



INTERNATIONAL FIRE CONSULTANTS LTD



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ASSESSMENT REPORT IFCA/04211 REVISION A

**Extent of approval of SFB 2074 and SFB 2060
systems when used to provide 30 minute fire
resistance assemblies as outlined in Field of
Application Report IFCA/99123 Revision B**

Prepared on behalf of:

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An International Fire Consultants Group Company

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1. INTRODUCTION

This report should be read in conjunction with Field of Application Report IFCA/99123 Revision B, which considers the extent of approval and outlines the field of application for SFB 2074 and SFB 2060 systems when used to provide 30 minute fire resistant assemblies.

The drawings included in this report are designed to demonstrate the extent of approval for the SFB 2074 and SFB 2060 systems to give 30 minutes integrity, and, where appropriate, 30 or 15 minutes insulation performance, under the conditions of a BS476: Part 22: 1987 fire resistance test.

2. EXTENT OF APPROVAL

The extent of approval for the SFB 2074 and SFB 2060 systems is outlined in drawings in the following appendices:

- Appendix A outlines the approved configurations, construction and installation details for the SFB 2074 system doorsets and partitions.
- Appendix B outlines the approved configurations, construction and installation details for the SFB 2060 system doorsets in SFB 2074 system partitions.
- Appendix C outlines the general manufacturing details.

3. CONCLUSION

Based upon the analysis in Field of Application Report IFCA/99123 Revision B International Fire Consultants Ltd would conclude the following:

If SFB 2074 system assemblies were manufactured and installed in accordance with all aspects of Field of Application Report IFCA/99123 Revision B, they would satisfy the integrity and insulation criteria for 30 minutes, if tested in accordance with the conditions of BS476: Part 22: 1987.

If SFB 2060 system assemblies were manufactured and installed in accordance with all aspects of the Field of Application Report, they would satisfy the integrity criteria for 30 minutes, if tested in accordance with the conditions of Section 6 or the integrity and insulation criteria for 30 minutes, if glazing were in excess of 80% of the assembly area, if tested in accordance with the conditions of Section 7 of BS476: Part 22: 1987.

If SFB 2074 system assemblies were manufactured and installed in accordance with all aspects of the Field of Application Report, they would satisfy the integrity criteria for 30 minutes and the insulation criteria for up to 30 minutes if tested in accordance with the conditions of BS476: Part 22: 1987.

4. LIMITATIONS

This Assessment Report, which is only valid for the Sapa assemblies and addresses itself solely to the ability of the assemblies described in Field of Application Report IFCA/99123 Revision B to satisfy the criteria of the fire resistance test. It does not imply any suitability for use with respect to other unspecified criteria.

This document only considers the Sapa assemblies described in Field of Application Report IFCA/99123 Revision B, and assumes that the surrounding construction will provide no less restraint than the tested assembly, and that it will remain in place and be substantially intact for the full fire resistance period.

Where the constructional information in that report is taken from details provided to International Fire Consultants Ltd (IFC) and/or from fire resistance test reports referenced therein, it is, therefore, limited to the information given in those documents. It is necessarily dependent upon the accuracy and completeness of that information. Where constructional or manufacturing details are not specified, or discussed, it should not be taken to infer approval of variation in such details from those tested or otherwise approved.

Where the assessed constructions have not been subject to an on-site audit by International Fire Consultants Ltd, it is the responsibility of anyone using this report to confirm that all aspects of the assemblies fully comply with the descriptions and limitations herein.

Any materials specified have been selected and judged primarily on their fire performance. IFC do not claim expertise in areas other than fire safety. Whilst observing all possible care in the specification of solutions, we would draw the reader's attention to the fact that during the construction and procurement process, the materials used should be subjected to more general examination regarding the wider Health and Safety, and CoSHH Regulations.

This Report is provided to the sponsor on the basis that it is a professional independent engineering opinion as to what the fire performance of the construction/system would be should it be tested to the named standard. It is IFC's experience that such an opinion is normally acceptable in support of an application for building approvals, certainly throughout the UK and in many parts of Europe and the rest of the world.

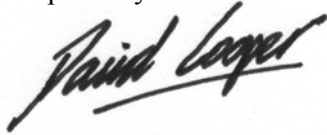
However, unless IFC have been commissioned to liaise with the Authorities that have jurisdiction for the building in question for the purpose of obtaining the necessary approvals, IFC cannot assure that the document will satisfy the requirements of the particular building regulations for any building being constructed.

It is, therefore, the responsibility of the sponsor to establish whether this evidence is appropriate for the application for which it is being supplied and IFC cannot take responsibility for any costs incurred as a result of any rejection of the document for reasons outside of our control. Early submittal of the Report to the Authorities will minimise any risks in this respect.

5. VALIDITY

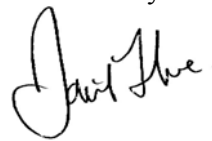
This report has been prepared based on International Fire Consultants Ltd's present knowledge of the products described, the stated testing regime and the submitted test evidence. For this reason anyone using this document after July 2008 should confirm its ongoing validity.

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Revision A – July 2007:

Review and revalidation for an additional 12 months.

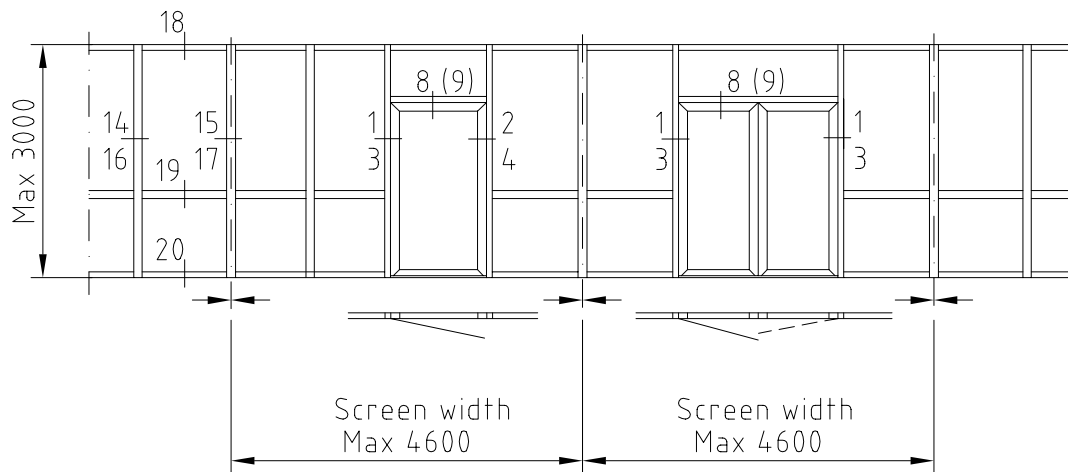
APPENDIX A

Configurations, construction and installation details for SFB 2074 system doorsets and partitions

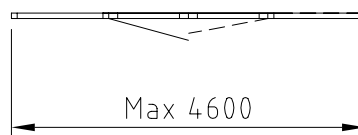
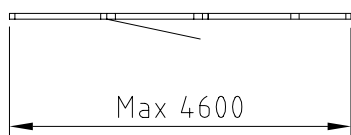
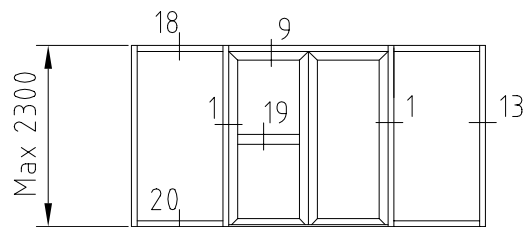
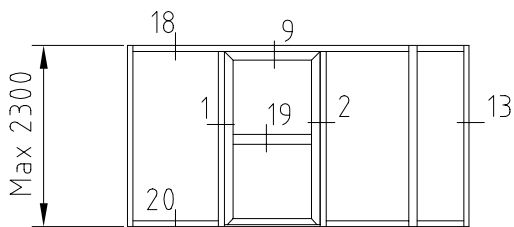
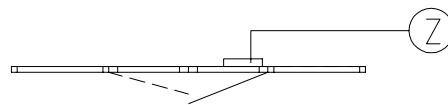
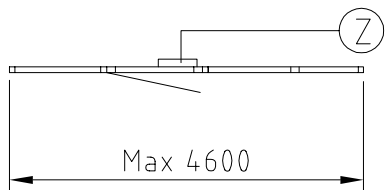
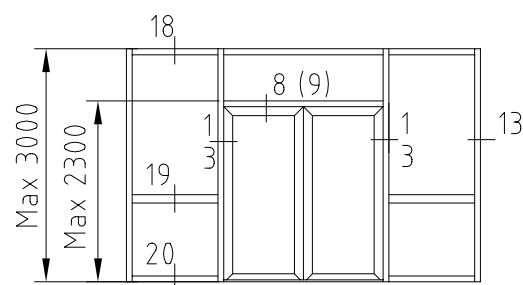
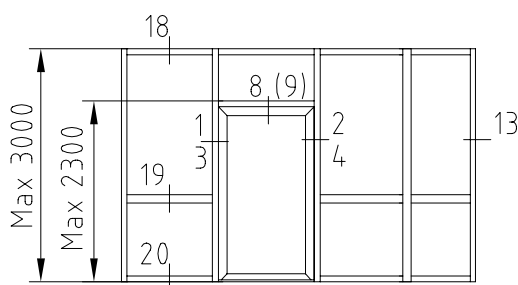
Sapa Figures

P2004 - 811	P2004 - 825	P2004 - 834
P2004 - 812	P2004 - 826	P2004 - 835
P2004 - 813	P2004 - 827	P2004 - 861
P2004 - 814	P2004 - 828	P2004 - 862
P2004 - 815	P2004 - 829	P2004 - 863
P2004 - 821	P2004 - 830	P2004 - 881
P2004 - 822	P2004 - 831	P2004 - 891
P2004 - 823	P2004 - 832	P2004 - 892
P2004 - 824	P2004 - 833	

*The figures in this Appendix are not included
in the sequential page numbering of this report*



= Split mullions that accomodates thermal movements



In a Curtain Wall application the screen can be performed with inwards or outwards opening doors

REFERENCE:

Size limits for doors, see drawing No. P2004-812

Glass unit and infill panels, see drawing No P2004-814

Bill of materials, see drawing No P2004-831, -832 and -833

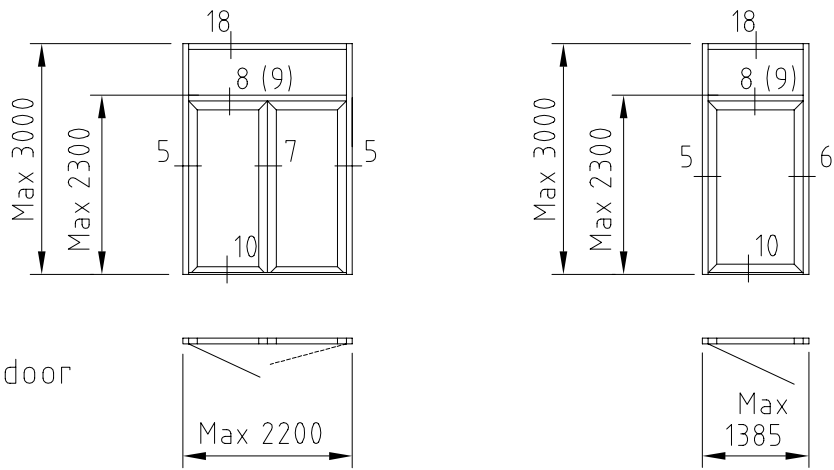
Section tables, see drawing No P2004-834 and -835



Elevations, doors with side and top lights
30 minute fire resisting constructions

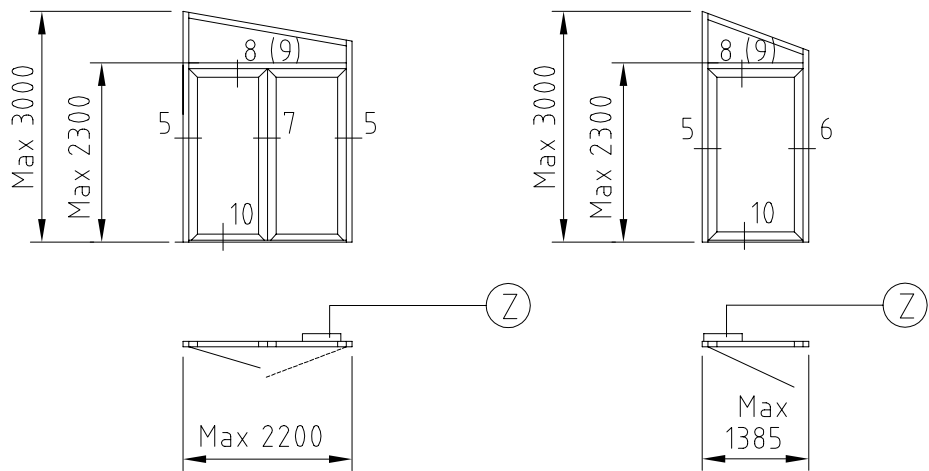
FIRE SCREEN 2074

1:100 04-10 P2004-811

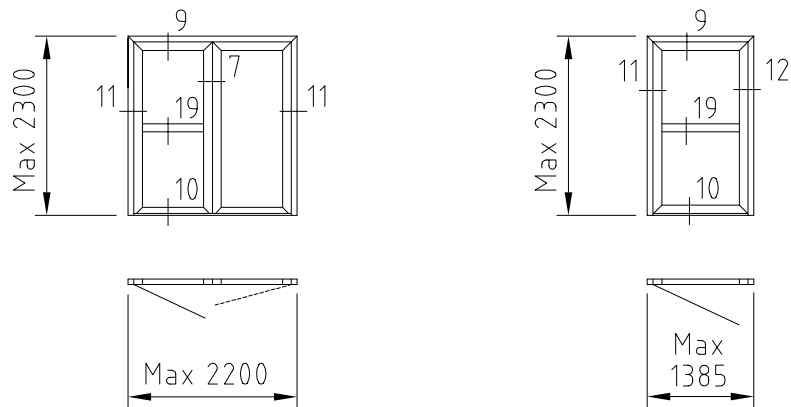


Maximum width of door leaf 1285 mm

Alternative with inclined top light



Single and double door without side and top light



In a Curtain Wall application the screen can be performed with inwards or outwards opening doors.

REFERENCE:

Glass and infill panels, see drawing No. P2004-814 and -815

Bill of materials, see drawing No P2004-831, -832 and -833

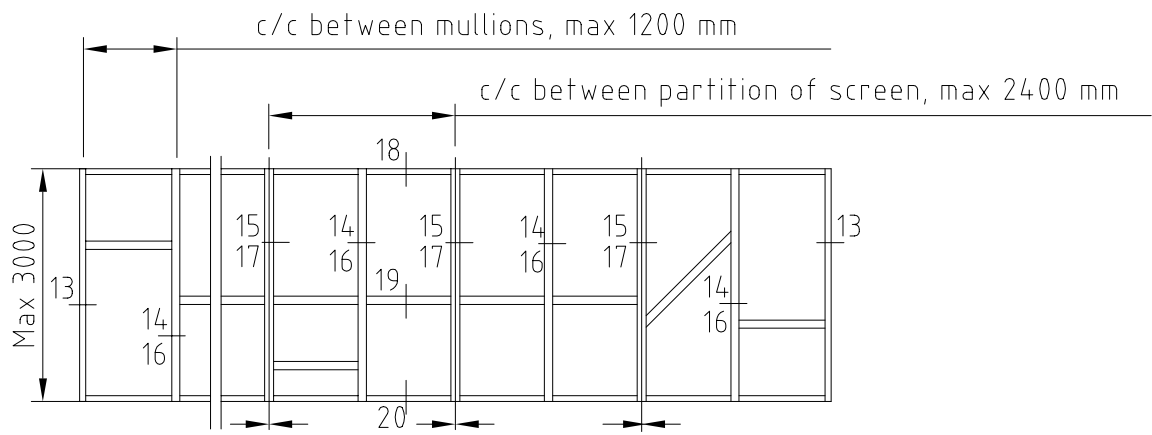
Section tables, see drawing No P2004-834 and -835



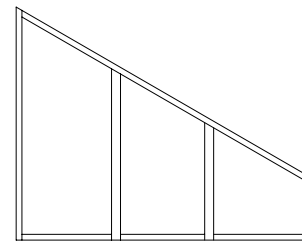
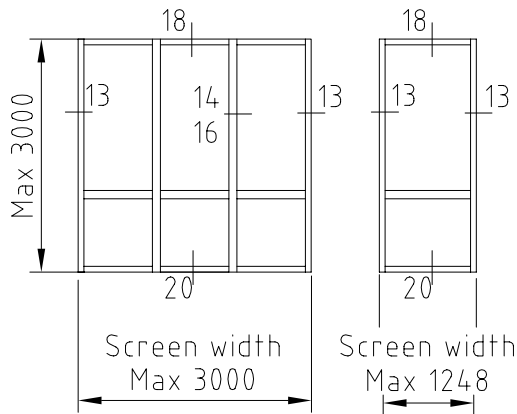
Elevations, single/double doors with/without top light
30 minute fire resisting constructions

FIRE SCREEN 2074

1:100 04-10 P2004-812



 = Split mullion that accomodates thermal movements



Alternative with inclined top

One or several transom bars can be used
 Maximum 45° angle for inclined bars

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

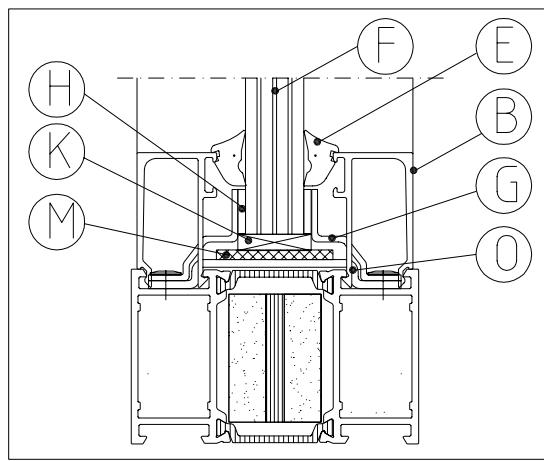
Section tabled, see drawing No P2004-834 and -835



Elevations fixed screens
 Principle sections
 30 minute fire resisting constructions

FIRE SCREEN 2074

1:100 04-10 P2004-813



- Explanation
- F. Fire glass unit/
Infill panel
 - O. Base clips
 - G. Glazing clips
 - B. Glazing bead
 - E. Gasket
 - H. Glazing strip
 - K. Setting block
 - M. Intumescent strip

SINGLE GLASS UNIT

Type	Thickness	Max dim. (WxH) ,mm
Contraflam 30-N2	16 mm	1140 x 2030 (2092x800)
Pyrostop 30-20D	18 mm	1140 x 2092 (2092x800)
Pyrostop 30-10D	15 mm	1140 x 2092 (2092x800)
Pyrodur 30-201 *	10 mm	1200 x 2000 (2092x617)
Pyrodur 30-10 *	11 mm	1200 x 2000 (2092x617)
Pyrobel 16	16 mm	1132 x 2081 (2092x617)
Pyrobel 16 EG	20 mm	1132 x 2081 (2092x617)
Swissflam 30 - N2	16 mm	1140 x 2030 (2092x800)
Interfire EI30	24 mm	1140 X 2092 (2092x800)

* 15 minutes insulation only

REFERENCE:

Positioning of glazing clips and setting blocks, see drawing P2004-881

Bill of materials, see drawing P2004-831 to -835

Glazing instructions, see drawing P2074-905 to -924

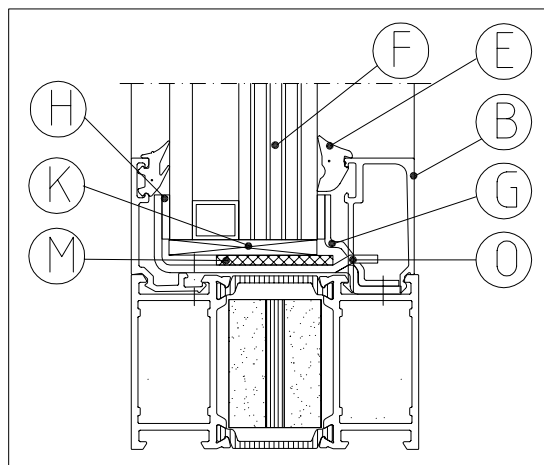
sapa

Single glass dimensions

30 minute fire resisting constructions

FIRE SCREEN 2074

- 04-10 P2004-814



- Explanation
- F. Fire glass unit/
Infill panel
 - O. Base clips
 - G. Glazing clips
 - B. Glazing bead
 - E. Gasket
 - H. Glazing strip
 - K. Setting block
 - M. Intumescent strip

DOUBLE GLASS UNIT AND INFILL PANEL

Type	Thickness	Max dim. (WxH) ,mm
Contraflam 30-N2	32 mm	1140 x 800 (1150x800)
Pyrostop 30-25D *	32-36 mm	1140 x 2092 (2092x800)
Pyrobel 16 DGU *	36 mm	1132 x 2081 (2092x617)
Swissflam 30 - N2*	32 mm	1140 x 800 (1150x800)
Stp-G panel 2x15 gypsum, 1mm enameled steel sheet or 1mm stainless steel sheet both sides.	32 mm	<div style="border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; padding: 5px;"> 600 x 2400 1100 x 1100 2150 x 700 </div>
15+6+15 mm gypsum, 1mm enameled steel sheet or 1mm stainless steel sheet both sides.	38 mm	
Alp-G panel 2x15 gypsum, 1.5mm anodized or powder painted aluminium sheet both sides.	33 mm	
15+6+15 mm gypsum, 1.5mm anodized or powder painted aluminium sheet both sides.	39 mm	

*** Must be installed with non-fire glass on the perceived fire risk face**

REFERENCE:

