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AB 1596

Extended Application Report – Fire resistance
No. 2075/C/2023/R/2

Sponsor:

VITRINTEC Sp. z o.o.

Karola Olszewskiego 23, 25-663 Kielce

NIP: 959-196-70-51

Date of issue: 07.04.2025

1 Date and identification number of the report

– 07.04.2025

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2 Laboratory's logo

CERTBUD

3 Owner of the report

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4 Introduction

The following extended application report refers to the test results obtained according to the test method: PN-EN 1634-1+A1:2018-03 Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware – Part 1: Fire resistance tests for doors, shutters and openable windows.

The direct application procedure was carried out in conformity with following standard PN-EN 1634-1+A1:2018-03 Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware – Part 1: Fire resistance tests for doors, shutters and openable windows.

The extended application process also applies, if any as defined in the following product standard PN-EN 15269-5 + A1:2016-11 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.

The following extended application report was issued based on the test results and the relevant part(s) of the standard EN 15269 as per issuing.

The following report has 33 pages and may only be used or reproduce in its entirety.

5 Details of the construction element

- Product: Door CLASSIC FS
- Product's standard: PN-EN 16034:2014-11
- Product's family: fire-resistant door
- Intended application: in fire barriers as fire-resistant door
- Final application: in fire barriers as fire-resistant door

6 Description of the specimen

The doors and their construction are shortly described below. The tested doors are described in detail in the relevant test reports given in Section 7.1. In brackets ( ) are the sponsor's catalogue numbers.

6.1 Construction cross-sections

Figure no. 1: General view

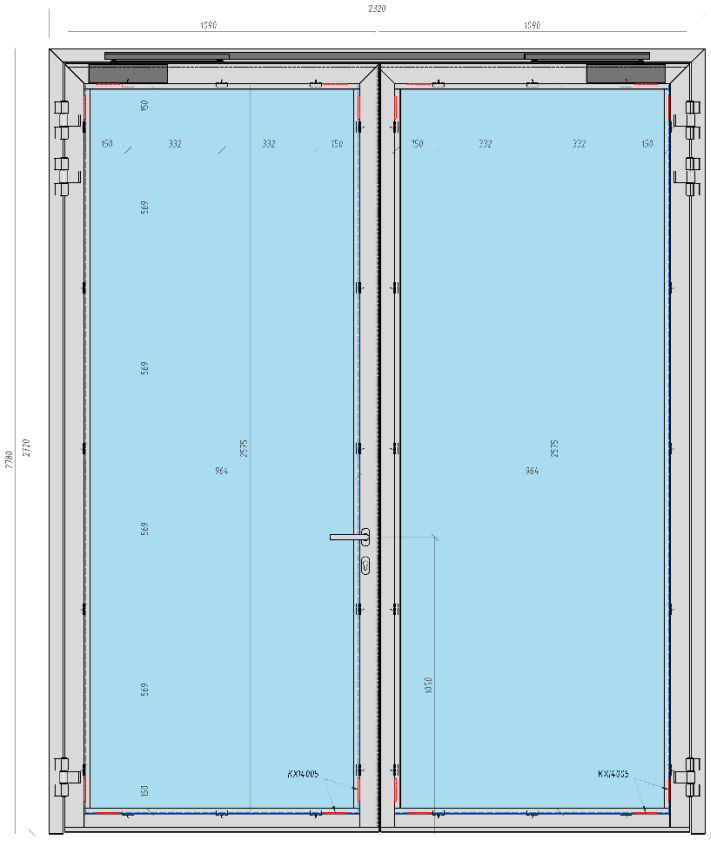
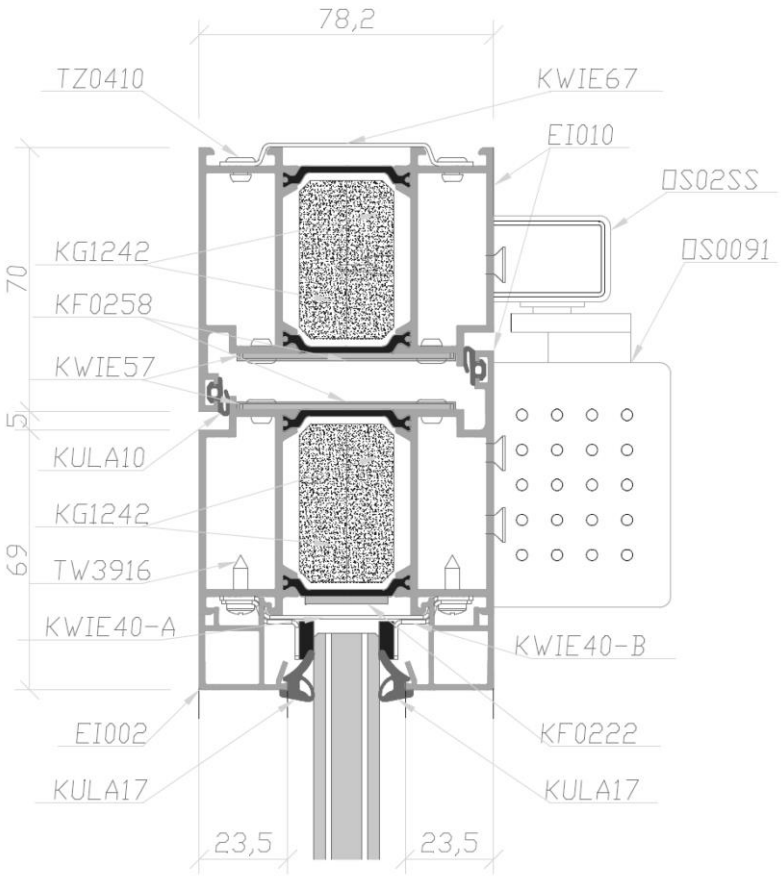
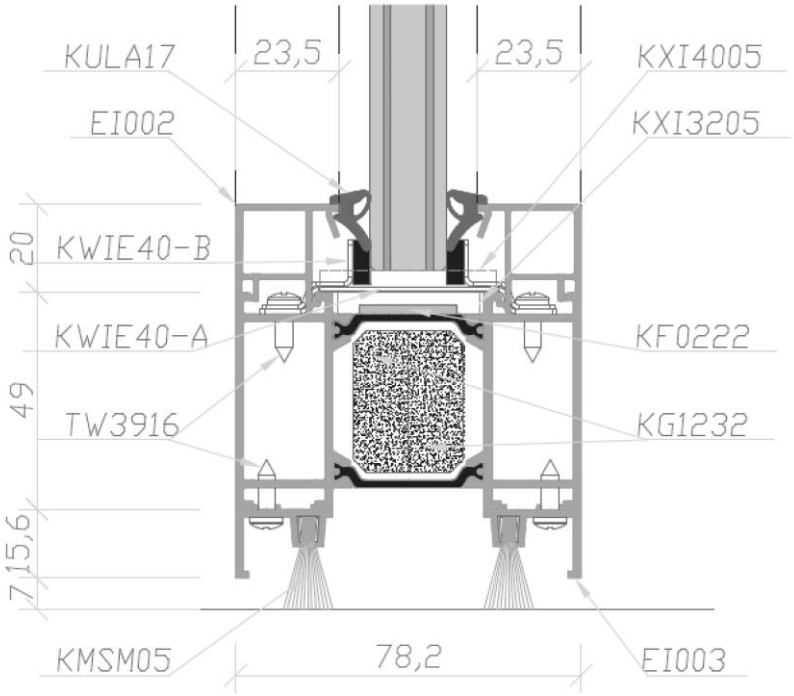


Figure no. 2: Cross-section of the lintel



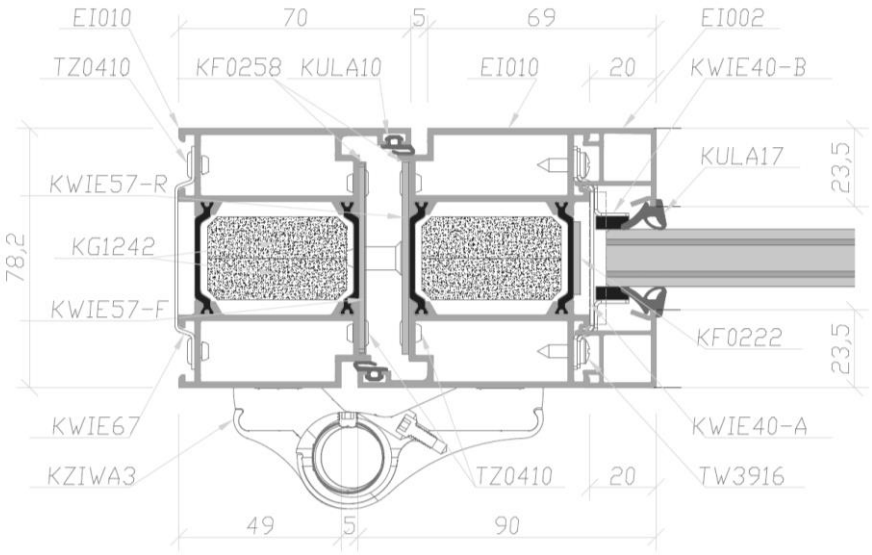
(TZ0410) – rivet Ø4 x 10 mm,
(KG1242) – infill of central chamber of frame profiles, stands and leaf lintel made of GKF board,
(KF0258) – intumescent seal2 x 58 mm,
(KWIE57) – set: dog bolt and strike plate ,
(KULA10) – rebate gasket,
(TW3916) – screw Ø3,9 x 16 mm,
(KWIE40-A) – steel bracket for mounting the glazing ,
(KWIE40-B) – steel bracket for mounting the glazing ,
(EI002) – glazing bead,
(KULA17) – glazing gasket,
(KWIE67) – fixing plate,
(EI010) – frame profile, stands and leaf lintel,
(OS02SS) – rail of door closer,
(OS0091) – door closer,
(KF0222) – intumescent seal2 x 22 mm.

Figure no. 3: Cross-section of threshold



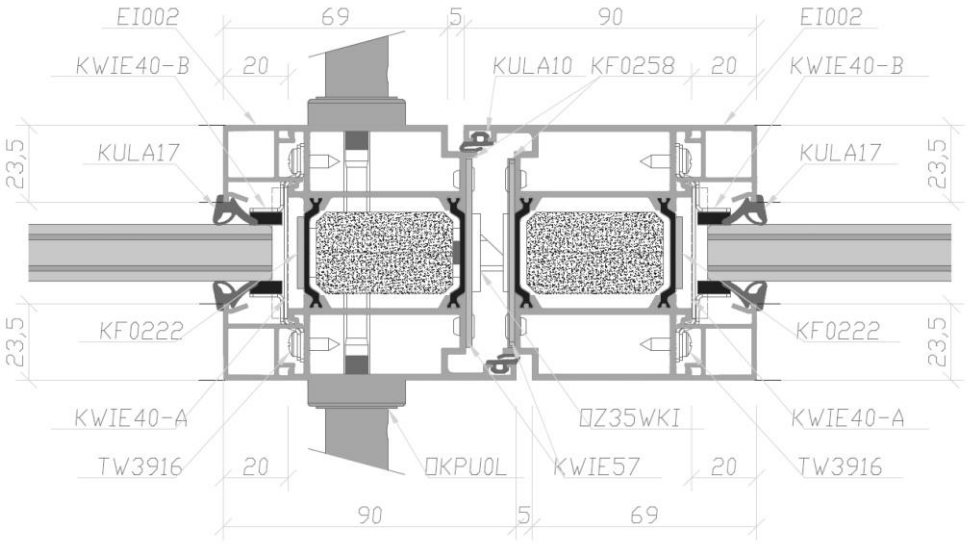
(KULA17) – glazing gasket,
(EI002) – glazing bead,
(KWIE40-A) – steel bracket for mounting the glazing ,
(KWIE40-B) – steel bracket for mounting the glazing ,
(TW3916) – screw Ø3,9 x 16 mm,
(KMSM05) – brush seal,
(KXI4005) – wooden washer 2 x 38 x 80 mm,
(KXI3205) – wooden washer5 x 34 x 80 mm,
(KF0222) – Intumescent seal2 x 22 mm,
(KG1232) – leaf threshold profile centre chamber infill,
(EI003) – cover profile on the threshold edge.

Figure no. 4: Cross-section of hinge edge



(EI010) – frame profile, stands and leaf lintel,
(TZ0410) – rivet Ø4 x 10 mm,
(KWIE57-R) – dog bolt,
(KWIE57-F) – strike plate of dog bolt,
(KG1242) – infill of central chamber of frame profiles, stands and leaf lintel made of GKF board,
(KWIE67) – fixing plate,
(KZIWA3) – hinge WALA WX,
(TW3916) – screw Ø3,9 x 16 mm,
(KWIE40-A) – steel bracket for mounting the glazing ,
(KWIE40-B) – steel bracket for mounting the glazing ,
(KF0222) – intumescent seal 2 x 22 mm,
(KULA17) – glazing gasket,
(EI002) – glazing bead,
(KULA10) – rebate gasket,
(KF0258) – intumescent seal 2 x 58 mm.

