

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-19/0870
of 20 April 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS
Systemtür F1-60"

Product family
to which the construction product belongs

Internal fire resisting and/or smoke control single and
double leaf doorsets made of steel or stainless steel
profiles

Manufacturer

Etex Building Performance GmbH
Scheifenkamp 16
40878 Ratingen
DEUTSCHLAND

Manufacturing plant

Werk 1
Werk 2

This European Technical Assessment
contains

17 pages including 12 annexes which form an integral
part of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 020062-00-1102

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Specific Part

1 Technical description of the product

Internal fire resisting and if so smoke control single or double leaf pedestrian doorsets (pivot doorsets) "PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60" - made of steel or stainless steel profiles - are the subject of this ETA.

They were made in different versions:

- EI₁ 30 C5 and EI₂ 30 C5
- EI₁ 30-S_a C5 and EI₁ 30-S₂₀₀ C5 or EI₂ 30-S_a C5 and EI₂ 30-S₂₀₀ C5
- EI₂ 60 C5
- EI₂ 60-S_a C5 and EI₂ 60-S₂₀₀ C5.

The products involve those which shall be used manually, opening and self-closing as a normal mode of operation. They can also be normally held open but self-close in the event of fire or smoke.

The fire resisting and if so smoke control doorsets shall be designed:

- using steel or stainless steel profiles
- with building hardware,
- with glazing in the doorsets leaf or leave(s),
- with or without flush over panel or transom panel (with glazing),
- with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets (for fire resistance),
- with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for fire resistance and smoke control).

The system setup of the product "PROMAGLAS Systemtür F1-30" is given in Annexes A2 to A6.

The system setup of the product "PROMAGLAS Systemtür F1-60" is given in Annexes B2 to B6.

2 Specification of the intended use in accordance with the applicable European Assessment Document

Fire resisting and if so smoke control doorsets are used internally as closures in fire resisting walls and/or for escape routes.

The products can be used as internal fire resisting and if so smoke control single and double leaf doorsets in internal walls.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the fire resisting and if so smoke control doorsets of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire of components acc. to EN 13501-1	Steel/stainless steel A1 Glazing A2-s1,d0 to B-s1,d0 Silicon E Filling tape E Intumescent material A1, B-s1 or E Sealing E
Resistance to fire acc. to EN 13501-2	El ₁ 30 / El ₂ 30 "PROMAGLAS Systemtür F1-30" El ₂ 60 "PROMAGLAS Systemtür F1-60"
Smoke control acc. to EN 13501-2	S _a / S ₂₀₀ "PROMAGLAS Systemtür F1-30" "PROMAGLAS Systemtür F1-60"

3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Self-closing acc. to EN 13501-2	C
Ability to release	"released"
Durability of the ability to release	"release maintained"
Durability of self-closing against degradation (cycling testing) acc. to EN 13501-2	5
Durability of self-closing against ageing (corrosion)	"achieved"
Impact resistance acc. to EN 12600	1 (B) 1
Strength requirements	No performance assessed

3.3 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 020062-00-1102, the applicable European legal act is: 1999/93/EU.

The system to be applied is: 1

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 20 April 2020 by Deutsches Institut für Bautechnik

Maja Tiemann
Head of Department

beglaubigt:
Pritzkow

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS
Systemtür F1-60"

Annex A1

Internal fire resisting and/or smoke control single or double leaf pedestrian doorsets (pivot doorsets) "PROMAGLAS Systemtür F1-30" are to be used manually, opening and self-closing as a normal mode of operation. They can also be normally held open but self-close in the event of fire or smoke.

The fire resisting and/or smoke control doorsets are made of steel and stainless steel profiles with glazing and fire-resistant inlays with building hardware.

The products shall be designed with or without flush over panel or transom panel (with glazing) and contained within a single perimeter frame for inclusion in a single aperture.

Fire resisting doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets.

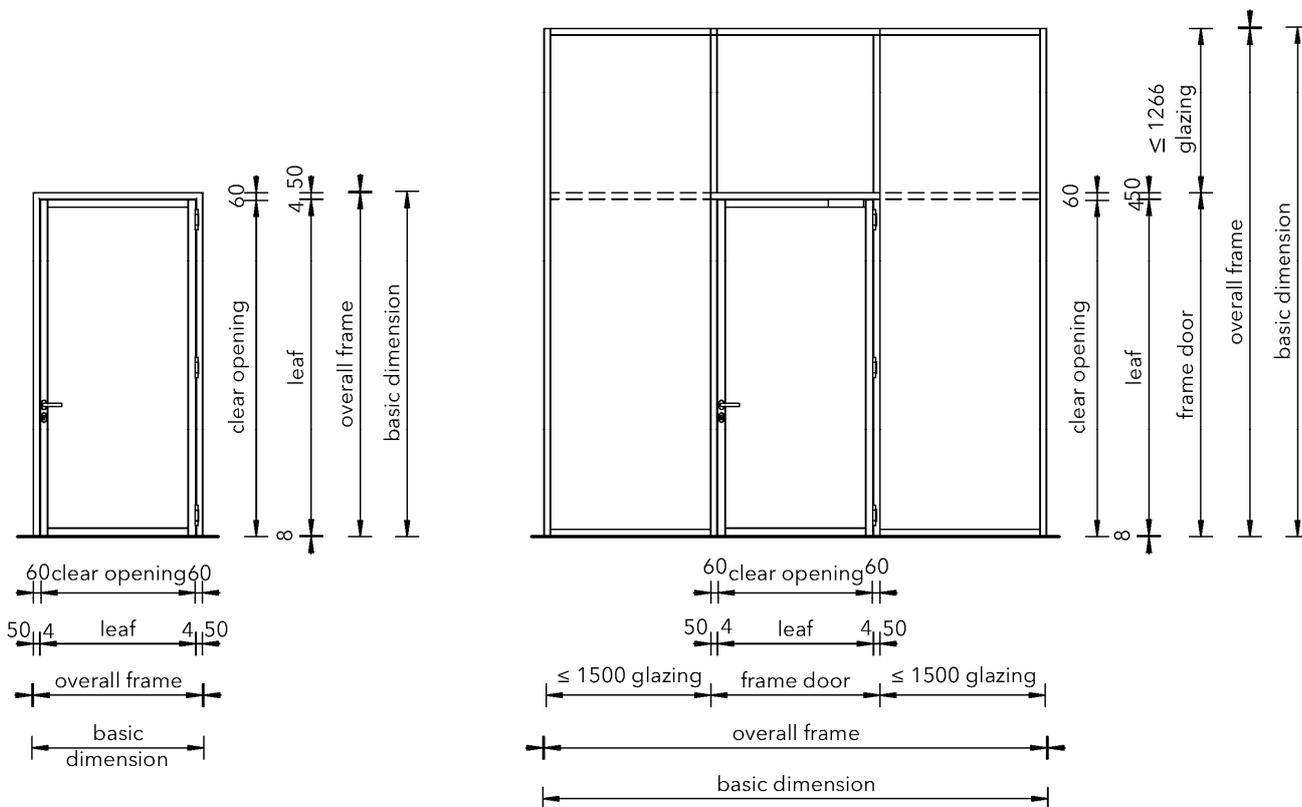
Fire resisting and/or smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for smoke control).

