2		[F1] [F2] [F3] [F4] [F5]	[S1] [S2] repre-sentative	[D1] [D2]
1.3.1.2	4090121 / Profil 5.8 x 8.1 mm / Promaseal LX 1x all around in the thermal break + 1x all around in the re-bate, stop additionally to 1.3.1.1		[F1] [F2] [F3] [F4] [F5]	[S1] [S2] repre-sentative	[D1] [D2]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
1.3.2	Variant 2				
1.3.2.1	4090121 / Profil 5.8 x 8.1 mm / Promaseal LX 2x all around in the thermal break alternative to 1.3.1.1 und 1.3.1.2		[F6] [F7] [F8] [F9] [F10] [F11] [F12]	[S1] [S2]	[D3] [D4]
1.4	Gasket (not intumescent)				
1.4.1	Stop gasket 4010045, EPDM		[F1] - [F12]	[S1] [S2]	[D1] - [D4]
1.4.2	Stop gasket 4010245, EPDM (grey)		A.3.22	[S1] [S2] repre-sentative	[D1] - [D4] repre-sentative
1.5	Corner angle				
1.5.1	Aluminium cast corner angle adapted to the profile geome-tries Fastening with conical screws		Table 1	Table 2	Table 3
1.6	Further details				
1.6.1	Weather bar 3091045; sealing with tubular gasket 4010117		[F10] [F11]	[S1] [S2] repre-sentative	[D1] - [D4] repre-sentative
1.6.2	Decorative strip / profile				
1.6.2.1	With identical rigidity structure of the sash and provide the op-posite side is not pierced		A.4.19	A.5.17	EN 1191 point 6
1.6.3	Decorative coatings / laminates (sash and frame)				
1.6.3.1	Coatings without contribution to the fire resistance		DA 13.2.3.1 / A.4.1 / A.4.2	DA 13.2.1 a)	DA H 4.2
1.6.3.2	Decorative coatings on the sur-face d ≤ 1.5 mm		DA 13.2.3.2	DA 13.2.1 a)	DA H 4.2
1.7	Sash shape rectangular		Table 1	Table 2	Table 3
2	**Frame**				
2.1	Profile shells made of EN AW-				

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	6060 T66, Insulator made of glass fibre reinforced PA Representation stored				
2.1.1	Frame profiles when connected to standard bearing construction (without top and lateral parts), type B, four-sided circumferentially Item no. / W x T		[F4] [F5] [F7] [F8] [F10] [F11] [F12]	[S1] [S2]	[D3] [D4]
2.1.1.1	1311073 / 65 x 75 mm		[F5] [F8] [F10] [F11]	[S1]	[D3]
2.1.1.2	1910148 / 75 x 75 mm		[F4] [F12]	[S2]	[D4]
2.1.1.3	1010598 / 85 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.4	1311585 / 95 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.5	1917067 / 95 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.6	1311352 / 125 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.7	1910172 / 155 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.8	1311700 / 174,5 x 75 mm		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.9	1917204 / 90 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.10	1910175 / 90 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.11	1910149 / 100 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.12	1917206 / 110 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.13	1917207 / 120 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.14	1917208 / 130 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.15	1917209 / 140 x 75 mm		B.3.1	B.2.1	from [D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	(T-profile)				and [D4]
2.1.1.16	1917211 / 160 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.17	1917213 / 180 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.18	1917215 / 200 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.19	1917220 / 250 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.20	1917224 / 290 x 75 mm (T-profile)		B.3.1	B.2.1	from [D3] and [D4]
2.1.1.21	Coupling profiles optionally (W_{max} = 315 mm) Screwed at the back through both profile shells with St 4.8 x 78 (minimum length, adapted to the profile width) Sealing via 2x 4010047	DOC-0000953227 1500255	B.3.4 + [F7] [F12]	[S2]	[D4]
2.1.1.21.1	1010595 / 40 x 75 mm		B.6.7	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.2	1010596 / 50 x 75 mm		B.6.7	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.3	1010597 / 60 x 75 mm		B.6.7	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.4	1917060 / 70 x 75 mm		[F7]	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.5	1311972 / 80 x 75 mm		B.3.6	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.6	1311540 / 90 x 75 mm		B.3.6	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.7	1917350 / 110 x 75 mm		B.3.6	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.8	1917351 / 130 x 75 mm		[F7] [F12] repre-sentative	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.9	1917352 / 150 x 75 mm		[F7] [F12] repre-sentative	[S2] repre-sentative	[D4] repre-sentative

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.1.1.21.10	1917353 / 200 x 75 mm		[F7] [F12] repre-sentative	[S2] repre-sentative	[D4] repre-sentative
2.1.1.21.11	1917354 / 240 x 75 mm		[F12]	[S2]	[D4]
2.1.1.22	Profile coupling optionally at bottom of frame profile (2.1.1.1 - 2.1.1.8) + at back 1010557 / 40 x 59 mm + 3991216 / 30 x 8 mm Sealing via 1x 4010047 + 1x 4030035 / intumescent strip 2x 4090121 + 2x 4030187	1500292 1500229	B.3.4 + [F7] B.3.6	[S1]	[D3]
2.1.2	Frame profiles when connected to associated supporting con-struction Item no. / W x T		[F1] [F2] [F3] [F6] [F9]	not classified	[D1] [D2]
2.1.2.1	1917204 / 90 x 75 mm		[F1] [F2]	not classified	[D1]
2.1.2.2	1910175 / 90 x 75 mm		[F3] [F6] [F9]	not classified	[D2]
2.1.2.3	1910149 / 100 x 75 mm		[F6]	not classified	not classified
2.1.2.4	1917206 / 110 x 75 mm		B.3.1	not classified	not classified
2.1.2.5	1917207 / 120 x 75 mm		B.3.1	not classified	not classified
2.1.2.6	1917208 / 130 x 75 mm		B.3.1	not classified	not classified
2.1.2.7	1917209 / 140 x 75 mm		B.3.1	not classified	not classified
2.1.2.8	1917211 / 160 x 75 mm		B.3.1	not classified	not classified
2.1.2.9	1917213 / 180 x 75 mm		B.3.1	not classified	not classified
2.1.2.10	1917215 / 200 x 75 mm		B.3.1	not classified	not classified
2.1.2.11	1917220 / 250 x 75 mm		B.3.1	not classified	not classified

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.1.2.12	1917224 / 290 x 75 mm		B.3.1	not classified	not classified
2.1.2.13	1010592 / 100 x 100 mm		B.3.1	not classified	not classified
2.1.2.14	1010593 / 100 x 125 mm		B.3.1	not classified	not classified
2.1.2.15	1010594 / 100 x 150 mm		B.3.1	not classified	not classified
2.1.2.16	Additional / reinforcement profiles 3091041 + 3091042 3091058 + 3091059 3090194 + 3090193		B.3.1	not classified	not classified
2.1.3	Frame profiles when designing a sublight, type C Item no. / W x T (W_{max} = 170 mm)		[F4]	not classified	not classified
2.1.3.1	1910175 / 90 x 75 mm		not classified	not classified	not classified
2.1.3.2	1910149 / 100 x 75 mm		[F4]	not classified	not classified
2.1.3.3	1917206 / 110 x 75 mm		B.4.5	not classified	not classified
2.1.3.4	1917207 / 120 x 75 mm		B.4.5	not classified	not classified
2.1.3.5	1917209 / 140 x 75 mm		B.4.5	not classified	not classified
2.1.3.6	1917211 / 160 x 75 mm		B.4.5	not classified	not classified
2.1.3.7	1917213 / 180 x 75 mm		not classified	not classified	not classified
2.1.3.8	1917215 / 200 x 75 mm		not classified	not classified	not classified
2.1.3.9	1917220 / 250 x 75 mm		not classified	not classified	not classified
2.1.3.10	1917224 / 290 x 75 mm		not classified	not classified	not classified

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.1.4	Bottom rail profiles of sublights, type B Item no. / W x T		[F4]	not classified	not classified
2.1.4.1	1311073 / 65 x 75 mm		from [F5] [F8] [F10] [F11]	not classified	not classified
2.1.4.2	1910148 / 75 x 75 mm		[F4]	not classified	not classified
2.1.4.3	1010598 / 85 x 75 mm		B.3.1	not classified	not classified
2.1.4.4	1311585 / 95 x 75 mm		B.3.1	not classified	not classified
2.1.4.5	1917067 / 95 x 75 mm		B.3.1	not classified	not classified
2.1.4.6	1311352 / 125 x 75 mm		B.3.1	not classified	not classified
2.1.4.7	1910172 / 155 x 75 mm		B.3.1	not classified	not classified
2.1.4.8	1311700 / 174.5 x 75 mm		B.3.1	not classified	not classified
2.1.4.9	Add-on profiles optionally Frame profiles screwed at the back, centred in the area of shell safeguard Sealing via 2x 4010047 + 1x 4910040	1500250	B.3.4 + [F7] B.3.6	not classified	not classified
2.1.4.9.1	1927527 / 104 x 75 mm		B.3.4 + [F7] B.3.6	not classified	not classified
2.1.4.9.2	1927528 / 114 x 75 mm		B.3.4 + [F7] B.3.6	not classified	not classified
2.1.5	Insulation				
2.1.5.1	Restoration RP-TF alternative to 2.1.5.2		[F3] - [F12]	[S1] [S2]	[D2] [D3] [D4]
2.1.5.2	Floorock GF alternative to 2.1.5.1		[F1] [F2]	not classified	[D1]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.1.5.3	optionally additional Fermacell Profile shell opening surface		with: [F2] without: [F6] [F7] [F8] [F9] [F10] [F11] [F12]	with: DA 13.2.2.2 b) without: [S1] [S2]	with: [D1] without: [D3] [D4]
2.1.5.4	optionally additional Promatect H Profile shell opening surface		with: [F1] [F3] [F4] [F5] without: [F6] [F7] [F8] [F9] [F10] [F11] [F12]	with: DA 13.2.2.2 b) without: [S1] [S2]	with: [D2] without: [D3] [D4]
2.1.5.5	Promatect H Profile shells opening and closing surface for profiles of type C and B when designing a sub-light		[F4]	not classified	not classified
2.2	Intumescent material Item no. / dimensions / material / position				
2.2.1	without (in the area of rebate)		[F6] - [F12]	[S1] [S2]	[D3] [D4]
2.2.2	optionally on stop 4090122 / 1.2 x 15 mm / Kerafix Flexpress 100, self-adhesive or 199178 / 1.2 x 20 mm Kerafix Flexpress 100, self-adhesive		[F1] - [F5]	[S1] [S2] representative	[D1] [D2]
2.2.3	199174 / 1 x 40 mm / Kerafix Flexpress 100, self-adhesive Frame rear side when joining to the façade		[F1] [F2]	not classified	[D1]
2.2.4	4090122 / 1.2 x 15 mm / Kerafix Flexpress 100, self-adhesive 2x between profile couplings acc. to 2.1.1.21		[F7] [F12]	[S2]	[D4]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.2.5	4030187 / 1.3 x 10 mm / Promaseal LX 2x between profile couplings acc. to 2.1.1.22 additionally to 2.2.6		[F7] representative	[S1]	[D3]
2.2.6	4090121 / Profil 5.8 x 8.1 mm / Promaseal LX 2x between profile couplings acc. to 2.1.1.22 additionally to 2.2.5		[F7] representative	[S1]	[D3]
2.2.7	4090122 / 1.2 x 15 mm / Kerafix Flexpress 100, self-adhesive 2x between profile couplings acc. to 2.1.4.9		[F7] representative	not classified	not classified
2.3	Gasket (not intumescent)				
2.3.1	Centre gasket 4910016, EPDM Junction part 4920018 Sealing part 4920083		[F1] - [F12]	[S1] [S2]	[D1] - [D4]
2.3.2	Sealing 4010047 2x between profile couplings acc. to 2.1.1.21 2x between profile couplings acc. to 2.1.4.9 1x between profile couplings acc. to 2.1.1.22		[F7] [F12]	[S1] [S2]	[D3] [D4]
2.3.3	Sealing 4030035 1x between profile couplings acc. to 2.1.1.22		[F7] representative	[S1]	[D3]
2.3.4	Sealing 4910040 1x between profile couplings acc. to 2.1.4.9		[F7] representative	not classified	not classified
2.4	Corner angle				
2.4.1	Aluminium cast corner angle adapted to the profile geometries Fastening with conical screws		Table 1	Table 2	Table 3
2.5	Butt joint connector				