Figure no. 5: Cross-section of lock edge



(EI002) – glazing bead,
(KWIE40-A) – steel bracket for mounting the glazing ,
(KWIE40-B) – steel bracket for mounting the glazing ,
(KULA17) – glazing gasket,
(KF0222) – Intumescent seal2 x 22 mm
(TW3916) – screw Ø3,9 x 16 mm,
(OKPU0L) – handle DORMAKABA PURE 8906,
(KWIE57) – set: dog bolt and strike plate ,
(OZ35WKI) – lock WILKA 638N
(KF0258) – intumescent seal2 x 58 mm,
(KULA10) – rebate gasket.

6.2 Supporting construction and fixing method

6.2.1 Description of the supporting construction

Standard flexible supporting construction in accordance with EN 1363-1:2020-07 section 7.2.2.4. 100 mm thick wall made of 75 mm wide, 0.6 mm thick steel U-profiles, 75 mm wide, 2 mm thick steel U-profiles and 75 mm wide, 0.6 mm thick C-profiles, filled internally with mineral wool (50 mm thick, density approx. 50 kg/m^3) and covered on both sides with 12.5 mm thick F-type plasterboard.

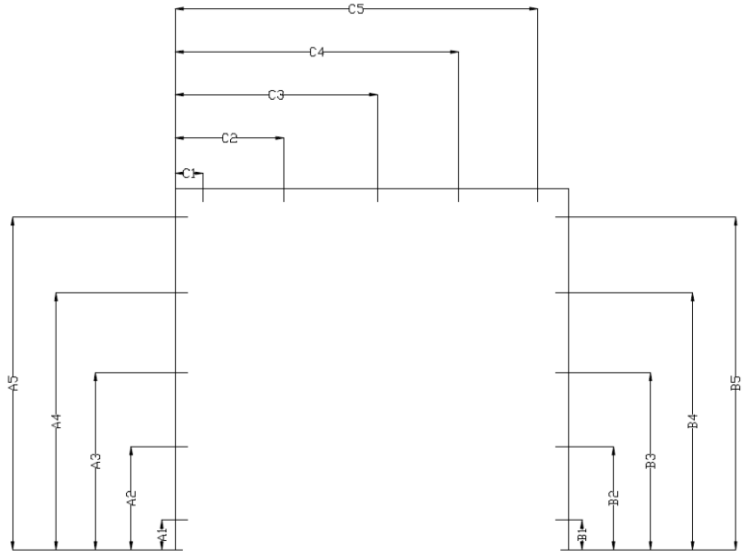
6.2.2 Method of fixing to the supporting construction

Two A2 steel rivets (TZ0410) measuring Ø4 x 10 mm are fastened to the frame profiles on the supporting construction side using two mounting plates (KWIE67), through which Wurth AMO III mounting screws measuring Ø7.5 x 82 mm are passed at 1 screw per mounting plate. 15 mounting plates and 15 mounting screws - five for each stand and lintel - were used to install the frame to the supporting construction.

Spacing of fixing elements (see Figure 6):
– Maximum distance from frame corners: 250
– Maximum distance between fixing points: 590 mm

Installation gap filled with WURTH-FOAM FP fire-resistant polyurethane foam with a density of 1.9 g/cm^3.

Figure no. 6: Spacing of fixing elements



No.	A	B	C
1	200	200	250
2	790	790	705
3	1380	1380	1165
4	1965	1965	1620
5	2530	2530	2070

6.3 Frame construction

6.3.1 Frame construction

The frame, with external dimensions of 2320 x 2780 mm, is constructed from profiles (EI010) of AW6063 T5 aluminium alloy sections with a construction depth of 78.2 mm, separated by thermal breaks. The profiles have a three-chamber construction. The central chamber is fitted with 2 F-type plasterboard inserts (KG1242) measuring 12.5 x 42 mm.

Figure no. 7: (EI010) – frame profile

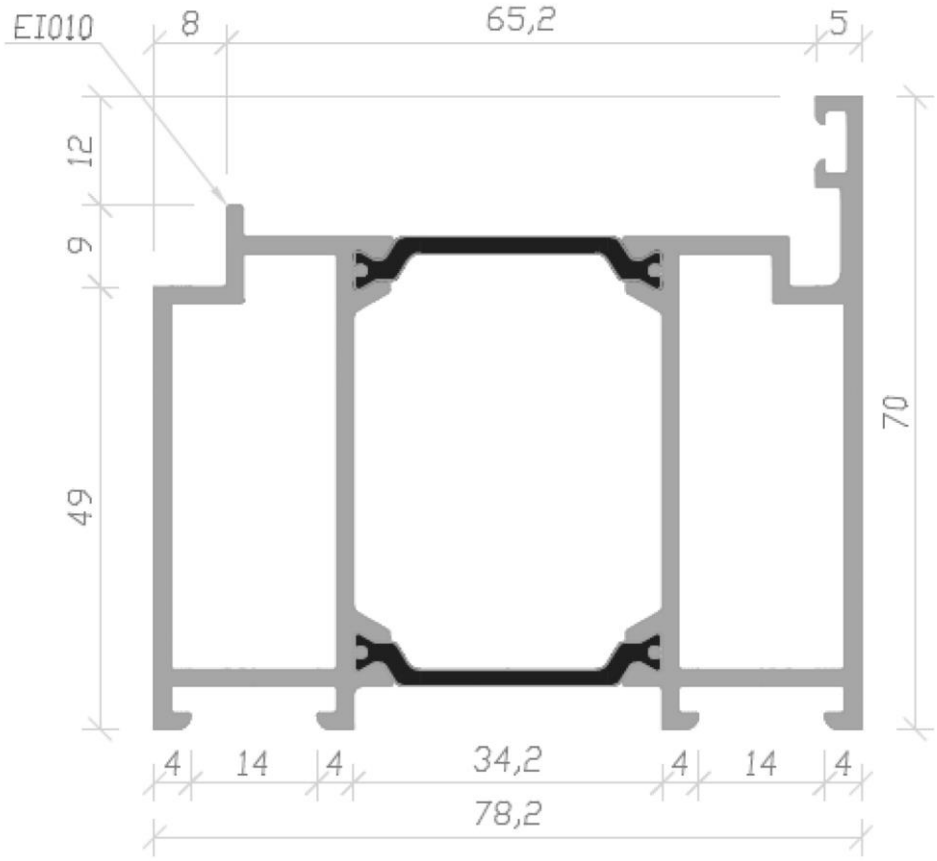
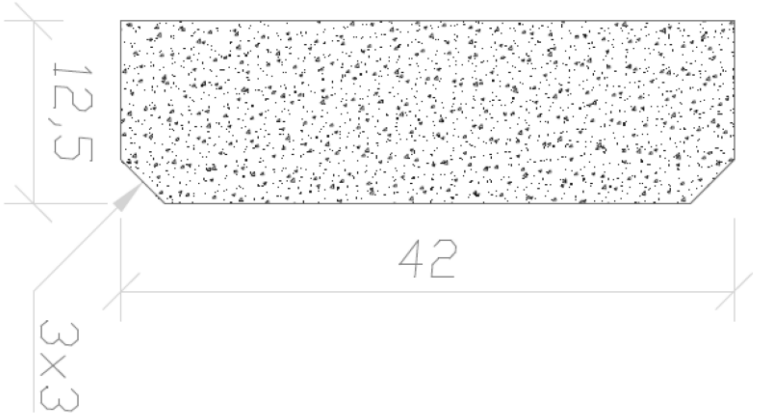


Figure no. 8: (KG1242) – central profile chamber infill (EI010)



6.3.2 Connection method

The corners of the frame are cut at an angle of 45° and joined by crimping using corners (EI005) made of AW6063 T5 aluminium alloy and infill (KG104L) made of F-type GK boards, placed in the outer chambers of the profiles, two per joint.