Positioning of glazing clips and setting blocks, see drawing P2004-881

Bill of materials, see drawing P2004-831 to -835

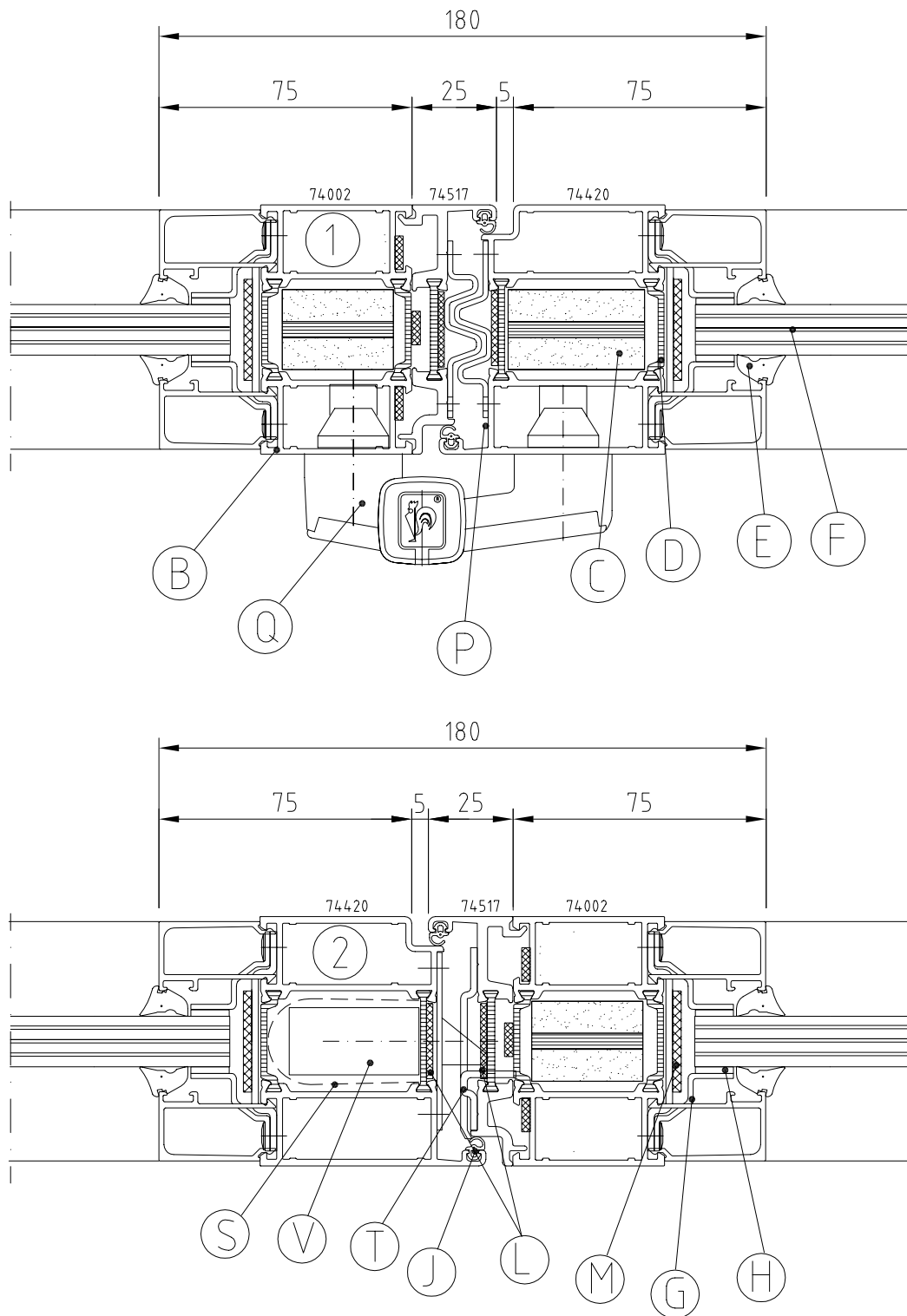
Glazing instructions, see drawing P2074-905 to -924

sapa

Dimensions of double glass
units and infill panels.
30 minute fire resisting constructions

FIRE SCREEN 2074

- 04-10 P2004-815

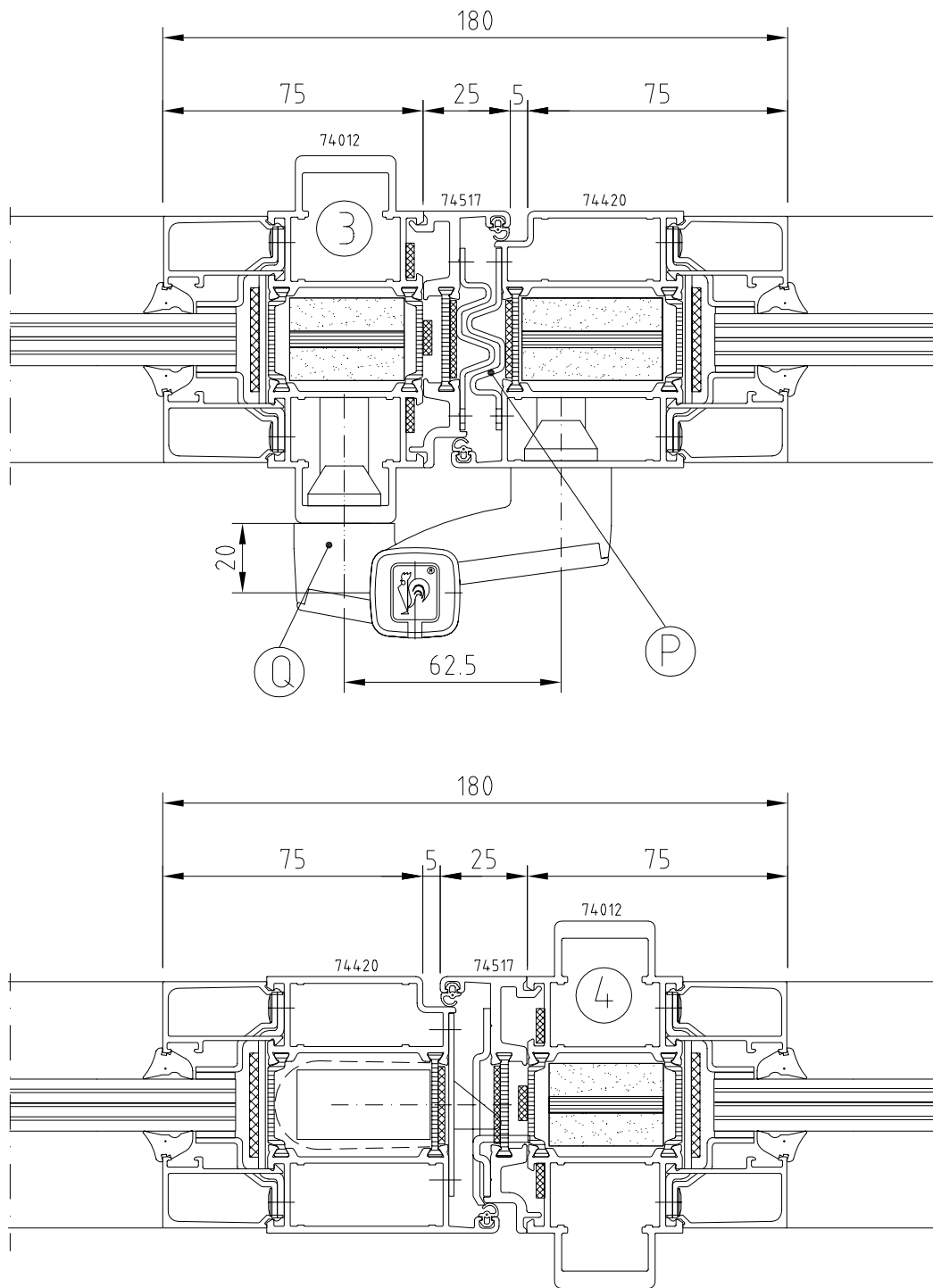


Frame member
 Extrusions according to section 1 and 2 may be used for heights up to 2300 mm.

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833
 Section tables, see drawing No P2004-834 and -835

	Section 1 - 2	FIRE SCREEN 2074		
	30 minute fire resisting constructions	1:2	04-10	P2004-821



Frame member
 Extrusions according to
 section 3 and 4 must be
 used in screens with heights
 over 2300 mm.

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Section tables, see drawing No P2004-834 and -835

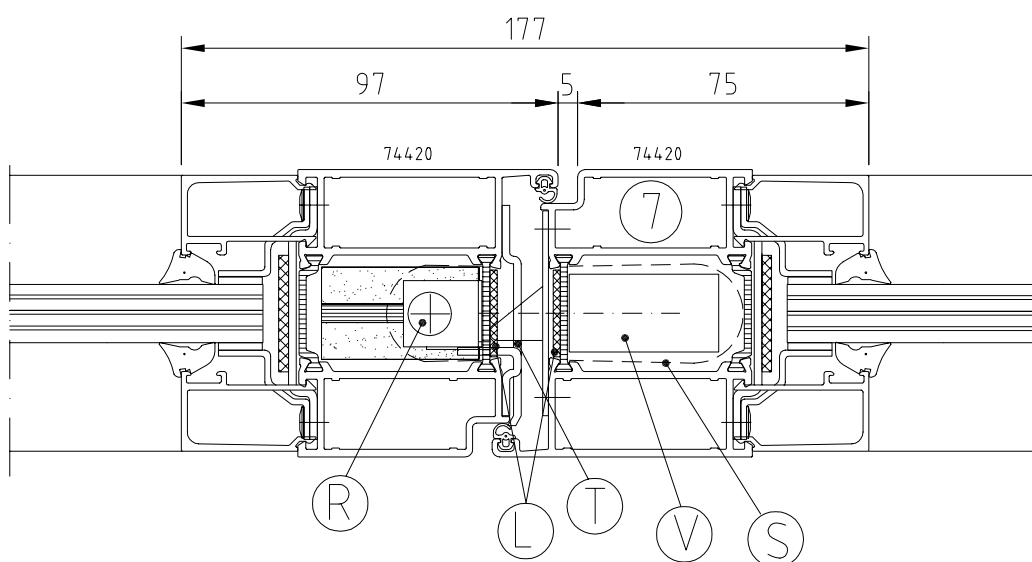
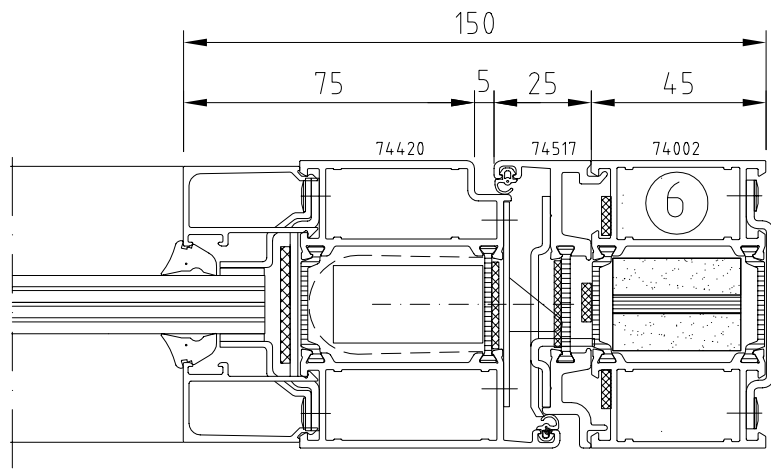
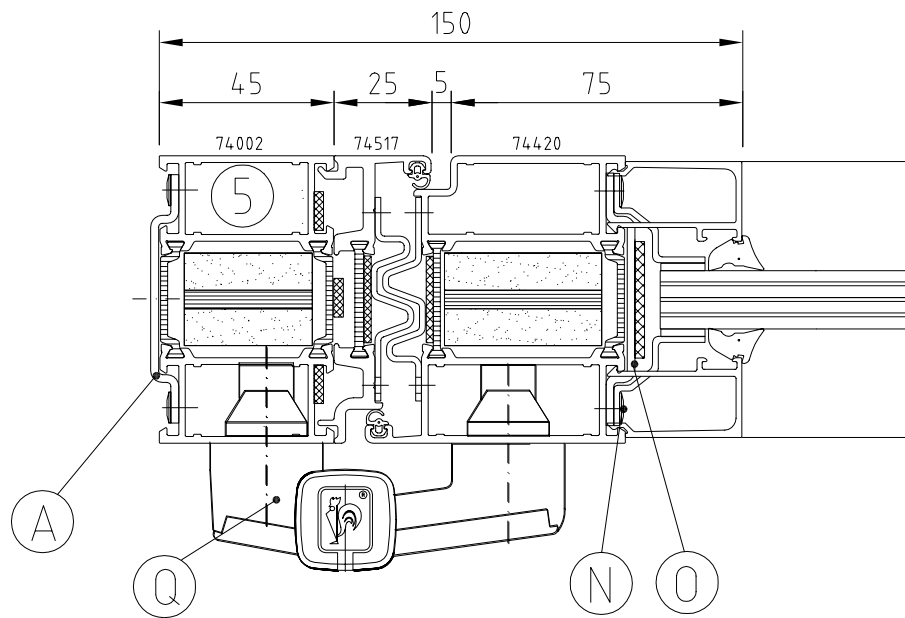


Section 3 - 4

30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 | 04-10 | P2004-822



REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Section tables, see drawing No P2004-834 and -835

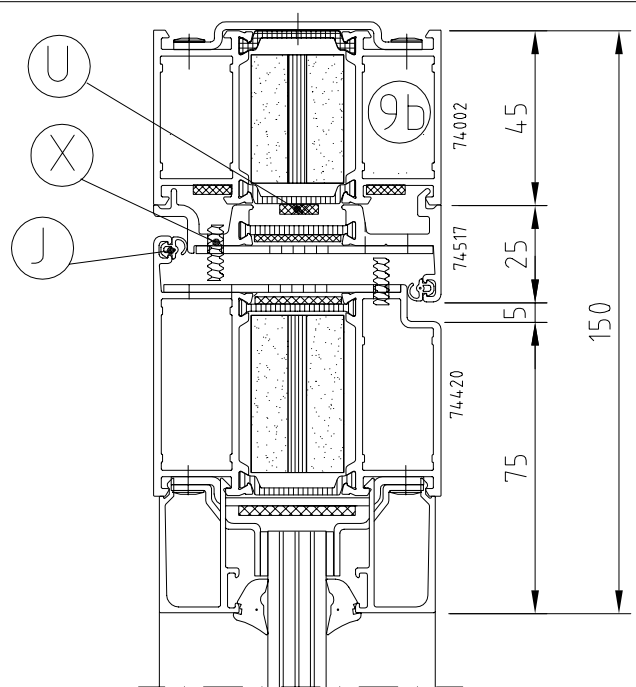
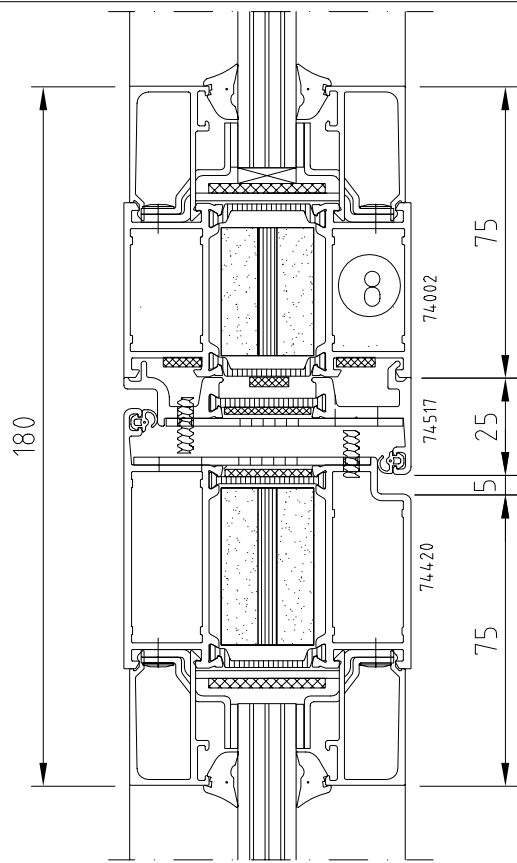


Section 5 - 7

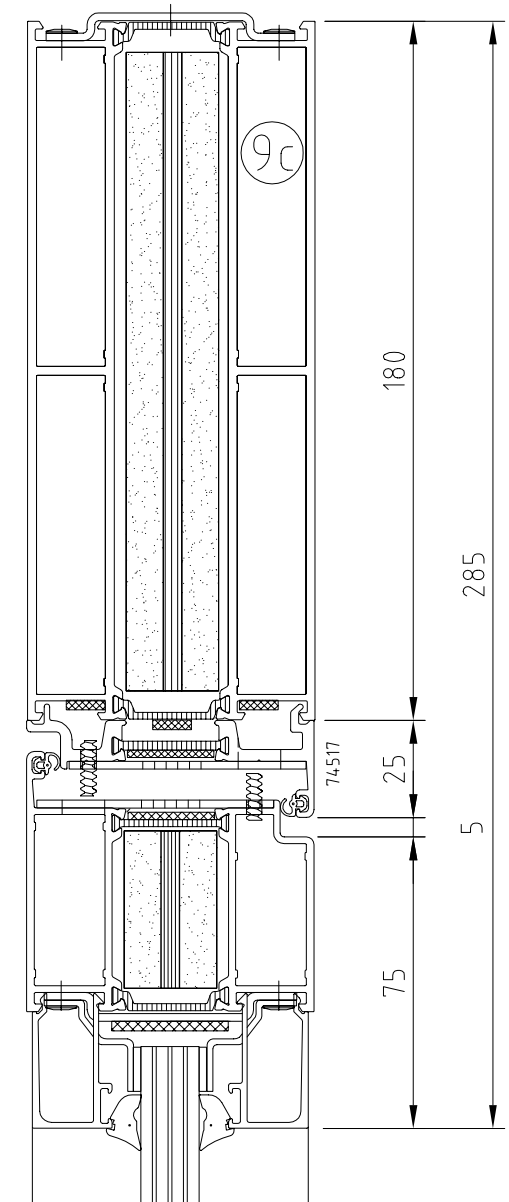
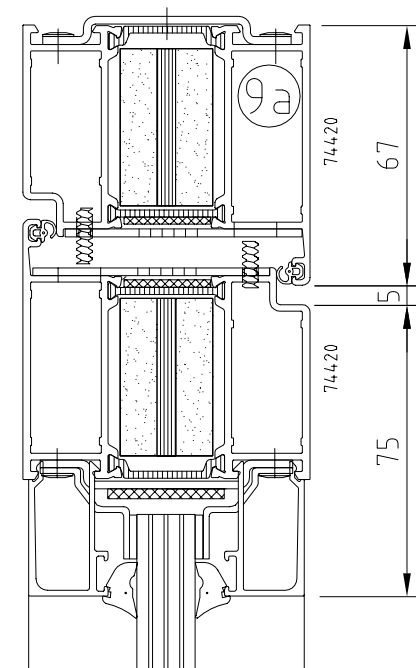
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 | 04-10 | P2004-823



Section 9:
Design - integrated rebate



REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Section tables, see drawing No P2004-834 and -835



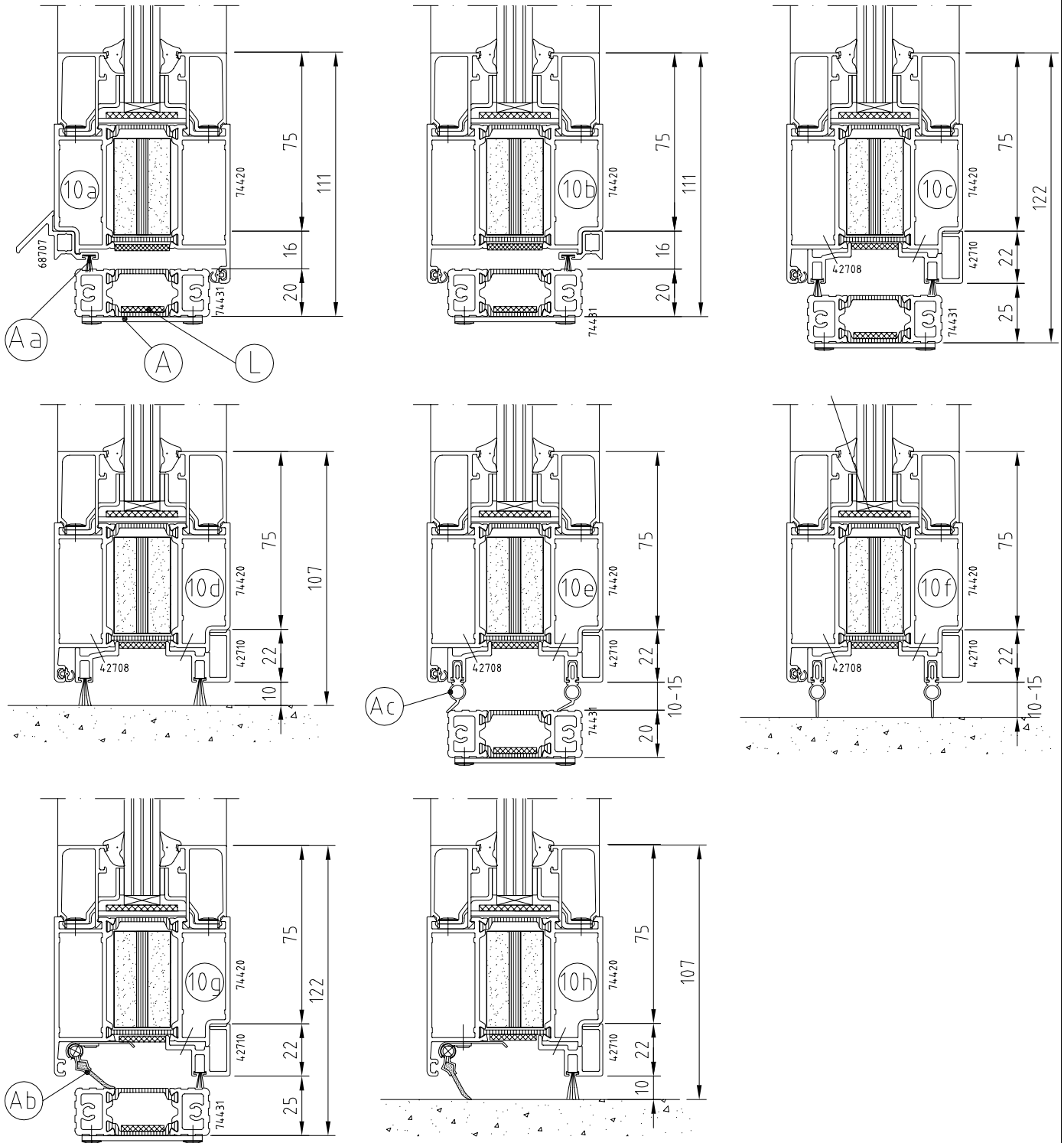
Section 8 - 9

30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 04-10 P2004-824

Section 10:
Alternative design of thresholds.