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.5.1	Aluminium butt joint connector adapted to the profile geometry Fastening with bushes		Table 1	Table 2	Table 3
2.6	Further details				
2.6.1	Shell safeguard 4080202 Frame rear side screwed with 1x 4070448 Position: from outside each ≤ 135 mm between safeguards vertical ≤ 450 mm horizontal centred resp. ≤ 495 mm		[F1] [F2] [F4] [F5] [F7] [F8] [F10] [F11] [F12]	[S1] [S2]	[D1] - [D4]
2.6.2	Weather bar 126793 126808 126807 126809 126762 126763 151198		Table 1 repre-sentative	[S1]	[D3]
2.6.3	Drainage cover made from PA 4040026 4040027 4040028 4040029 (cover; ABS) 4040030 (cover; ABS) 4080007 (cover; Al)		Table 1 repre-sentative	Table 2 repre-sentative	Table 3 repre-sentative
2.6.4	Sill connection profile 3091069		Table 1 repre-sentative	Table 2 repre-sentative	Table 3 repre-sentative
2.6.5	Wall junction profiles 3991215 3991216 3991217 3091036 3091057 3091047 160747 3991213		Table 1 repre-sentative	Table 2 repre-sentative	Table 3 repre-sentative

No.	Design parameter	Drawing	EI_2 30	S_a	C2
2.7	Installation height free		B.1.3 + [F7] [F8]	B.1.1	covered
3	**Hardware**				
3.1	Locking points / variants				
3.1.1	Number of locking points lock sided ≥ 4 pieces		Table 1 C.1.2		Table 3 DA H 4.2
3.1.1.1	Type of locking points lock sided 1x latch ≥ 3x centre locking		Table 1 C.1.2	Table 2 C.1.3	Table 3 DA H 4.2
3.1.1.2	Distances of the locking points hinge sided: Handle height: distance sash bottom edge 1,000 ± 200 mm (C2: 1,000 mm) Centre locking: distance sash top edge ≤ 106 mm; distance sash bottom edge ≤ 140 mm / ≤ 1,285 mm		Table 1 C.1.2	Table 2 C.1.3	Table 3 DA H 4.2
3.1.2	Number of locking points hinge sided ≥ 6 pieces		Table 1 C.1.2	Table 2 C.1.3	Table 3 DA H 4.2
3.1.2.1	Type of the locking points hinge sided ≥ 2x hinges ≥ 3x hinge lockings ≥ 1x locking in rebate		Table 1 C.1.2	Table 2 C.1.3	Table 3 DA H 4.2
3.1.2.2	Distances of the locking points hinge sided: Hinges : top resp. bottom edge of sash Hinge lockings: distances to hinges ≤ 50 mm; between the lockings ≤ 1,035 mm Locking in rebate: middle sash		Table 1 C.1.2	Table 2 C.1.3	Table 3 DA H 4.2
3.2	Locking kits				
3.2.1	Turn basic hardware kit A made up of 2x centre locking (lock sided)				

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	1x sash support (bottom) 1x turn hinge bottom 1x centre hinge				
3.2.1.1	6940267 DIN R		[F1] [F2] [F8]	C.1.1	[D1] [D2] repre-sentative
3.2.1.2	6940268 DIN L		[F3] [F4]	C.1.1	[D1] [D2]
3.2.2	Turn basic hardware kit B, adjustable made up of 2x centre locking (lock sided) 1x sash support (bottom) 1x turn hinge bottom 1x turn hinge adjustable				
3.2.2.1	6940269 DIN R		[F6] [F7] [F10] [F11]	C.1.1	not classified
3.2.2.2	6940270 DIN L		C.1.1	C.1.1	not classified
3.2.3	Turn basic hardware kit C, concealed made up of 2x centre locking (lock sided) 1x sash support (bottom) 1x turn hinge bottom concealed 1x turn hinge concealed				
3.2.3.1	6940515 DIN R		[F9]	[S1]	[D3]
3.2.3.2	6940516 DIN L		[F5]	[S1] repre-sentative	[D3] repre-sentative
3.2.4	Turn basic hardware kit D made up of 2x centre locking (lock sided) 1x sash support (bottom) 1x turn hinge bottom 1x centre hinge				
3.2.4.1	6940341 DIN R		[F12]	[S2]	[D4]
3.2.4.2	6940342 DIN L		[F12] rep-resentative	[S2] repre-sentative	[D4] repre-sentative

No.	Design parameter	Drawing	EI_2 30	S_a	C2
3.3	Lockings				
3.3.1	6940323 / hinge locking		[F1] [F2] [F3] [F4] [F5] [F6] [F7] [F8] [F9] [F10] [F11] [F12]	[S1] [S2]	[D1] - [D4]
3.3.2	6940517 / locking in rebate (hinge sided)		[F6] [F7] [F8] [F9] [F10] [F11]	[S1]	[D3]
3.3.3	6940288 / centre locking (lock sided)		[F6] [F7] [F8] [F10] [F11]	C.1.3	not classified
3.3.4	6940518 / locking in rebate (lock sided) (when using the rebate gear 3.5.3, 1x replace locking part with shift safeguard 6940289)		[F9]	not classified	not classified
3.3.4.1	6940289 / shift safeguard (see 3.3.4)		[F9]	not classified	not classified
3.3.5	6940321 / locking set (lock sid-ed) (for rebate gear 3.5.3)		[F3] [F4] [F5]	not classified	not classified
3.4	Hinges				
3.4.1	6940283 / centre hinge (included in basic hardware set)		Table 1	Table 2	Table 3
3.4.2	6940273 / central locking with hinge		[F1] [F3] [F4]	[S2]	[D1] [D2] [D4]
3.5	Window gear				
3.5.1	6020822 / window gear with latch; PZ		[F7] [F8] [F10] [F11]	[S1] [S2]	[D1] - [D4]
3.5.2	6020002 / window gear with latch; RZ		[F6]	[S1] [S2] repre-sentative	[D1] - [D4] repre-sentative
3.5.3	6960257 / rebate gear complete		[F3] [F4] [F5] [F9]	not classified	not classified
3.6	Handle / operating devices				
3.6.1	6930069 / door handle part		[F7] [F6] [F8] [F10]	[S1]	[D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
			[F11]		
3.6.2	6930090 / door handle part		[F12]	[S2]	[D4]
3.6.3	6960037 / plug handle (for rebate gear 3.5.3)		[F9]	not classified	not classified
3.7	Cylinder / rosettes (additional components of the rebate gear / operating devices)				
3.7.1	6960038 / slide-on plug handle rosette (for rebate gear 3.5.3)		C.1.1	not classified	not classified
3.7.2	6061030 / plug handle rosette (for rebate gear 3.5.3)		[F9]	not classified	not classified
3.7.3	6930054 / cylinder rosette PZ, oval		C.1.1	[S1] [S2] representative	[D1] - [D4] representative
3.7.4	6930094 / cylinder rosette PZ, oval		C.1.1	[S1] [S2] representative	[D1] - [D4] representative
3.7.5	6031447 / clip cylinder rosette RZ		C.1.1	[S1] [S2] representative	[D1] - [D4] representative
3.7.6	6960046 / profile half cylinder		[F8] [F10] [F11]	[S1] [S2] representative	[D1] - [D4] representative
3.8	Contacts / cable transitions				
3.8.1	6980250 / window contact		C.1.48 / C.1.51	C.1.47	[D1] - [D4] representative
3.8.2	6980251 / window contact		C.1.48 / C.1.51	C.1.47	[D1] - [D4] representative
3.8.3	6980252 / window contact		[F6] [F7] [F8] [F9] [F10] [F11]	C.1.47	[D1] - [D4] representative
3.8.4	6081423 / window contact + 6081430		[F12] representative	[S1]	[D3]
3.8.5	6081424 / window contact		[F12]	[S2]	[D4]
3.8.6	6081356 / miniature cable tran-		[F10] [F11]	[S1]	[D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	sition				
3.8.7	6081357 / surface mounted cable transition		[F9] [F12]	[S2]	[D4]
3.9	Other hardware				
3.9.1	6940286 / locking corner transmission; DIN R		[F6] [F7] [F8] [F9] [F10] [F11] [F12]	[S1] [S2]	[D3] [D4]
3.9.2	6940287 / locking corner transmission; DIN L		[F4] [F5]	[S1] [S2] representative	[D3] [D4] representative
3.9.3	6940316 / faulty operation safeguard		[F6] [F7] [F8] [F10] [F11] [F12]	[S2]	[D1] [D2] [D4]
3.9.4	6960257 / rebate gear as a faulty operation safeguard		[F6] [F7] [F8] [F10] [F11] [F12] representative	[S1]	[D3]
3.9.5	6940293 / turn limiter, attenuated		[F6] [F7] [F10] [F11]	not classified	not classified
3.9.6	6040410 / rebate protection; length 70 mm		[F6] [F7] [F8] [F9] [F10] [F11]	[S1] [S2]	[D3] [D4]
3.9.7	6940334 / rebate protection; length 250 mm		[F1] [F2] [F3] [F4] [F5]	[S1] [S2] representative	[D1] [D2]
3.9.8	6040500 / sash support		[F6] [F7] [F8] [F10] [F11]	not classified	not classified
3.9.9	6040411 / glass rebate cover (for sash profile 1910146 with 6020822 1x needed)		[F6] [F7] [F10] [F11]	[S1]	[D3]
3.9.10	6940302 / detent		[F9]	C.1.3	not classified
3.9.11	6041073 / slide rod safeguard		Table 1 representative	Table 2 representative	Table 3 representative
3.9.12	3011015 / slide rod		[F10] [F11]	[S1] [S2]	[D2] [D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
			[F12]		[D4]
3.9.13	Dorma RZ6, smoke detection panel in lintel mounting		[F12]	[S2]	[D4]
3.10	Door closer				
3.10.1	Position				
3.10.1.1	Without		[F11] DA 13.2.5	not classified	not classified
3.10.1.2	OTS: sash opening surface		[F1] [F6] [F7] [F9] [F10] [F11]	[S1]	[D1] [D3]
3.10.1.3	ITS: sash		[F2] [F8] [F12]	[S2]	[D2] [D4]
3.10.2	Types				
3.10.2.1	ASSA Abloy DC 700 G-S with mounting plate		[F10] [F11]	C.1.41	not classified
3.10.2.2	Dorma TS 93 B-G-EMR with mounting plate		[F9]	[S1]	[D3]
3.10.2.3	Dorma ITS 93 EMV		[F12]	[S2]	[D4]
3.10.2.4	ECO TS61-ESFR with mounting plate		[F6]	C.1.41	not classified
3.10.2.5	6910027 + 6910035 (Geze TS 5000 with mounting plate)		[F1] [F7]	C.1.41	[D1]
3.10.2.6	6910014 + 6010115 / 6010116 (Geze Boxer ITS with fixing set)		[F8]	C.1.41	[D2]
3.10.2.7	Geze Boxer EFS ITS with fixing set		[F2]	C.1.41	[D2] representative
4	**Gap dimensions between sash and frame**				
4.1	Four-sided circumferentially 6 mm ± 1 mm		Table 1	Table 2	Table 3
5	**Side parts / fanlight / sublight**				
5.1	Positioning side parts / fanlight / sublight according to EN 15269-5, Annex B				
5.1.1	Sublight		[F4]	not	not