Figure no. 9: Corner connection

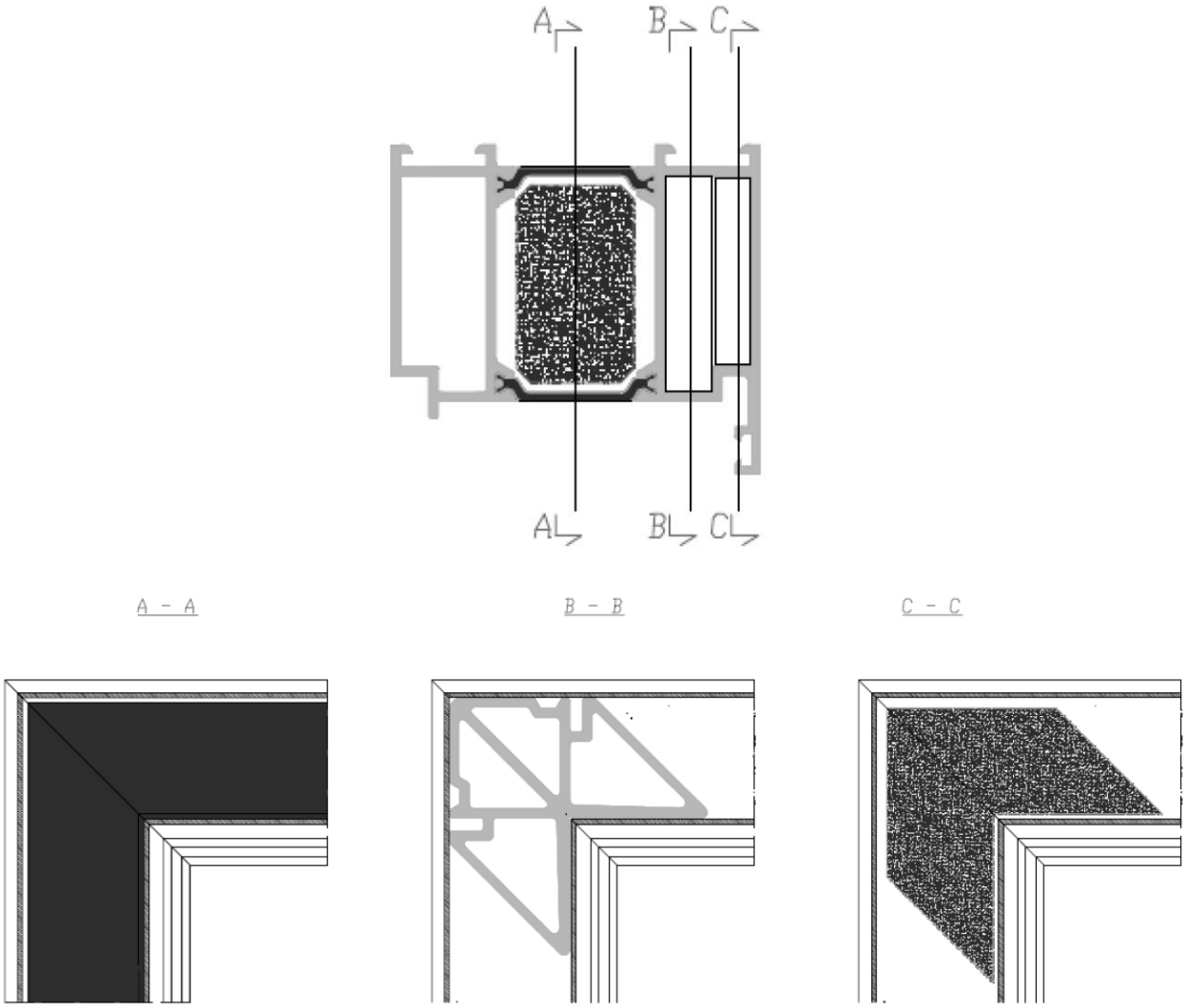


Figure no. 10: (EI005) – aluminium connector

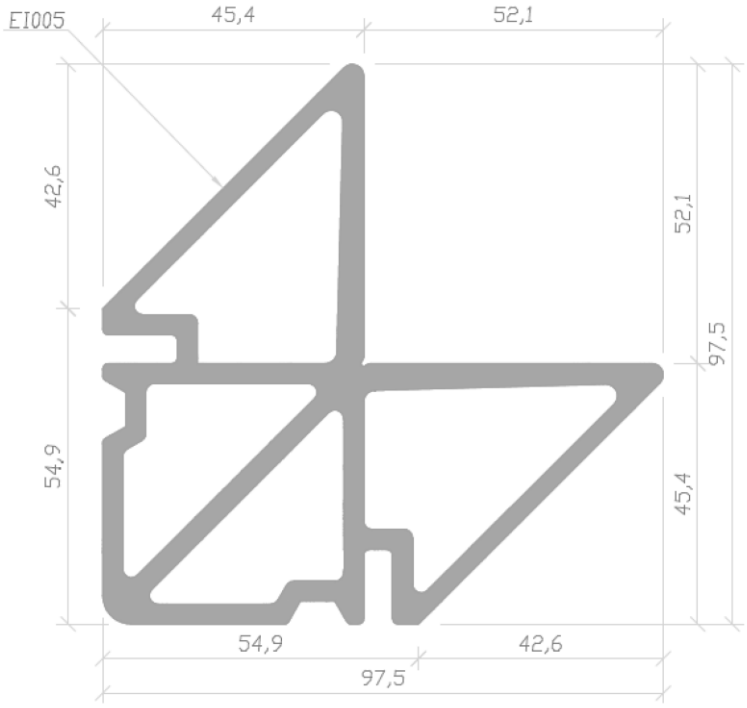
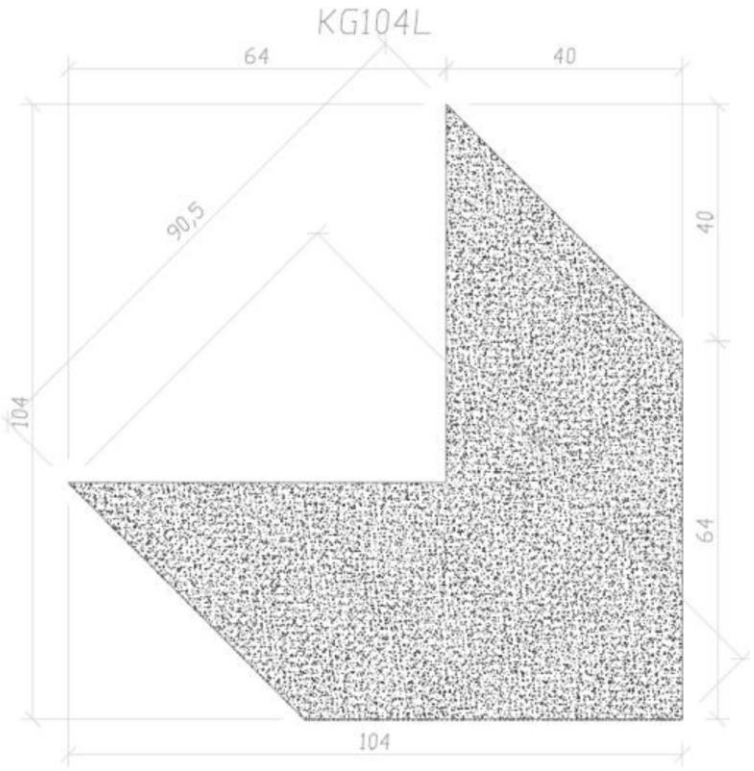


Figure no. 11: (KG104L) – infill

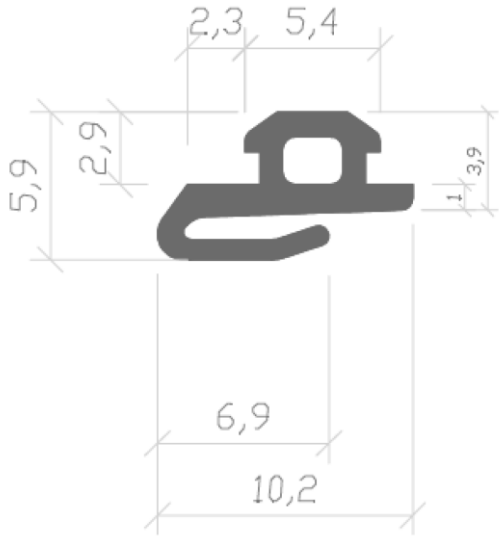


6.3.3 Gaskets

6.3.3.1 2.2.3.4.1 Rebate gaskets

On the vertical stands and the lintel, rebate gaskets (KULA10) of type KA-15 manufacturer AiB are placed in specially shaped grooves, the dimensions of which are in accordance with figure no. 12.

Figure no. 12: (KULA10) – rebate gasket



6.3.3.2 Intumescent seal

A 2 x 58 mm intumescent seal (KF0258) type KERAFIX FXL 200 from the manufacturer ROLF KUHN is glued to the stand profiles and lintel from the inside.

Figure no. 13: (KF0258) – intumescent seal

6.4 Door leaf construction

6.4.1 Door leaf construction

The leaf with external dimensions of 1090 x 2720 mm is constructed from AW6063 T5 aluminium alloy profiles with a construction depth of 78.2 mm, separated by thermal breaks. The hinge, lock and lintel frame profiles are made of 70 mm wide profiles (EI010). The central chambers of the profiles (EI010) hold 2 plasterboard inserts (KG1242) measuring 12.5 x 42 mm. The threshold frame is made of a profile (EI001) with a width of 49 mm, to which two supplementary profiles (EI003) with dimensions as shown in Figure 18 are screwed. 2 inserts made of GKF board (KG1232) with dimensions of 12.5 x 32 mm are placed in the central chamber of the profile (EI001).

Figure no. 14: (EI010) – hinge, lock and lintel frame profile

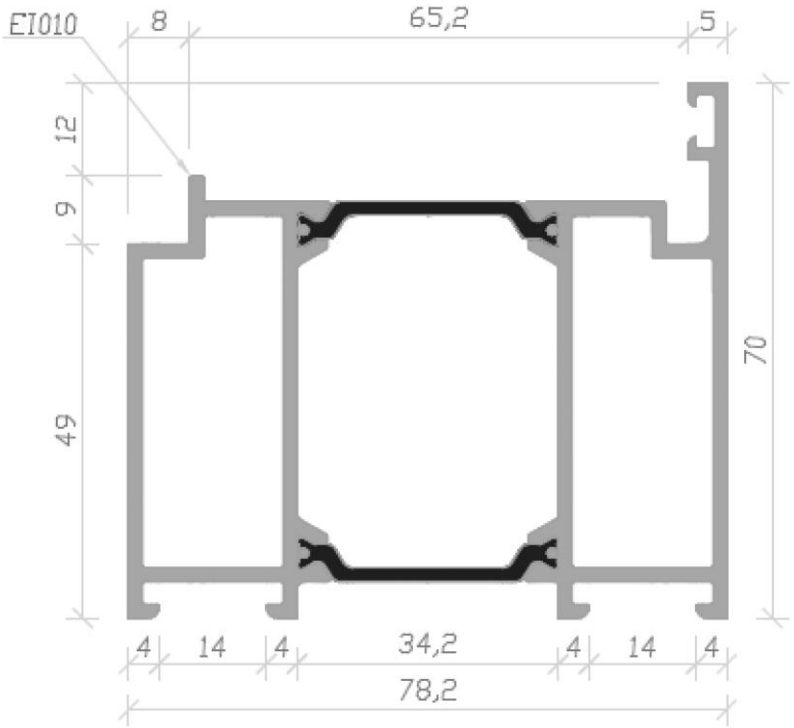


Figure no. 15: (KG1242) – Infill of central profile chamber (EI010)

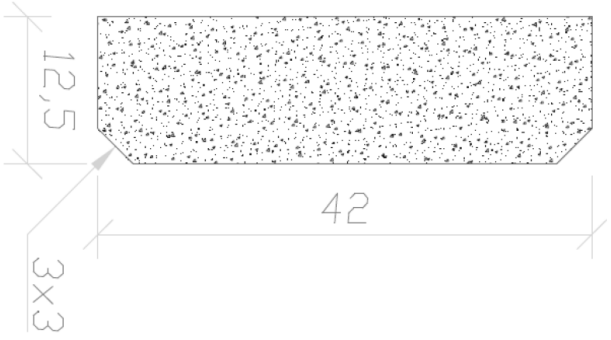


Figure no. 16: (EI001) – threshold frame profile

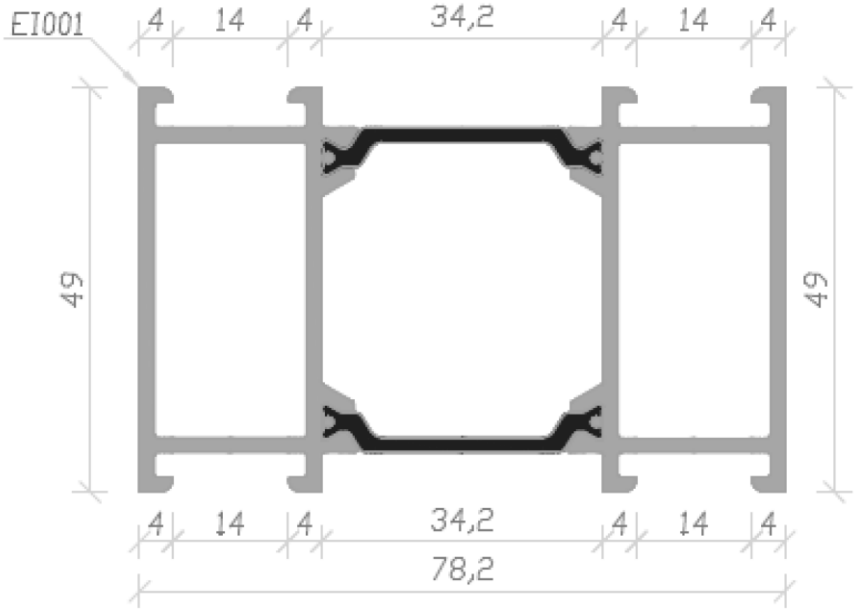


Figure no. 17: (KG1242) – Infill of central profile chamber (EI001)

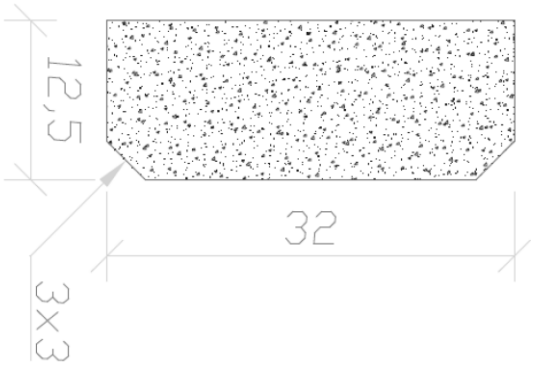
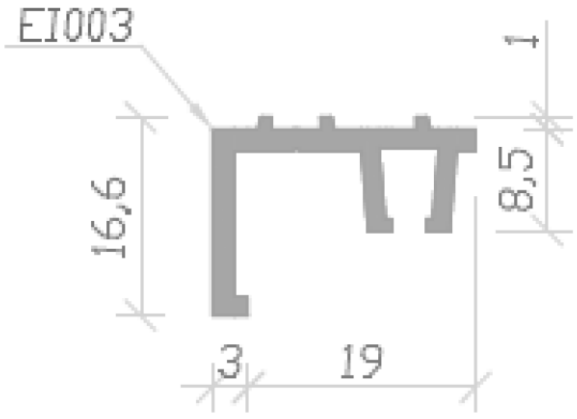


Figure no. 18: (EI003) – supplementary profile



6.4.2 Connection method

6.4.2.1 Connection type „L"

The corners of the frame are cut at an angle of 45° and joined by crimping using corners (EI005) made of AW6063 T5 aluminium alloy and infill (KG104L) made of F-type GK boards, placed in the outer chambers of the profiles, two per joint., placed in the outer chambers of the profiles, two per joint.