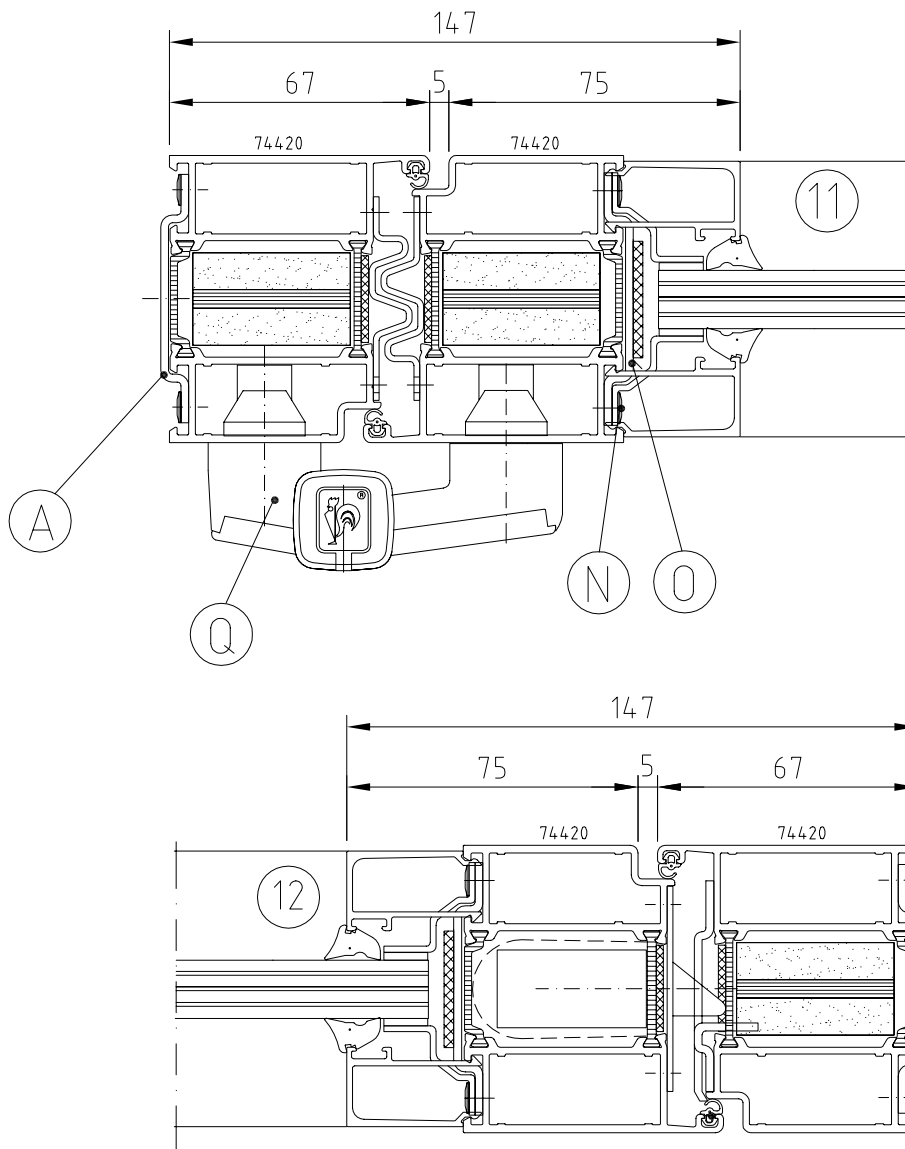
Door with smoke sealing at threshold.

When a smoke seal is used, full sealing should be achieved in closed position.

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Section tables, see drawing No P2004-834 and -835



REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Section tables, see drawing No P2004-834 and -835

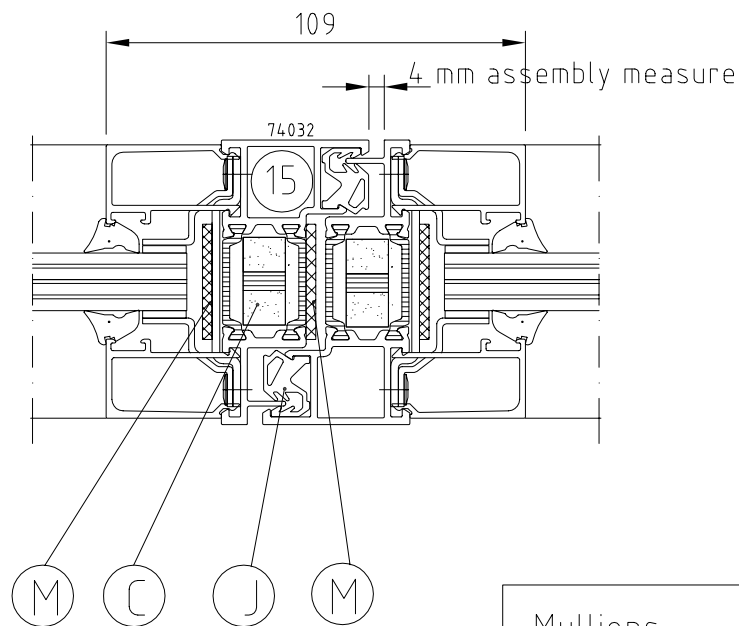
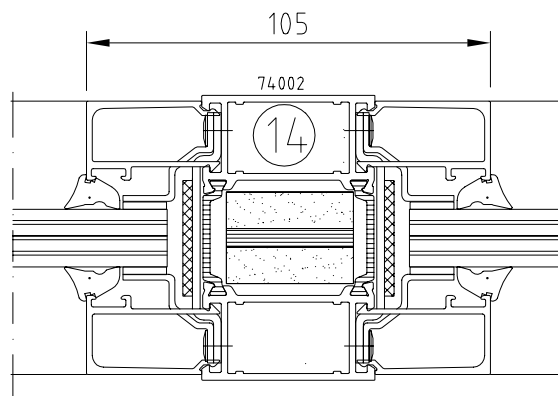
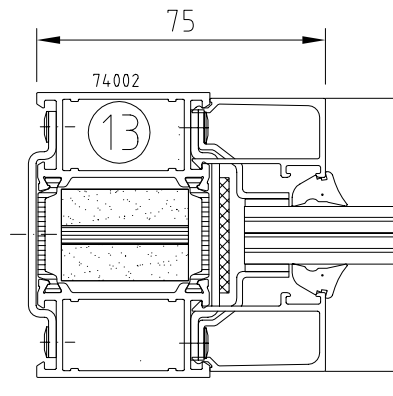


Section 11 - 12

30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 | 04-10 | P2004-826



Mullions

Extrusions according to section 14 and 15 may be used for heights up to 2300 mm

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Sections tables, see drawing No P2004-834 and -835



Section 13 - 15

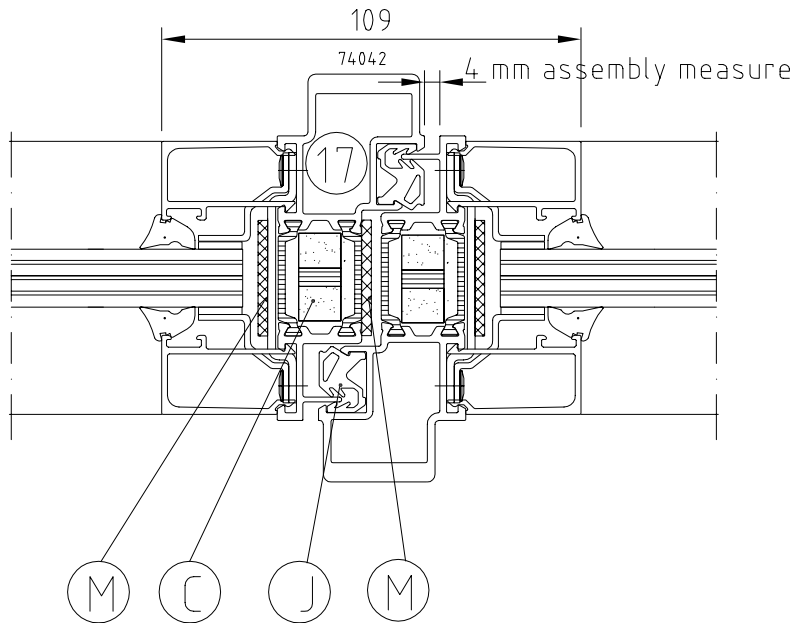
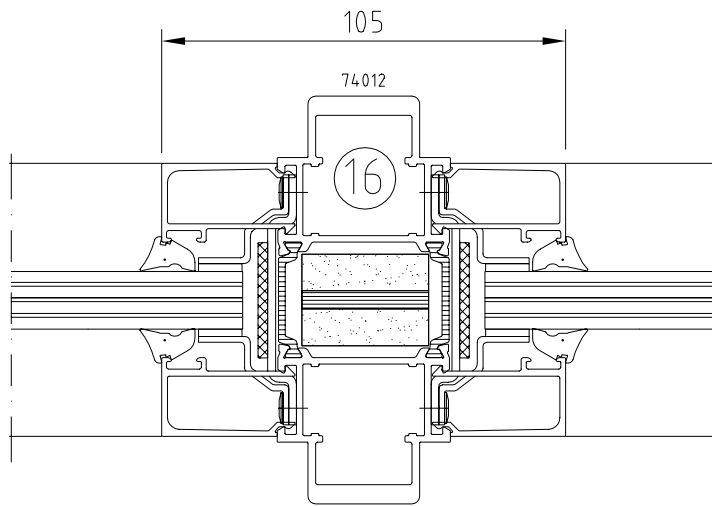
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2

04-10

P2004-827



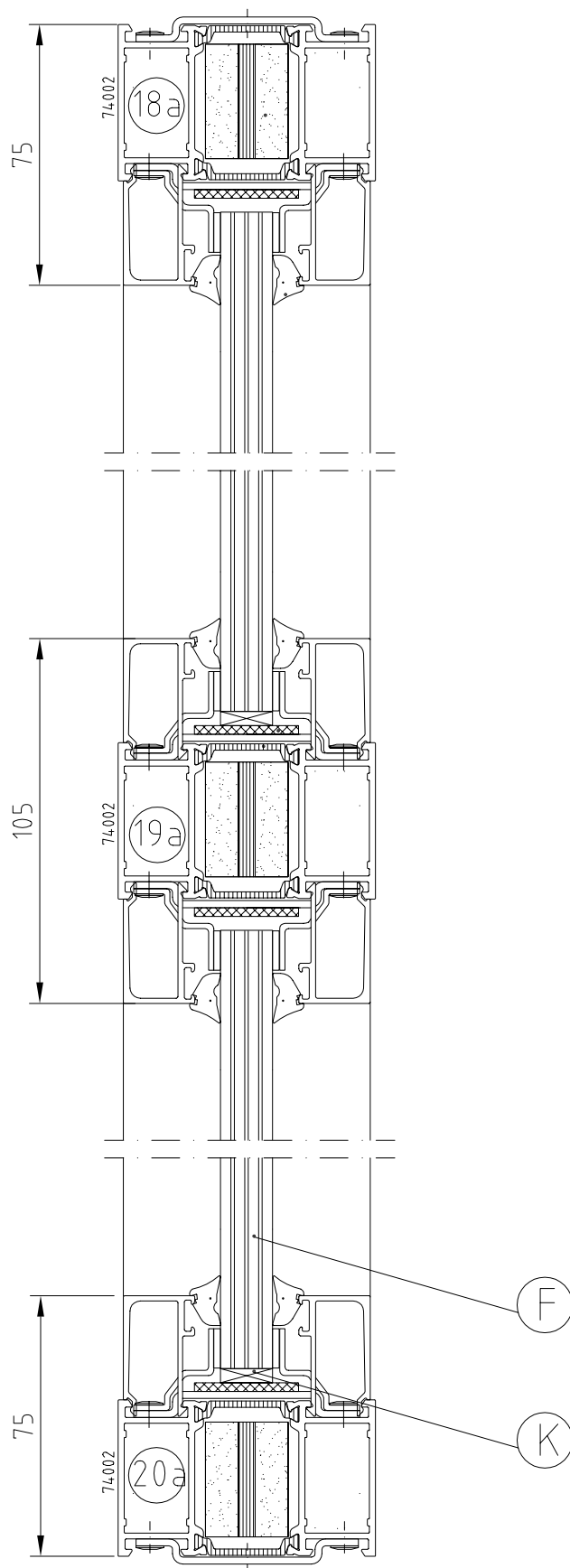
Mullions

Extrusions according to section 16 and 17 must be used in screens with heights over 2300 mm

REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Sections tables, see drawing No P2004-834 and -835



REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Sections tables, see drawing No P2004-834 and -835



Section 18a - 19a

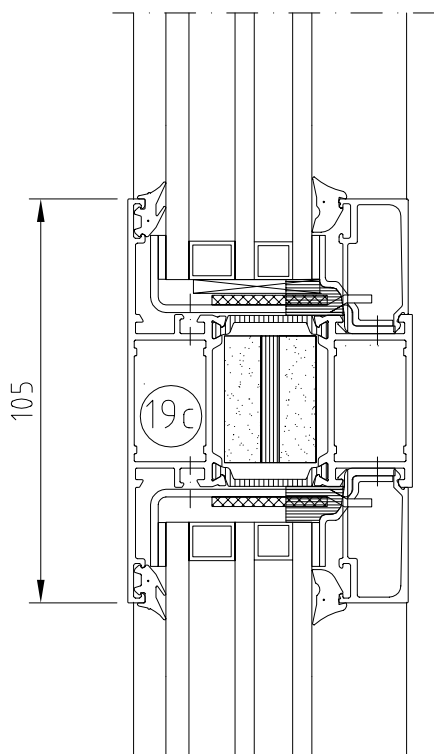
30 minute fire resisting constructions

FIRE SCREEN 2074

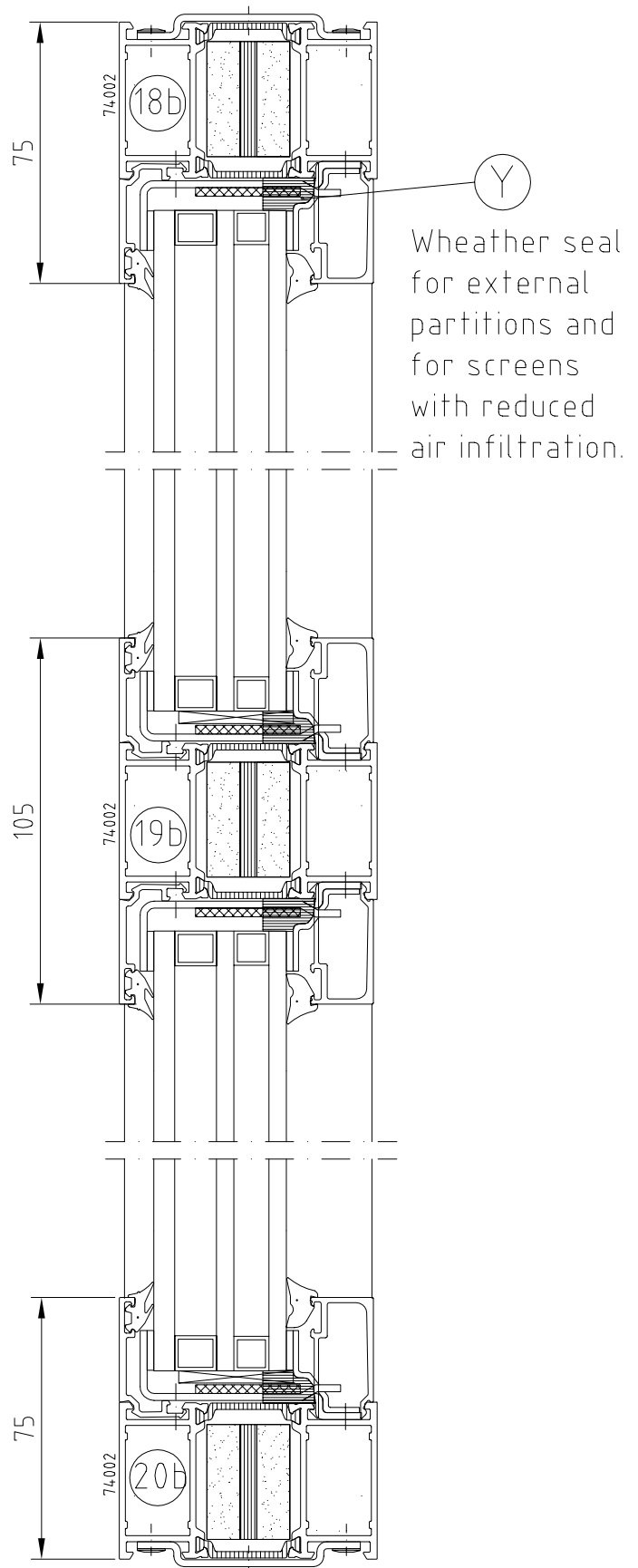
1:2

04-10

P2004-829



Alternative design with outward fixed flange for sealed insulating fire glass unit



REFERENCE:

Bill of materials, see drawing No P2004-831, -832 and -833

Sections tables, see drawing No P2004-834 and -835




Section 18b - 20b
Insulated fire-rated glass
30 minute fire resisting constructions


FIRE SCREEN 2074

1:2 04-10 P2004-830

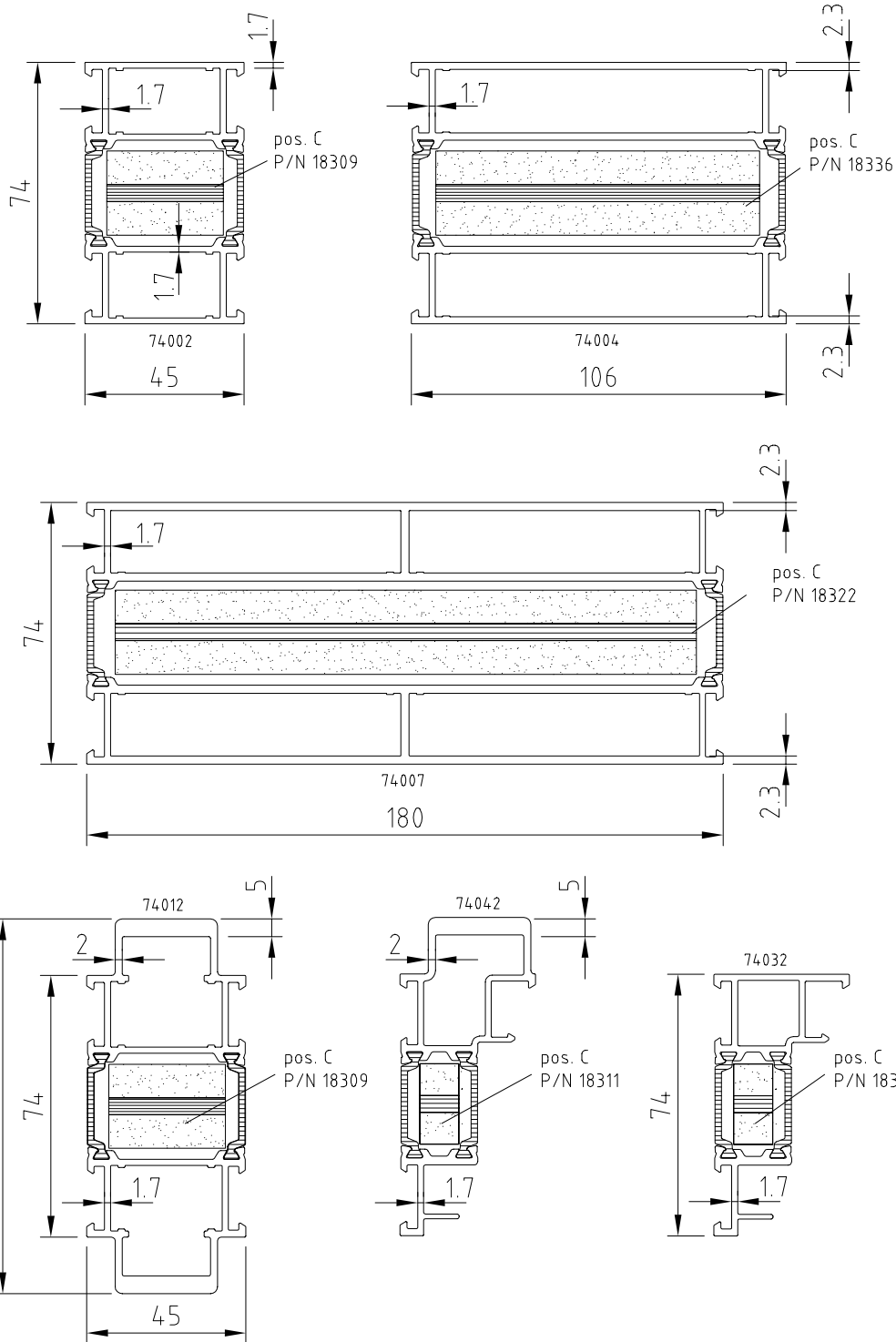
	Designation	Part No Sapa	Material	Remarks	Reference
A	Assembly fitting	12046 12055 12060	Stainless steel BS304S15	Thickness = 2 mm, Length = 20 mm	P2004-823
B	Aluminium extrusions		Alloy EN-AW-6063-T6	Surface treatment: anodized or laquered	P2004-821 P2004-834 P2004-835
C	Fire insulation	18308 18309 18311 18322 18323 18336	9 mm gypsum wallboard 4.8 mm board (Karlit, hard, extra) 9 mm gypsum wallboard Sandwich element Glued with Casco 1273	Density: 800 kg/m ³ Density: 960 kg/m ³ Density: 800 kg/m ³ Glue amount per layer = 150 g/m ²	P2004-821 P2004-827 P2004-828
D	Thermal break		Polyamide PA 66 GF25	Thickness = 1.8 mm	P2004-821
E	Glazing gasket		EPDM	Alt. gasket containing EPDM-cellular rubber or Chloroprene	P2004-821
F	Fire glass unit/ Infill panel		Alt. brand of 15 mm gypsum board: Gyproc GF 15 Danogips Brandskydd DB 15 Norgips Brandskydd B		P2004-814
			6 mm gypsum board	Standard quality	
G	Glazing clips	12815 - 12819, 12821	Stainless steel BS304S15	Thickness = 1.5 (2.0) mm, Length = 50 mm	P2004-821 P2004-881
H	Glazing strip		Intumex alt. Fiberfrax	1x14 mm 3.2x12 mm To be fixed to pos. G	P2004-821
I	Fire insulation		Gypsum wallboard 15 mm	Gyproc GF 15	P2004-864
J	Weather strip/gasket	18354 18357	EPDM	Material and dimension according to good practice.	P2004-821 P2004-827
K	Setting and location blocks		Beech or other wood material with similar density	Material and dimension according to good practice.	P2004-829
L	Intumescent strip	18321	Intumex alt. Pyroplex	plastic covered, 2x23 mm	P2004-821 P2004-825

	Bill of materials		FIRE SCREEN 2074		
	30 minute fire resisting constructions		-	04-10	P2004-831