The system setup of the product is given in Annexes A2 to A6.

The products "PROMAGLAS Systemtür F1-30" are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls:

- ≥ 115 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 100 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of $\geq 650 \pm 200$ kg/m³, or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition, or
- ≥ 100 mm fire resistant light weight plasterboard faced wood stud partition.

single leaf door with frame made of steel profiles



designation / variety	dimensions [mm]								
	basic dimension		overall frame size		leaf size		clear opening size		
	width	height	width	height	width	height	width	height	
EI ₂ -30-S ₂₀₀ -C5	single leaf door without side panel without upper section	≥ 618 ≤ 1345	≥ 1750 ≤ 2741	≥ 608 ≤ 1335	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door without side panel with upper section	≥ 618 ≤ 1345	≥ 1839 ≤ 4048	≥ 608 ≤ 1335	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with one side panel without upper section	≥ 779 ≤ 2859	≥ 1755 ≤ 2741	≥ 769 ≤ 2849	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with two side panels without upper section	≥ 940 ≤ 4373	≥ 1750 ≤ 2741	≥ 930 ≤ 4363	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with one side panel with upper section	≥ 787 ≤ 2859	≥ 1839 ≤ 4048	≥ 777 ≤ 2849	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with two side panels with upper section	≥ 956 ≤ 4373	≥ 1839 ≤ 4048	≥ 946 ≤ 4363	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with two side panels with upper section	≥ 956 ≤ 4373	≥ 1839 ≤ 4048	≥ 946 ≤ 4363	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676

All specified profile dimensions are minimum dimensions.

All dimensions in mm

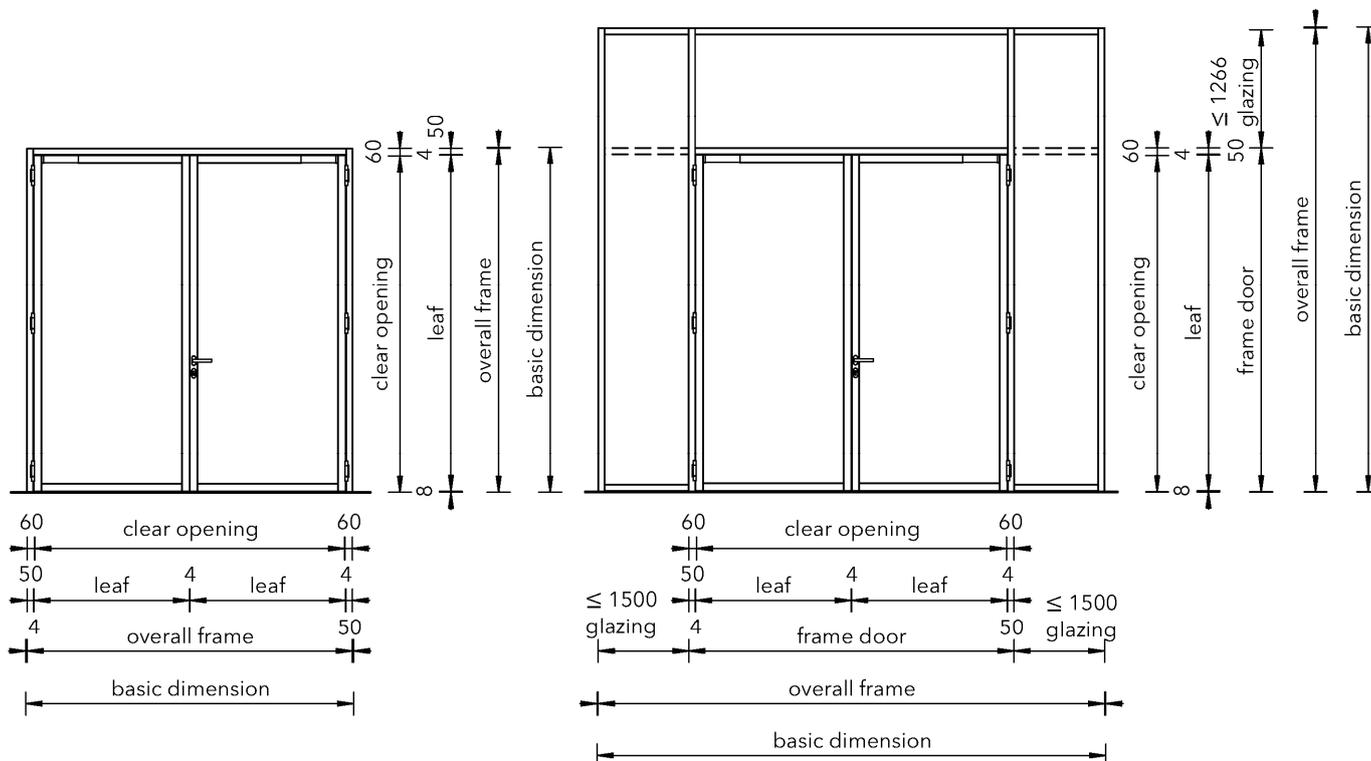
"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Views and dimension – single leaf door