Figure no. 19: Corner connection

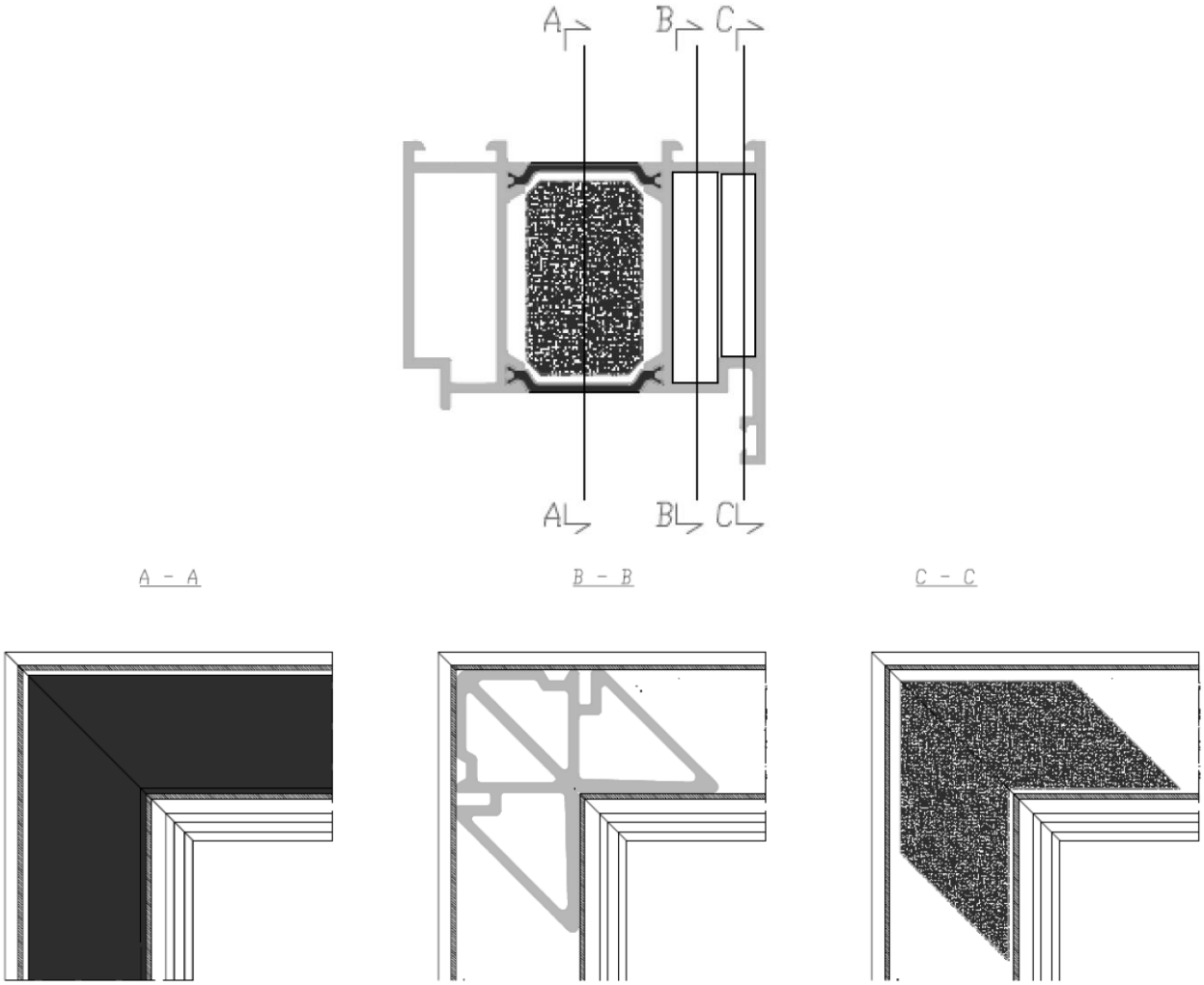


Figure no. 20: (EI005) – aluminium corner

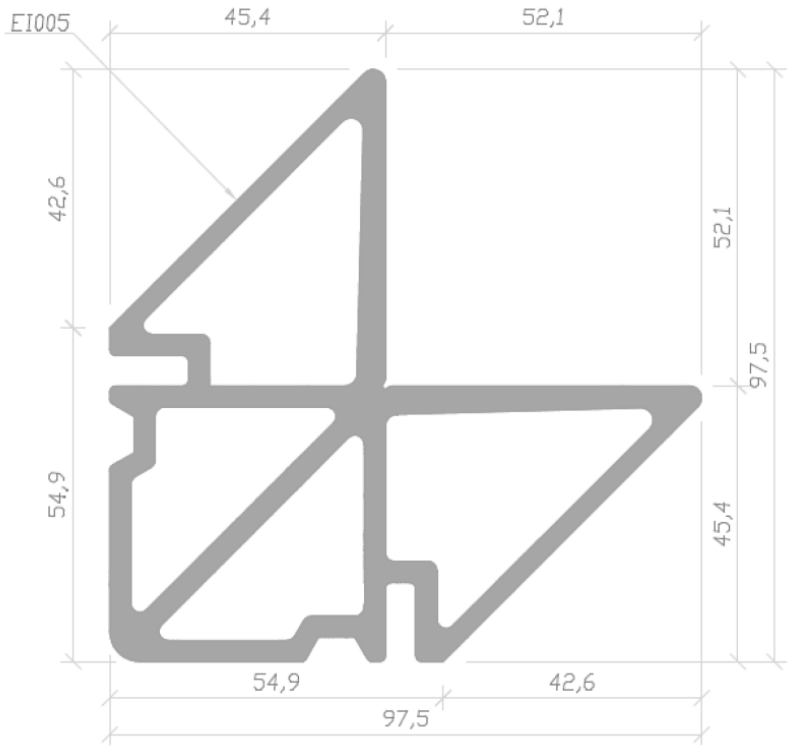
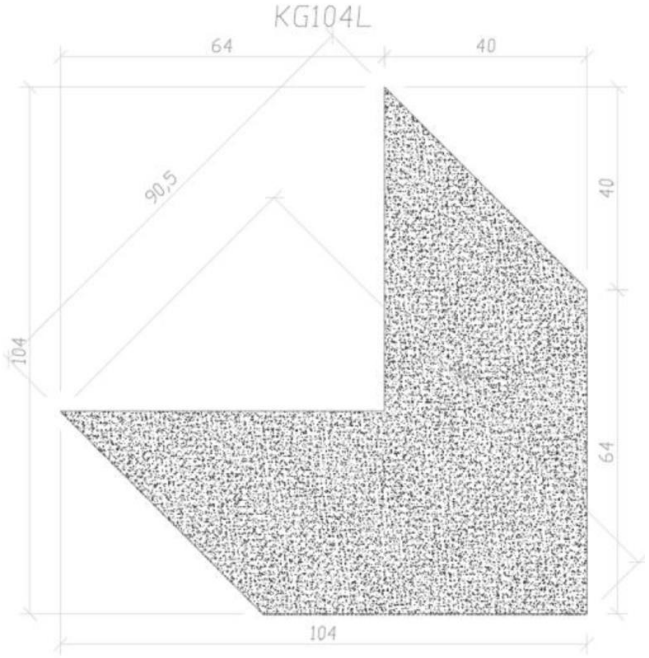


Figure no. 21: (KG104L) – corner infill



6.4.2.2 Connection type „T"

The bottom corners of the leaf are connected by pinning using two connectors (KMEI06) screwed with screws (TS16M5) Ø5 x 16 mm (one screw per connector). The connectors are screwed into the outer chambers of the stand profiles (EI010), onto which the threshold frame profile (EI001) is slipped. The connection is pinned using two dowels (TC0106-OA2).

Figure no. 22: Corner connection

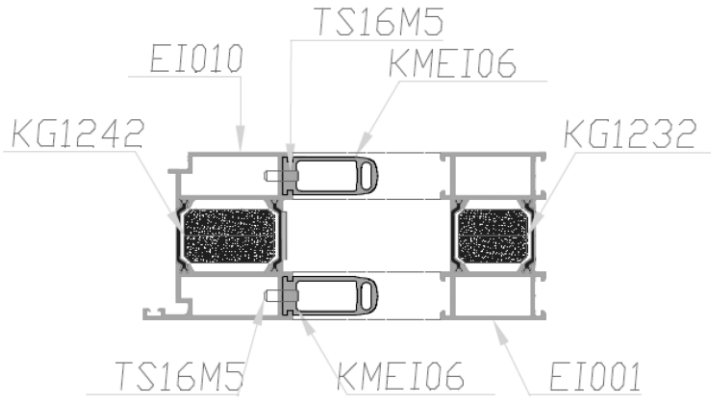


Figure no. 23: (KMEI06) – connector type „T"

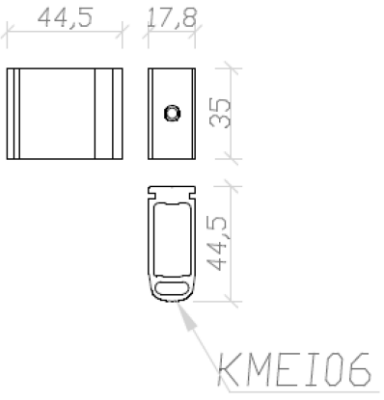
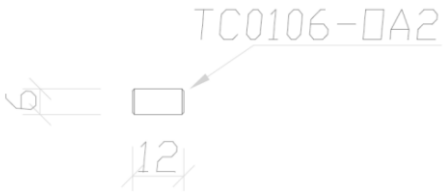


Figure no. 24: (TC0106-OA2) – connector type „T”

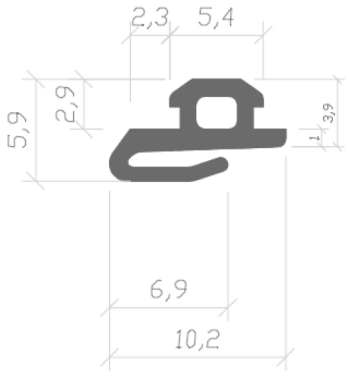


6.4.3 Gaskets

6.4.3.1 Rebate gasket

On the vertical stands and the lintel of the leaf, rebate gaskets (KULA10) type KA-15 from manufacturer AiB are placed in specially shaped grooves. with dimensions according to figure no. 25

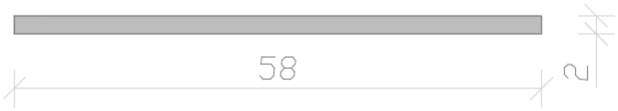
Figure no. 25: (KULA10) – rebate gasket



6.4.3.2 Intumescent seal

A 2 x 58 mm intumescent seal (KF0258) type KERAFIX FXL 200 from the manufacturer ROLF KUHN is glued to the stand profiles and lintel from the outside.

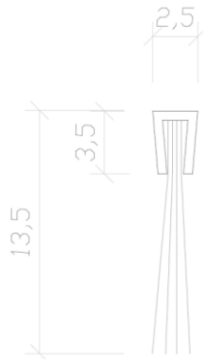
Figure no. 26: (KF0258) – intumescent seal



6.4.3.3 Brush seal

Two brush gaskets (KMSM05) type 5 from the manufacturer Industrie Bursten are placed on the supplementary profile (EI003) located on the threshold edge of the leaf in specially shaped grooves.

Figure no. 27: (KMSM05) – brush seal



6.5 Passive leaf construction

6.5.1 Leaf construction

The leaf with external dimensions of 1090 x 2720 mm is constructed from AW6063 T5 aluminium alloy profiles with a construction depth of 78.2 mm, separated by thermal breaks. The hinge, lock and lintel frame profiles are made of 70 mm wide profiles (EI010). The central chambers of the profiles (EI010) hold 2 plasterboard inserts (KG1242) measuring 12.5 x 42 mm. The threshold frame is made of a profile (EI001) with a width of 49 mm, to which two supplementary profiles (EI003) with dimensions as shown in Figure 32 are screwed. 2 inserts made of GKF board (KG1232) with dimensions of 12.5 x 32 mm are placed in the central chamber of the profile (EI001).

Figure no. 28: (EI010) – hinge, lock and lintel frame profile

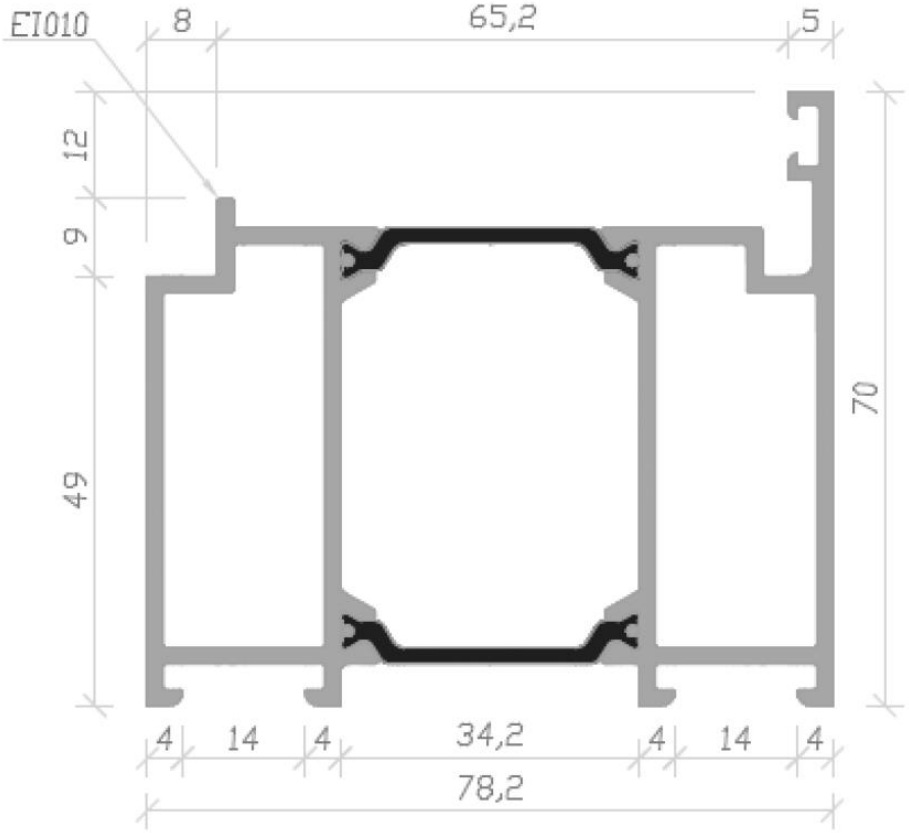


Figure no. 29: (KG1242) – insert of central profile chamber (EI010)