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	W_{max} = 1,512 mm H_{max} = 522 mm A_{max} = 0.46 m^2		E.3.2	classified	classified
6	**Glazing (sash / sublight)**				
6.1	Glass family Pyrostop 30-xx	List 1	F.1.5 [F1] [F2] [F3] [F4] [F6]	E.1.7	[D1] [D2]
6.1.1	Dimensions W x H from 250 x 250 mm W_{max} = 1,234 mm H_{max} = 2,314 mm A_{max} = 2.40 m^2 (S_a / C2 ≤ 1,158 x 2,198 mm)		F.1.3 / F.1.4 [F4]	E.1.6	EN 1191 point 6
6.1.2	Thickness from 29 to 51 mm m ≤ 201.25 kg		F.1.1 / F.1.2 [F7]	E.1.3 / E.1.4	EN 1191 point 6
6.2	Glass family FIRESWISS Foam 30-xx	List 2	F.1.5 [F7] [F8]	E.1.7	EN 1191 point 6
6.2.1	Dimensions W x H from 250 x 250 mm W_{max} = 1,390 mm H_{max} = 2,590 mm A_{max} = 3.02 m^2 (S_a / C2 ≤ 1,158 x 2,198 mm)		F.1.3 / F.1.4 [F7] [F8][F7]	E.1.6	EN 1191 point 6
6.2.2	Thickness from 26 to 51 mm m ≤ 201.25 kg		F.1.1 / F.1.2 [F7]	E.1.3 / E.1.4	EN 1191 point 6
6.3	Glass family Contraflam IGU	List 3	F.1.5 [F9] [F10] [F11]	E.1.7	EN 1191 point 6
6.3.1	Dimensions W x H from 250 x 250 mm to 1,158 x 2,158 mm (S_a / C2 ≤ 1,158 x 2,198 mm)		F.1.4 [F9] [F10] [F11]	E.1.6	EN 1191 point 6
6.3.2	Thickness from 26 to 51 mm m ≤ 201.25 kg		F.1.1 / F.1.2 [F7]	E.1.3 / E.1.4	EN 1191 point 6

No.	Design parameter	Drawing	EI_2 30	S_a	C2
6.4	Glass family Pyrobel 30 ISO	List 4	F.1.5 [F12]	E.1.7 [S2]	EN 1191 point 6
6.4.1	Dimensions W x H from 250 x 250 mm to 1,118 x 2,118 mm (S_a / C2 ≤ 1,158 x 2,198 mm)		F.1.4 [F12]	E.1.6 [S2]	EN 1191 point 6
6.4.2	Thickness from 28 to 51 mm m ≤ 201.25 kg		F.1.1 / F.1.2 [F12]	E.1.3 / E.1.4 [S2]	EN 1191 point 6
6.5	Glass family Herofire 30 ISO	List 5	not classified	E.1.7 [S1]	EN 1191 point 6
6.5.1	Dimensions W x H to 1,158 x 2,198 mm		not classified	E.1.6 [S1]	EN 1191 point 6
6.5.2	Thickness from 26 to 51 mm m ≤ 201.25 kg		not classified	E.1.3 / E.1.4 [S1]	EN 1191 point 6
6.6	Glass installation				
6.6.1	Glazing bead Item no. / W x T				
6.6.1.1	3991006 / 22 x 19 mm		F.1.9	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.2	3991007 / 22 x 22 mm		[F7] [F12]	[S1] [S2]	[D3] [D4]
6.6.1.3	3991008 / 22 x 24 mm		F.1.8	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.4	3991009 / 22 x 26 mm		F.1.8	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.5	3991010 / 22 x 29 mm		[F1]	E.1.3 / E.1.4	[D1] [D2]
6.6.1.6	3991011 / 22 x 32 mm		[F4] [F9] [F10]	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.7	3991012 / 22 x 34 mm		[F3] [F6] [F8] [F11]	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.8	3991013 / 22 x 37 mm		[F5]	E.1.3 / E.1.4	EN 1191 point 6
6.6.1.9	3991014 / 22 x 41 mm		F.1.8	E.1.3 /	EN 1191

No.	Design parameter	Drawing	EI_2 30	S_a	C2
				E.1.4	point 6
6.6.1.10	3391253 / 22 x 9 mm (Anodized)		F.1.9	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.11	3090240 / 22 x 12 mm (Anodized)		F.1.9	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.12	3090082 / 22 x 16 mm (Anodized)		F.1.9	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.13	3090081 / 22 x 20 mm (Anodized)		[F4]	A.5.1 / E.1.3 / E.1.4	[D2]
6.6.1.14	3090080 / 22 x 24 mm (Anodized)		F.1.8	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.15	3090079 / 22 x 26 mm (Anodized)		F.1.8	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.16	3090078 / 22 x 30 mm (Anodized)		[F2]	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.17	3090243 / 22 x 9 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.18	3090242 / 22 x 12 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.19	3090196 / 22 x 16 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.20	3090197 / 22 x 20 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.21	3090198 / 22 x 24 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.1.22	3090199 / 22 x 26 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 /	EN 1191 point 6

No.	Design parameter	Drawing	EI_2 30	S_a	C2
				E.1.4	
6.6.1.23	3090200 / 22 x 30 mm (Coating)		A.4.1 / F.1.14	A.5.1 / E.1.3 / E.1.4	EN 1191 point 6
6.6.2	Glazing gasket, EPDM Item no. / position / nominal gap				
6.6.2.1	4910022 / outside / 6.5 mm		[F1] - [F12]	[S1] [S2]	[D1] [D2] [D3] [D4]
6.6.2.2	4910002 / inside / 2 mm		F.1.18	not classified	EN 1191 point 6
6.6.2.3	4910004 / inside / 4 mm		F.1.18	not classified	EN 1191 point 6
6.6.2.4	4010015 / inside / 5 mm		[F7]	[S1]	[D3]
6.6.2.5	4010235 / inside / 5 mm (grey)		[F7] repre-sentative	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.2.6	4010016 / inside / 6 mm		[F4] [F5] [F11]	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.2.7	4010236 / inside / 6 mm (grey)		[F4] [F5] [F11] rep-resentative	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.2.8	4010017 / inside / 7 mm		F.1.18	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.2.9	4010237 / inside / 7 mm (grey)		[F4] F.1.18 repre-sentative	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.2.10	4010018 / inside / 8 mm		[F1] [F2] [F3] [F4] [F6] [F8] [F9] [F10] [F12]	[S2]	[D1] [D2] [D4]
6.6.2.11	4010238 / inside / 8 mm (grey)		[F1] repre-sentative	[S2] repre-sentative	[D1] [D2]
6.6.3	Intumescent material Item no. / material				

No.	Design parameter	Drawing	EI_2 30	S_a	C2
6.6.3.1	199174 / 1 x 40 mm / Kerafix Flexpress 100 self-adhesive circumferential in glass rebate		[F1] [F2] [F3] [F4] [F5] [F6] [F8] [F9] [F10] [F11]	[S1] [S2] repre-sentative	[D1] [D2]
6.6.3.2	4030187 / 1.3 x 10 mm / Promaseal LX 2x circumferential in glass re-bate		not classified	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.3.3	4090013 / 1.5 x 30 mm / Kerafix Flexpress 100 self-adhesive circumferential in glass rebate		[F12]	[S1] [S2]	[D3] [D4]
6.6.4	Shell safeguard Sash: 4080403 Sublight: 4080436 in combination with glass safe-guards (depending on infill) Item no. / infill thicknesses Positioning: from outside each 150 - 180 mm between safeguards vertical ≤ 600 mm horizontal centred resp. ≤ 435 mm		[F1] - [F12]	[S1] [S2]	[D1] - [D4]
6.6.4.1	4080132 / 48 - 51 mm		F.1.8	E.1.3	EN 1191 point 6
6.6.4.2	4080131 / 45 - 48 mm		[F7]	[S1]	[D3] [D4]
6.6.4.3	4080257 / 41 - 44 mm		[F12]	[S2]	EN 1191 point 6
6.6.4.4	4080258 / 37 - 40 mm		[F1] [F2] [F4]	E.1.4	[D1] [D2]
6.6.4.5	4080259 / 33 - 36 mm		[F3] [F9] [F10] [F11]	E.1.4	EN 1191 point 6
6.6.4.6	4080260 / 31 - 34 mm		[F6] [F8]	E.1.4	EN 1191 point 6
6.6.4.7	4080261 / 27 - 30 mm		[F5]	E.1.4	EN 1191 point 6

No.	Design parameter	Drawing	EI_2 30	S_a	C2
6.6.4.8	4080205 / 23 - 26 mm		F.1.9	E.1.4	EN 1191 point 6
6.6.5	Further details (optionally)				
6.6.5.1	Special insulation profile optionally 4990001		[F3] [F4]	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.5.2	Special insulation profile optionally 4990007		[F6] [F7]	[S1] [S2] repre-sentative	EN 1191 point 6
6.6.5.3	Spring piece / EPDM 4020006		[F1] - [F12]	[S1] [S2]	[D1] - [D4]
6.6.5.4	Spring piece for glazing bead 6.6.1.10 to 6.6.1.16 / PA 4020049		[F2] [F4]	[S1] [S2] repre-sentative	[D2]
6.6.5.5	Glued glazing bars 3091052 / 3091053 Al tubes up to width < 200 mm		DA 13.2.3.1 / A.4.1 / A.4.2	A.5.13	DA H 4.2
7	**Supporting construction and fixing**				
7.1	Massive walls Density ≥ 600 kg/m^3 Wall thickness ≥ 150 mm		[F4] [F7] [F8] [F10] [F11] [F12]	[S2]	[D4]
7.2	Flexible supporting construction		not classified	[S1]	[D3]
7.3	Associated supporting construction				
7.3.1	Sapa / WICTEC 50FP		[F1] [F2]	not classified	[D1]
7.3.2	Sapa / WICLINE 75FP		[F3] [F6] [F9]	not classified	[D2]
7.4	Fixing				
7.4.1	Junction to walls as per point 7.1 and 7.2				
7.4.1.1	Distances: from outside ≤ 200 ± 20 mm between the fastening means		[F4] [F8] [F10] [F11]	[S1]	[D3]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	vertical ≤ 850 mm horizontal ≤ 1,100 mm				
7.4.1.2	Position within the profile: centred through a profile outer shell		[F8] [F11] [F4]	[S1]	[D3]
7.4.1.3	Wall connecting joints ≤ 25 mm		[F4]	[S1]	[D3]
7.4.1.4	Fixing means				
7.4.1.4.1	Window screw Hilti HUS-S 6 x 120		[F8] [F11]	F.1.3	EN 1191 point 6
7.4.1.4.2	Screw anchor Hilti HUS 7.5 x 120		[F4]	F.1.3	EN 1191 point 6
7.4.1.4.3	Screw ≥ 6 x 120		H.1.8 + H.1.9	F.1.3	EN 1191 point 6
7.4.1.4.4	Alternative manufacturers / suppliers		H.1.8 + H.1.9	F.1.3	EN 1191 point 6
7.4.1.4.5	Wall anchor 4080006 Fastening profile rear side with screw 4070046		H.1.8	F.1.3	EN 1191 point 6
7.4.1.4.6	For connection to flexible supporting constructions ≥ ST 4.8 x 100		not classified	[S1]	[D3]
7.4.2	Junction to walls as per point 7.1 for frame installation				
7.4.2.1	Fastening and insulation see drawing Drawing [1] to Drawing [8] resp. Drawing [9] to Drawing [12]		[F7] [F12]	[S2]	[D4]
7.4.3	Junction to walls as per point 7.3				
7.4.3.1	Fastening to 7.3.1: clamping junction Insulation: Promatect H distance strip (W x T) 15 x 32 mm (T: adjusted to the infill thickness of the façade) Sealing	1500285 1500227 DOC-0000888626	[F1] [F2]	not classified	[D1]

No.	Design parameter	Drawing	EI_2 30	S_a	C2
	Opening face: 4010018 and gasket inside (190280, 190281, 190282, 190286, 190287, 190288) Closing face: gasket outside (190311, 190312)				
7.4.3.2	7.3.2: Profile frame = profile associated supporting construction		[F3] [F6] [F9]	not classified	[D2]

5.2 Fire performance parameters

The results applicable for the defined product range are defined as following:

EI_2 30-S_aC2

6 Result and statement

6.1 Statement

On the basis of the examination, carried out on the above-mentioned details, the field of application of the fire and smoke control door assembly "WICLINE 75FP" with regard to class EI_2 30-S_aC2 is determined.