Annex A2

English translation prepared by DIBt

double leaf door with frame made of steel profiles



designation / variety	dimensions [mm]								
	basic dimension		overall frame size		leaf size		clear opening size		
	width	height	width	height	width	height	width	height	
E12 30-S 200-C5	double leaf door without side panel without upper section	≥ 1122 ≤ 2576	≥ 1750 ≤ 2741	≥ 1112 ≤ 2566	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door without side panel with upper section	≥ 1122 ≤ 2576	≥ 1850 ≤ 4048	≥ 1112 ≤ 2566	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with one side panel without upper section	≥ 1283 ≤ 4090	≥ 1750 ≤ 2741	≥ 1273 ≤ 4080	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with two side panels without upper section	≥ 1444 ≤ 5604	≥ 1750 ≤ 2741	≥ 1434 ≤ 5594	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with one side panel with upper section	≥ 1293 ≤ 4090	≥ 1850 ≤ 4048	≥ 1283 ≤ 4080	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with two side panels with upper section	≥ 1464 ≤ 5604	≥ 1850 ≤ 4048	≥ 1454 ≤ 5594	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676

All specified profile dimensions are minimum dimensions.

All dimensions in mm

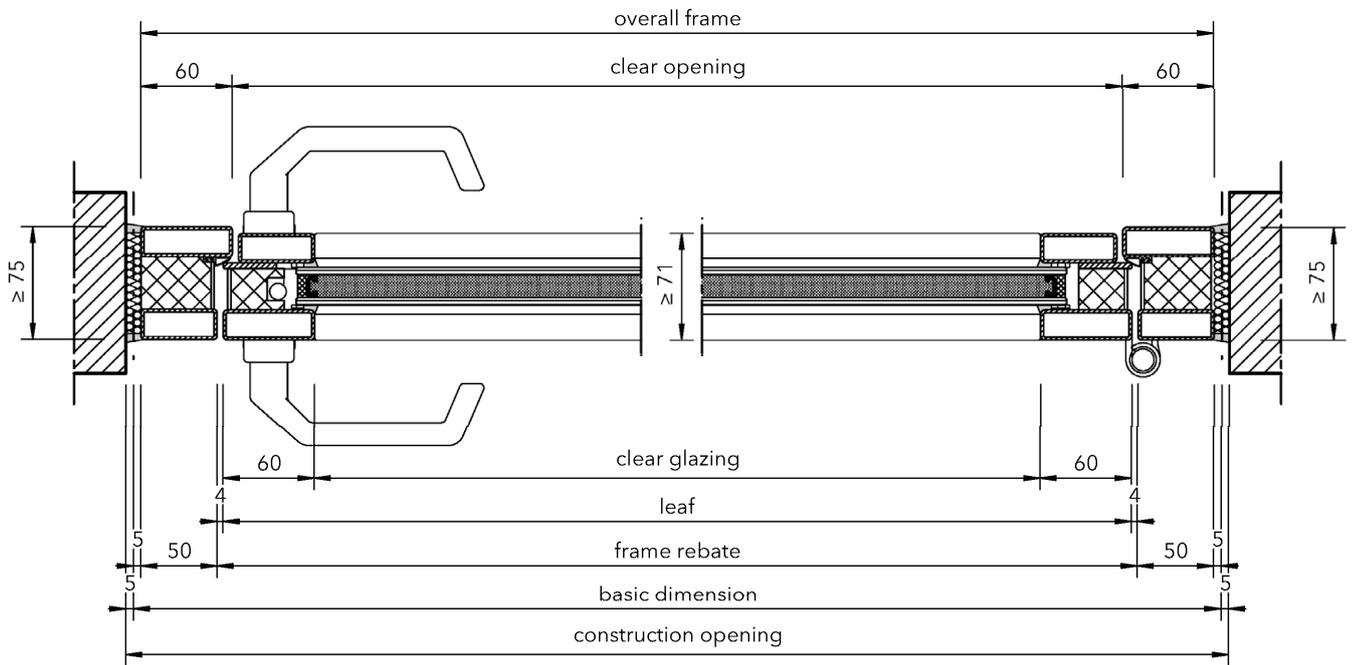
"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Views and dimension – double leaf door