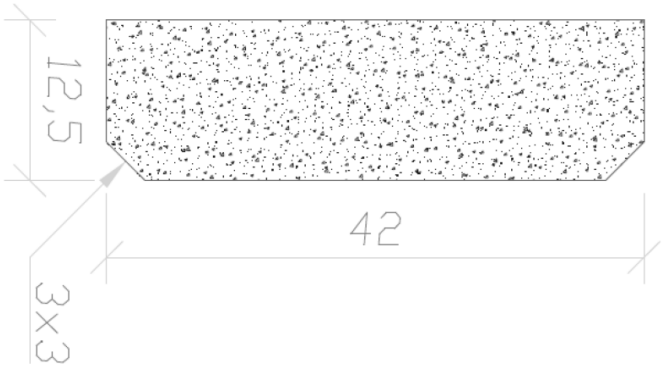


Figure no. 30: (EI001) – threshold frame profile

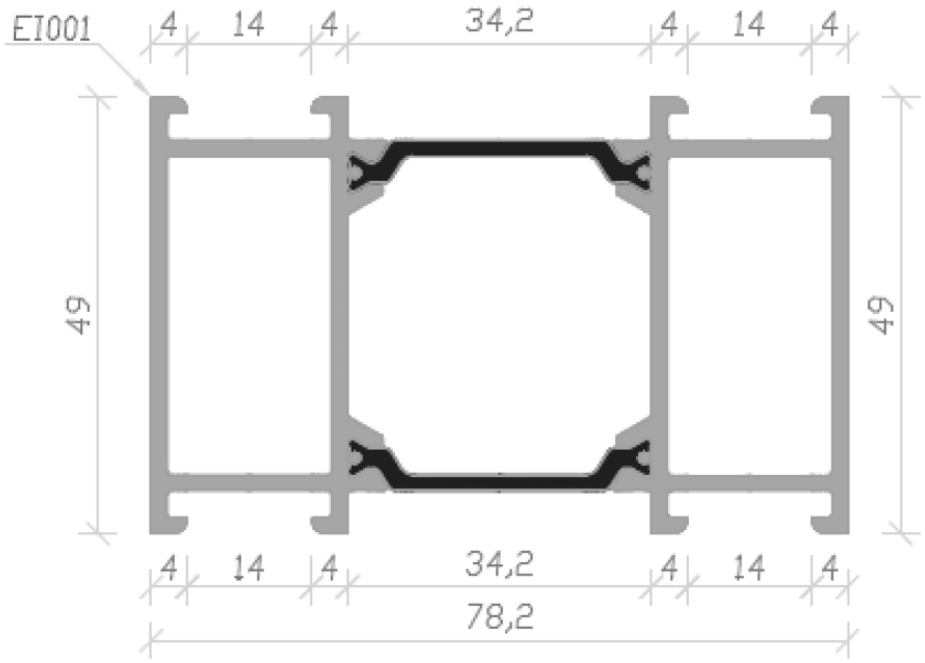


Figure no. 31: (KG1242) – Infill of central profile chamber (EI001)

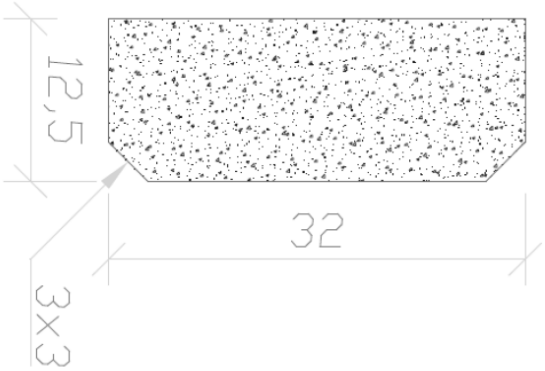
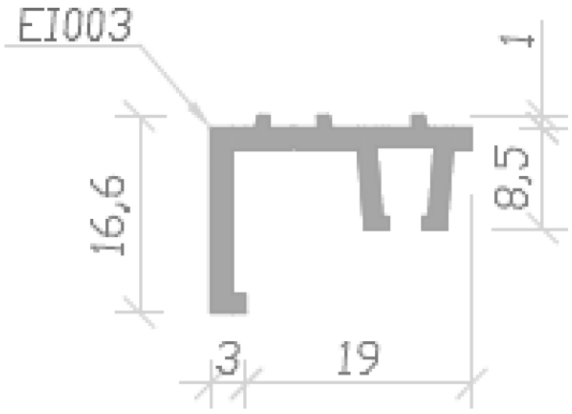


Figure no. 32: (EI003) – supplementary profile



6.5.2 Connection method

6.5.2.2 Connection type „L"

The corners of the frame are cut at an angle of 45° and joined by crimping using corners (EI005) made of AW6063 T5 aluminium alloy and infill (KG104L) made of F-type GK boards, placed in the outer chambers of the profiles, two per joint., placed in the outer chambers of the profiles, two per joint.

Figure no. 33: Corner connection

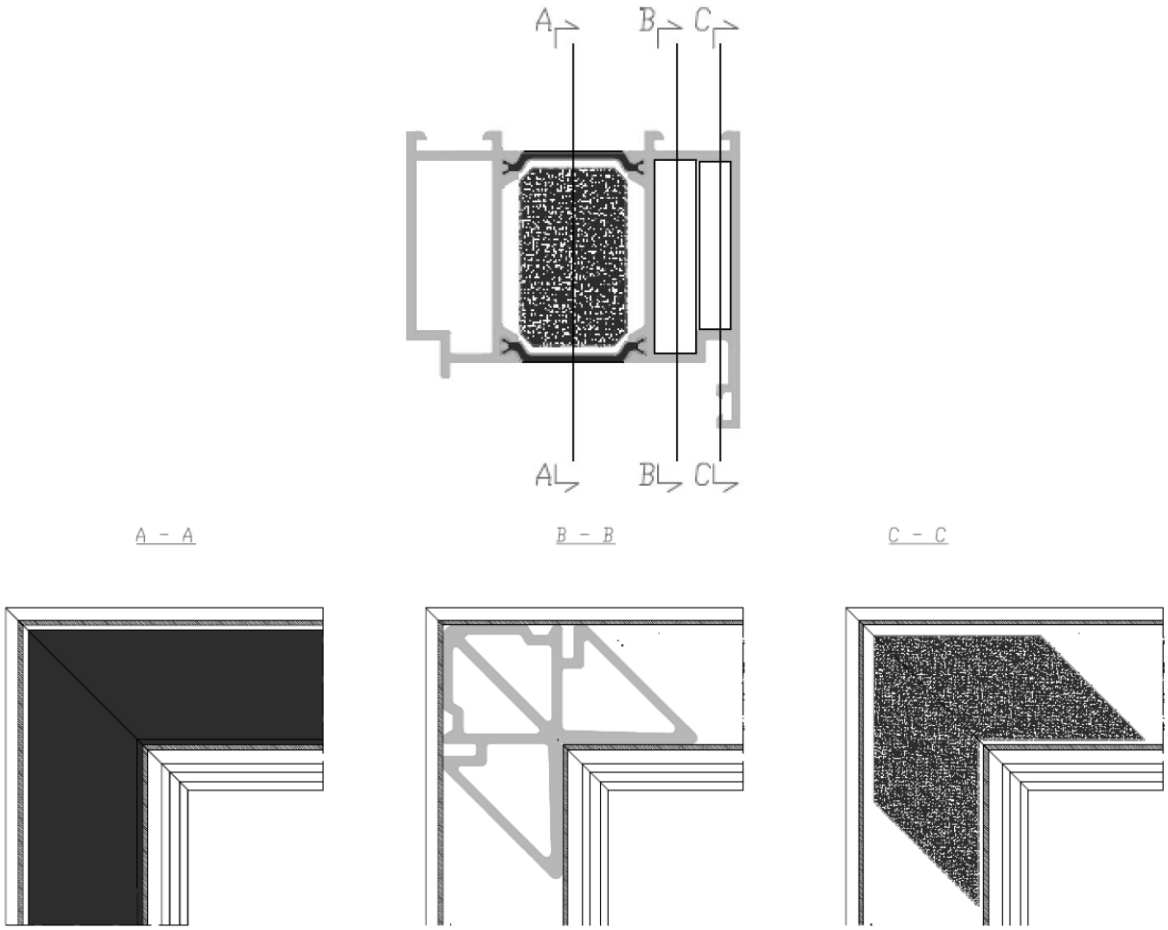


Figure no. 34: (EI005) – aluminium corner

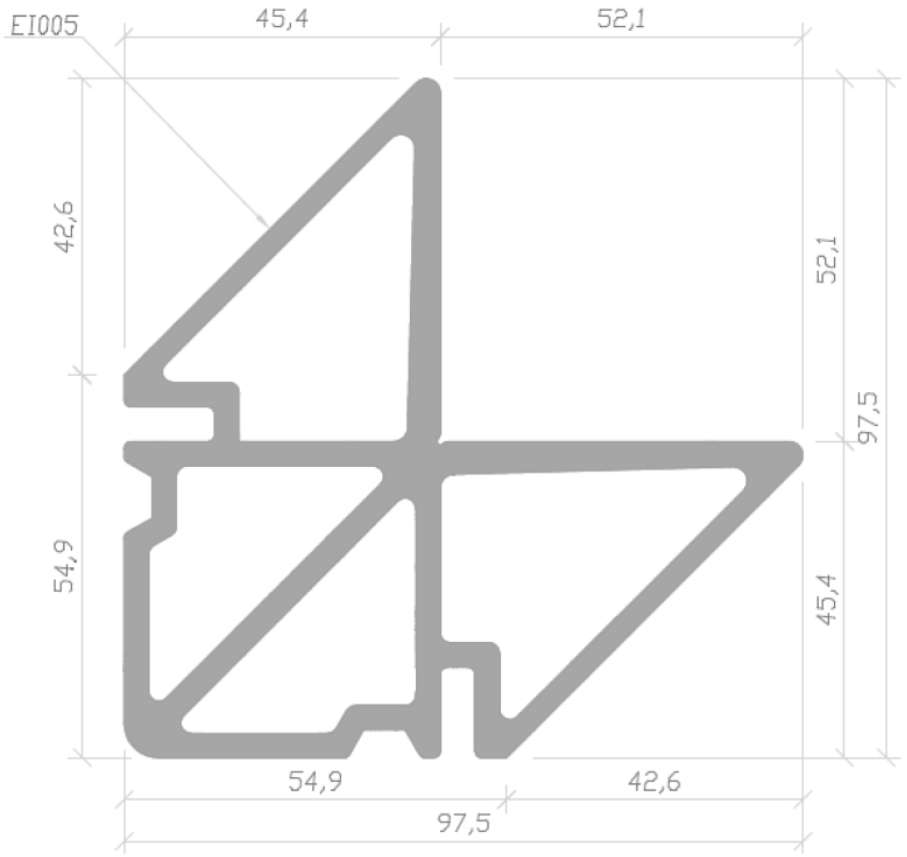
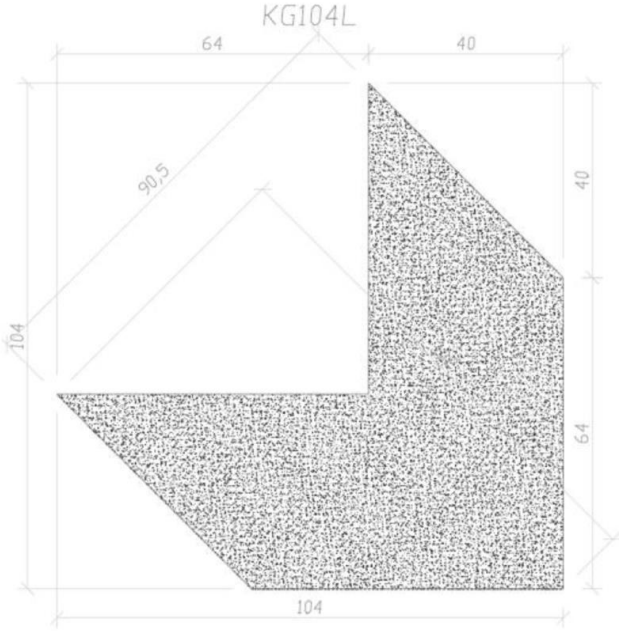


Figure no. 35: (KG104L) – corner infill



6.5.2.2 Connection type „T"

The bottom corners of the leaf are connected by pinning using two connectors (KMEI06) screwed with screws (TS16M5) Ø5 x 16 mm (one screw per connector). The connectors are screwed into the outer chambers of the stand profiles (EI010), onto which the threshold frame profile (EI001) is slipped. The connection is pinned using two dowels (TC0106-OA2).

Figure no. 36: Corner connection

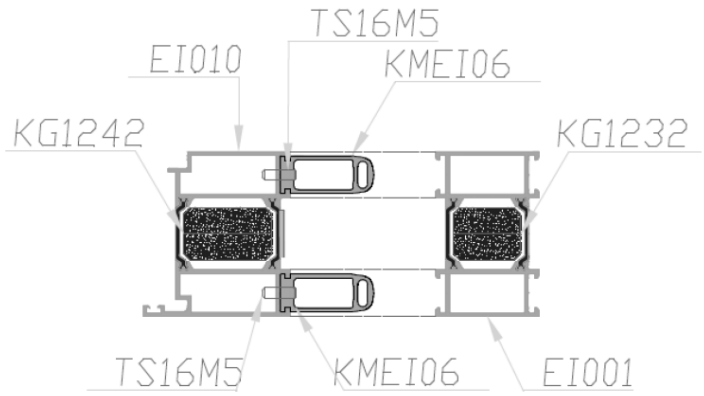


Figure no. 37: (KMEI06) – connector type „T"

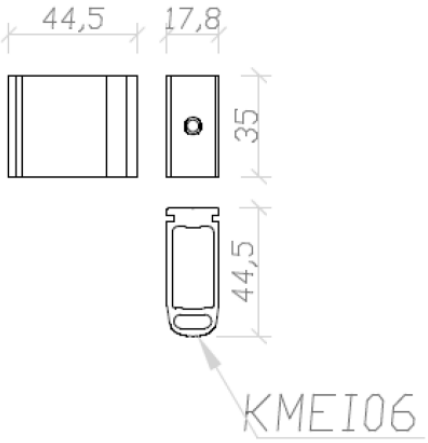
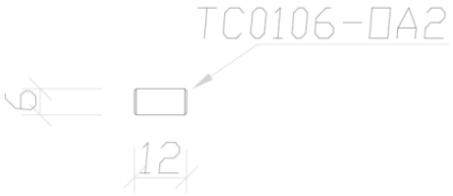


Figure no. 38: (TC0106-OA2) – pin for connection type „T"

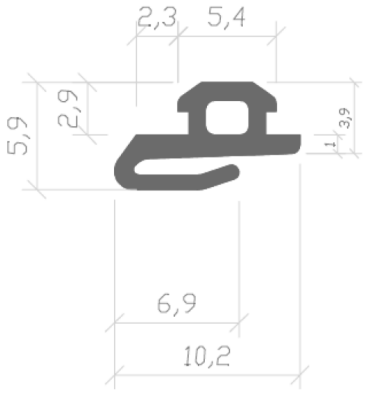


6.5.3 Gasket

6.5.3.1 Rebate gasket

On the vertical stands and the lintel of the leaf, rebate gaskets (KULA10) type KA-15 from manufacturer AiB are placed in specially shaped grooves.