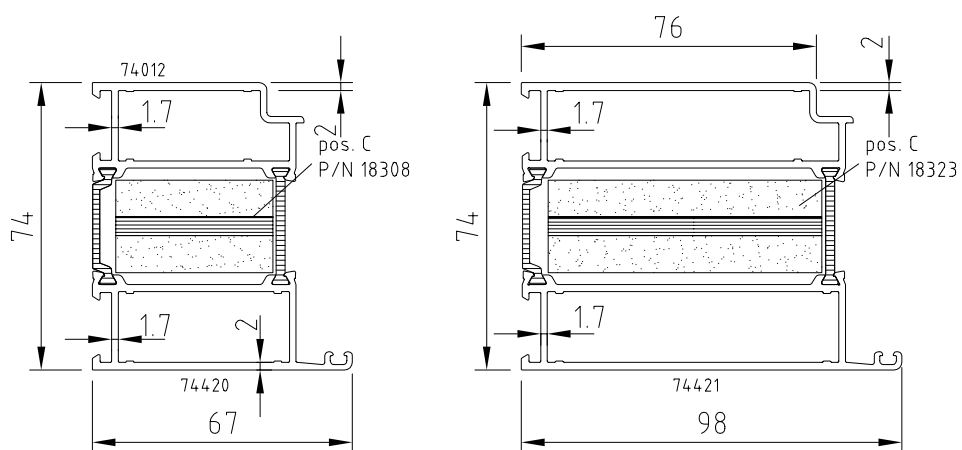
	Designation	Part No Sapa	Material	Remarks	Reference
M	Intumescent strip	18307	Pyroplex or Intumex LSK	Dim. 2 x 30 mm Dim. 2.5 x 30 mm	P2004-821 P2004-827 P2004-828
N	Pop rivet		Stainless steel	4.0x10.5 mm	P2004-823
O	Base clip/glazing clip	12047 12814 12819	Stainless steel BS304S15	Thickness = 2 mm, Length = 50 mm	P2004-823
P	Hinge side securing device	14038	Stainless steel BS304S15	3 pcs per hinge side (2 pcs placed in level with hinges and 1 right between them)	P2004-822
Q	Hinges	14015 14034 14043 14044	Aluminium with stainless steel pin Ø12mm and plastic bushings	Dr Hahn series 60 AT or series 3	P2004-821
R	2 pcs single action flush bolt or 1 double action flush bolt	14411 14412 14415 14416 14434	Cast in zink alloy or steel	Intumescent for lock housing, see pos. S 1 placed at the top and 1 at the bottom	P2004-823
		Alt. automatic flush bolts in combination with coordinator and door closer on each door leaf		Automatic flush bolt ASSA 2396, Sapa P/N 14441	
S	Intumescent sheet	18305 18306 18313 18314	Pyroplex alt. Intumex Interdens	250 x 150 mm Pyroplex, Thickn. = 1 mm Interdens, Thickn. = 2 mm	P2004-821
T	Striking plate		Stainless steel BS304S15		P2004-821
		Or standard approved electric strikes with consealed cables			
U	Intumescent strip	18303	Pyroplex or Intumex LSK	Dim. 2 x 10 mm Dim. 2.5 x 10 mm	P2004-824
V	Mortice lock with latch		Latch and the parts that affects it has to be made of steel or alloy with a melting point of at least 850°C	The latch has to be impossible to inactivate and it must have a grip of 7 mm in striking plate	P2004-821
			Or standard approved automatic opening device		
X	Top locking device	14426	Stainless steel BS304S15 adjustable pin, stainless steel, M4	To be secured with Loctite.	P2004-824
Y	Sealing compound	12222	Pyrosil B		P2004-830 P2004-861 P2004-862

	Bill of materials		FIRE SCREEN 2074		
	30 minute fire resisting constructions		-	04-10	P2004-832

Frame
extrusions



Door leaf / frame
extrusions



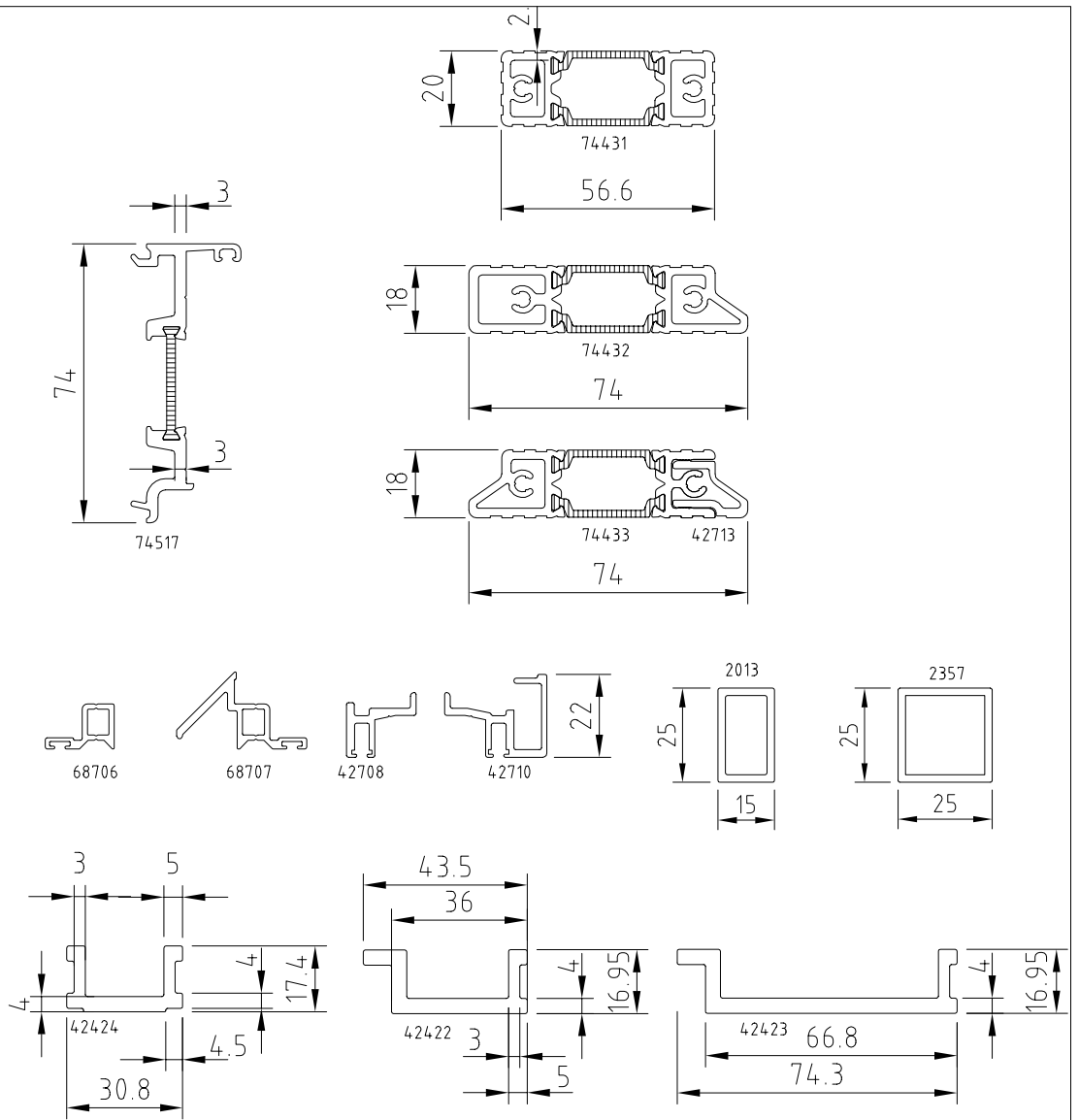
Section tables

30 minute fire resisting constructions

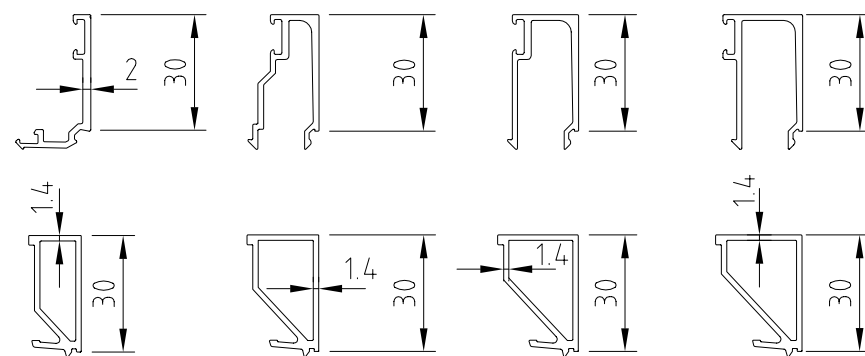
FIRE SCREEN 2074

1:2 | 04-10 | P2004-834

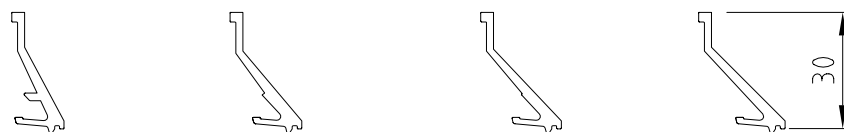
Rebate/
Threshold/
Complementary
extrusions

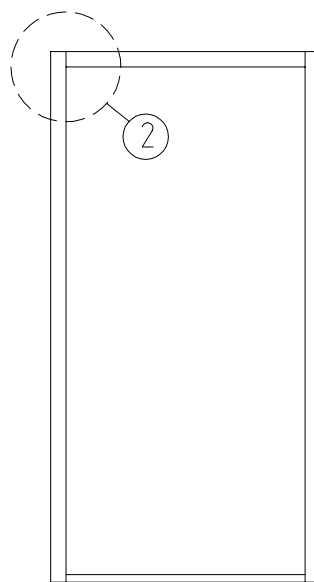
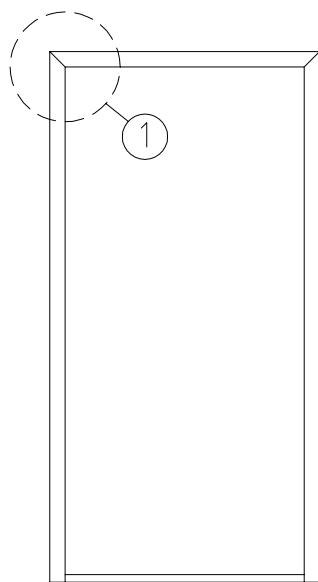


Glazing bead

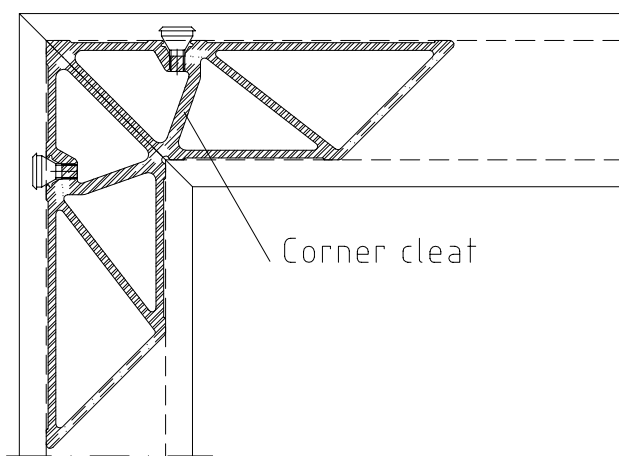
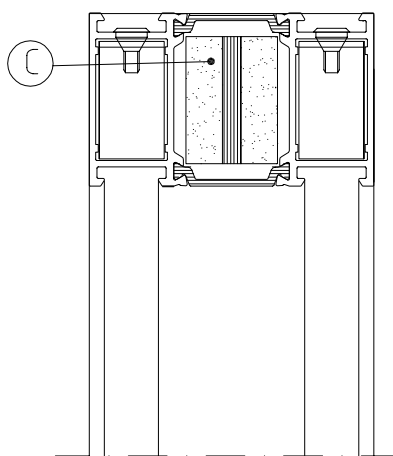


Alternative design of glazing bead extrusions

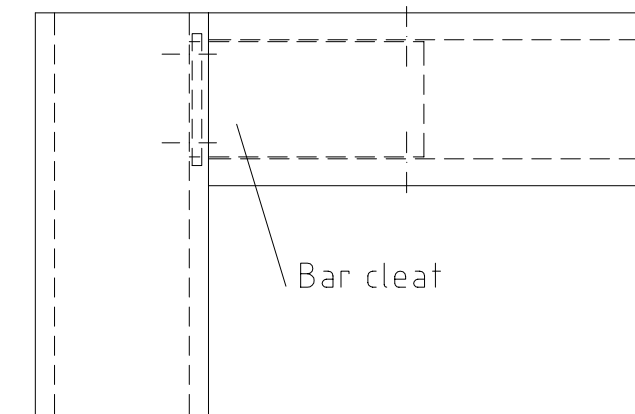
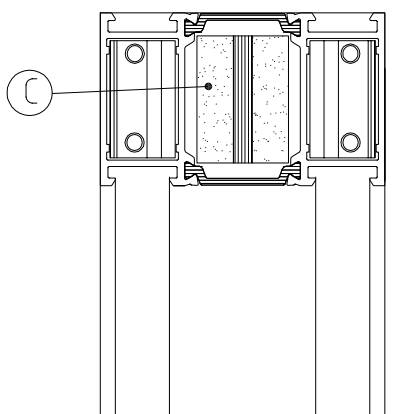




① Mitred joints



② Butt end joints



In all butted joints with fire insulation, according to pos. C, intumescent strip to be applied, pos. M.

Joints in screens for outdoor use have to be sealed with sealing compound Pyrosil B, pos. Y.

REFERENCE:

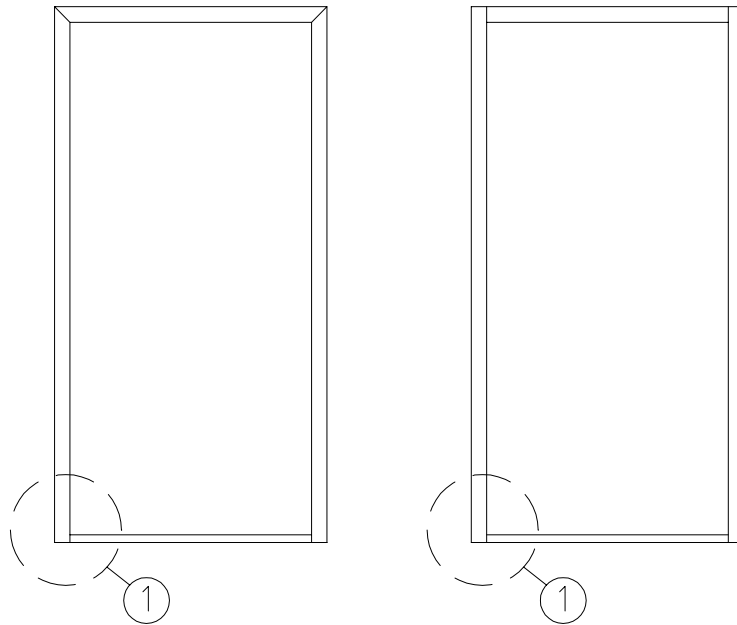
Bill of materials, see drawing No P2004-831, -832 and -833



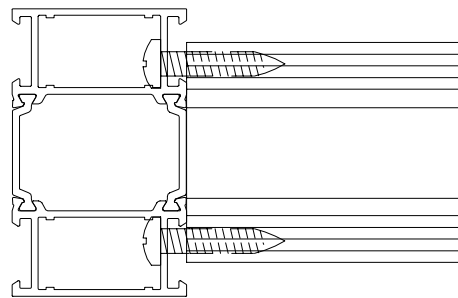
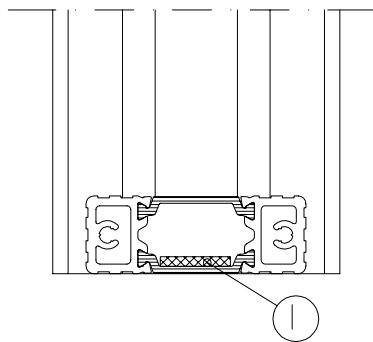
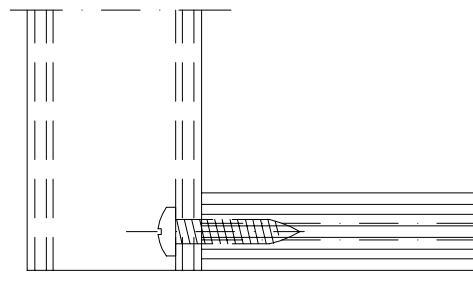
Assembling, mitred and
butt end joints
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 04-10 P2004-861



DETAIL 1



In all butt joints with fire insulation, according to pos. I, intumescent strip to be applied, pos. M.

Joints in screens for outdoor use have to be sealed with sealing compound Pyrosil B, pos. Y.

REFERENCE:

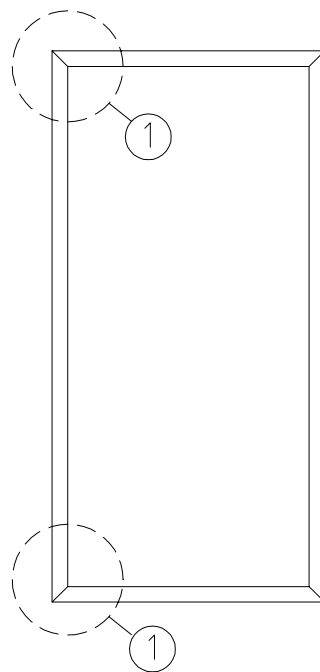
Bill of materials, see drawing No P2004-831, -832 and -833



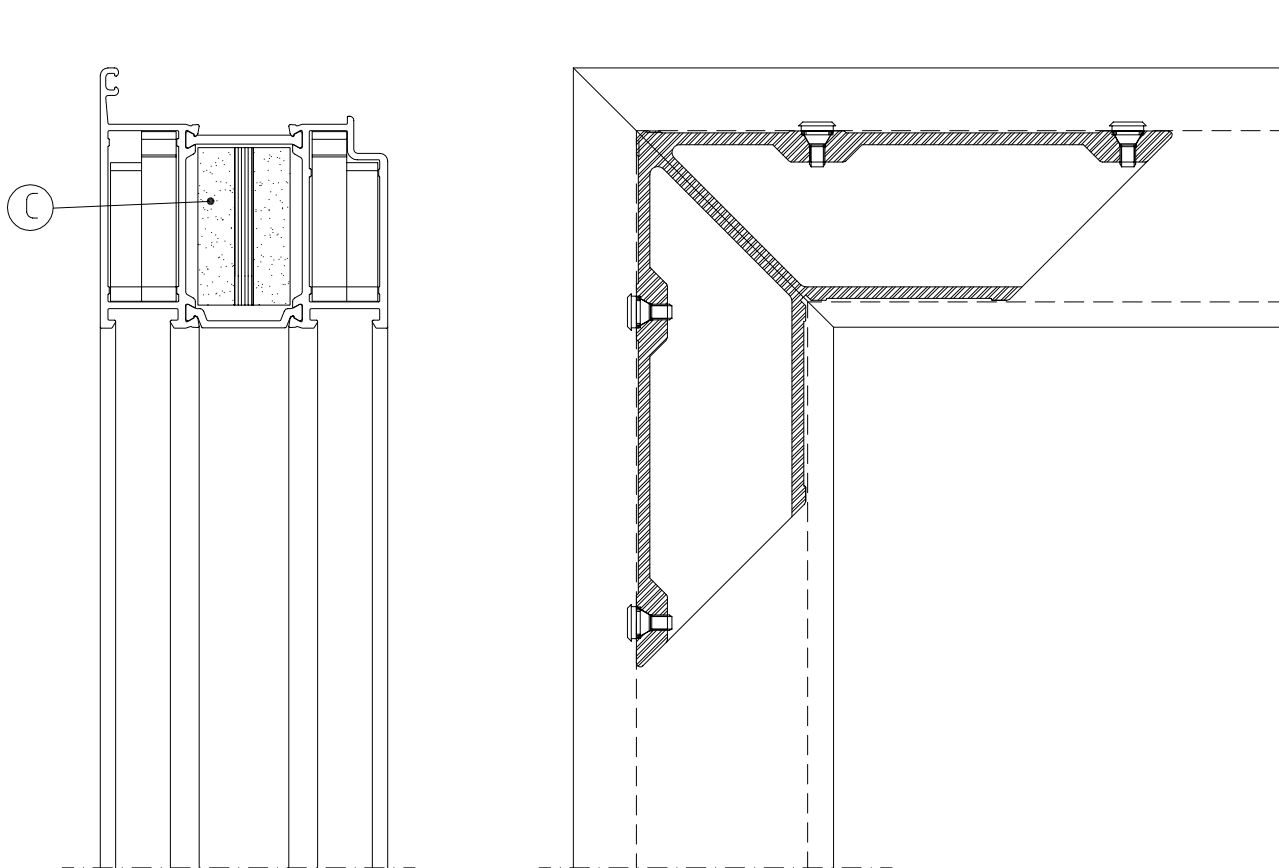
Assembling
frame/threshold
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 | 04-10 | P2004-862



① Mitred joints



In all butt joints with fire insulation, according to pos. C, intumescent strip to be applied, pos. M.

Joints in screens for outdoor use have to be sealed with sealing compound Pyrosil B, pos. Y.

REFERENCE:

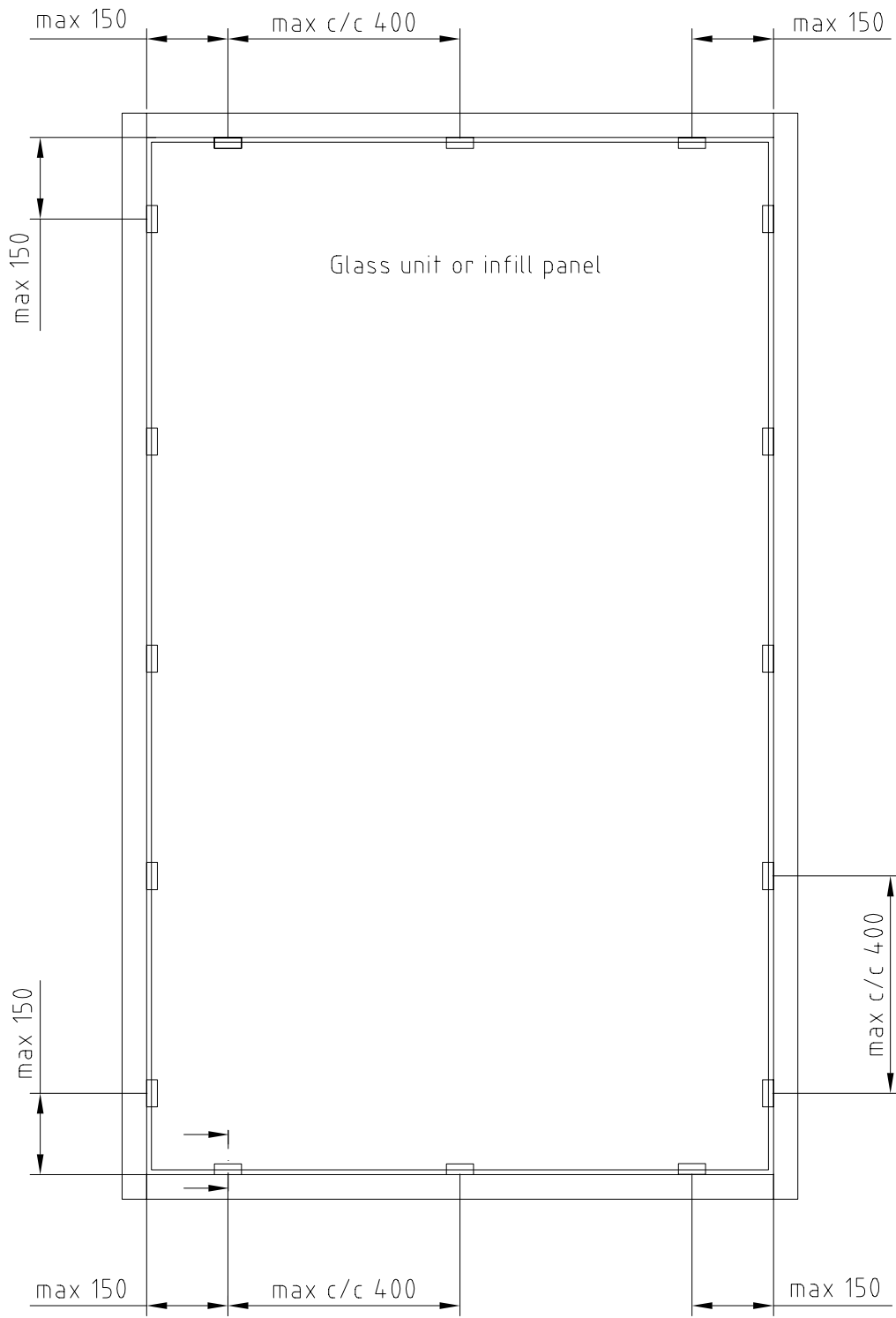
Bill of materials, see drawing No P2004-831, -832 and -833



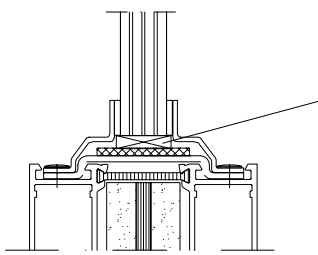
Assembling of door leaf
Mitred joints
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 | 04-10 | P2004-863



Minimum 2 pcs of glazing clips per side



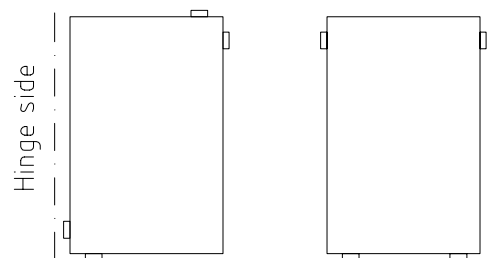
A - A

Location of setting blocks:

Blocks to be placed in accordance with good practice and glass suppliers instruction, and to be put on top of base clip, 12814/12819/12047, and intumescent strip, 18307.