Annex A3

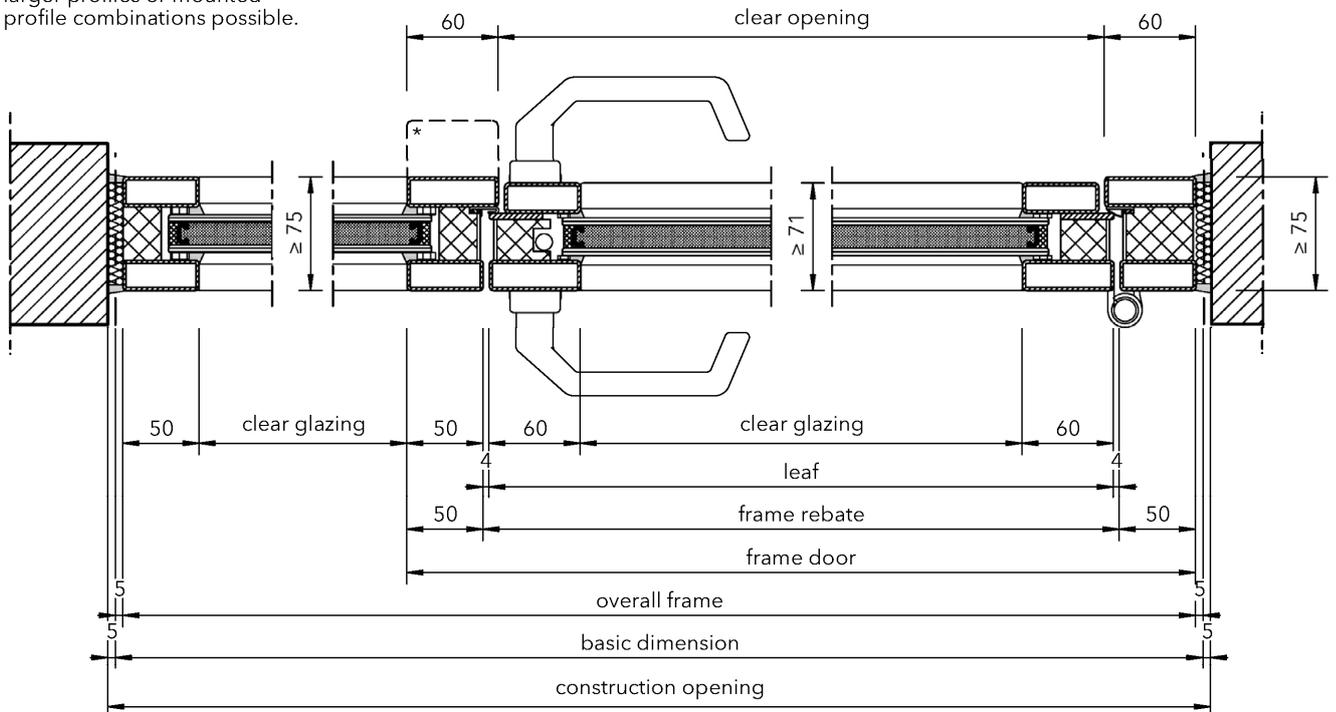
English translation prepared by DIBt

horizontal section: single leaf door with frame made of steel profiles



horizontal section: single leaf door with frame made of steel profiles and side panel

* larger profiles or mounted profile combinations possible.



All specified profile dimensions are minimum dimensions.

All dimensions in mm

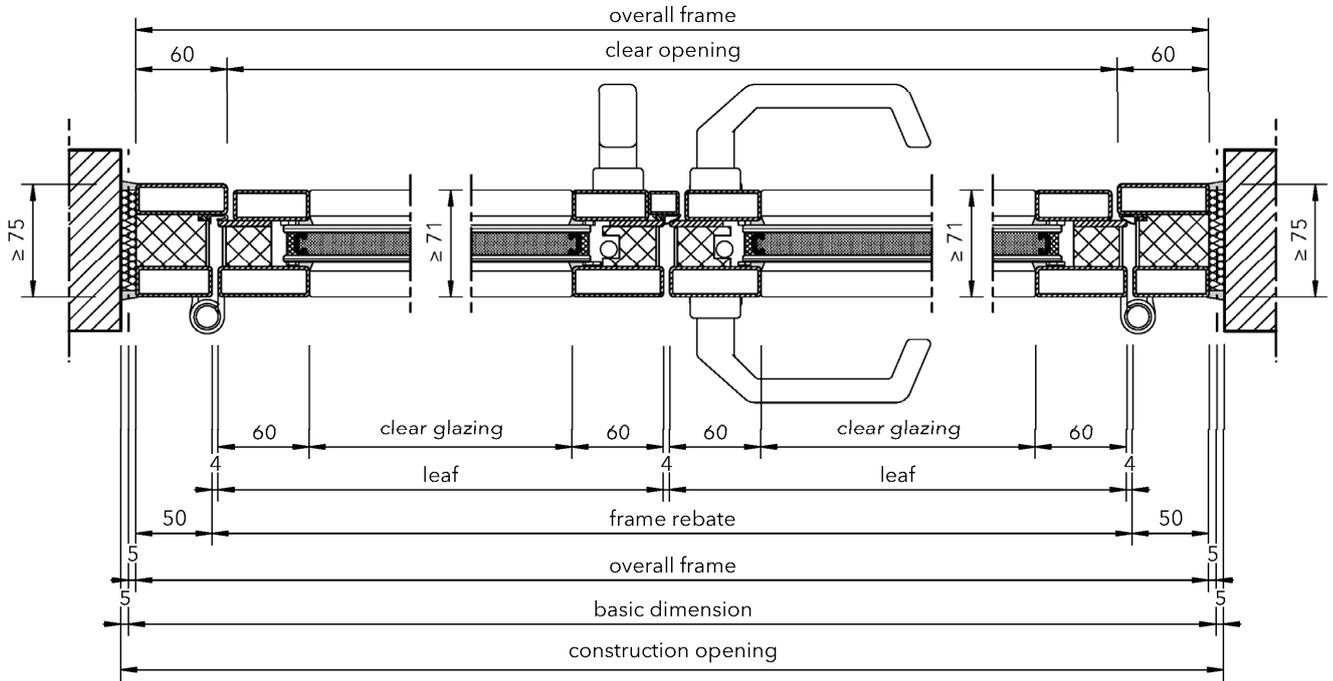
"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Horizontal sections – single leaf door