Figure no. 39: (KULA10) – rebate gasket



6.5.3.2 Intumescent seal

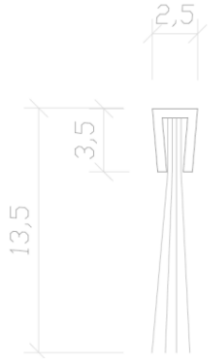
A 2 x 58 mm intumescent seal (KF0258) type KERAFIX FXL 200 from the manufacturer ROLF KUHN is glued to the stand profiles and lintel from the outside.

Figure no. 40: (KF0258) – intumescent seal

6.5.3.3 Brush seal

Two brush gaskets (KMSM05) type 5 from the manufacturer Industrie Bursten are placed on the supplementary profile (EI003) located on the threshold edge of the leaf in specially shaped grooves.

Figure no. 41: (KMSM05) – brush seal



6.6 Glazing system

The glazing of the active and passive leaves is Pyrobel 16 EI 30 glass from the manufacturer AGC, with dimensions of 964 x 2575 mm and a thickness of 17.3 mm. The construction of the glazing is in accordance with fig. no. 43. The glazing is set on steel plates (KWIE40-A) arranged in accordance with fig. no. 42, to which steel grips (KWIE40-B) of size Ø3.9 x 16 mm are screwed on both sides, to which ceramic gaskets (KH0410) of size 4 x 10 mm are glued on both sides of the glazing. In addition, an Intumescent seal(KF0222) with a cross-sectional dimension of 2 x 22 mm is glued to the inner surface of the leaf frame. The translucent filling is placed on wooden glazing washers (KXI4005) measuring 80 x 38 x 2 mm and (KXI3205) measuring 80 x 34 x 5 mm. The glazing closure is made of aluminium glazing beads (EI002) press-fastened to the leaf frames on both sides of the glazing, to which the glazing gasket (KULA17) is press-fastened.

Figure no. 42: Arrangement of plates (KWIE40-A) and handles (KWIE40-B)