Position of setting and location blocks in a door leaf.

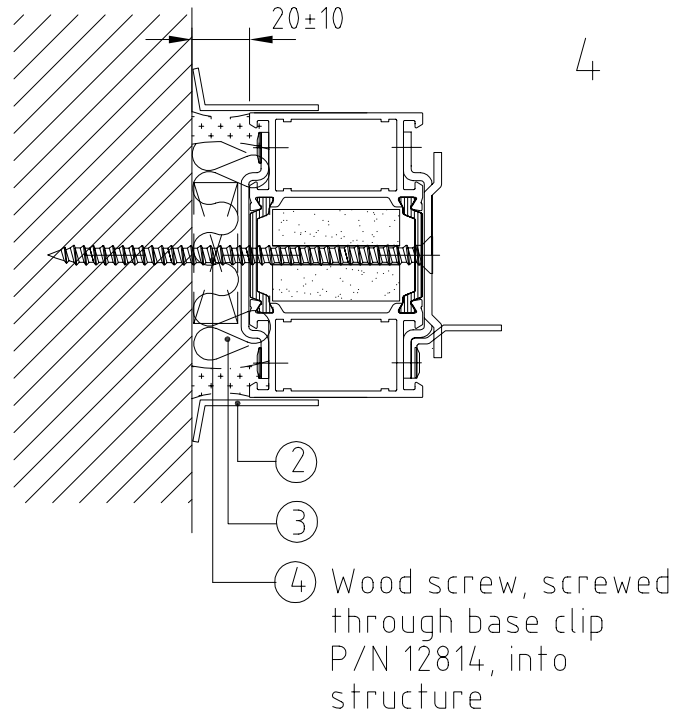
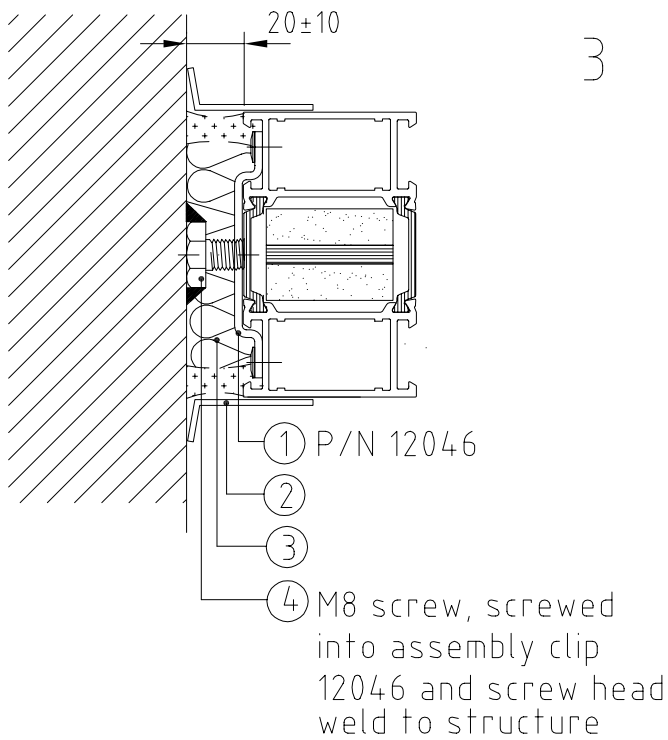
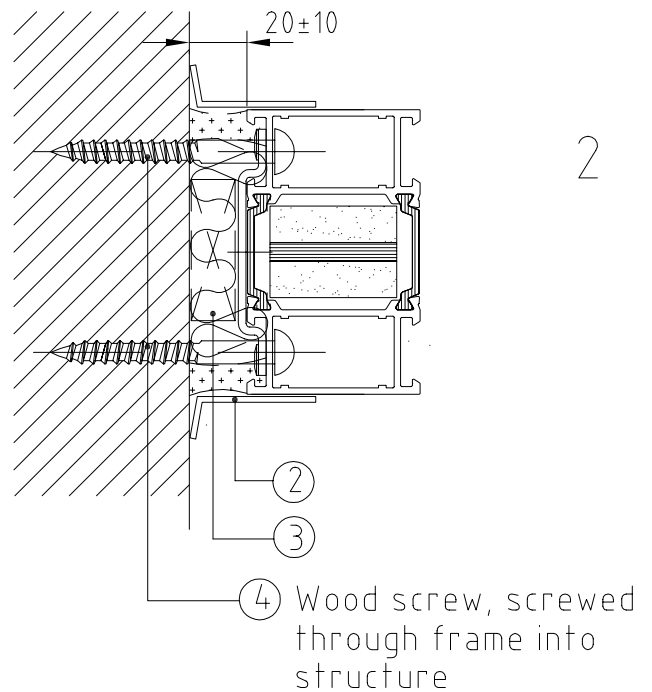
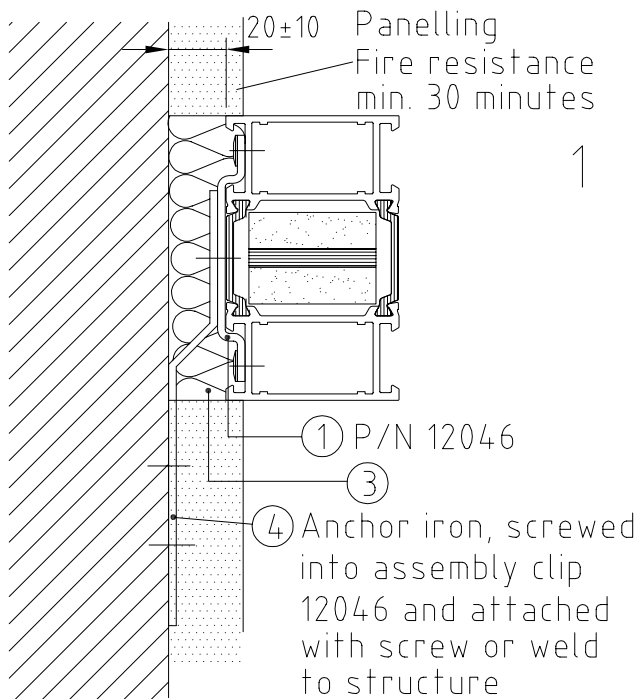
Position of setting and location blocks in a fixed screen.



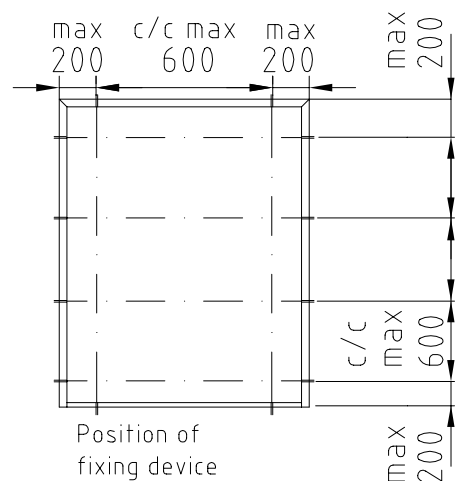
Locating instructions of glazing clips and blocks
30 minute fire resisting constructions

FIRE SCREEN 2074

1:2,5 | 04-10 | P2004-881



- ① Assembly fittings according to each section
- ② Angular profile alt. sealing compound
- ③ Insulation with mineral wool
- ④ Fixing device



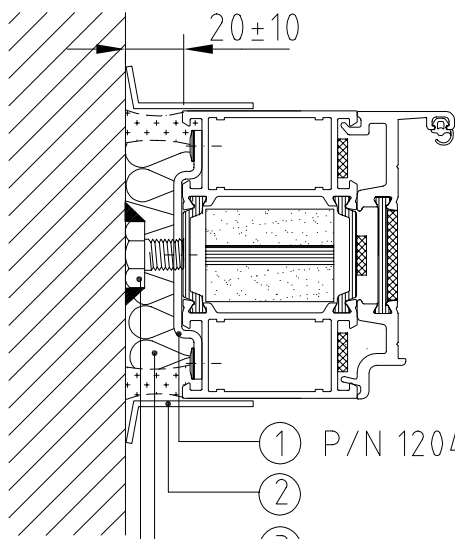
sapa

Installation instructions

30 minute fire resisting constructions

FIRE SCREEN 2074

1:2 04-10 P2004-891

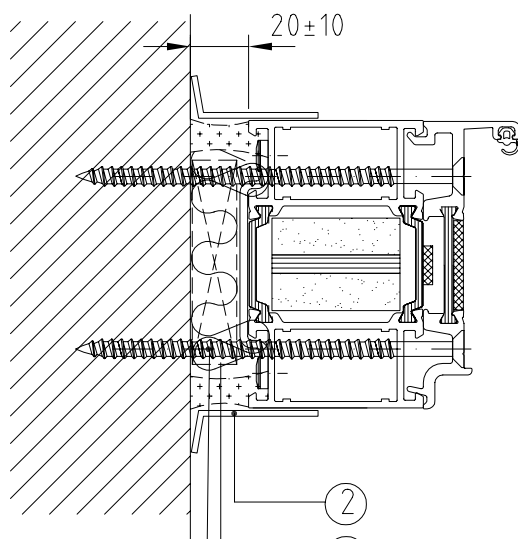


① P/N 12046

②

③

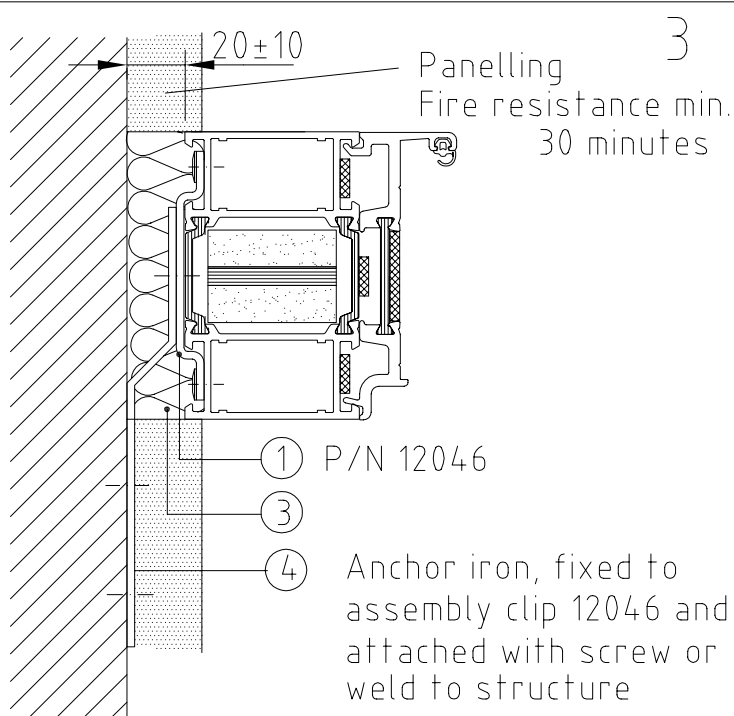
④ M8 screw, screwed into assembly clip 12046 and screw head welded to structure



②

③

④ Select screw acc. to type of wall

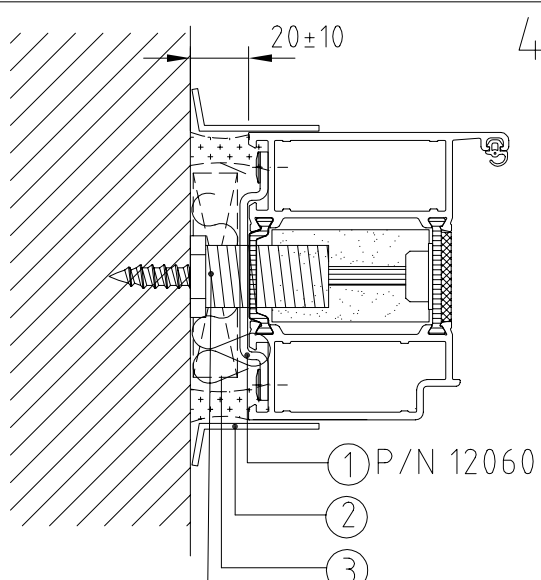


① P/N 12046

③

④

Anchor iron, fixed to assembly clip 12046 and attached with screw or weld to structure



① P/N 12060

②

③

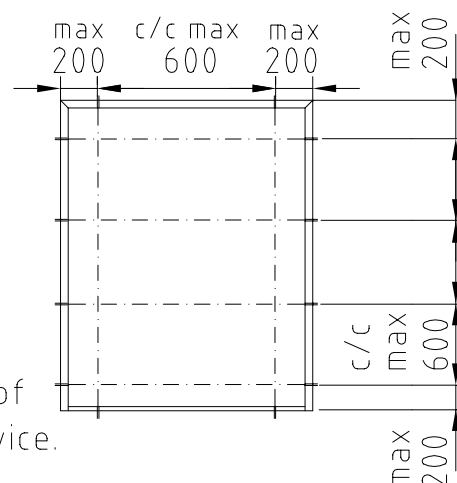
④ Adjustable M16 bush

① Assembly fittings according to each section

② Angular profile alt. sealing compound

③ Insulation with mineral wool

④ Fixing device



Position of fixing device.

sapa

Installation instructions

30 minute fire resisting constructions

FIRE SCREEN 2074

1:2

04-10

P2004-892

APPENDIX B

**Configurations, construction and installation details for
SFB 2060 system doorsets in SFB 2074 system partitions**

Sapa Figures

P2004 - 611

P2004 - 612

P2004 - 621

P2004 - 622

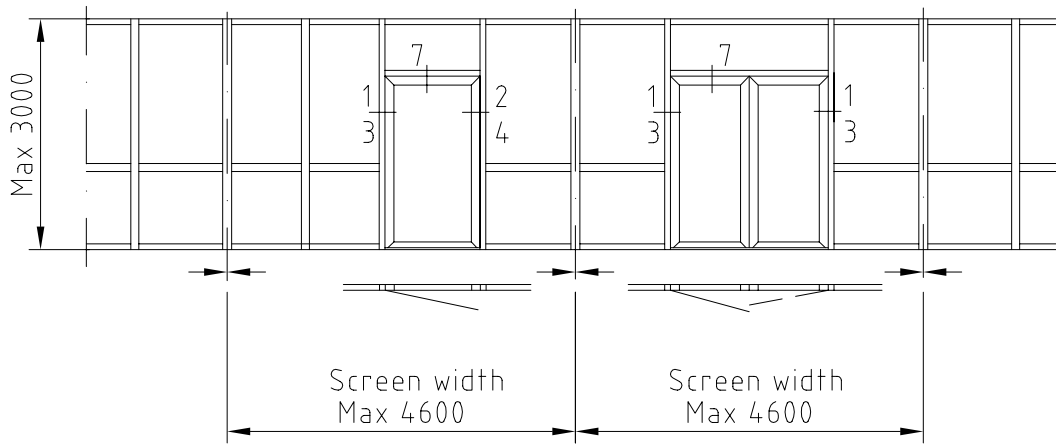
P2004 - 623

P2004 - 624

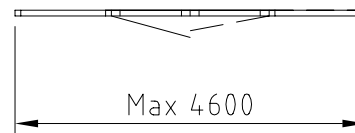
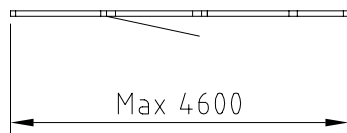
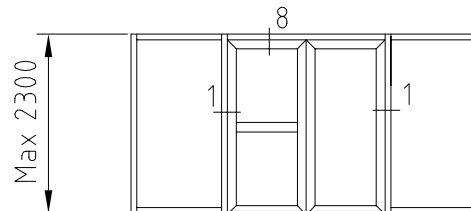
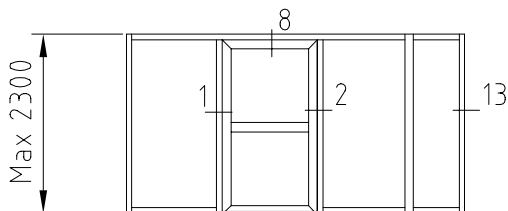
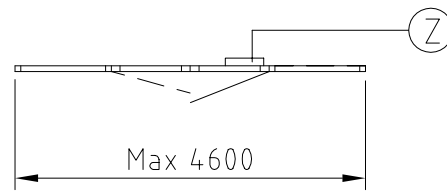
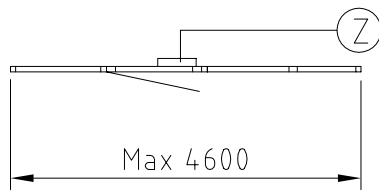
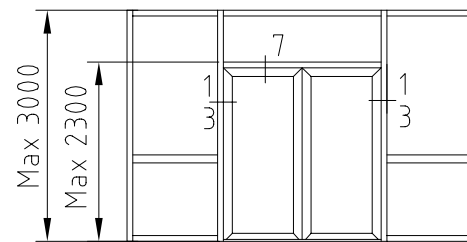
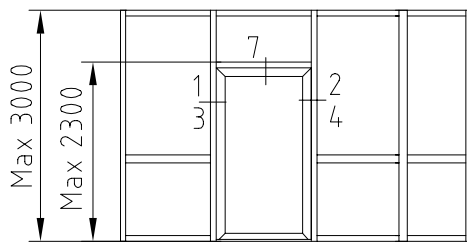
P2004 - 631

P2004 - 691

*The figures in this Appendix are not included
in the sequential page numbering of this report*



= Split mullions that accomodates thermal movements



In a Curtain Wall application the screen can be performed with inwards or outwards opening doors

REFERENCE:

Size limits for doors, see drawing No P2004-612

Glass and infil panels, see drawing No. P2004-814

Principle section of side/top lights and bars, see drawing No P2004-811

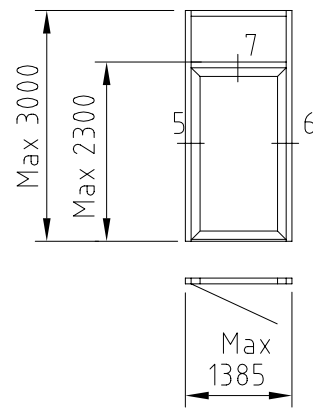
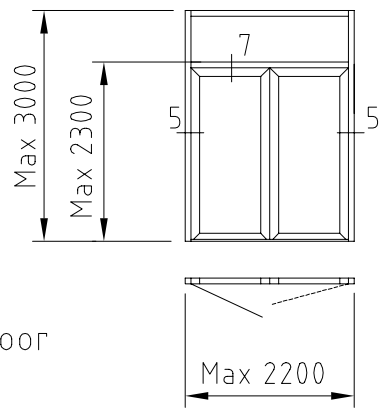
Bill of materials, see drawing No P2004-631



Elevations, doors with side and toplight
30 minute fire resisting constructions

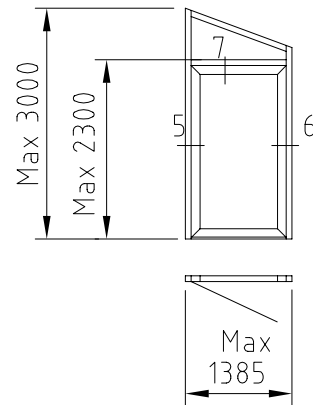
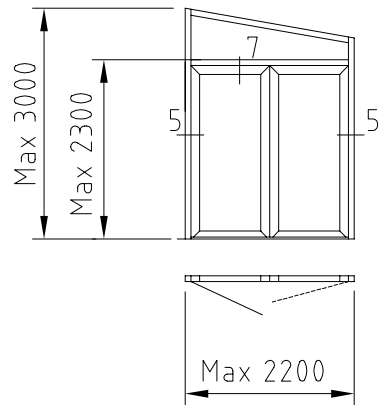
FIRESCREEN 2074

1:100 04-09 P2004-611



Maximum width of door leaf: 1271 mm

Alternative with inclined top light



In a Curtain Wall application the screen can be performed with inwards or outwards opening doors

REFERENCE:

Fire glass unit and infill panels, see drawing No P2004-814

Principle section of side/top lights and bars, see drawing No P2004-811

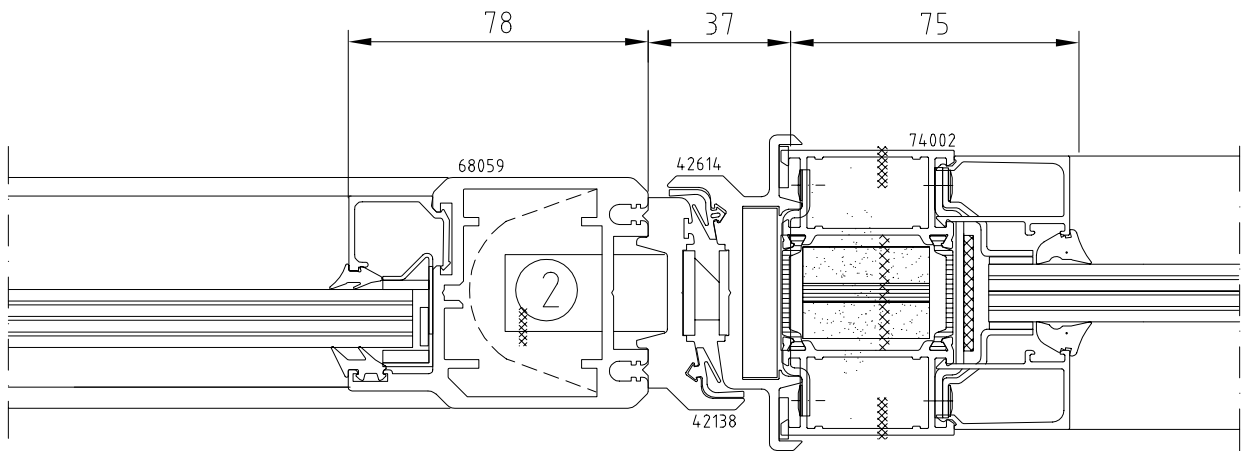
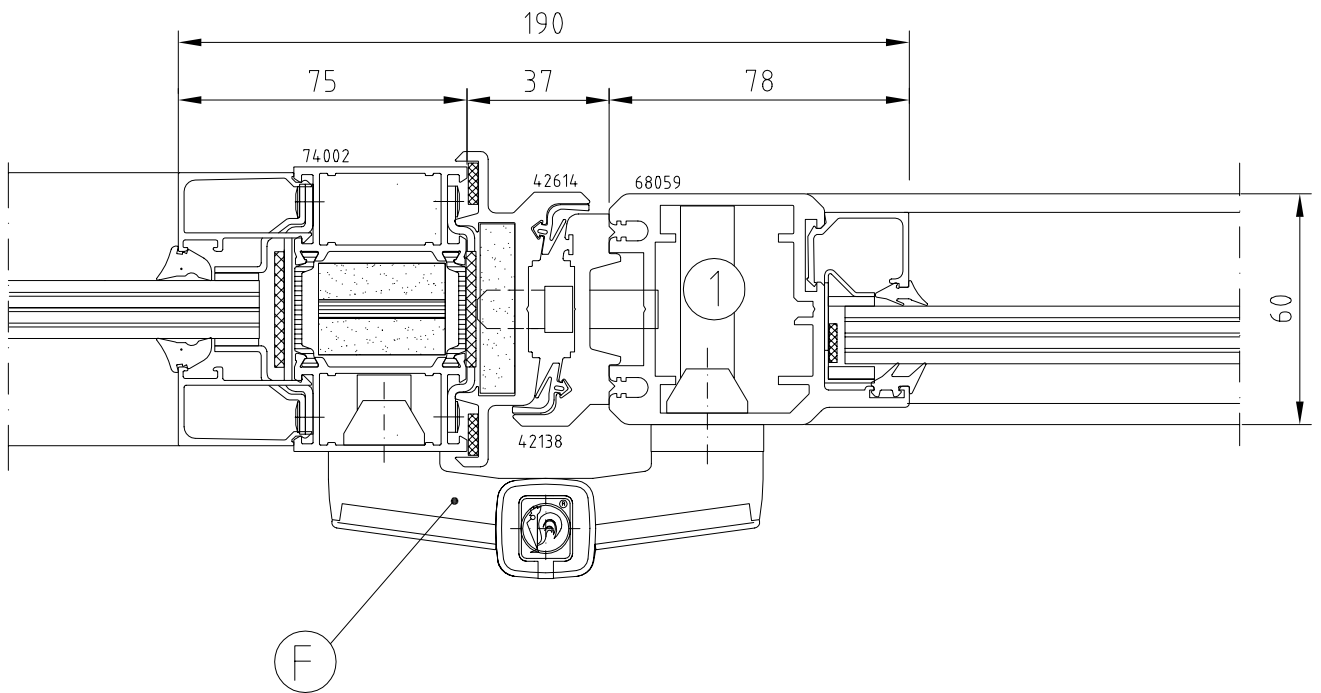
Bill of materials, see drawing No P2004-631



Elevations, single and double doors with toplight
30 minute fire resisting constructions

FIRESCREEN 2074

1:100 | 04-09 | P2004-612



Frame member
 Mullions according to section 1 and 2
 may be used for screen heights up
 to 2300mm

REFERENCE:
 Bill of materials, see drawing No P2004-631

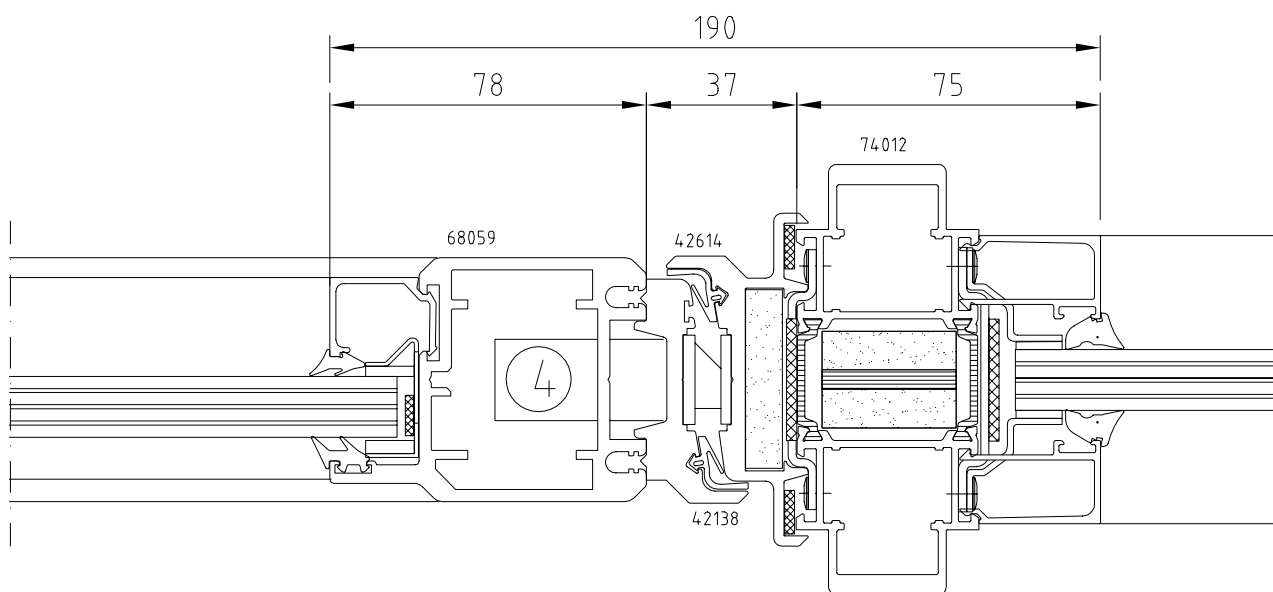
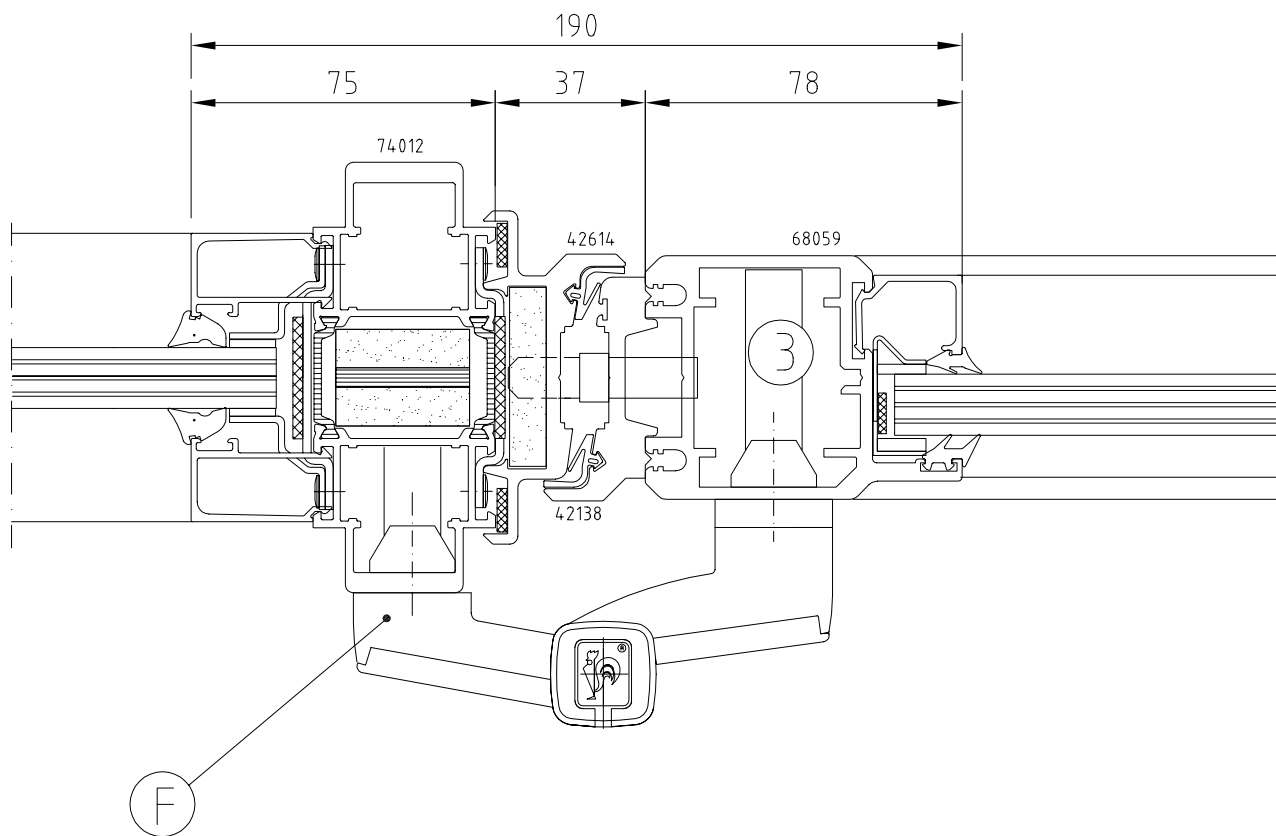


Section 1 - 2

30 minute fire resisting constructions

FIRESCREEN 2074

1:2 04-09 P2004-621



Frame member

Mullions according to section 3 and 4 must be used in screens with heights over 2300mm

REFERENCE:

Bill of materials, see drawing No P2004-631

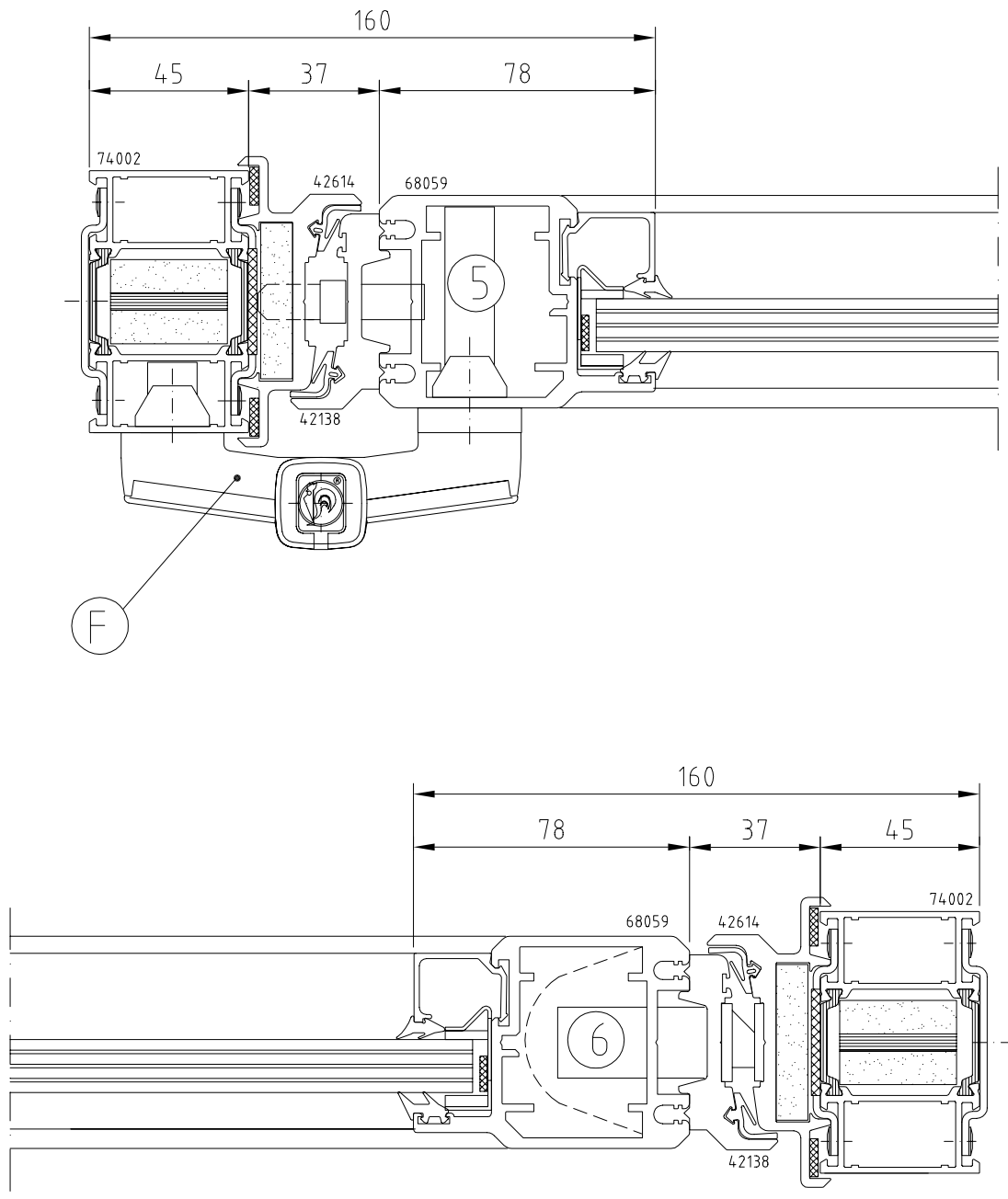
sapa

Section 3 - 4

30 minute fire resisting constructions

FIRESCREEN 2074

1:2 04-09 P2004-622



REFERENCE:
 Bill of materials, see drawing No P2004-631

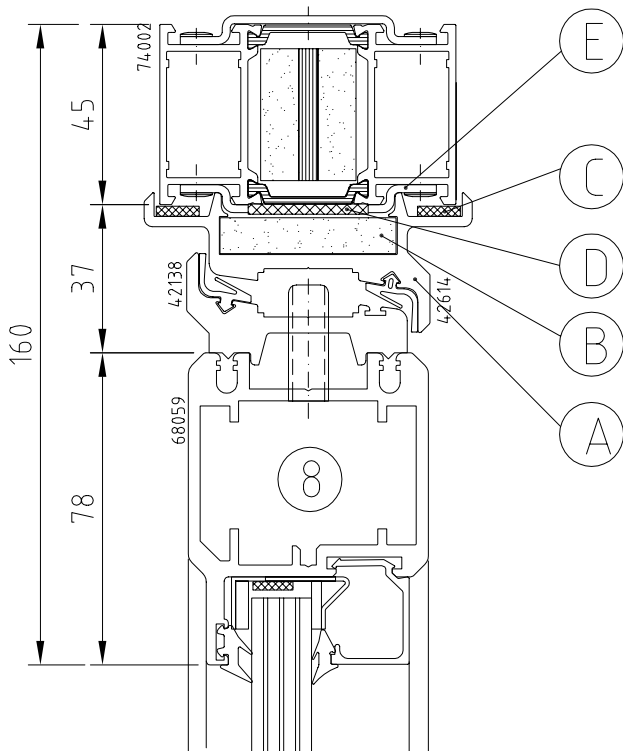
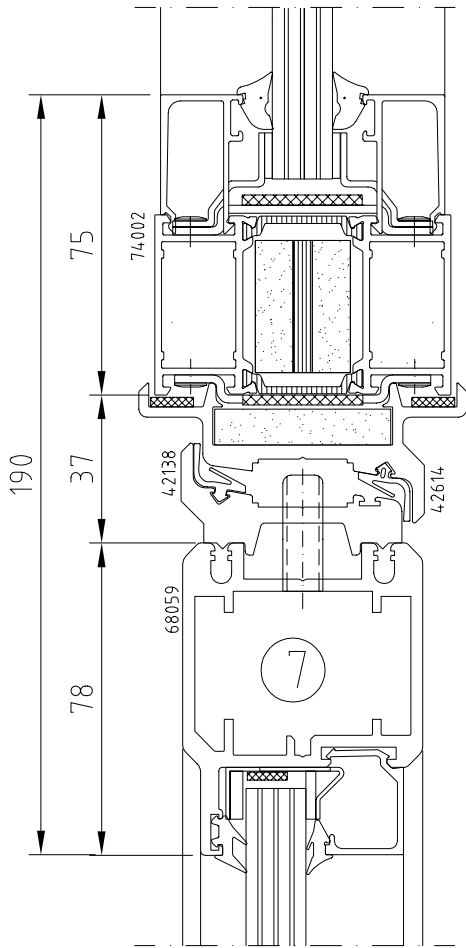


Section 5 - 6

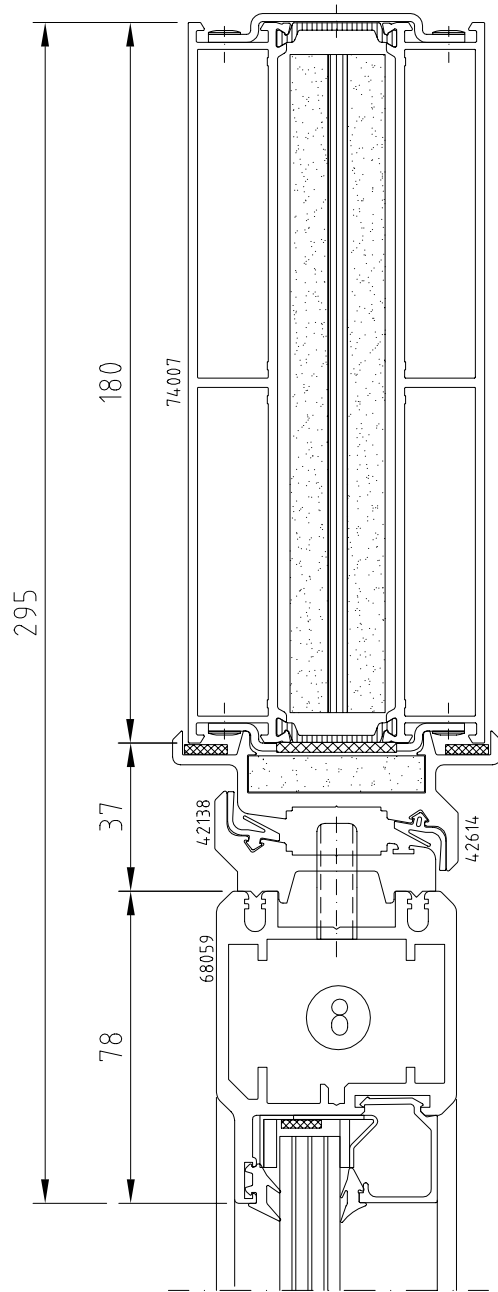
30 minute fire resisting constructions

FIRESCREEN 2074

1:2 04-09 P2004-623



Section 8:
Design (- extrusion) for automatic door
opener



REFERENCE:
Bill of materials, see drawing No P2004-631

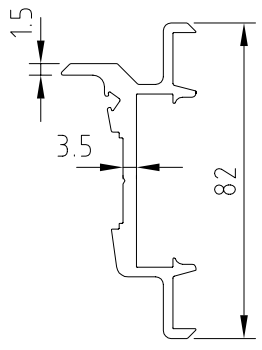
sapa

Section 7 - 8

30 minute fire resisting constructions

FIRESCREEN 2074

1:2 04-09 P2004-624

	Designation	Part No Sapa	Material	Remarks	Reference
A	Aluminium extrusions 	42614	Alloy EN-AW-6063-T6	Surface treatment: Anodized alt. powder coated	P2004-624
B	Fire insulation	18312	Gypsum wallboard	Gyproc U GU 9, or similar	P2004-624
C	Intumescent strip	18303	Intumex LSK alt. Pyroplex	2.5x10 mm 2x10 mm	P2004-624
D	Intumescent strip	18307	Intumex LSK alt. Pyroplex	2.5x30 mm 2x30 mm	P2004-624
E	Assembly clips	12047	Stainless steel BS304S15	Thickn.=2mm L=50mm Fixed with 2 pcs pop rivets, diam. 4 mm made of stainless steel	P2004-624
F	Hinges	14032 14033	Aluminium with stainless steel pin Ø12 mm and bushing for fire resistance doors	Dr. Hahn serie 60 AT	P2004-621 P2004-622 P2004-623

sapa

Bill of materials

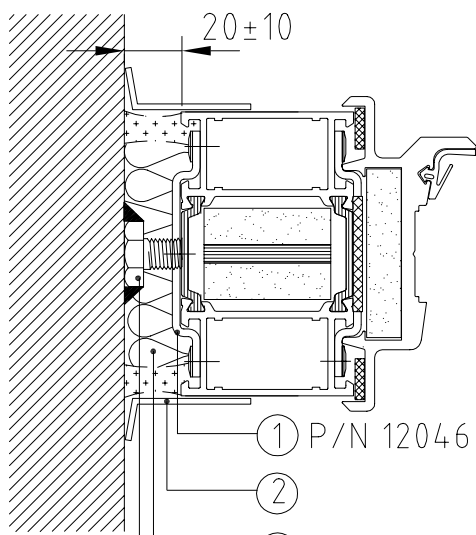
30 minute fire resisting constructions

FIRESCREEN 2074

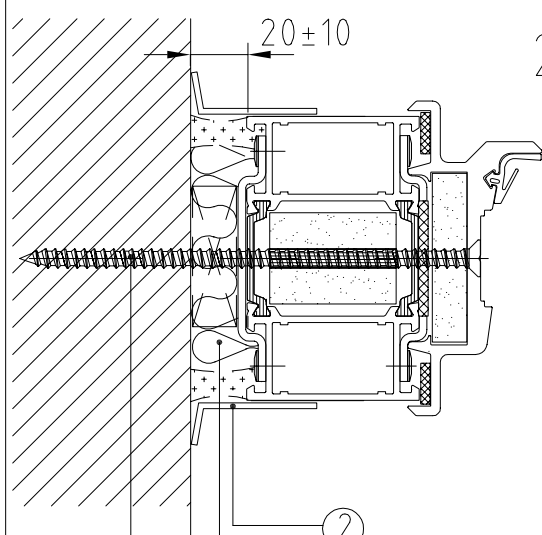
-

04-09

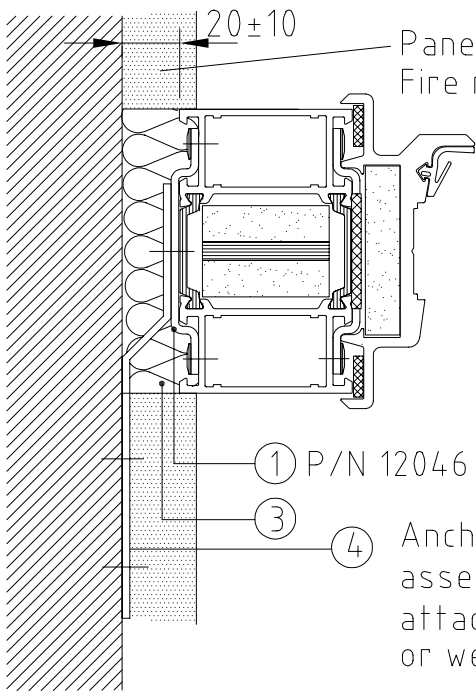
P2004-631



- ① P/N 12046
 ②
 ③
 ④ M8 screw, screwed into assembly clip 12046 and screw head welded to structure



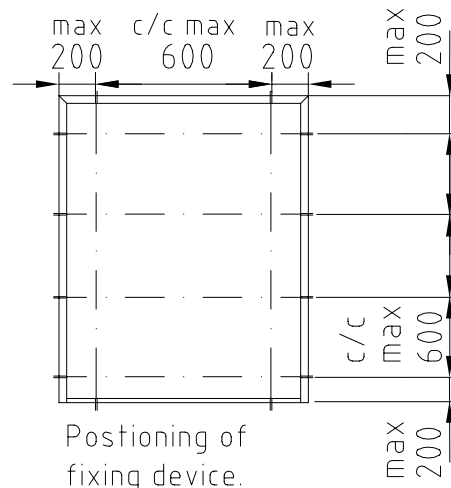
- ②
 ③
 ④ Wood screw, screwed through frame member to structure



Panelling
 Fire resistance minimum 30 minutes

- ① P/N 12046
 ③
 ④ Anchor iron, fixed to assembly clip 12046 and attached with screw or weld to structure

- ① Assembly fittings according to each section
 ② Angular profile or sealing compound
 ③ Insulation with mineral wool
 ④ Fixing device



Positioning of fixing device.