Annex A4

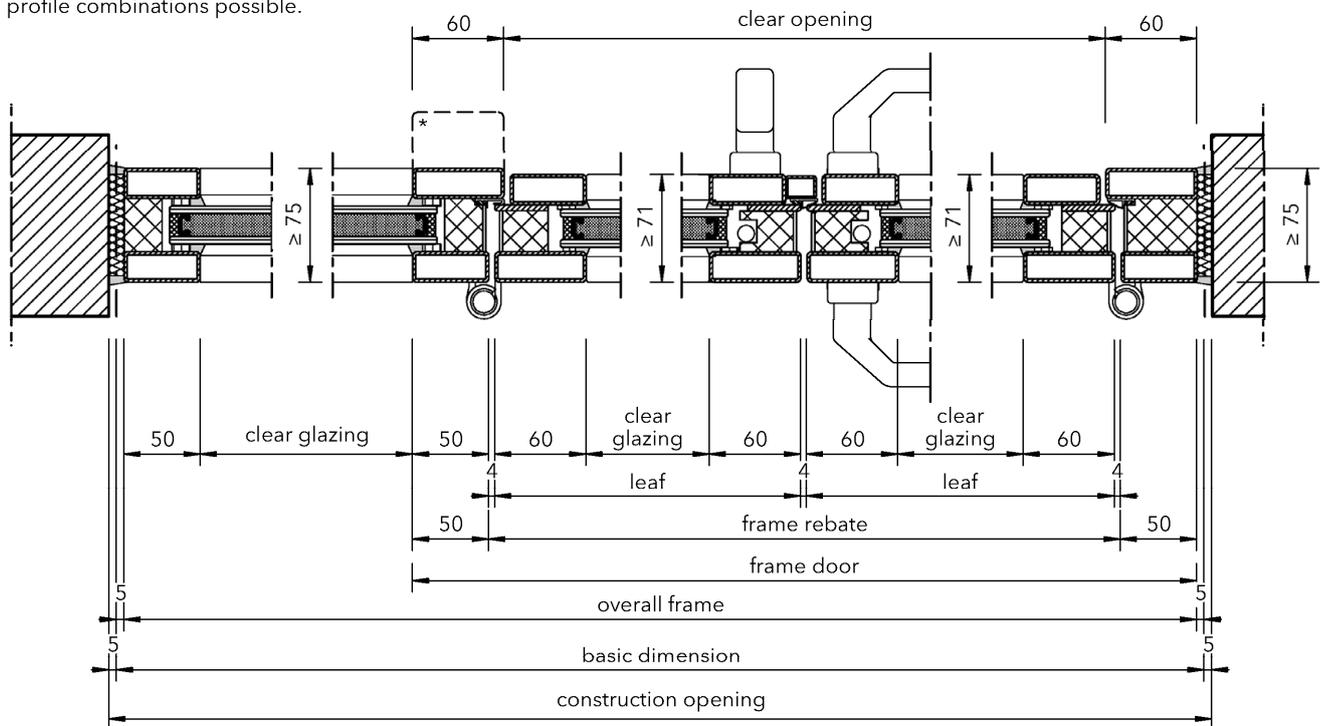
English translation prepared by DIBt

horizontal section: double leaf door with frame made of steel profiles



horizontal section: double leaf door with frame made of steel profiles and side panel

* larger profiles or mounted profile combinations possible.



All specified profile dimensions are minimum dimensions.