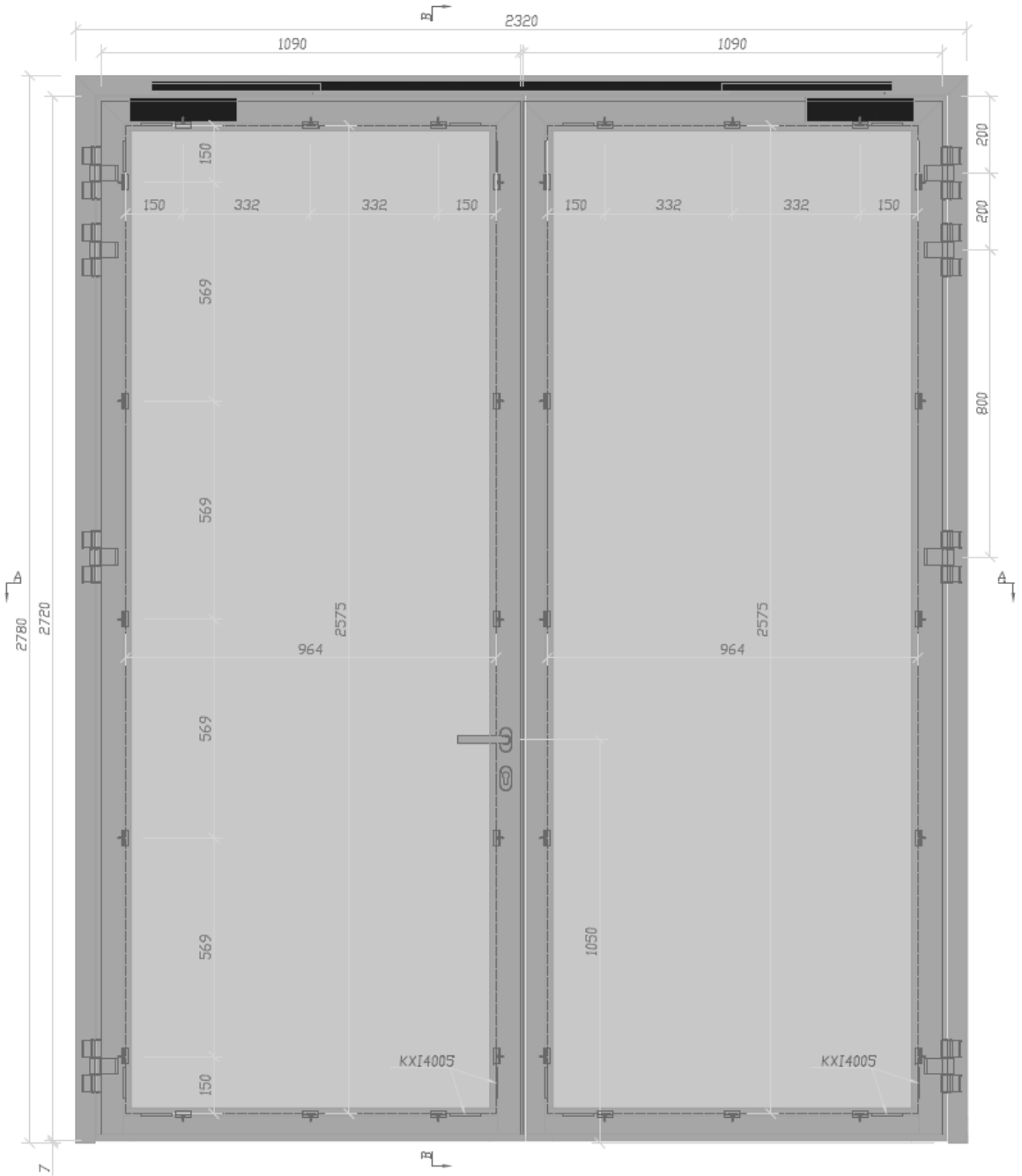


Figure no. 43: Glazing construction

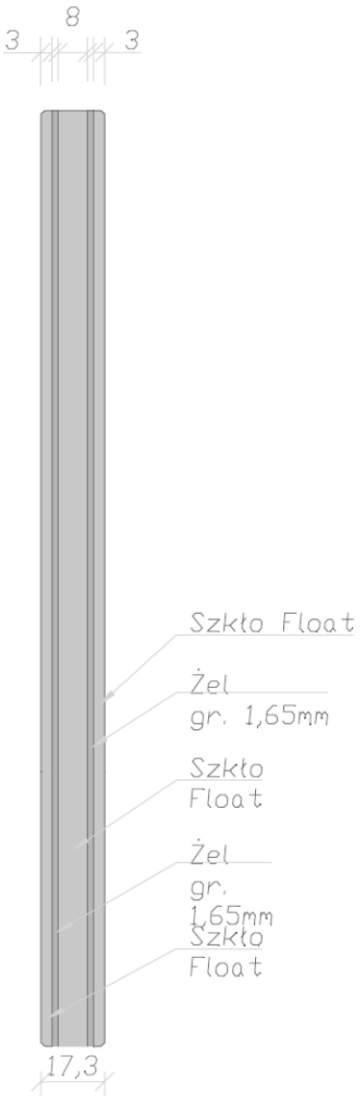


Figure no. 44: (KWIE40-A), (KWIE40-B) – steel glazing plates and handles

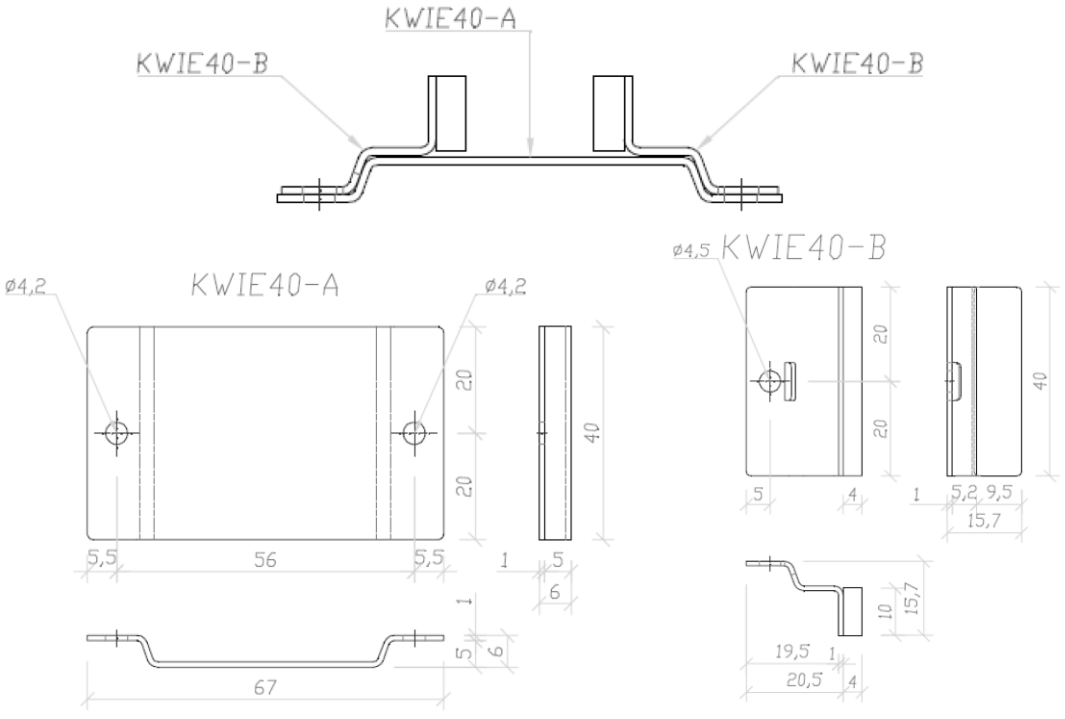


Figure no. 45: (KF0222) – intumescent seal

Figure no. 46: (KH0410) – ceramic tape

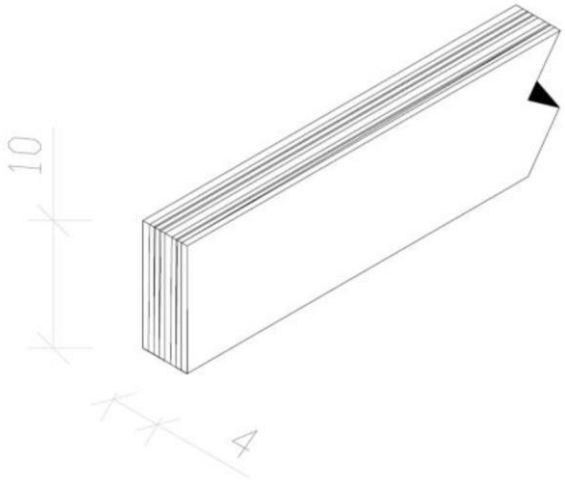


Figure no. 47: (EI002) – glazing bead

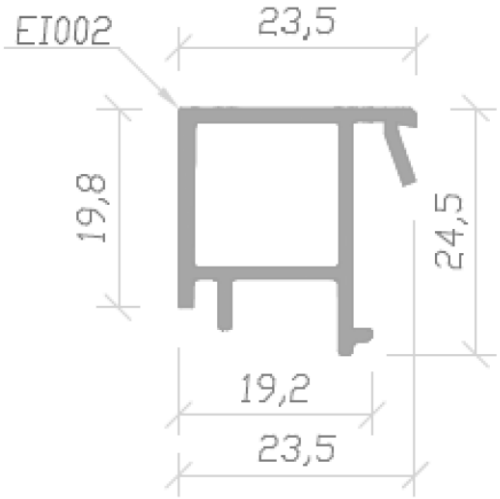


Figure no. 48: (KULA17) – glazing gasket

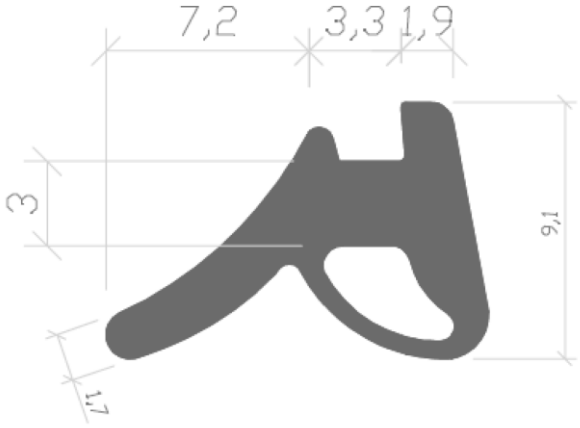


Figure no. 49: (KXI4005) – wooden washer

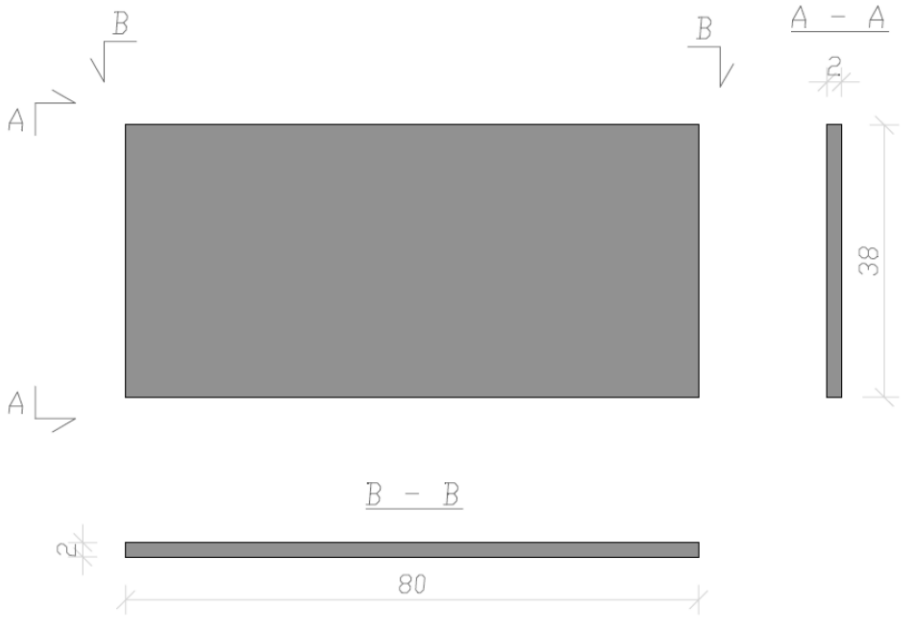
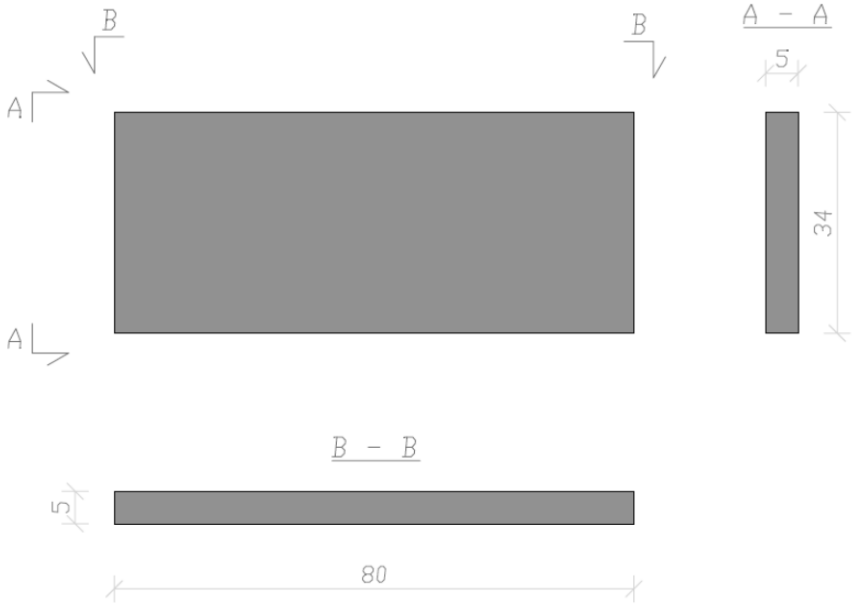


Figure no. 50: (KXI3205) – wooden washer



6.7 Hardware

6.7.1 Hinges

Four hinges (KZIWA3-S) each are screwed to the active and passive leaves with surface-mounted three-wing hinges of the WX type manufactured WALA. The hinges are fixed to the leaf by two and to the frame by four Ø12 x 58 mm screws.

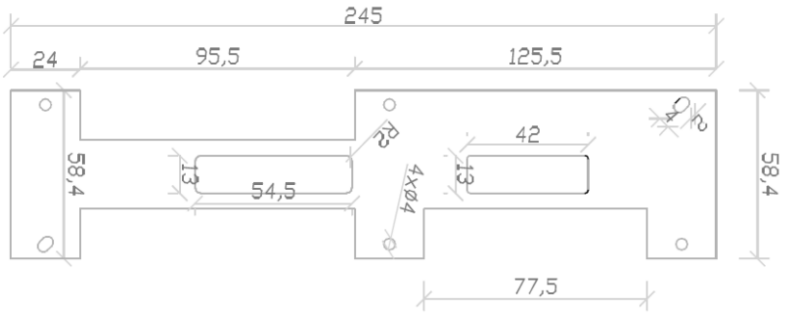
Hinge spacing on the leaf (same for active and passive leaves):

- Distance from bottom edge of bottom hinge to bottom edge of leaf: 135 mm,
- Distance from the bottom edge of the second bottom hinge to the top edge of the bottom hinge: 935 mm,
- Distance from bottom edge of third-bottom hinge to top edge of second-bottom hinge: 935 mm,
- Distance from bottom edge of top hinge to top edge of third from bottom hinge: 70 mm,
- Distance of the top edge of the upper hinge from the top edge of the leaf: 125 mm.

6.7.2 Lock

In the active leaf, a single-point lock (OZ35WKI) type 638N manufacture WILKA is located in a chamber measuring 18 x 49 x 190 mm. The distance from the bottom of the lock latch to the bottom edge of the leaf is 1050 mm. A SysteQ striker plate (KBE01-WKI) from the manufacturer ESCO is fitted to the passive leaf.

Figure no. 51: (KBE01-WKI) – Strike plate



6.7.3 Lock cylinder

A lock cylinder (OW5050) type WY500 50/50 YETI from the manufacturer LOB is fitted to the lock described in section 6.7.2 using a Ø5 x 44 mm screw.

6.7.4 Bolt

A bolt (OBE002) of type Capri 488 from manufacturer Savio is fixed in the passive leaf.

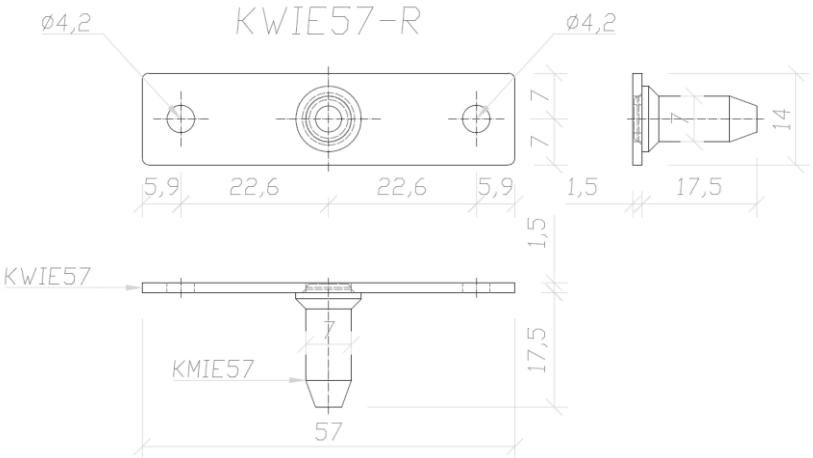
6.7.5 Handle

A handle/knob set (OKPU0L) type Pure 8906 from DORMAKABA is fixed to the active leaf.

6.7.6 Dog bolt

Two dog bolts (KWIE57-R) from the manufacturer Vitrintec are fixed to the active and passive leaves at a spacing measured from the bottom edge of the leaf: 200 mm, 2520 mm. The catch strike plates for the dog bolts are fixed to the frame.

Figure no. 52: (KWIE57-R) – dog bolt



6.7.7 Door closer

The door is fitted with two surface-mounted door closers (OS0091) with rails (OS02SS) of type TS91 made by DORMAKABA placed one on the active leaf and the other on the passive leaf. The door closers are fixed to the frame.

7 Used reports

7.1 Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test standard and date
CERTBUD Sp. z o.o. Testing and Calibration Laboratories, Bukowiecka 92, 03-893 Warsaw	VITRINTEC Sp. z o.o. ul. Karola Olszewskiego 19C, 25-663 Kielce NIP: 959-196-70-51	1666/B/2022/S5A/1	PN-EN 1363-1:2020-07 PN-EN 1634-1+A1:2018-03 31.03.2022
CERTBUD Sp. z o.o. Testing and Calibration Laboratories, Bukowiecka 92, 03-893 Warsaw	VITRINTEC Sp. z o.o. ul. Karola Olszewskiego 19C, 25-663 Kielce NIP: 959-196-70-51	1665/B/2022/S5A/1	PN-EN 1363-1:2020-07 PN-EN 1634-1+A1:2018-03 27.04.2022
CERTBUD Sp. z o.o. Testing and Calibration Laboratories, Bukowiecka 92, 03-893 Warsaw	VITRINTEC Sp. z o.o. ul. Karola Olszewskiego 19C, 25-663 Kielce NIP: 959-196-70-51	1664/B/2022/S5A/1	PN-EN 1363-1:2020-07 PN-EN 1634-1+A1:2018-03 15.06.2022
CERTBUD Sp. z o.o. Testing and Calibration Laboratories, Bukowiecka 92, 03-893 Warsaw	VITRINTEC Sp. z o.o. ul. Karola Olszewskiego 19C, 25-663 Kielce NIP: 959-196-70-51	3068_1070/S5A/2	PN-EN 1363-1:2020-07 PN-EN 1634-1+A1:2018-03 04.12.2023

7.2 Samples

The referential report's no.	Sampling procedure	Conditioning	Sample's quantity
1666/B/2022/S5A/1	According to section 6.6 of the standard PN-EN 1634-1+A1:2018-03	The door set was installed 8 days before the test. The test element was stored at an ambient temperature of 10°C to 30°C and an ambient relative humidity of 25 to 75%.	1
1665/B/2022/S5A/1	According to section 6.6 of the standard PN-EN 1634-1+A1:2018-03	The door set was installed 4 days before the test. The test element was stored at an ambient temperature of 10°C to 30°C and an ambient relative humidity of 25 to 75%.	1

The referential report's no.	Sampling procedure	Conditioning	Sample's quantity
1664/B/2022/S5A/1	According to section 6.6 of the standard PN-EN 1634-1+A1:2018-03	The door set was installed 7 days before the test. The test element was stored at an ambient temperature of 10°C to 30°C and an ambient relative humidity of 25 to 75%.	1
3068_1070/S5A/1	According to section 6.6 of the standard PN-EN 1634-1+A1:2018-03	The door set was installed 4 days before the test. The test element was stored at an ambient temperature of 10°C to 30°C and an ambient relative humidity of 25 to 75%.	2

7.3 The achieved test results

Report ref. no.	Parameter	Result
1666/B/2022/S5A/1 (double door opening outside the furnace) **Base report**	Supporting construction	Standard 100 mm thick flexible supporting construction made of 75 mm wide, 0.6 mm thick steel U-profiles, 75 mm wide, 2 mm thick steel U-profiles and 75 mm wide, 0.6 mm thick C-profiles, filled internally with mineral wool (50 mm thick, density approx. 50 kg/m^3) and faced on both sides with 12.5 mm thick F-type plasterboard.
	Integrity E	43 minutes
	Insulation I_1	35 minutes
	Insulation I_2	35 minutes
	Radiation	Not applicable
	Self-closing	Maintained
	Overrun	EI_1 30 – 5 minutes EI_2 30 – 5 minutes
	Effective rebate depth	2,6 % (low)

Report ref. no.	Parameter	Result
1665/B/2022/S5A/1 (double door opening inside the furnace) **Base report**	Supporting construction	Standard 100 mm thick flexible supporting construction made of 75 mm wide, 0.6 mm thick steel U-profiles, 75 mm wide, 2 mm thick steel U-profiles and 75 mm wide, 0.6 mm thick C-profiles, filled internally with mineral wool (50 mm thick, density approx. 50 kg/m^3) and faced on both sides with 12.5 mm thick F-type plasterboard.
	Integrity E	46 minutes
	Insulation I_1	39 minutes
	Insulation I_2	39 minutes
	Radiation	Not applicable
	Self-closing	Maintained
	Overrun	EI_1 30 – 9 minutes EI_2 30 – 9 minutes
	Effective rebate depth	4,4 % (low)
1664/B/2022/S5A/1 (single leaf door opening outside the furnace)	Supporting construction	Standard 100 mm thick flexible supporting construction made of 75 mm wide, 0.6 mm thick steel U-profiles, 75 mm wide, 2 mm thick steel U-profiles and 75 mm wide, 0.6 mm thick C-profiles, filled internally with mineral wool (50 mm thick, density approx. 50 kg/m^3) and faced on both sides with 12.5 mm thick F-type plasterboard.
	Integrity E	36 minutes
	Insulation I_1	28 minutes
	Insulation I_2	33 minutes
	Radiation	36 minutes
	Self-closing	Maintained
	Overrun	EI_1 30 – Not applicable EI_2 30 – 3 minutes
	Effective rebate depth	7,1 % (low)

Report ref. no.	Parameter	Result
3068_1070/S5A/2 (single leaf door opening outside the furnace)	Supporting construction	Standard rigid low-density supporting construction made of 240 mm thick cellular concrete with a density of 600 kg/m^3
	Integrity E	34 minutes
	Insulation I_1	33 minutes
	Insulation I_2	33 minutes
	Radiation	Not applicable
	Self-closing	Maintained
	Overrun	EI_1 30 – 3 minutes EI_2 30 – 3 minutes
	Effective rebate depth	6,5 % (low)
3068_1070/S5A/2 (single leaf door opening outside the furnace)	Supporting construction	Standard rigid low-density supporting construction made of 240 mm thick cellular concrete with a density of 600 kg/m^3
	Integrity E	34 minutes
	Insulation I_1	32 minutes
	Insulation I_2	34 minutes
	Radiation	Not applicable
	Self-closing	Maintained
	Overrun	EI_1 30 – 3 minutes EI_2 30 – 3 minutes
	Effective rebate depth	4,8 % (low)

8 Extended application of the test results

8.1 The basis for an extended application

This extended application is based on method 1 according to EN 15725:2023-08.