This report does not replace the classification report required for the classification.

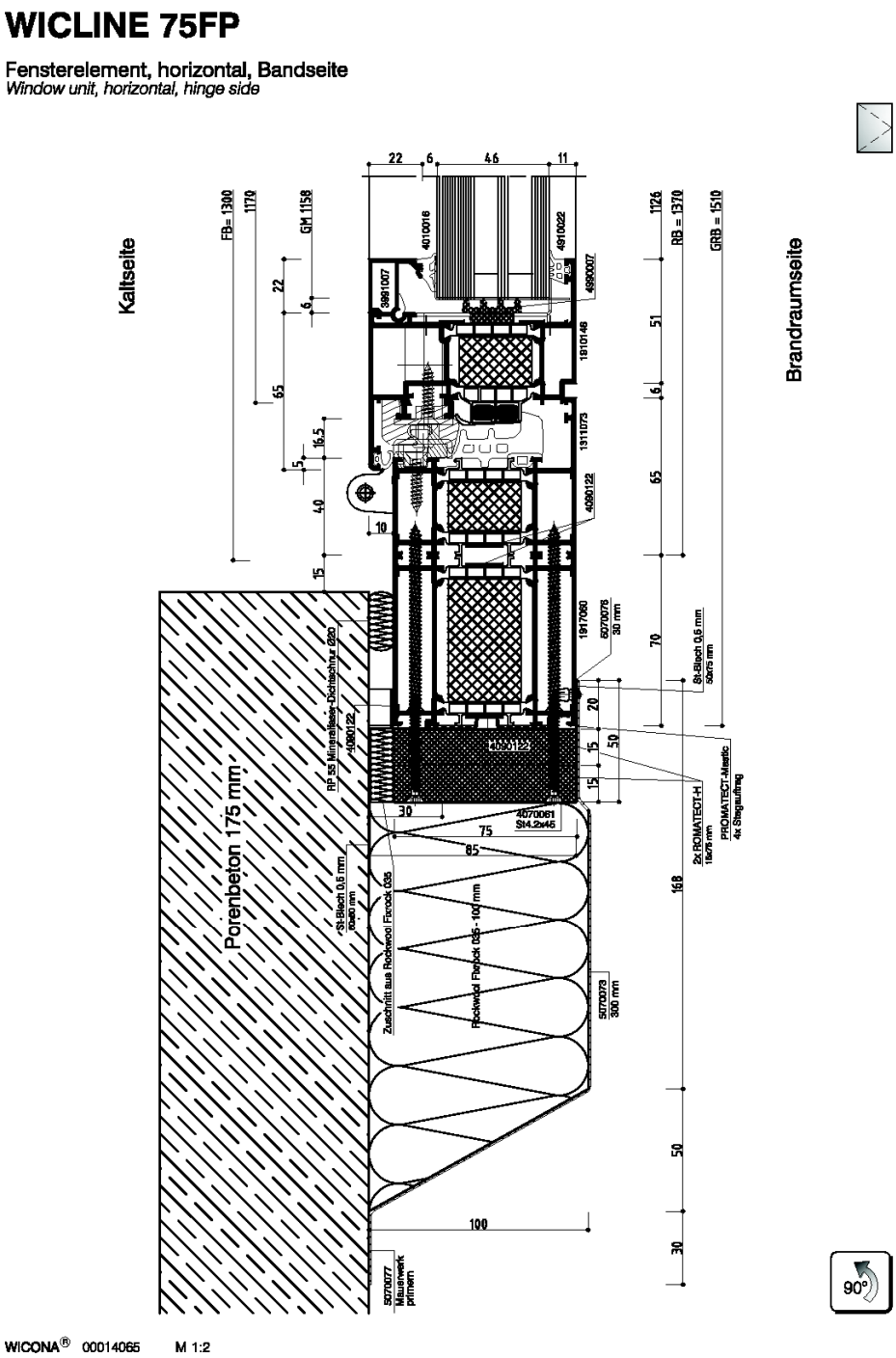
6.2 Additional statements

The extended application results relate to the behaviour of a product/product family or building element under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family or building element in use.

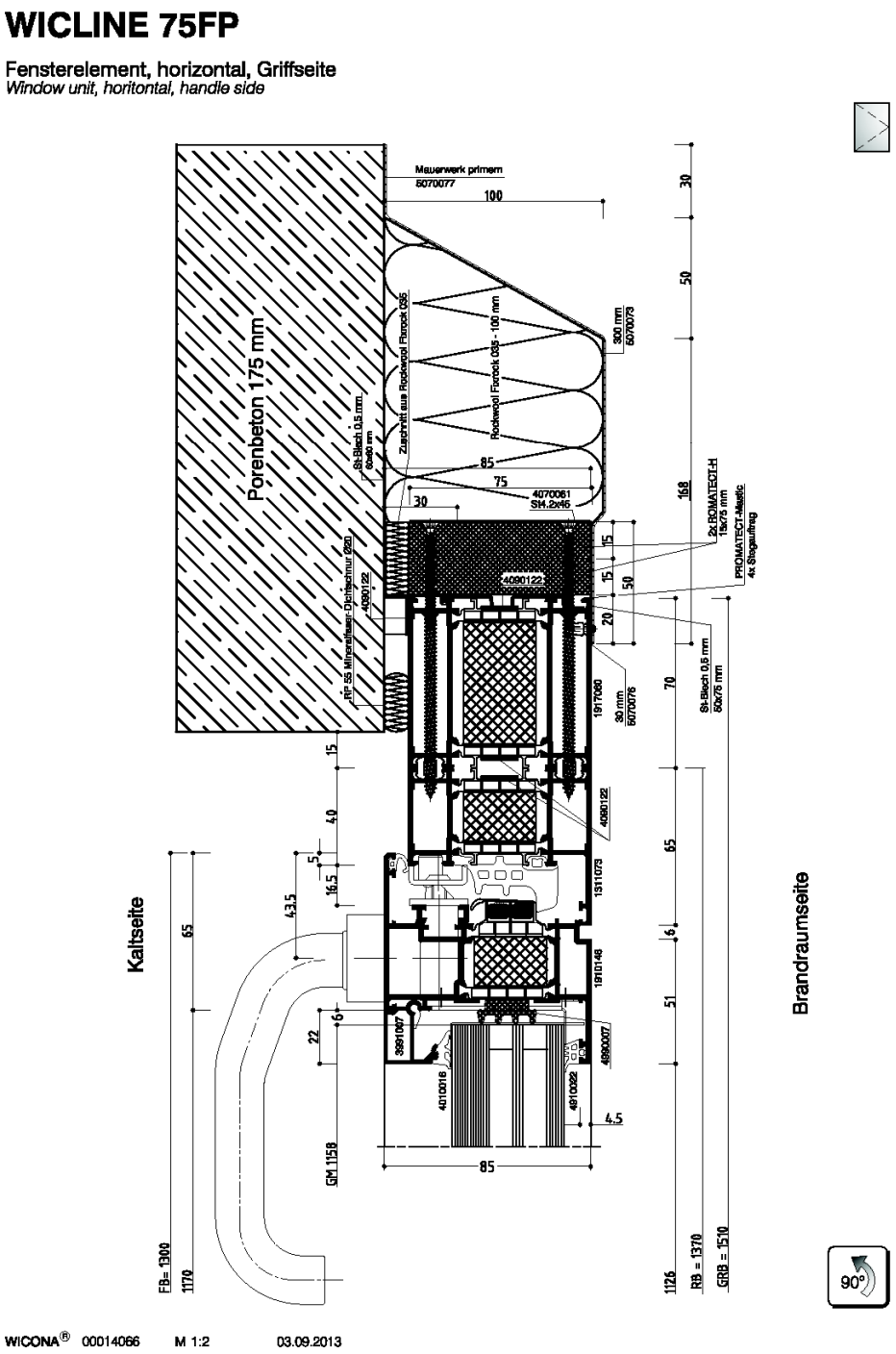
This extended application is issued on the basis of test data and the content of the relevant part(s) of EN 15269 at the time of issue.

Rosenheim,
16.07.2018

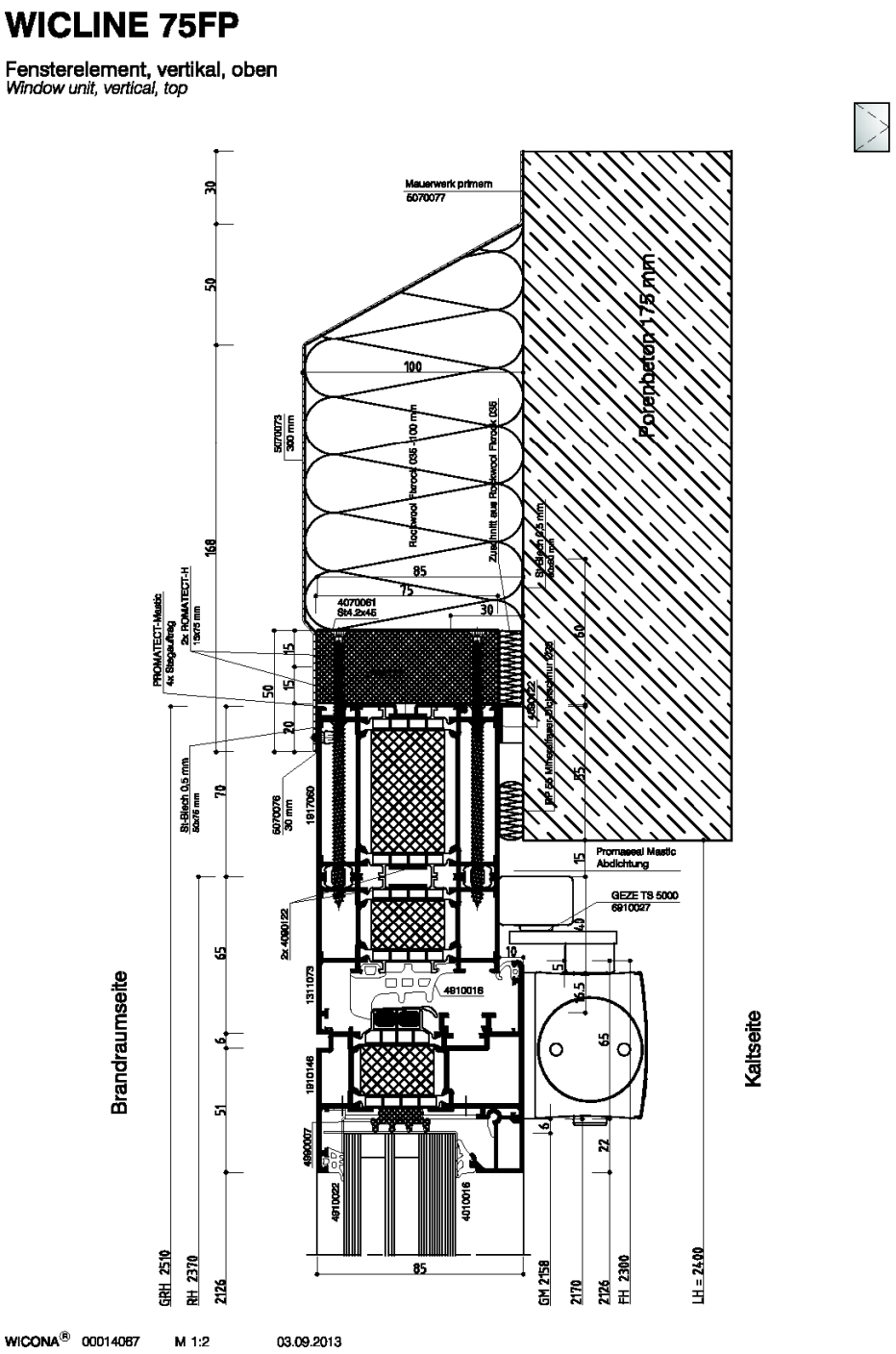
Drawing [1]: Variant I of junction to walls for frame installation (1 of 8)