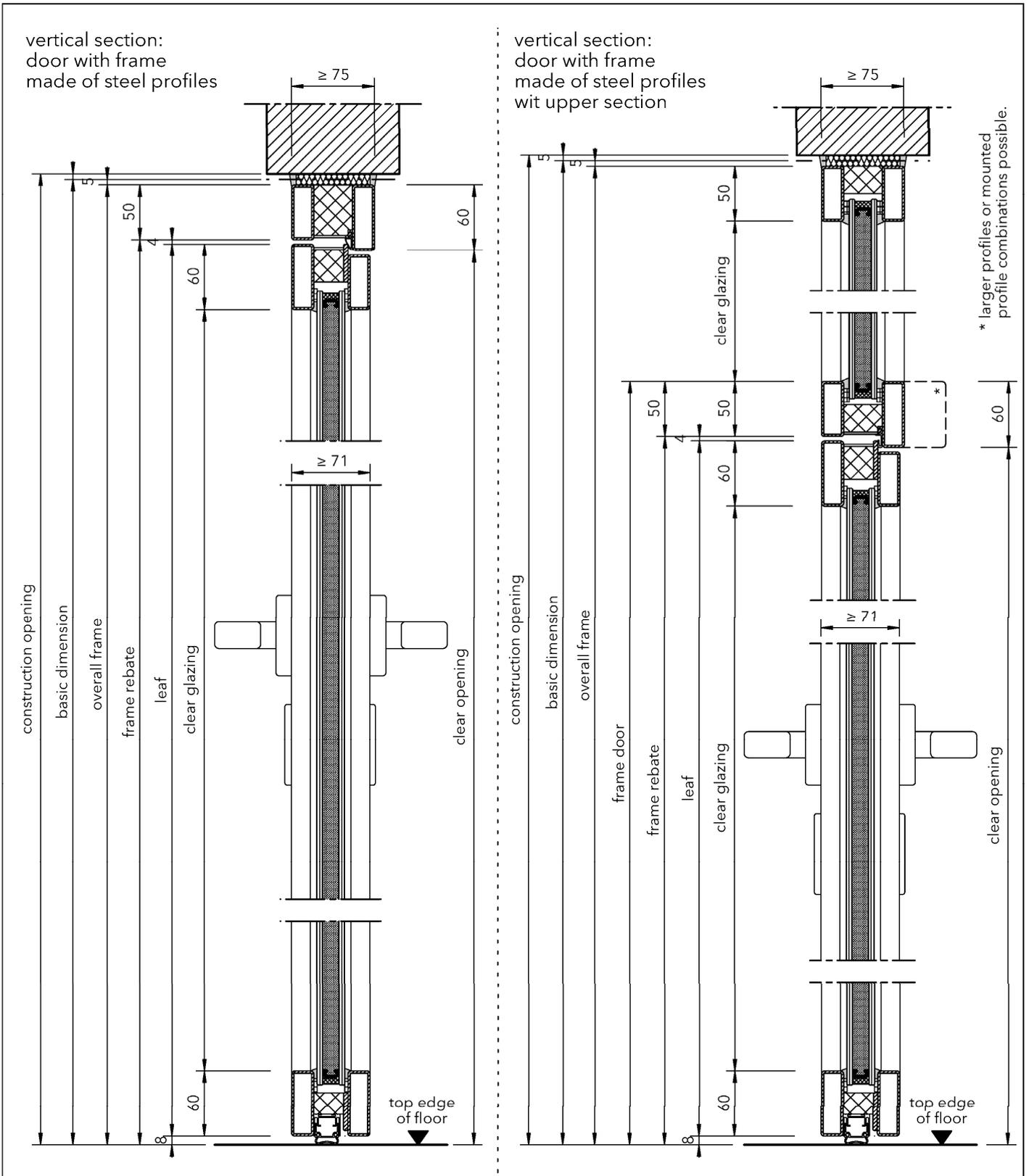
All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Horizontal sections – double leaf door

Annex A5

English translation prepared by DIBt



All specified profile dimensions are minimum dimensions.

All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Vertical sections

Annex A6

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Annex B1

Internal fire resisting and if so smoke control single or double leaf pedestrian doorsets (pivot doorsets) "PROMAGLAS Systemtür F1-60" are to be used manually, opening and self-closing as a normal mode of operation. They can also be normally held open but self-close in the event of fire or smoke.

The fire resisting and if so smoke control doorsets are made of steel and stainless steel profiles with glazing and fire-resistant inlays with building hardware.

The products shall be designed with or without flush over panel or transom panel (with glazing) and contained within a single perimeter frame for inclusion in a single aperture.

Fire resisting doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets.

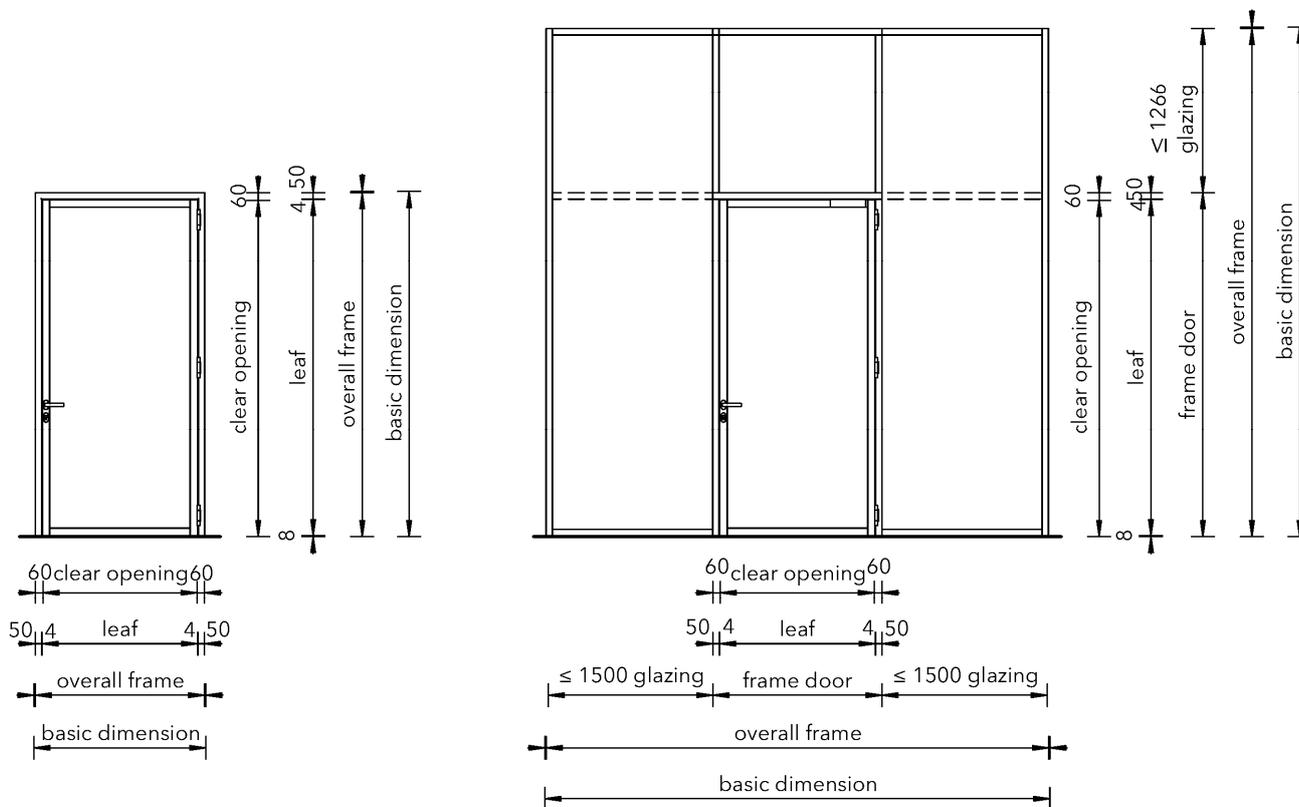
Fire resisting and smoke control doorsets are made with a three-sided permanently elastic seal and a permanently elastic middle rebate seal additionally in the event of double leaf doorsets in conjunction with a soil liner (for fire resistance and smoke control).