APPENDIX C

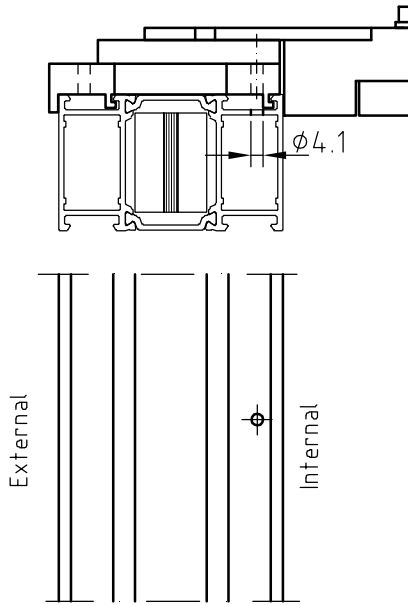
General constructional details for SFB 2074 and SFB 2060 systems

Sapa Figures

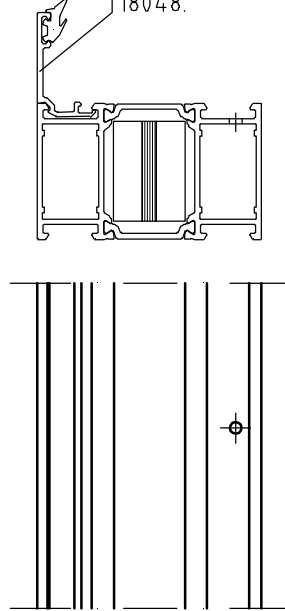
P2074 - 905	P2074 - 914
P2074 - 906	P2074 - 915
P2074 - 907	P2074 - 916
P2074 - 908	P2074 - 917
P2074 - 909	P2074 - 918
P2074 - 910	P2074 - 919
P2074 - 913	P2074 - 920

*The figures in this Appendix are not included
in the sequential page numbering of this report*

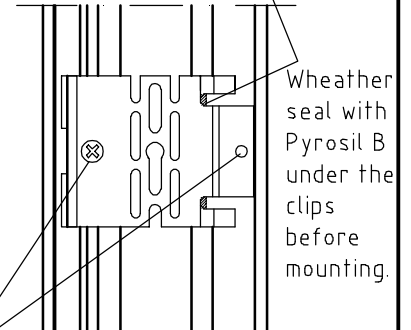
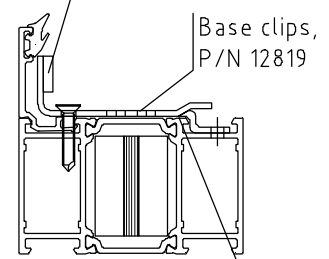
1 Drill hole $\phi 4.1$, for pop nut in internal section. Use drill jig P/N 19188.



2 Fit external glazing bead P/N 42712 and gasket P/N 18048.

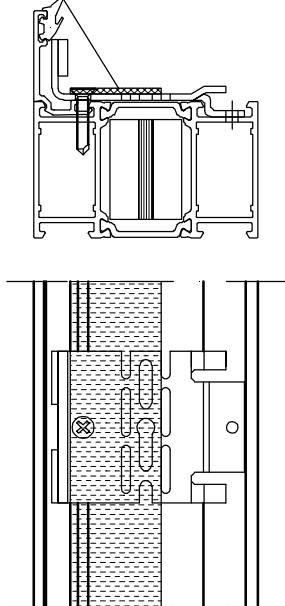


3 Apply Fiberfrax 3.2x12mm, alt. Intumex 1x14mm (P/N 18334) at base clips P/N 12819.

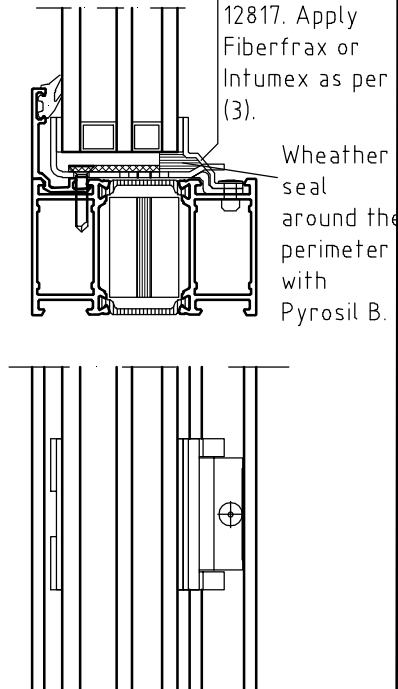


Base clips is mounted with screw, P/N 12177 (+ butyl tape). Make sure that the hole for the pop nut lines up with predrilled hole (1).

4 "I" strip, P/N 18307, to be applied within perimeter of the rebate.

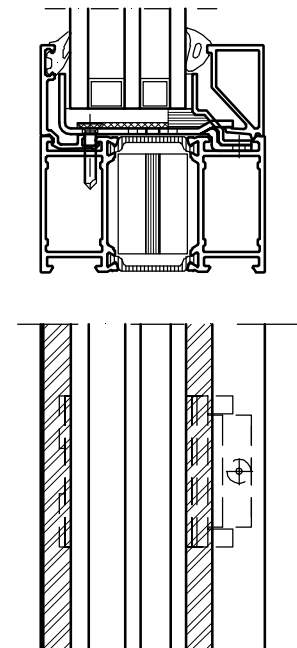


5 Glazing clips P/N 12816, 12817. Apply Fiberfrax or Intumex as per (3).
Weather seal around the perimeter with Pyrosil B.



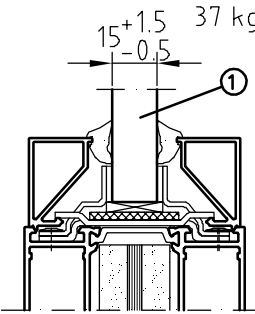


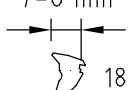
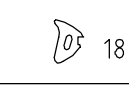
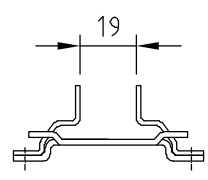
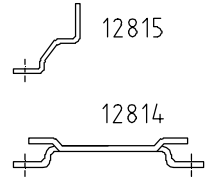
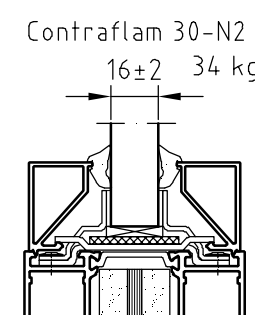
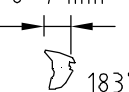

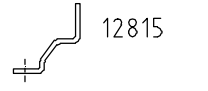
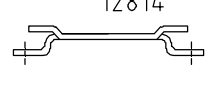
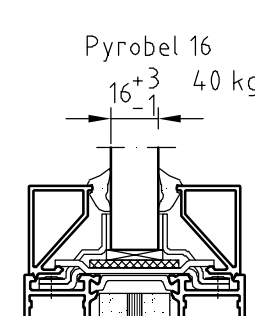
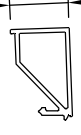
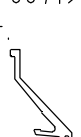
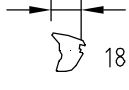
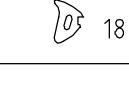

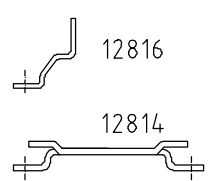
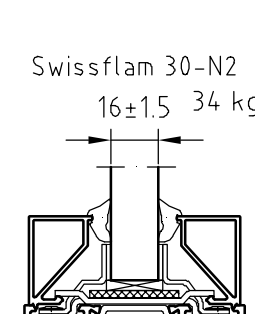
After the glass unit has been mounted the glazing clips are mounted by pop nut. Pop nut L=10 mm, $\phi 4$ mm (10x4) ss/ss A2, P/N 12139.
In doors the setting block could be placed on the clips.

6 Fit internal glazing bead and gasket.



REFERENCE:

Instruction for setting blocks and clips, see drawing P2004-881
Holes for base/glazing clips, see drawing P2074-582.
Weather seal of external screens, see drawing P2074-694.

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N	Glazing clips P/N
<p>Pyrostop 30-10 D EI30 15^{+1.5}_{-0.5} 37 kg/m²</p> 	<p>21.25</p>  <p>68718</p> <p>Alt.</p>  <p>42704</p>	28.5	14	<p>7-8 mm</p>  <p>18368</p>  <p>18060</p>	<p>19</p>  
<p>Contraflam 30-N2 EI30 16±2 34 kg/m²</p> 		28.5	15 - 16	<p>6-7 mm</p>  <p>18370</p>  <p>18059</p>	<p>12815</p>  <p>12814</p> 
<p>Pyrobel 16 EI30 16⁺³₋₁ 40 kg/m²</p> 	<p>19.75</p>  <p>68719</p> <p>Alt.</p>  <p>42703</p>	31.5	17	<p>7-8 mm</p>  <p>18368</p>  <p>18060</p>	<p>22</p>  
<p>Swissflam 30-N2 EI30 16±1.5 34 kg/m²</p> 					

① Glass in facade
At installation the suppliers Certificate and instructions should be regarded.

Glass size = Daylight opening + 42mm

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N	Glazing clips P/N
Pyrostop 30-20 D EI30 $18^{+0.5}_{-1.5}$ 44 kg/m ² 	19.75 68719 Alt. 42703	31.5	17	$7-8$ mm 18368 18060	22 12816 12814
		31.5	18 - 19	$6-7$ mm 18370 18059	
Pyrobel 16 EG EI30 20^{+2}_{-1} 48 kg/m ² 	17.5 Alt. 68720 42702	36	20 - 22	$7-8$ mm 18368 18060	26 12817 12814
			46	30 - 32	$7-8$ mm 18368 18060
Contraflam 30-N2 EI30 32 ± 2 44 kg/m ² 	12.5 Alt. 68721 42701	46	30 - 32	$7-8$ mm 18368 18060	
			46	33 - 34	$6-7$ mm 18370 18059
Swissflam 30-N2 EI30 32 ± 1.5 44 kg/m ² 					

① Exterior screen
 Distance between glass and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.
 Glass size = Daylight opening + 42mm

② Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainage of external screens; see drawing P2074-506~~

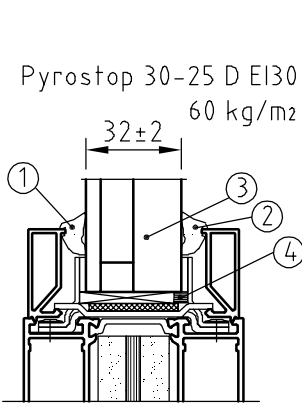
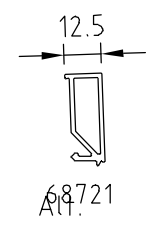

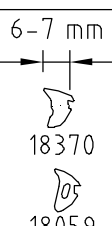


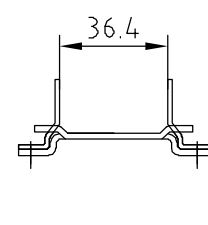
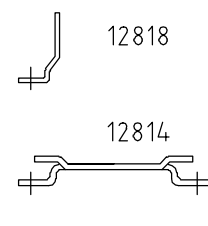

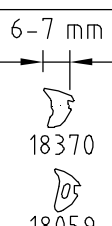
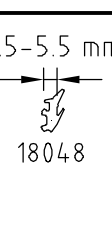

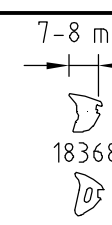
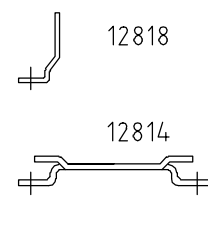
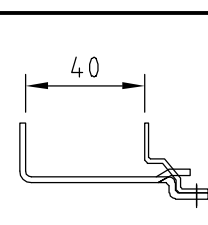
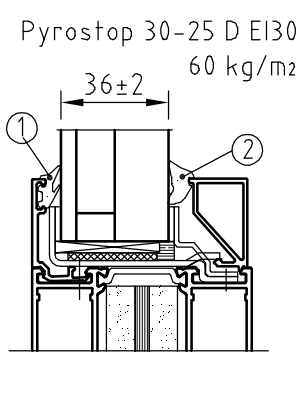
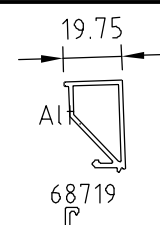
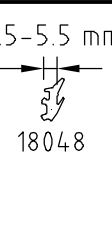


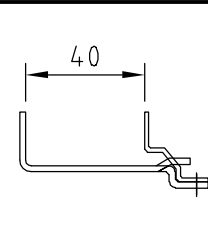
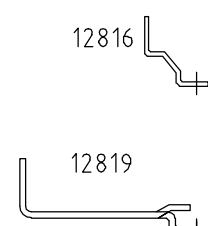
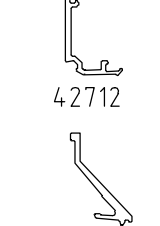
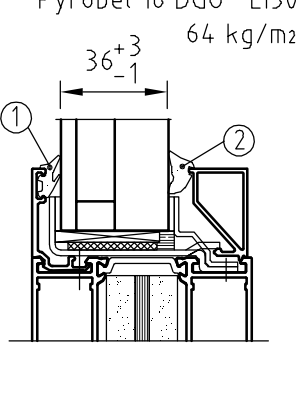
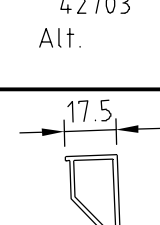
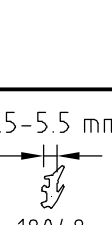
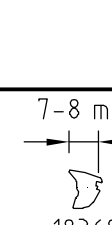
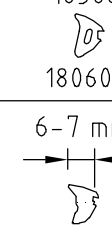
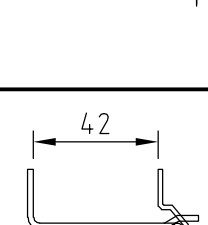
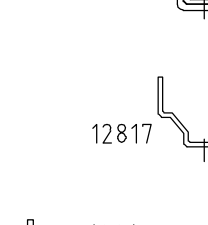
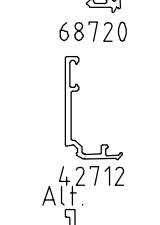
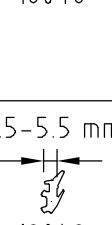
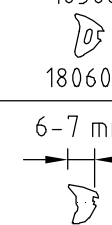
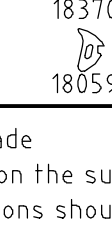
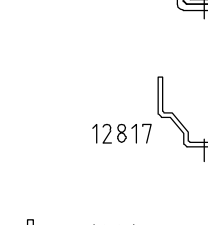

~~Weather seal of external screens; see drawing P2074-604~~



Glazing instruction
 Fire glass for external screen
~~Fire-rated EI30~~

FIRE SCREEN 2074

1:2,5 | 04-10 | P2074-907

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N ①	Gasket P/N ②	Glazing clips P/N
Pyrostop 30-25 D EI30 60 kg/m ² 	 68721 Alt.	46	30 - 32	7-8 mm  18368  18060	7-8 mm  18368  18060	 36.4 12818  12814
	 42701	46	33 - 34	6-7 mm  18370  18059	6-7 mm  18370  18059	 12818  12814
Pyrostop 30-25 D EI30 60 kg/m ² 	 Alt. 68719	48.25	35 - 36	4.5-5.5 mm  18048	7-8 mm  18368  18060	 40 12816  12819
	 Alt. 42703					
Pyrobel 16 DGU EI30 64 kg/m ² 	 68720	50.5	37-38	4.5-5.5 mm  18048	7-8 mm  18368  18060	 42 12817  12819
	 Alt. 42712			39 4.5-5.5 mm  18048	6-7 mm  18370  18059	 12817  12819

③ Exterior screen
 Distance between glass and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.
 Glass size = Daylight opening + 42mm

④ Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Designing of external screens; see drawing P2074-500~~

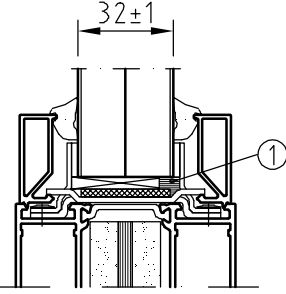


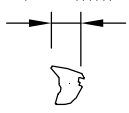

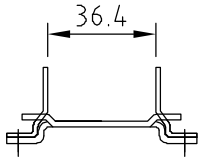
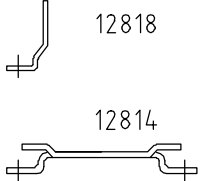
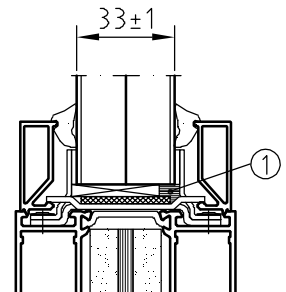


~~Weather seal of external screens; see drawing P2074-604~~



Glazing instruction
 Fire glass for external screen
~~Fire-rated EI30~~

FIRE SCREEN 2074

1:2,5 04-10 P2074-908

Infill panel	Glazing bead	Rebate depth	Panel thickness	Gasket P/N	Glazing clips P/N
Stp-G 41,4 kg/m ² 	 68721 Alt.  42701	46	30 - 32	7-8 mm  18368  18060	 36.4 12818  12814
Alp-G 33,4 kg/m ² 		46	33 - 34	6-7 mm  18370  18059	

Panel size = Daylight opening + 42mm

- ① Panel at exterior screen:
 Distance between panel and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainaging of external screens; see drawing P2074-500~~

~~Weather seal of external screens; see drawing P2074-601~~



Infill panels


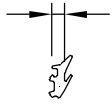
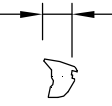
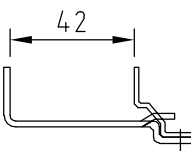
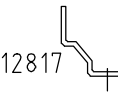
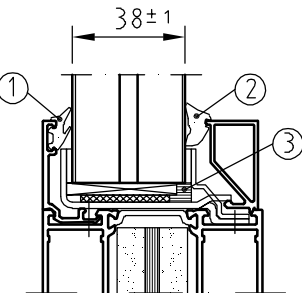
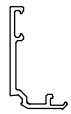


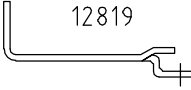
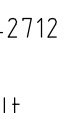

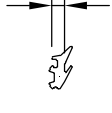
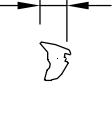
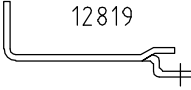
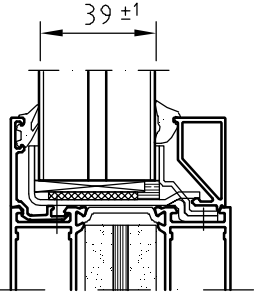

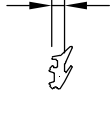
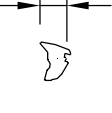
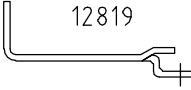
~~Fire rated E130~~

FIRE SCREEN 2074

1:2,5

04-10

P2074-909

Infill panel	Glazing bead	Rebate depth	Panel thickness	Gasket P/N ①	Gasket P/N ②	Glazing clips P/N
Stp-G 47 kg/m ²	17.5 	50.5	37 - 38	4.5-5.5 mm 	7-8 mm 	 42  12817
	68720 	50.5	37 - 38	18048 	18368 	12819 
	42712 			Alt.	39 - 40	
Alp-G 39 kg/m ²		50.5	39 - 40	4.5-5.5 mm 	6-7 mm 	12819 
	42702 	50.5	39 - 40	18048 	18370 	12819 

Panel size = Daylight opening + 42mm

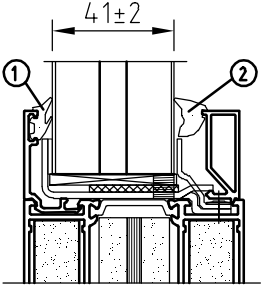
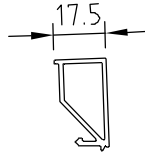
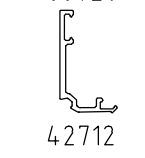
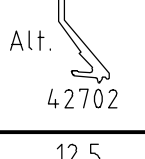
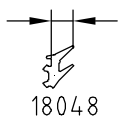
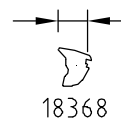

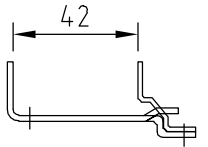
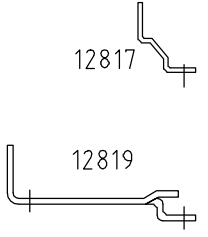
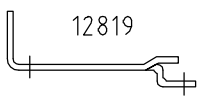
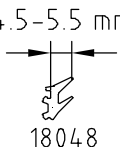
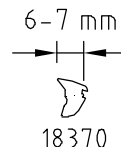
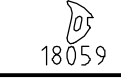
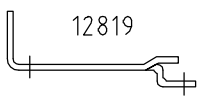
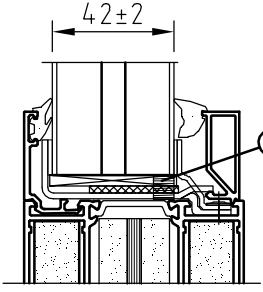
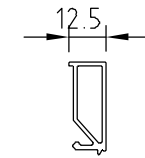
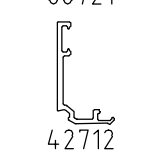
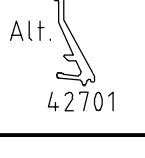
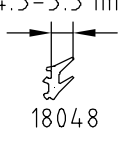
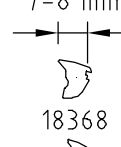
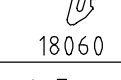
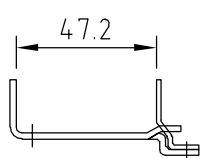
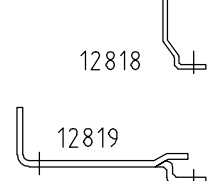
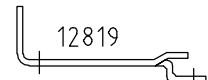
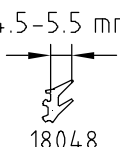
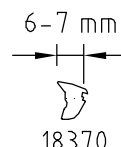

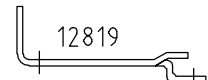
- ③ Panel at exterior screen:
Distance between panel and frame to be sealed all perimeter with Pyrosil B.
Rebate to be drained to the outside.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainage of external screens; see drawing P2074-506~~

~~Weather seal of external screens; see drawing P2074-604~~

Infill panel	Glazing bead	Rebate depth	Panel thickness	Gasket P/N ①	Gasket P/N ②	Glazing clips P/N
Stp-G 48,6 kg/m ² 	 68720  42712 Alt.  42702	50.5	37 - 38	4.5-5.5 mm  18048	7-8 mm  18368  18060	 42  12817  12819
		50.5	39 - 40	4.5-5.5 mm  18048	6-7 mm  18370  18059	 12819
Alp-G 40,6 kg/m ² 	 68721  42712 Alt.  42701	55.5	41 - 42	4.5-5.5 mm  18048	7-8 mm  18368  18060	 47.2  12818  12819
		55.5	43 - 44	4.5-5.5 mm  18048	6-7 mm  18370  18059	 12819

Panel size = Daylight opening + 42mm

- ③ Panel at exterior screen:
 Distance between panel and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainaging of external screens; see drawing P2074-506~~

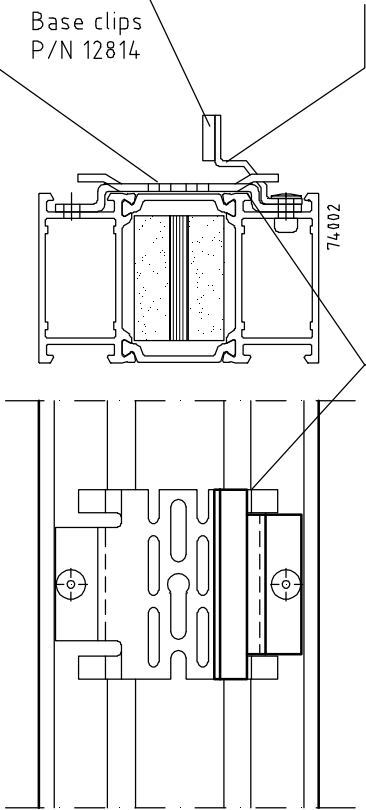
~~Weather seal of external screens; see drawing P2074-604~~

1

Apply Intumex 3,2x14mm, P/N 18334 alt. Fiberfrax, 3.2x12mm to glazing clips.