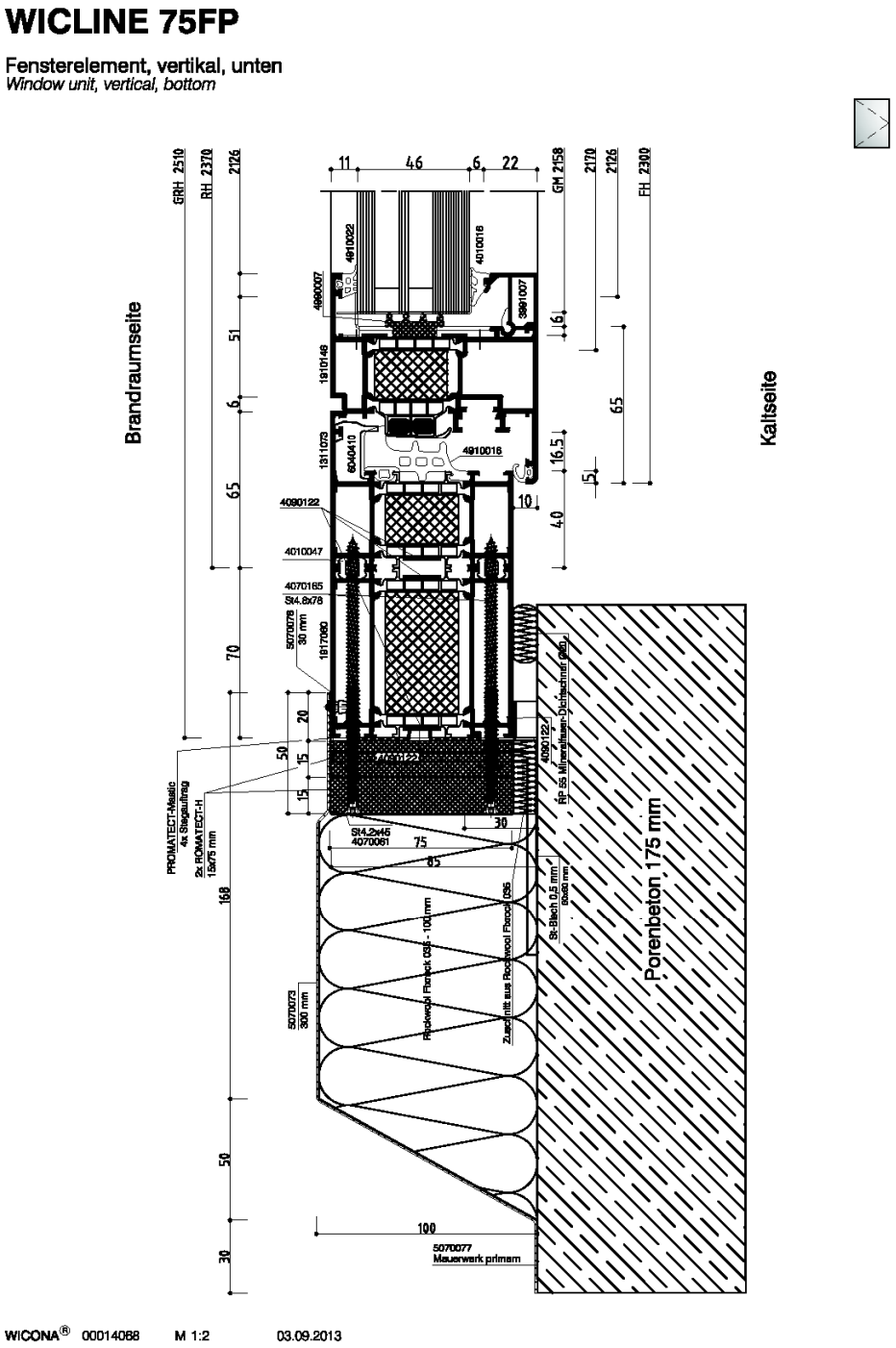
Drawing [2]: Variant I of junction to walls for frame installation (2 of 8)



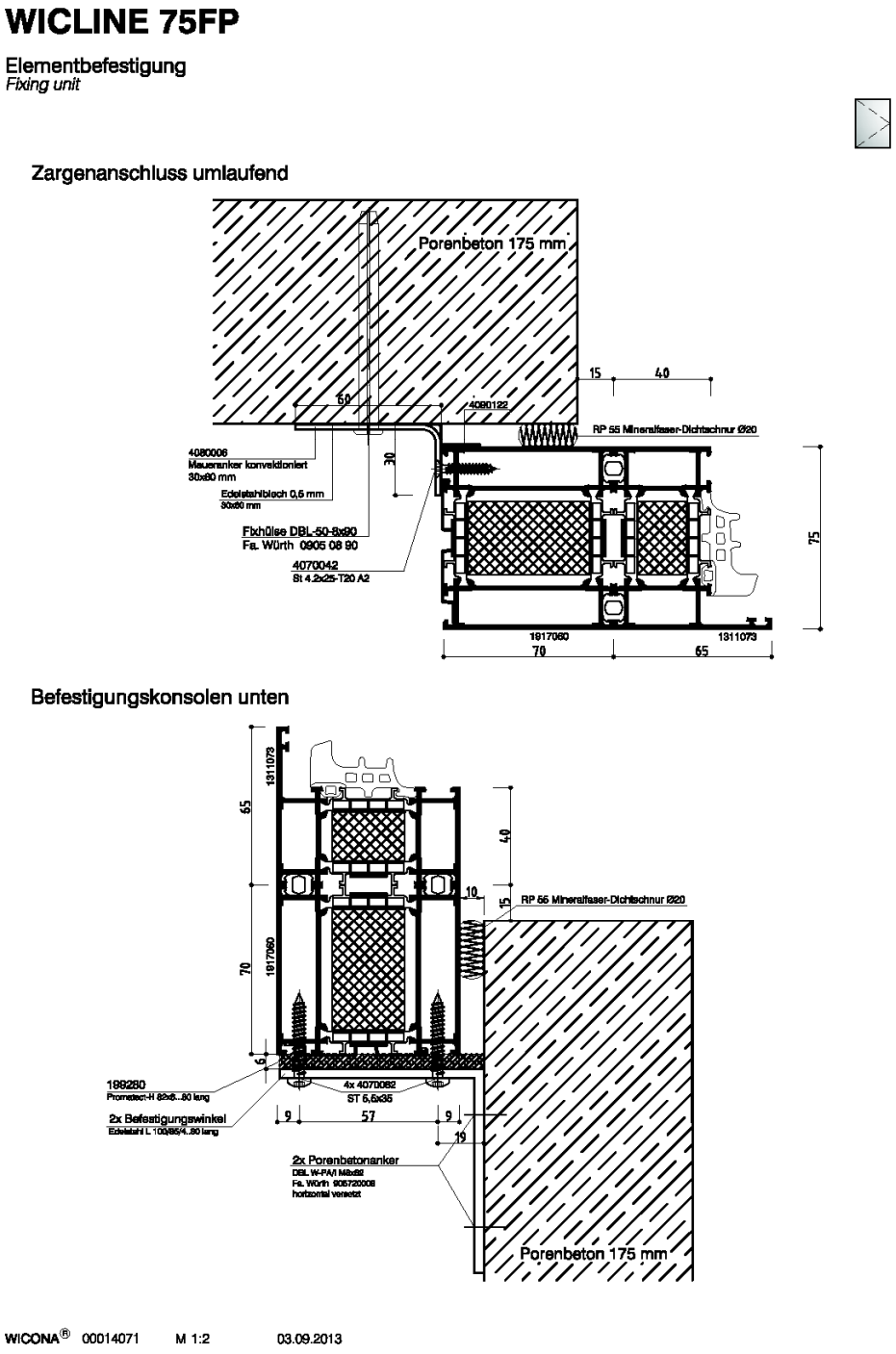
Drawing [3]: Variant I of junction to walls for frame installation (3 of 8)



Drawing [4]: Variant I of junction to walls for frame installation (4 of 8)



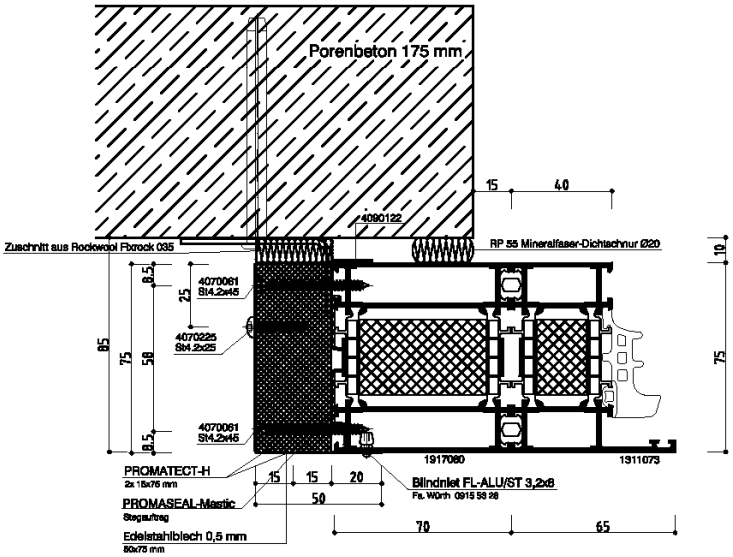
Drawing [5]: Variant I of junction to walls for frame installation (5 of 8)



Drawing [6]: Variant I of junction to walls for frame installation (6 of 8)