The system setup of the product is given in Annexes B2 to B6.

The products "PROMAGLAS Systemtür F1-60" are proved as internal fire resisting and/or smoke control single and double leaf doorsets in internal walls:

- ≥ 175 mm high density solid wall of masonry with an overall density of ≥ 850 kg/m³, or
- ≥ 140 mm solid wall of concrete masonry with an overall density ≥ 850 kg/m³, or
- ≥ 150 mm low density solid wall of aerated concrete with an overall density of $\geq 650 \pm 200$ kg/m³, or
- ≥ 100 mm fire resistant light weight plasterboard faced steel stud partition, or
- ≥ 100 mm fire resistant light weight plasterboard faced wood stud partition.

single leaf door with frame made of steel profiles



designation / variety	dimensions [mm]								
	basic dimension		overall frame size		leaf size		clear opening size		
	width	height	width	height	width	height	width	height	
EI ₂ 60-S 200-C5	single leaf door without side panel without upper section	≥ 618 ≤ 1345	≥ 1750 ≤ 2741	≥ 608 ≤ 1335	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door without side panel with upper section	≥ 618 ≤ 1345	≥ 1839 ≤ 4048	≥ 608 ≤ 1335	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with one side panel without upper section	≥ 779 ≤ 2859	≥ 1755 ≤ 2741	≥ 769 ≤ 2849	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with two side panels without upper section	≥ 940 ≤ 4373	≥ 1750 ≤ 2741	≥ 930 ≤ 4363	≥ 1745 ≤ 2736	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with one side panel with upper section	≥ 787 ≤ 2859	≥ 1839 ≤ 4048	≥ 777 ≤ 2849	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676
	single leaf door with two side panels with upper section	≥ 956 ≤ 4373	≥ 1839 ≤ 4048	≥ 946 ≤ 4363	≥ 1834 ≤ 4043	≥ 500 ≤ 1227	≥ 1683 ≤ 2674	≥ 488 ≤ 1215	≥ 1685 ≤ 2676

All specified profile dimensions are minimum dimensions.

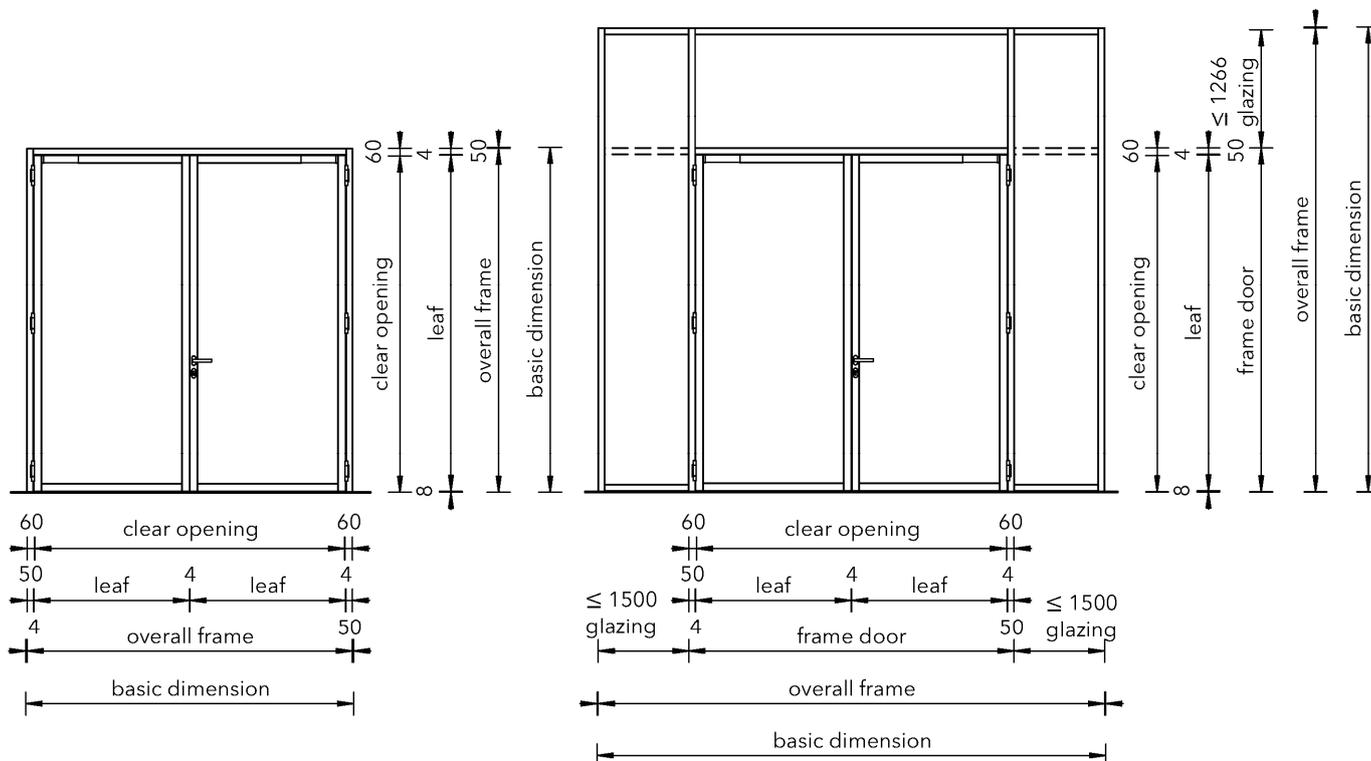
All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Views and dimensions – single leaf door