Base clips P/N 12814

Glazing clips P/N 12815, -16, -17, -18

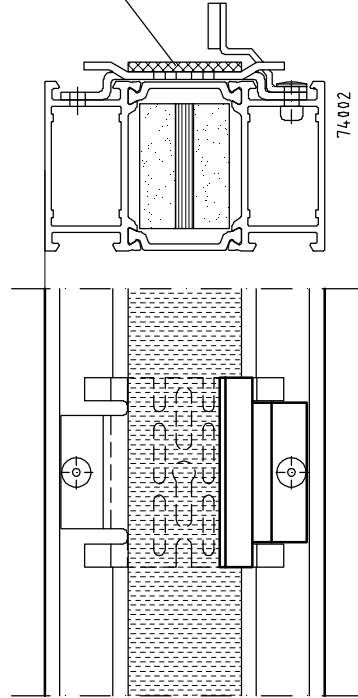


Weather seal with Pyrosil B under the clips before mounting.

Base clips, P/N 12814, are mounted together with glazing clips. Mounts with pop nut L=10mm, ϕ 4mm (10x4) ss/ss A2, P/N 12139.

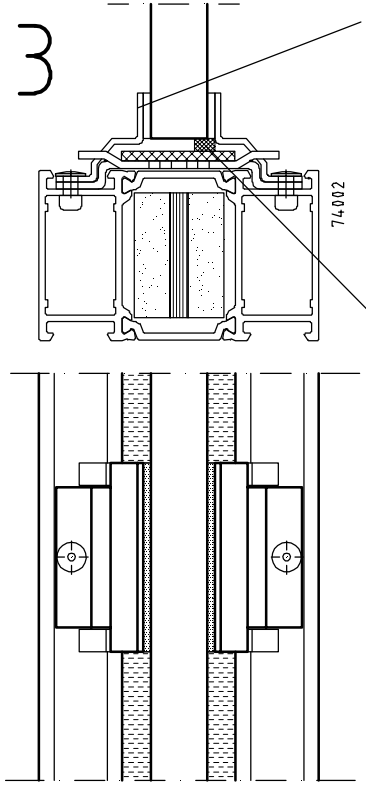
2

Intumescent strip, 30x2.5mm, P/N 18307, to be applied around the full perimeter of the rebate.



3

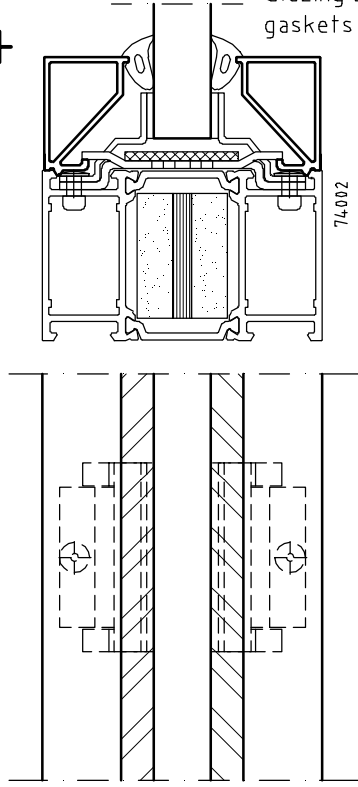
After the glass unit has been mounted the glazing clips are mounted by pop nut. Instructions for glazing blocks, see drawing P2004-881, -981. In doors the glazing block could be placed on the clips.



External screen; weather seal around the perimeter with Pyrosil B.

4

Glazing beads and gaskets are mounted.



REFERENCE:

Position of clips, see drawing P2004-881, -981

~~Notes for base clips, see drawing P2074-502~~

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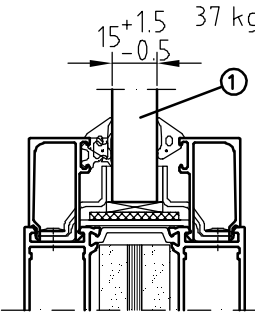
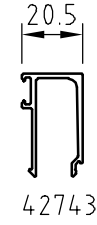
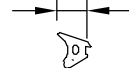
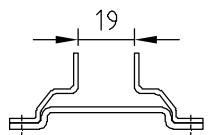
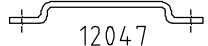
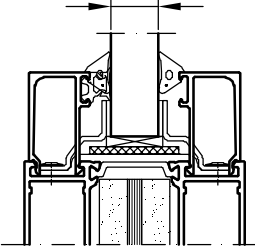
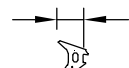
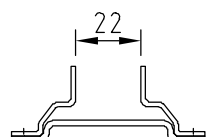
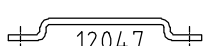
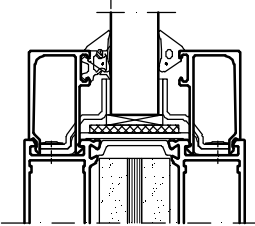
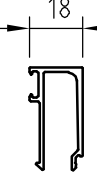
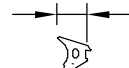
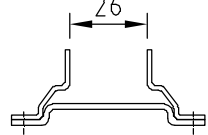
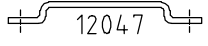
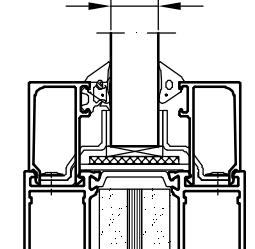
Instructions of mounting glazing clips and intumescent strip.

FIRE SCREEN 2074

1:2

04-10

P2074-914

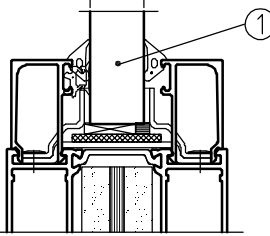
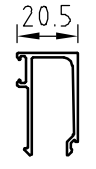
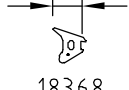
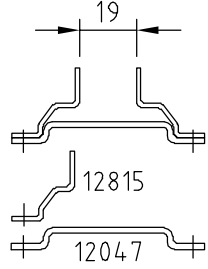
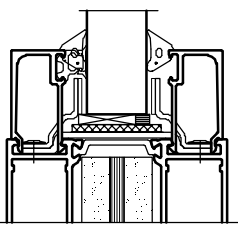
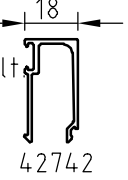
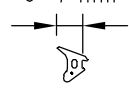
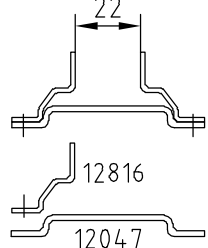
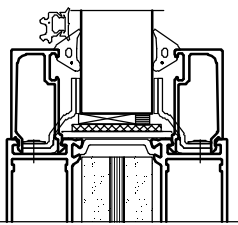
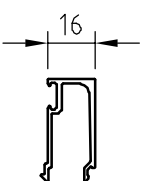
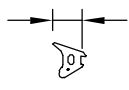
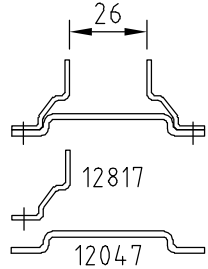
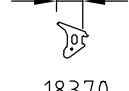
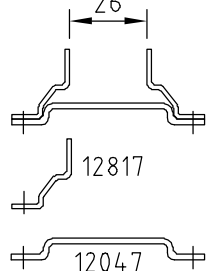
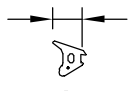
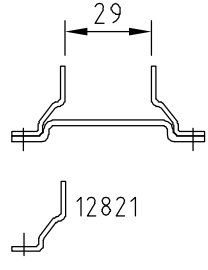
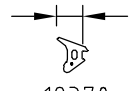
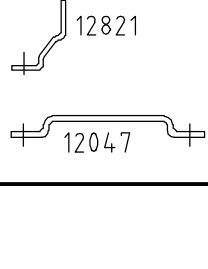
Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N	Glazing clips P/N
Pyrostop 30-10 D EI30 $15^{+1.5}_{-0.5}$ 37 kg/m ² 	 42743	30	14 - 16	7-8 mm  18368	 12815  12047
Contraflam 30-N2 EI30 16 ± 2 34 kg/m ² 		30	17 - 18	6-7 mm  18370	 12816  12047
Pyrobel 16 EI30 16^{+3}_{-1} 40 kg/m ² 	 42742	35	19 - 21	7-8 mm  18368	 12817  12047
Swissflam 30-N2 EI30 16 ± 1.5 34 kg/m ² 					

① Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.

Glass size = Daylight opening + 42mm

REFERENCE:

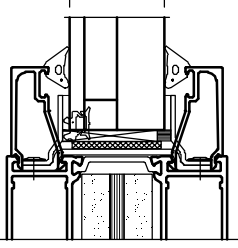


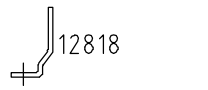
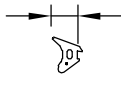
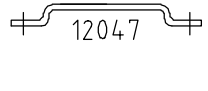
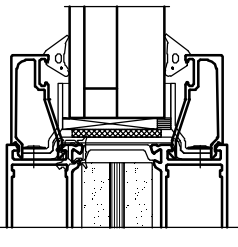
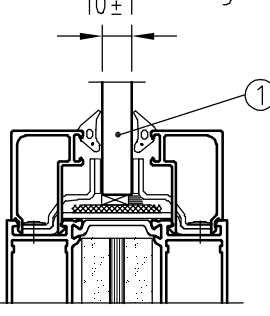
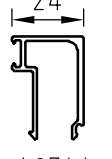
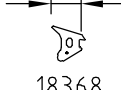
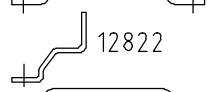
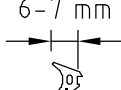
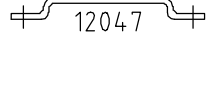
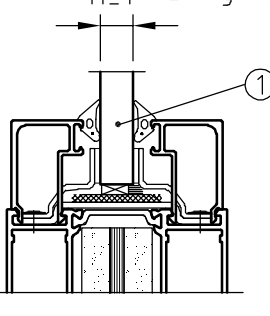
Instruction for setting blocks and clips; see drawing P2004-881

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N	Glazing clips P/N
Pyrostop 30-20 D EI30 $18^{+0.5}_{-1.5}$ 44 kg/m ² 	 42743 Alt.	30	14 - 16	7-8 mm  18368	 12815 12047
Pyrobel 16 EG EI30 20^{+2}_{-1} 48 kg/m ² 	 Alt. 42742	30	17 - 18	6-7 mm  18370	 12816 12047
Interfire EI30 24 ± 1 42 kg/m ² 	 Alt. 42741	35	19 - 21	7-8 mm  18368	 12817 12047
		35	22 - 23	6-7 mm  18370	 12817 12047
		39	24 - 25	7-8 mm  18368	 12821 12047
		39	26 - 27	6-7 mm  18370	 12821 12047

- ① Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.
 Glass size = Daylight opening + 42mm

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N	Glazing clips P/N
Contraflam 30-N2 EI30 32 ± 2 44 kg/m ² 	12.5  42740	46	30 - 32	$7-8$ mm  18368	36.4  12818
		46	33 - 34	$6-7$ mm  18370	 12047
Swissflam 30-N2 EI30 32 ± 1.5 44 kg/m ² 					
Pyrodur 30-201 EI15, E30 10 ± 1 24 kg/m ² 	24  42744	23	8 - 9	$7-8$ mm  18368	15  12822
		23	10 - 12	$6-7$ mm  18370	 12047
Pyrodur 30-10 EI15, E30 11 ± 1 27 kg/m ² 					

① Exterior screen
 Distance between glass and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.
 Glass size = Daylight opening + 42mm

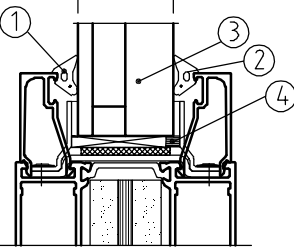
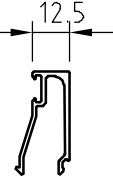
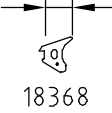
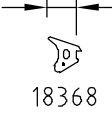
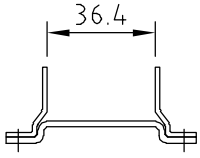
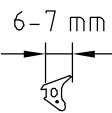
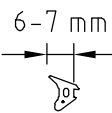
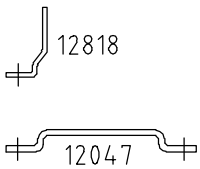
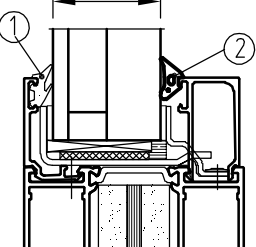

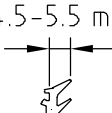
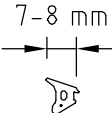
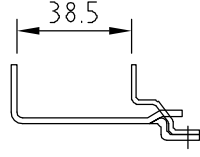
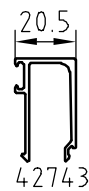
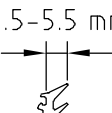
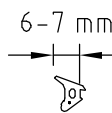
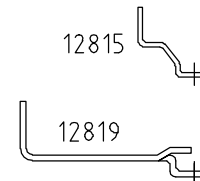
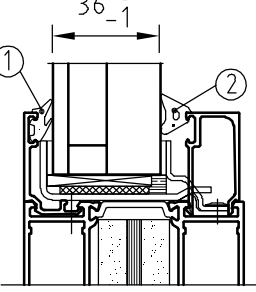
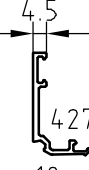
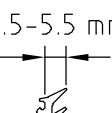
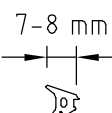
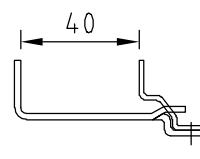

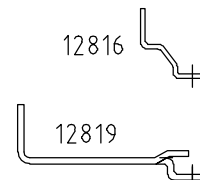
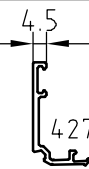
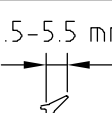
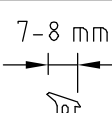
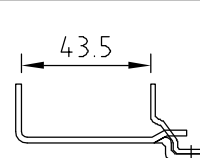
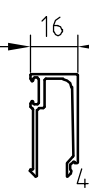
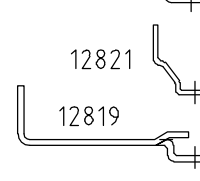
② Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainaging of external screens; see drawing P2074-500~~

~~Weather seal of external screens; see drawing P2074-604~~

Glass type	Glazing bead	Rebate depth	Total glass thickness	Gasket P/N ①	Gasket P/N ②	Glazing clips P/N
Pyrostop 30-25 D EI30 60 kg/m ² 	 42740	46	30 - 32	7-8 mm  18368	7-8 mm  18368	 12047
		46	33 - 34	6-7 mm  18370	6-7 mm  18370	12818 
Pyrostop 30-25 D EI30 60 kg/m ² 	 42712	47.5	35	4.5-5.5 mm  18048	7-8 mm  18368	 12815
	 42743	47.5	36	4.5-5.5 mm  18048	6-7 mm  18370	 12819
Pyrobel 16 DGU EI30 64 kg/m ² 	 42712	50	37 - 38	4.5-5.5 mm  18048	7-8 mm  18368	 12816
	 42742					 12819
	 42712	52	39	4.5-5.5 mm  18048	7-8 mm  18368	 12821
	 42741					 12819

③ Exterior screen
 Distance between glass and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.
 Glass size = Daylight opening + 42mm

④ Glass in facade
 At installation the suppliers Certificate and instructions should be regarded.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainage of external process, see drawing P2074-586~~

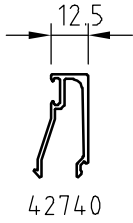
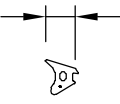
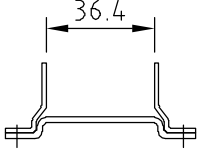
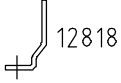
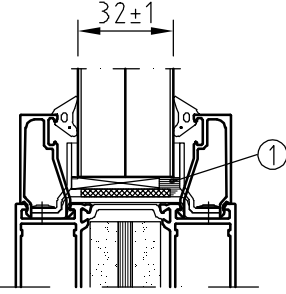
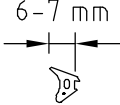
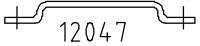
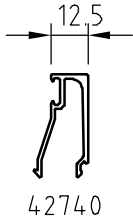
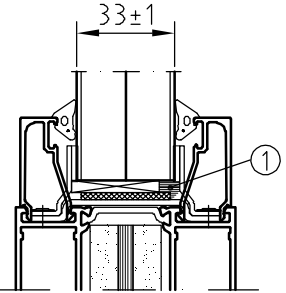
~~Weather seal of external screens, see drawing P2074-694~~



Glazing instruction
 Fire glass for external screen
~~Fire rated EI30~~

FIRE SCREEN 2074

1:2,5 04-10 P2074-918

Infill panel	Glazing bead	Rebate depth	Panel thickness	Gasket P/N	Glazing clips P/N
Stp-G 41,4 kg/m ²	 42740	46	30 - 32	7-8 mm  18368	 36.4  12818
		46	33 - 34	6-7 mm  18370	 12047
Alp-G 33,4 kg/m ²	 42740				

Panel size = Daylight opening + 42mm

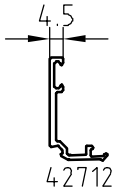


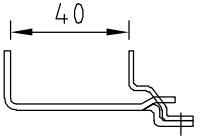
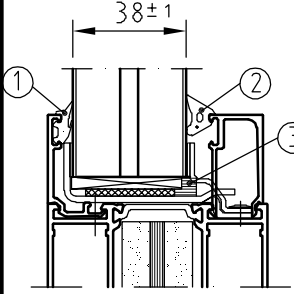
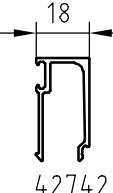
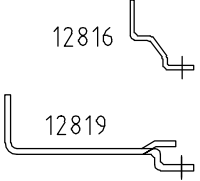
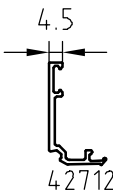


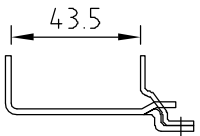
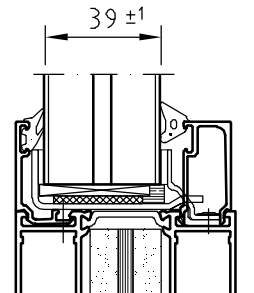
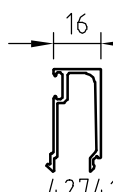
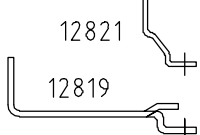
- ① Panel at exterior screen:
 Distance between panel and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Drainaging of external screens, see drawing P2074-500~~

~~Weather seal of external screens, see drawing P2074-694~~

Infill panel	Glazing bead	Rebate depth	Panel thickness	Gasket P/N ①	Gasket P/N ②	Glazing clips P/N
Stp-Gu 47 kg/m ²	 42712	50	37 - 38	4.5-5.5 mm  18048	7-8 mm  18368	 12816
	 42742					 12819
Alp-Gu 39 kg/m ²	 42712	52	39 - 40	4.5-5.5 mm  18048	7-8 mm  18368	 12821
	 42741					 12819

Panel size = Daylight opening + 42mm

- ③ Panel at exterior screen:
 Distance between panel and frame to be sealed all perimeter with Pyrosil B.
 Rebate to be drained to the outside.

REFERENCE:

Instruction for setting blocks and clips; see drawing P2004-881

~~Designing of external screens; see drawing P2074-506~~

~~Weather seal of external screens; see drawing P2074-601~~