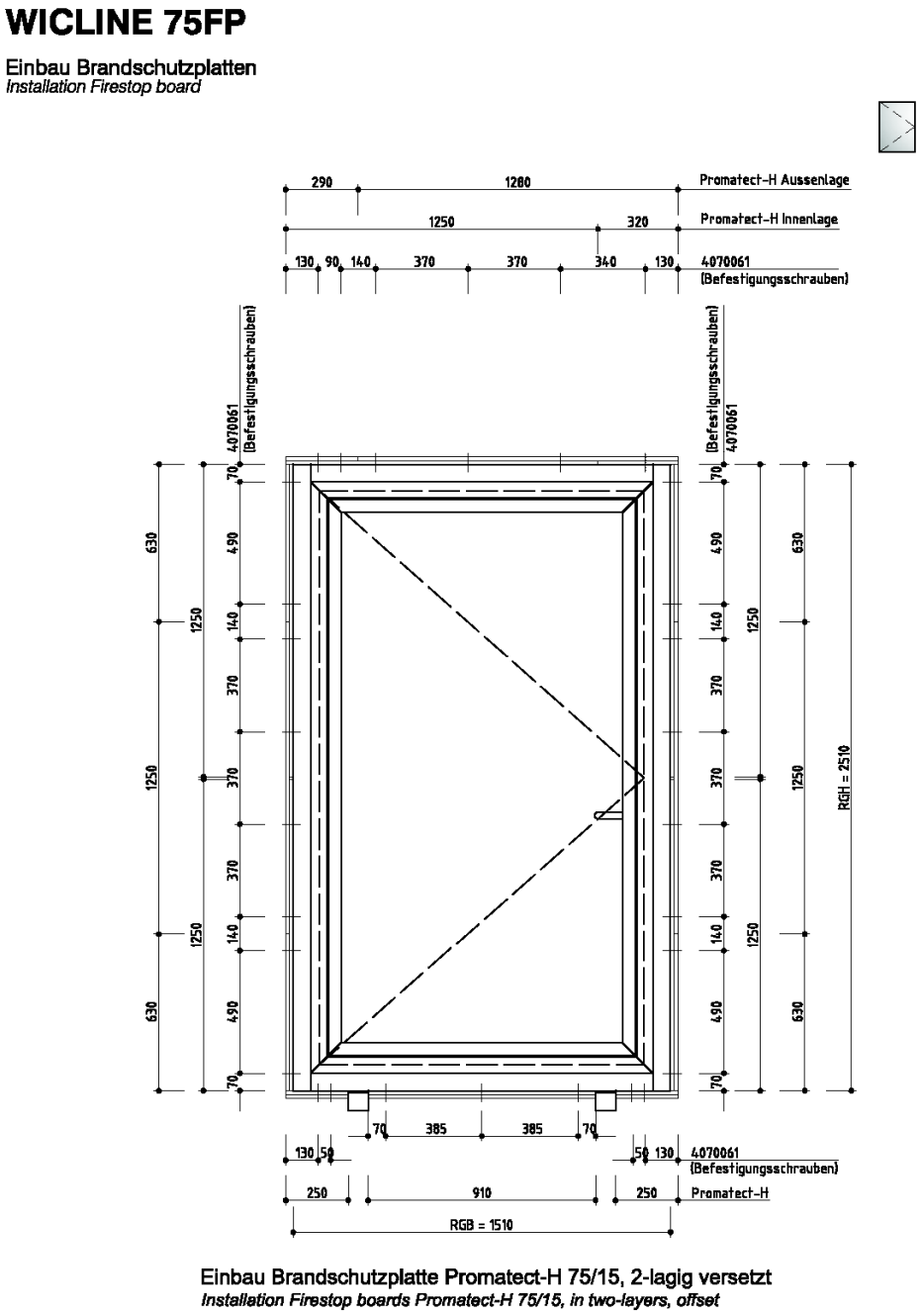
WICLINE 75FP

Einbau Brandschutzplatten mit Edelstahlblechzarge
Installation firestop board with stainless steel sheet metal frame

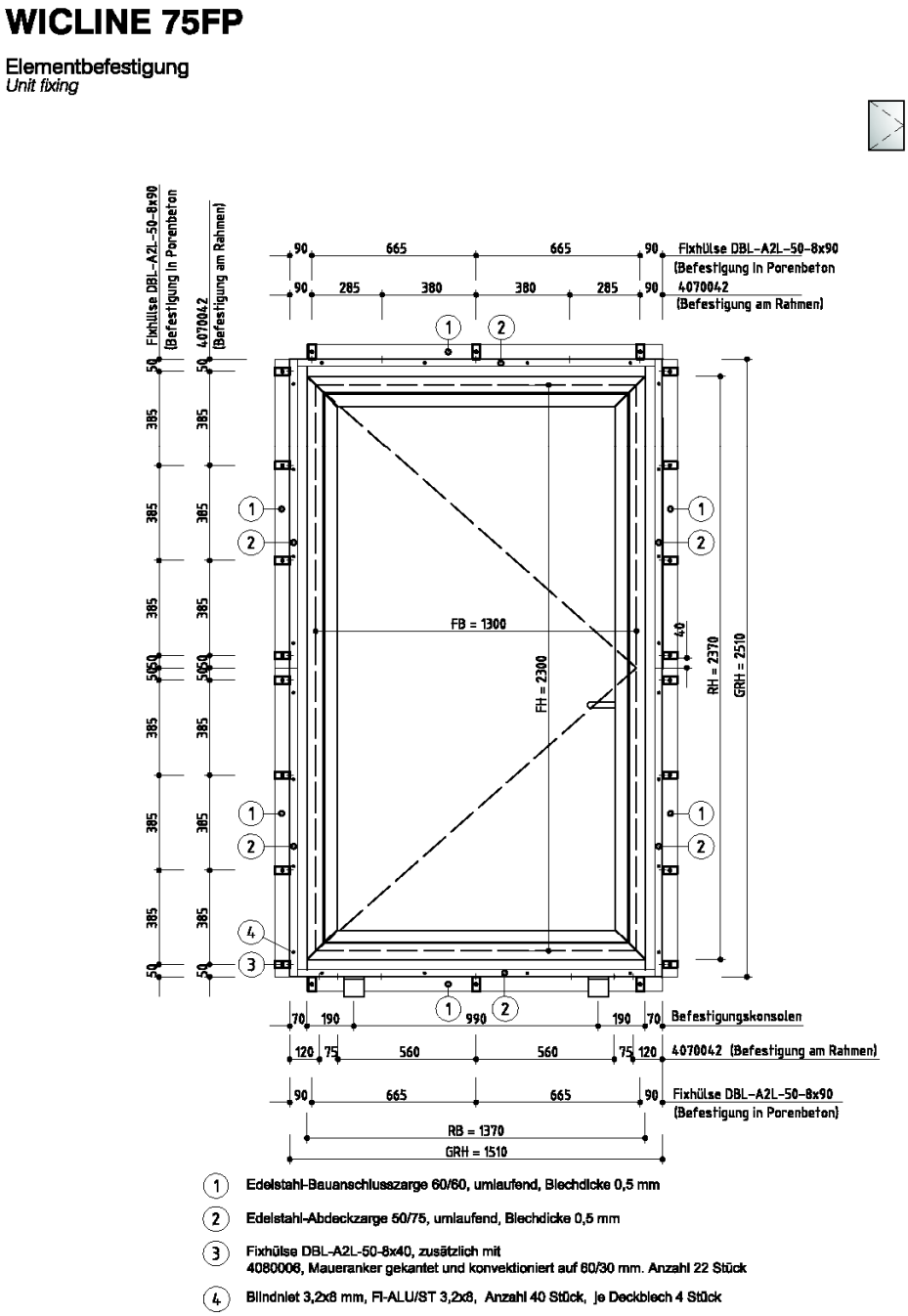


WICONA® 00014088 M 1:2 12.09.2013

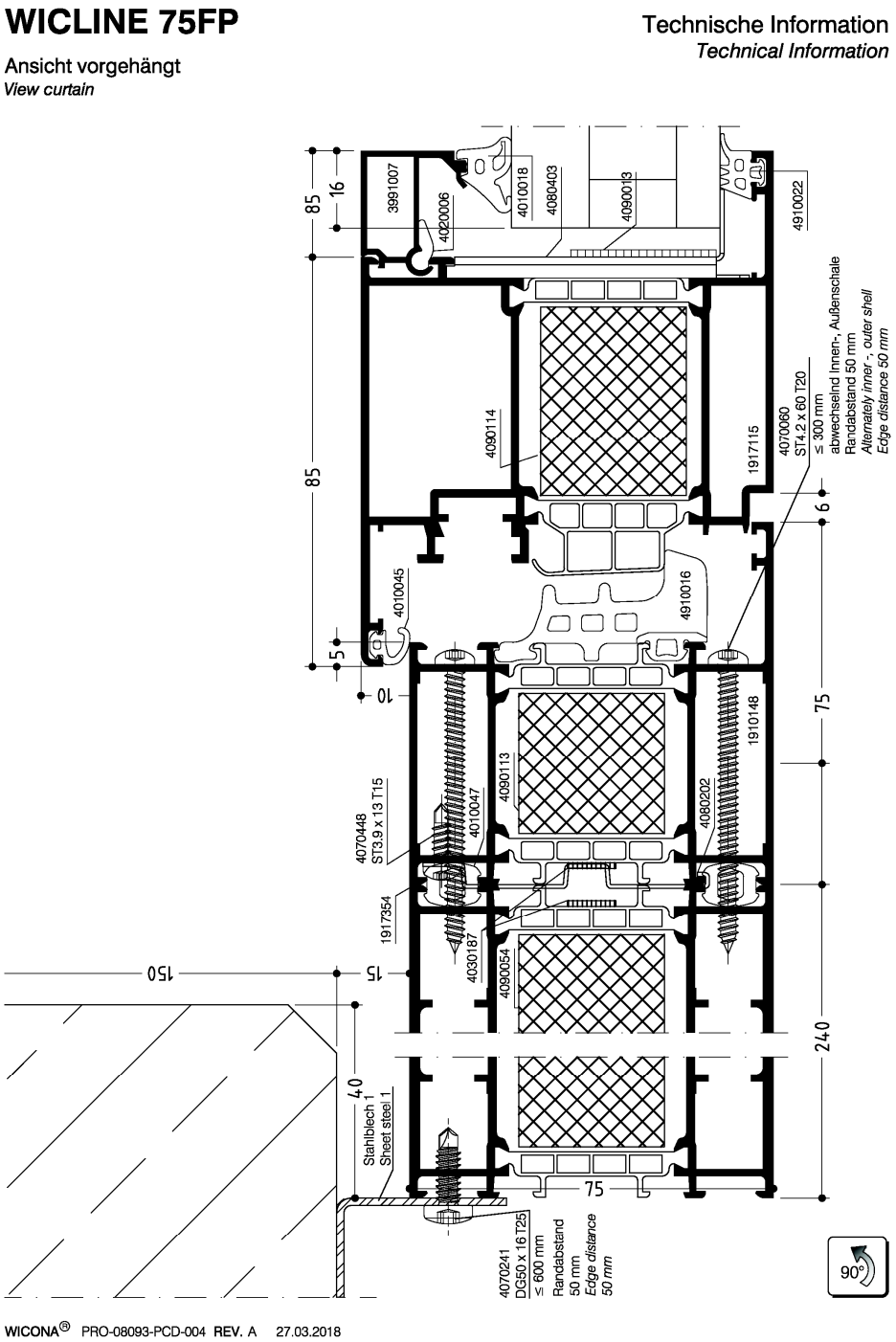
Drawing [7]: Variant I of junction to walls for frame installation (7 of 8)