8.2 Procedure

Table no. 1. List of construction/material changes by direct and extended application

Parameter	Factor	Standard's point (PN-EN 1634-1)	Standard's point (PN-EN 15269-5)	Point of this report
Door leaf	Number of leaves	-	A.1.1	8.3.1
	Dimensions of the door leaf (height, width, surface)	13.3.3.2.1	A.2.1, A.2.2	8.3.2
	Surface paints	13.2.3.1	A.4.1	8.3.3
	Laminates and timber veneers	13.2.3.2	A.4.7	8.3.4
	Supplementary profiles on the threshold edge	-	B.1.1	8.3.5
Hardware	Locks/ electric strikers / strike plates	-	C.1.1., C.1.4, C.1.6	8.3.6
	Hinges	-	C.1.26, C.1.27, C.1.28, C.1.29	8.3.7
	Dog bolts	-	C.1.26, C.1.27	8.3.8
	Hinge arrangement	13.3.3.2.2	C.1.31, C.1.32, C.1.33, C.1.34, C.1.35, C.1.36	8.3.9
	Dog bolts arrangement	-	C.1.35, C.1.36	8.3.10
	Door closer	-	C.1.43	8.3.11
	Add/remove of drop seal	-	C1.56, C.1.57	8.3.12
	Add cable conduit	-	C.1.47	8.3.13
Glazing	Change of glazing	-	F.1.5	8.3.14
	Glazing dimensions	-	F.1.4	8.3.15
	Glazing gaskets	-	F.1.24, F.1.25	8.3.16
Supporting construction	Type of supporting construction	13.5.3	H.1.1	8.3.17
	Type of fixing to supporting construction	-	H.1.11, H.1.12	8.3.18
	Distances between fixing elements	-	H.1.13, H.1.14	8.3.19

8.3 Field of application

8.3.1 Number of leaves

Single-leaf and double-leaf doors are allowed.

8.3.2 Dimensions of the door leaf (height, width, surface)

Maximum leaf dimensions for single-leaf doors:

- Leaf height: 2740 mm,
- Leaf width: 1414 mm,
- Area: 3,85 m^2,

Minimum dimensions limited by the minimum dimensions of the glazing given in 8.3.14.

Maximum leaf dimensions for double-leaf doors:

- Leaf height: 2720 mm,
- Leaf width: 1114 mm,
- Active leaf area: 3,03 m^2,
- Total width of active and passive leaves: 2212 mm.

Minimum dimensions limited by the minimum dimensions of the glazing given in 8.3.14.

8.3.3 Surface paints

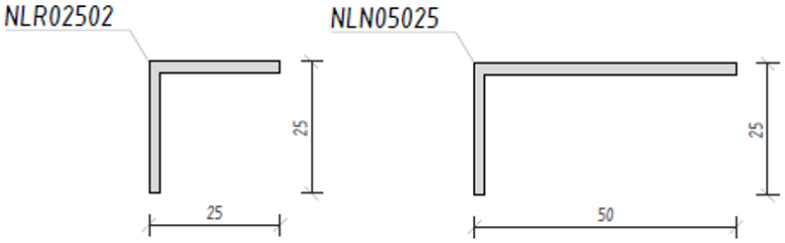
It is allowed to use paint on the frame and door leaf that does not affect the fire resistance of the door.

8.3.4 Laminates and timber veneers

The addition of decorative laminates and wood veneers with a maximum thickness of 1.5 mm on the face, but not on the edges of the profiles, is permitted.

8.3.5 Supplementary profiles on the threshold edge

The use of supplementary profiles with catalogue numbers NLR02502 and NLN05025 is permitted. Mounting of profile number NLR02502 is only permitted on the hinge side. Mounting of profile number NLN05025 is only permitted on the side opposite the hinges. Drawings of the profiles shown below.



8.3.6 Locks/ electric strikers / strike plates

It is possible to use alternative locks:

- single-point lock (OZ35WK) type 1438 manufacturer WILKA.
- single-point lock (OZ35AA-460) type EL460 manufacturer Assa Abloy.
- single-point lock (OZ00AA) type 807-10 manufacturer Assa Abloy.
- single-point lock (OZ30LP) type CVL 196R manufacturer Lockpol.
- single-point lock (OZ30LP) type systeQ 1438 manufacturer ESCO.
- three-point lock (OZ35AA-466) type EL466 manufacturer Assa Abloy.

It is permissible to install the locks at a handle height of between 850 mm and 1250 mm measured from the bottom of the construction.

It is possible to use electric strikers:

- Reversing electric strike (OERWAA-332.238) type 332.238 manufacturer Assa Abloy.
- Reversing electric strike (OERWAA-138F.13) type 138F.13 manufacturer Assa Abloy.

It is possible to use alternative strike plate:

- (OZB0AA-EA322) type EA 322 manufacturer Assa Abloy.
- (OZB0AA-EA306) type EA306 manufacturer Assa Abloy.
- (KBE01-AA) manufacturer Vitrintec

8.3.7 Hinges

It is possible to use alternative hinges:

- hinge (KZISM3-S) surface three-part type 1145 manufacturer SAVIO.
- hinge (KZIDH3) surface three-part type 60AT manufacturer Dr Hahn.
- hinge (KZIFL3) surface three-part type Loira+ manufacturer Fapim.

It is possible to increase the number of hinges (four or more) per leaf.

It is not possible to reduce the number of hinges (at least four) per leaf.

8.3.8 Dog bolts

It is possible to increase the number of dog bolts (two or more) per leaf.

It is not possible to reduce the number of dog bolts (at least two) per leaf.

8.3.9 Hinge arrangement

Permissible distances between hinges:

- the distance between the upper edge of the upper hinge and the upper edge of the leaf no greater than 135 mm;
- distance between bottom edge of bottom hinge and bottom edge of leaf not more than 135 mm.

It is possible to reduce the distance between the top of the top hinge and the top edge of the leaf and the bottom of the bottom hinge and the bottom edge of the leaf without restriction when respecting the installation conditions.

Maximum distance between hinges: 1220 mm.

8.3.10 Dog bolts arrangement

Maximum distances between dog bolts:

- the distance between the bottom edge of the leaf and the dog bolt is: 200 mm;
- the distance between the top edge of the leaf and the top dog bolt is: 200 mm;
- the distance between each dog bolt is no more than 2320 mm.

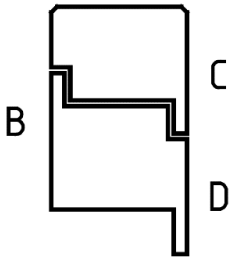
If these distances cannot be maintained, it is necessary to add another dog bolt.

8.3.11 Door closer

It is possible to use alternative door closers:

- door closer (OS0093) with rail (OS01SS) type TS93 manufacturer DORMAKABA;
- door closer (OS0098) type TS98 XEA manufacturer DORMAKABA;
- door closer type Groom GR 200 manufacturer DORMAKABA;
- door closer type DC250 manufacturer Assa Abloy;
- door closer type DC300 manufacturer Assa Abloy;
- door closer type DC340 manufacturer Assa Abloy;
- door closer type DC500 manufacturer Assa Abloy;
- door closer (OSA700) type DC700 manufacturer Assa Abloy;

Door closer can be placed at the locations marked B, C and D in the figure below:



8.3.12 Add/remove of drop seal

It is permissible to use drop gaskets from the manufacturer Fapim DOMATIC Igloo DA0551 with part number (OU00E) and from the manufacturer Planet type RO with part number (OU78R). It is necessary to install the drop seals on the side opposite the hinges

8.3.13 Add cable conduit

It is permitted to use a cable conduit (ODPK02) from the manufacturer Assa Abloy.

8.3.14 Change of glazing

It is permitted to use alternative glazing:

Manufacturers Vetrotech type Contraflam 30 with a thickness of 16,0 mm

Manufacturers Reglas Pyrobat 15 with a thickness of 15,3 mm

8.3.15 Glazing dimensions

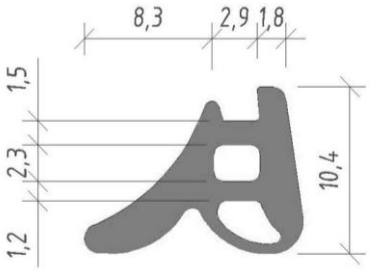
Glazing of the type and maximum dimensions contained in Table 2 shall be used in the door leaf. The permitted minimum glazing dimensions are 250 x 250 mm.

Table no. 2 Permissible single leaf glazing

Manufacturer	Trade name of single glazing	Thickness [mm]	Maximum dimensions		
			width [mm]	height [mm]	area [m²]
AGC	Pyrobel 16	17,3	1264	2575	3,25
Vetrotech	Contraflam 30	16,0	1022	2585	2,64
Reglas	Pyrobat 15	15,3	1022	2585	2,64

8.3.16 Glazing gasket

The use of an alternative glazing gasket with part number KULA16 and the section shown in the drawing below is permitted:



8.3.17 Type of supporting construction

It is permitted to fix the door in a standard flexible supporting construction in accordance with EN 1363-1:2020-07 point 7.2.2.4, with a minimum thickness of 100 mm.:

- made of steel profiles with a width in the range 75 - 100 mm, filled with 50 mm thick mineral wool with a density in the range 50 - 60 kg/m3 and covered on both sides with one or two layers of 12.5 mm thick GKF board,
- made of steel profiles with a width in the range 75 - 100 mm, filled with 50 mm thick mineral wool with a density in the range 85 - 115 kg/m3 and clad on both sides with two layers of 12.5 mm thick GKF board,
- made of steel profiles 75 - 100 mm wide, filled with 60 - 70 mm thick mineral wool with a density of 85 - 115 kg/m3 and covered on both sides with two layers of 15 mm thick GKF board.

It is permitted to fix the door in a standard rigid supporting construction in accordance with EN 1363-1:2020-07 section 7.2.2, with a minimum thickness of 240 mm and a minimum density of 600 kg/m^3.

8.3.18 Type of fixing to supporting construction

The size of the elements fixing the frame to the supporting construction can be increased, but not reduced.

Minimum mounting screw size is ø7.5 x 82 mm.

The number of elements fixing the frame to the supporting construction can be increased, but not reduced.

Minimum number of fixing screws:

- 5 on each frame stand;

- 5 in the frame lintel - for double doors;
- 3 in the frame lintel - for single leaf doors.

8.3.19 Distances between fixing elements

The distance between the fixing screws can be reduced, but not increased.

The maximum distance between fixing screws is 600 mm for double-leaf doors and 595 mm for single-leaf doors.

9 Fire performance parameters

Element: CLASSIC FS doors are characterised by performance parameters:

Insulation: I_2 30

Integrity: E 30

10 Comments

The results of the extended application relate only to the behaviour of the product/family of products under specific test conditions; they are not intended as the sole criterion for evaluating the potential fire risk for the product/family of products used. This extended use report does not constitute a technical evaluation or product certification.

11 Date of expiry

This extended application report is valid until do 03.07.2027 under the condition that the product, its application scope, and other regulations have not changed.

SIGNED

Maciej Seta
KIEROWNIK PROCESU
Laboratoria Badawcze i Wzorcujące
CERTBUD Sp. z o.o.

APPROVED

Signed by / Podpisano przez:
Rafał Dariusz Czyż
Date / Data: 2025-04-08 15:48

End of the report