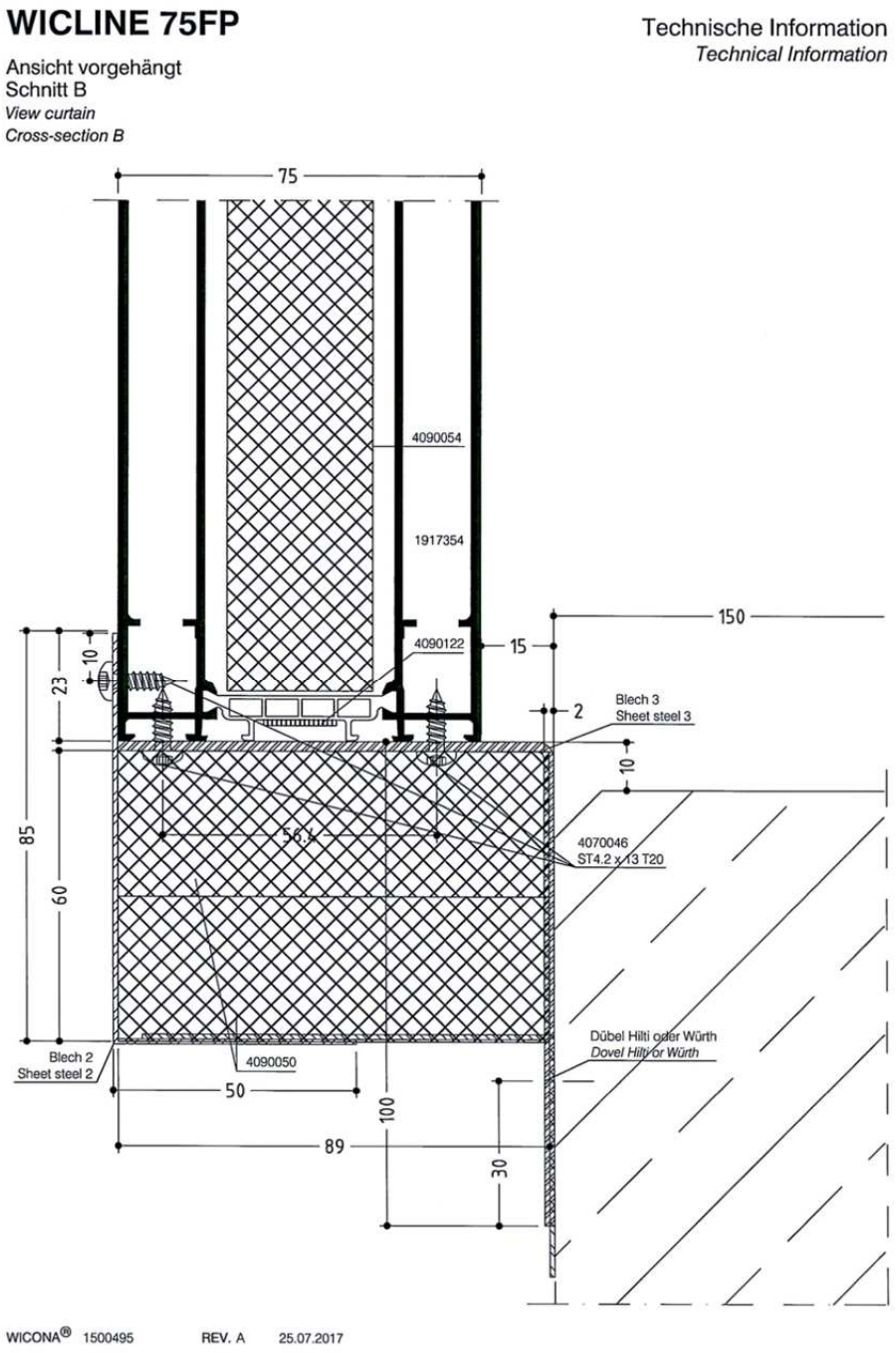
Drawing [8]: Variant I of junction to walls for frame installation (8 of 8)



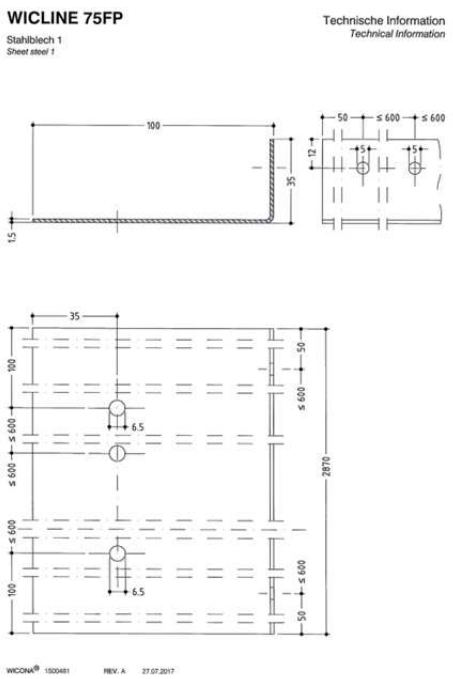
Drawing [9]: Variant II of junction to walls for frame installation (1 of 4)



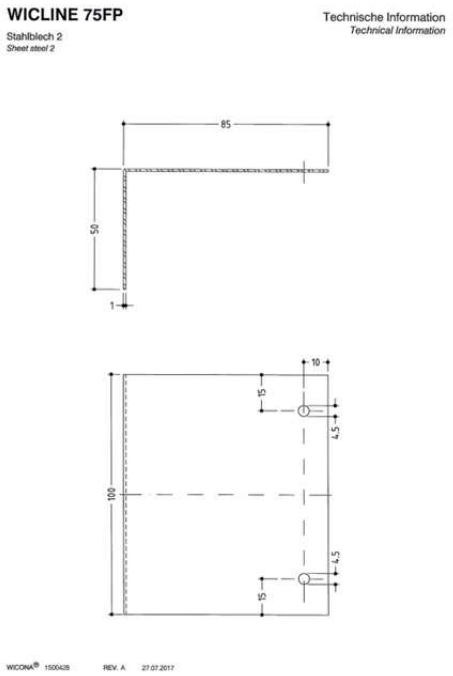
Drawing [10]: Variant II of junction to walls for frame installation (2 of 4)



Drawing [11]: Variant II of junction to walls for frame installation (3 of 4)



Drawing [12]: Variant II of junction to walls for frame installation (4 of 4)



List 1: Glass family Pyrostop 30-xx, IGU (double or triple)

Type	maximum size
Pyrostop 30-15	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-16	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-17	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-18	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-25	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-26	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-27	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-28	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-35	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-36	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-37	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-38	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-15 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-16 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-17 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-18 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-25 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-26 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-27 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-28 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-35 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-36 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-37 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2
Pyrostop 30-38 Triple	W_{max} = 1,234 mm / H_{max} = 2,314 mm / A_{max} = 2.40 m^2

List 2: Glass family FIRESWISS Foam 30-xx, IGU (double or triple)

Type	maximum size
FIRESWISS FOAM 30-15 ISO	W_{max} = 1,390 mm / H_{max} = 2,590 mm / A_{max} = 3.02 m^2
FIRESWISS FOAM 30-16O ISO	W_{max} = 1,390 mm / H_{max} = 2,590 mm / A_{max} = 3.02 m^2
FIRESWISS FOAM 30-19 ISO	W_{max} = 1,390 mm / H_{max} = 2,590 mm / A_{max} = 3.02 m^2
FIRESWISS FOAM 30-20O ISO	W_{max} = 1,390 mm / H_{max} = 2,590 mm / A_{max} = 3.02 m^2

List 3: Glass family Contraflam 30 IGU, IGU (double or triple)

Type	maximum size (W x H)
Contraflam 30 IGU (Basic glass d ≥ 16 mm)	1,158 x 2,158 mm

List 4: Glass family Pyrobel 30 ISO, IGU (double or triple)

Type	maximum size (W x H)
Pyrobel 30 ISO (Basic glass d ≥ 16 mm)	1,118 x 2,118 mm

List 5: Glass family Herofire 30 ISO, IGU (double or triple)

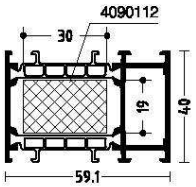
Type	maximum size (W x H)
Herofire 30 ISO	1,158 x 2,198 mm

WICLINE 75FP

Technische Information
Technical Information

Brandschutzfenster
Profilübersicht - Typ A
Fire protection window
Survey of profiles - type A

Blendrahmenprofile
Additional profiles



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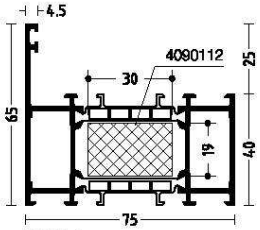

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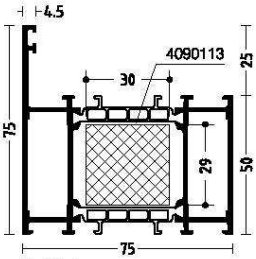

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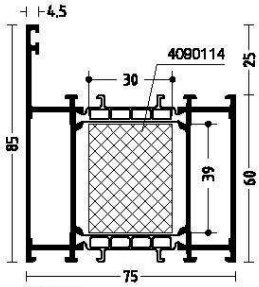

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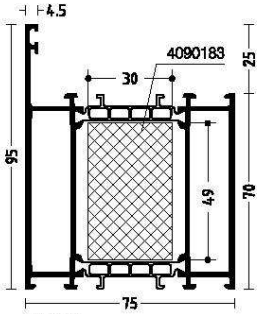

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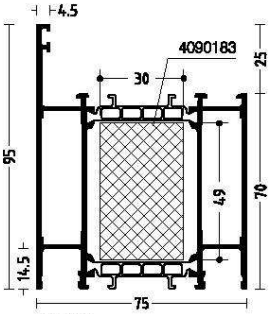

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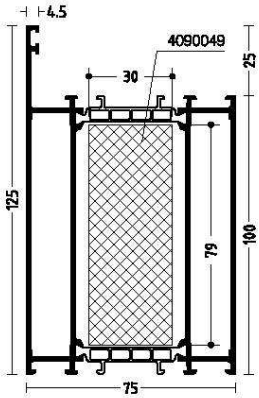

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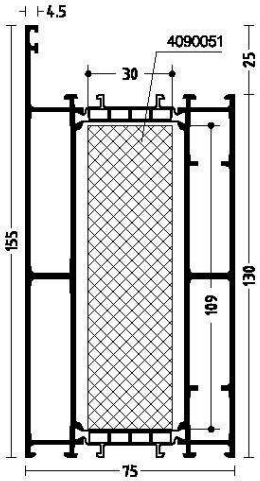

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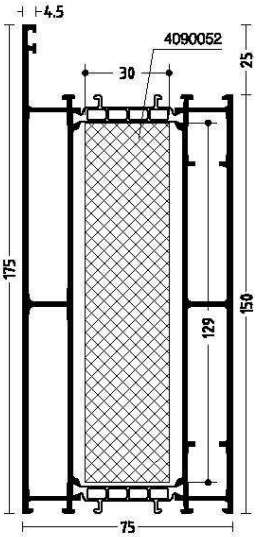

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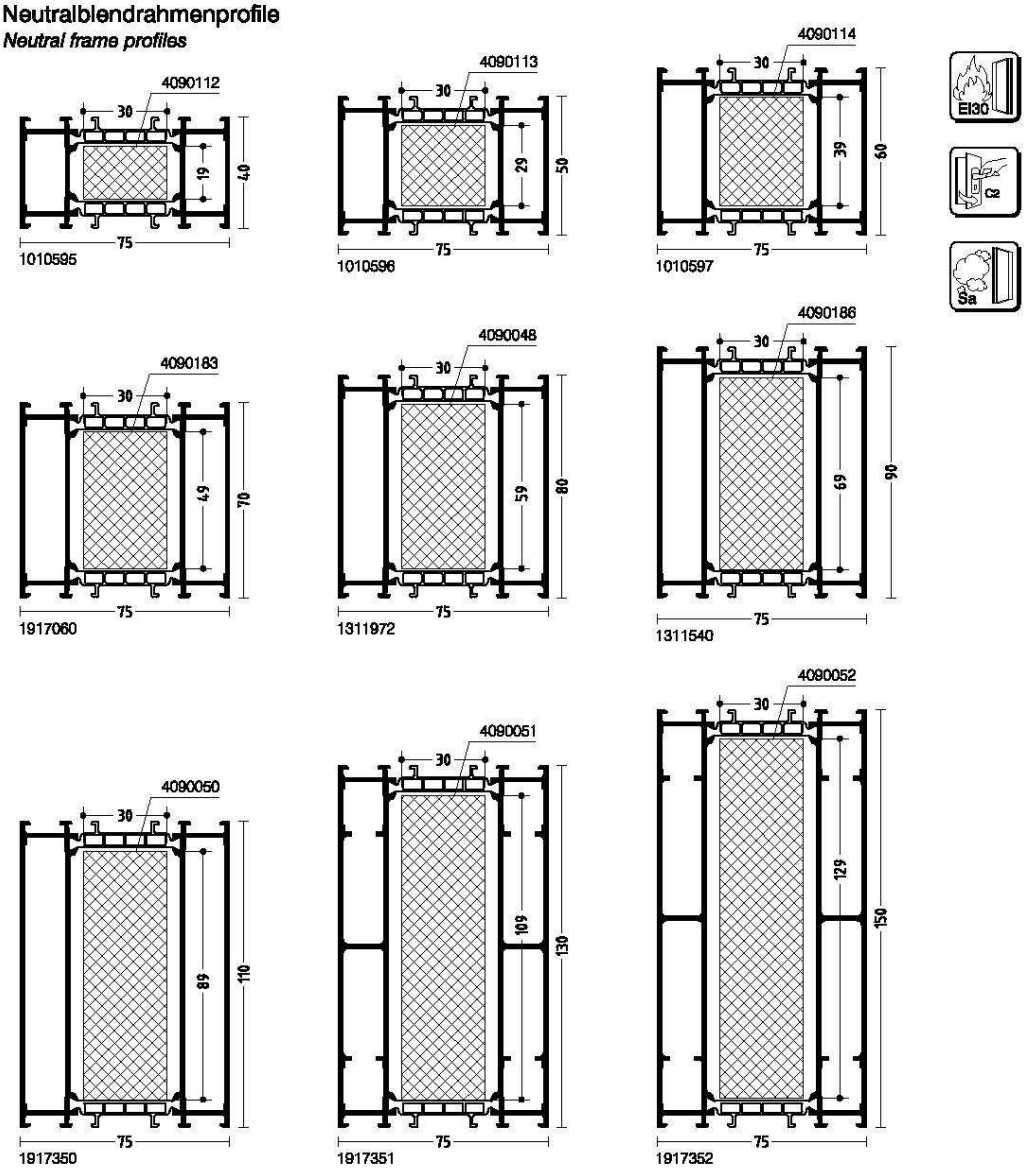
WICLINE 75FP

Technische Information
Technical Information

Brandschutzfenster
Profilübersicht - Typ A
Fire protection window
Survey of profiles - type A

Neutralblendrahmenprofile
Neutral frame profiles



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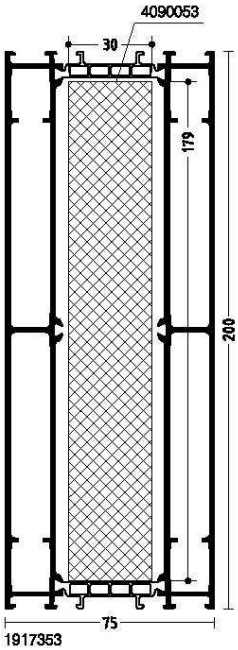
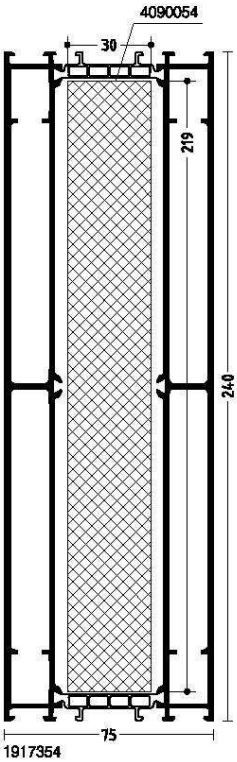
WICLINE 75FP

Technische Information
Technical Information

Brandschutzfenster
Profilübersicht - Typ A
Fire protection window
Survey of profiles - type A

Neutralblendrahmenprofile
Neutral frame profiles



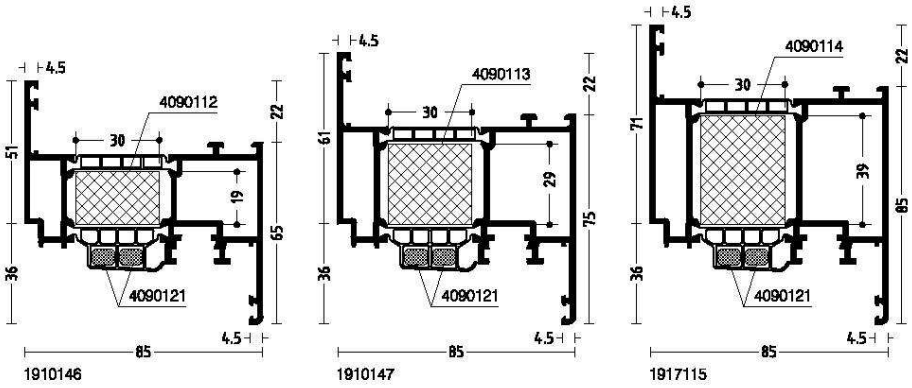


WICLINE 75FP

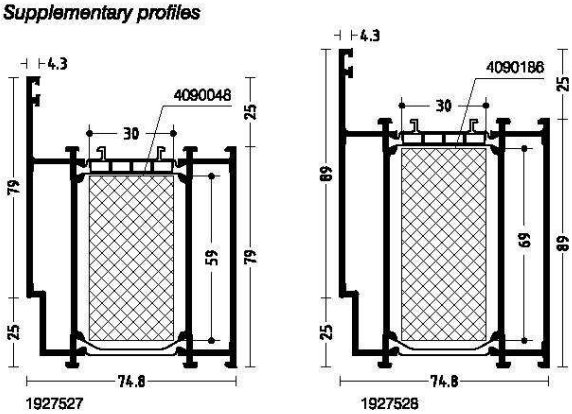
Technische Information
Technical Information

Brandschutzfenster
Profilübersicht - Typ A
Fire protection window
Survey of profiles - type A

Flügelprofile
Sash profiles



Aufsatzprofile
Supplementary profiles

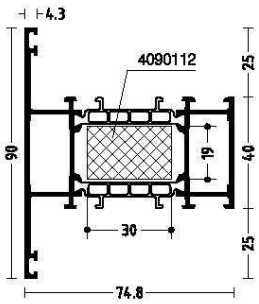


WICLINE 75FP

Technische Information
Technical Information

Brandschutzfenster
Profilübersicht - Typ A
Fire protection window
Survey of profiles - type A

Kämpferprofile
Transom profiles



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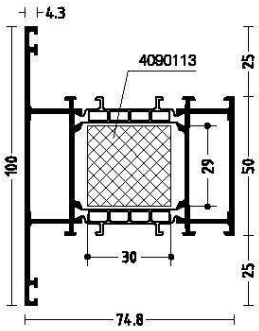

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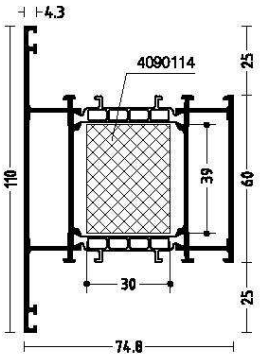

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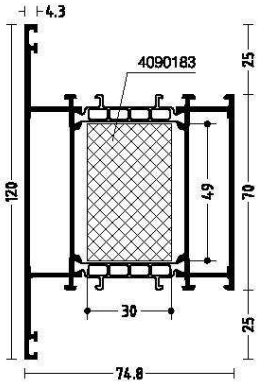

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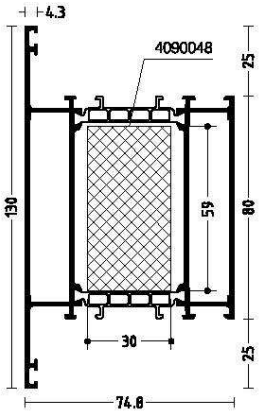

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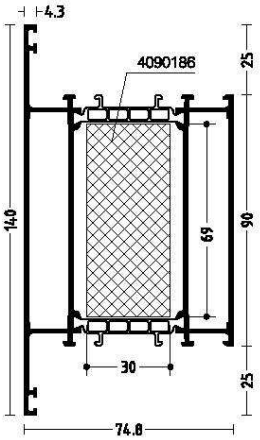

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Technische Information
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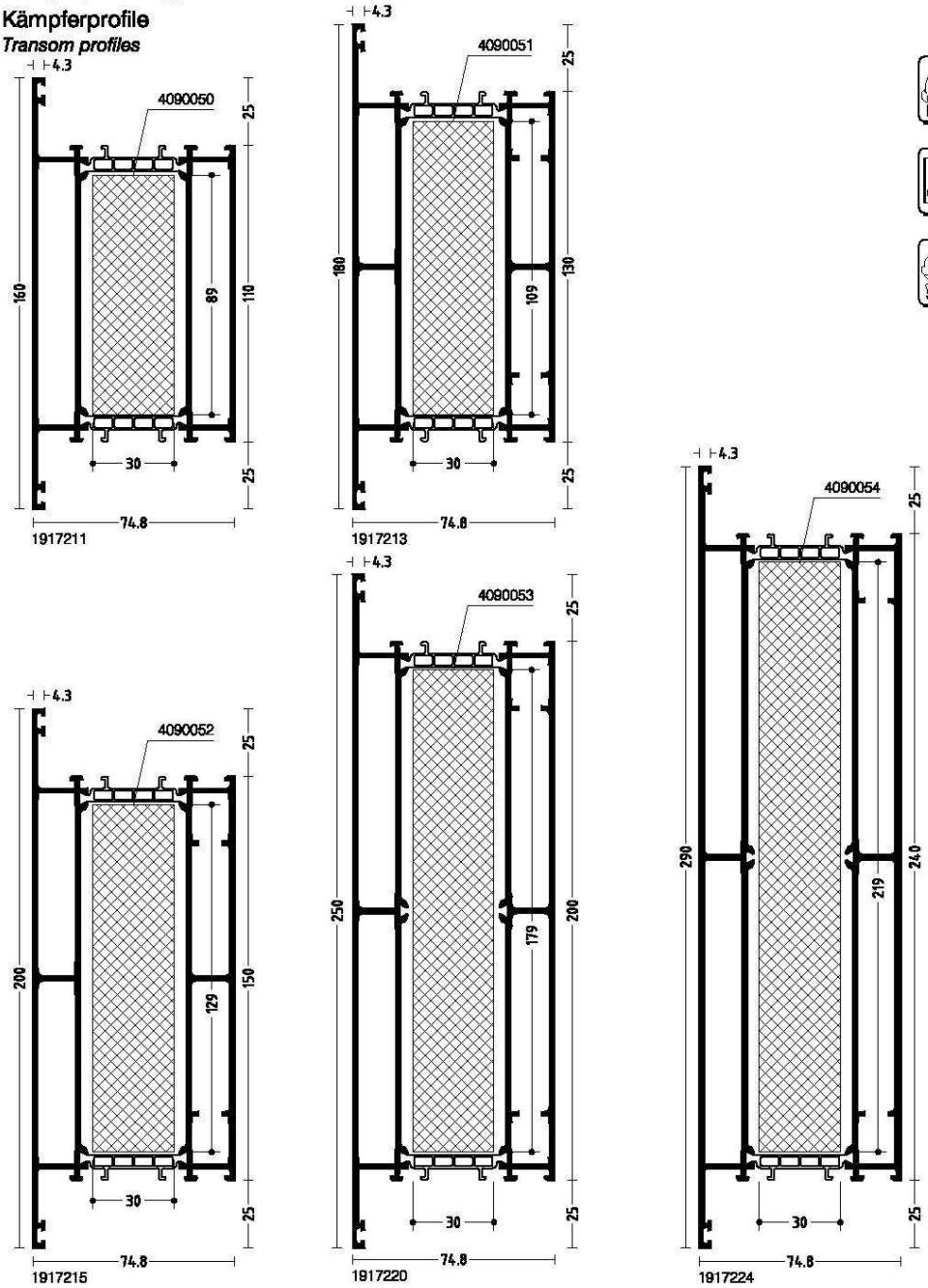

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