Annex B2

double leaf door with frame made of steel profiles



designation / variety	dimensions [mm]								
	basic dimension		overall frame size		leaf size		clear opening size		
	width	height	width	height	width	height	width	height	
EI 2 60-S 200-C5	double leaf door without side panel without upper section	≥ 1122 ≤ 2576	≥ 1750 ≤ 2741	≥ 1112 ≤ 2566	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door without side panel with upper section	≥ 1122 ≤ 2576	≥ 1850 ≤ 4048	≥ 1112 ≤ 2566	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with one side panel without upper section	≥ 1283 ≤ 4090	≥ 1750 ≤ 2741	≥ 1273 ≤ 4080	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with two side panels without upper section	≥ 1444 ≤ 5604	≥ 1750 ≤ 2741	≥ 1434 ≤ 5594	≥ 1745 ≤ 2736	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with one side panel with upper section	≥ 1293 ≤ 4090	≥ 1850 ≤ 4048	≥ 1283 ≤ 4080	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676
	double leaf door with two side panels with upper section	≥ 1464 ≤ 5604	≥ 1850 ≤ 4048	≥ 1454 ≤ 5594	≥ 1845 ≤ 4043	fixed leaf: ≥ 500, ≤ 1227 active leaf: ≥ 500, ≤ 1227	≥ 1683 ≤ 2674	≥ 992 ≤ 2446	≥ 1685 ≤ 2676

All specified profile dimensions are minimum dimensions.

All dimensions in mm

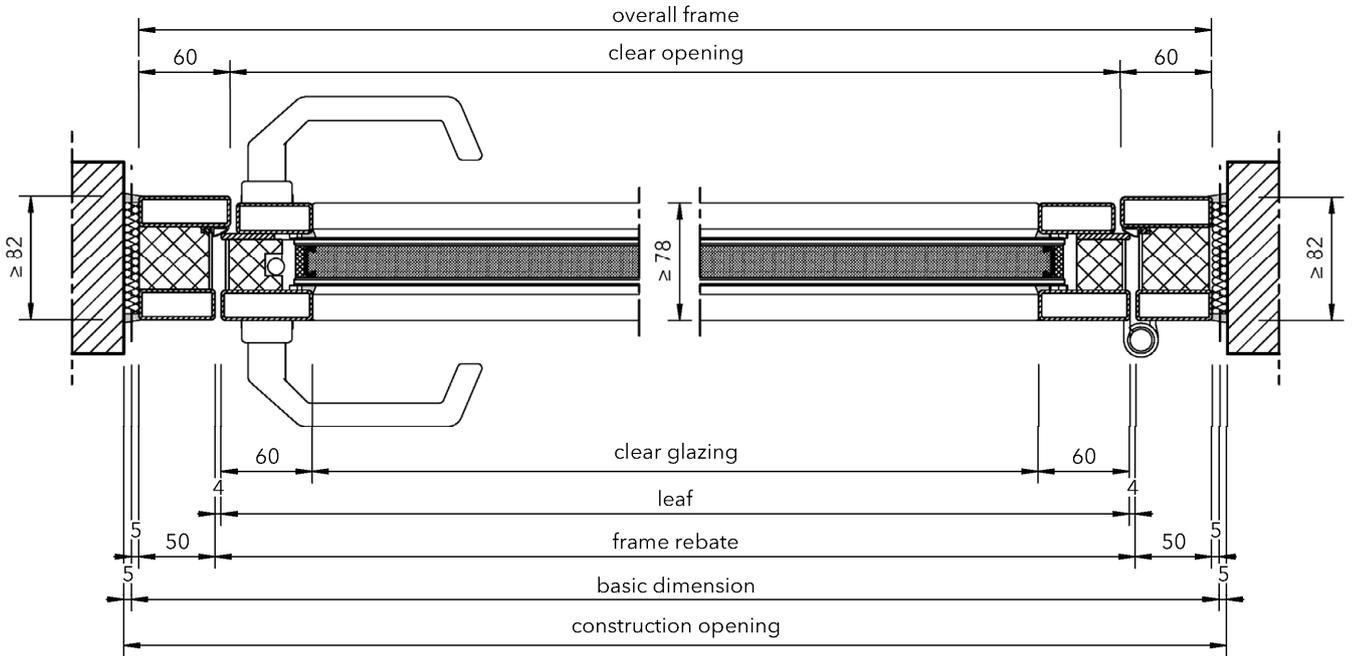
"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Views and dimensions – double leaf doors

Annex B3

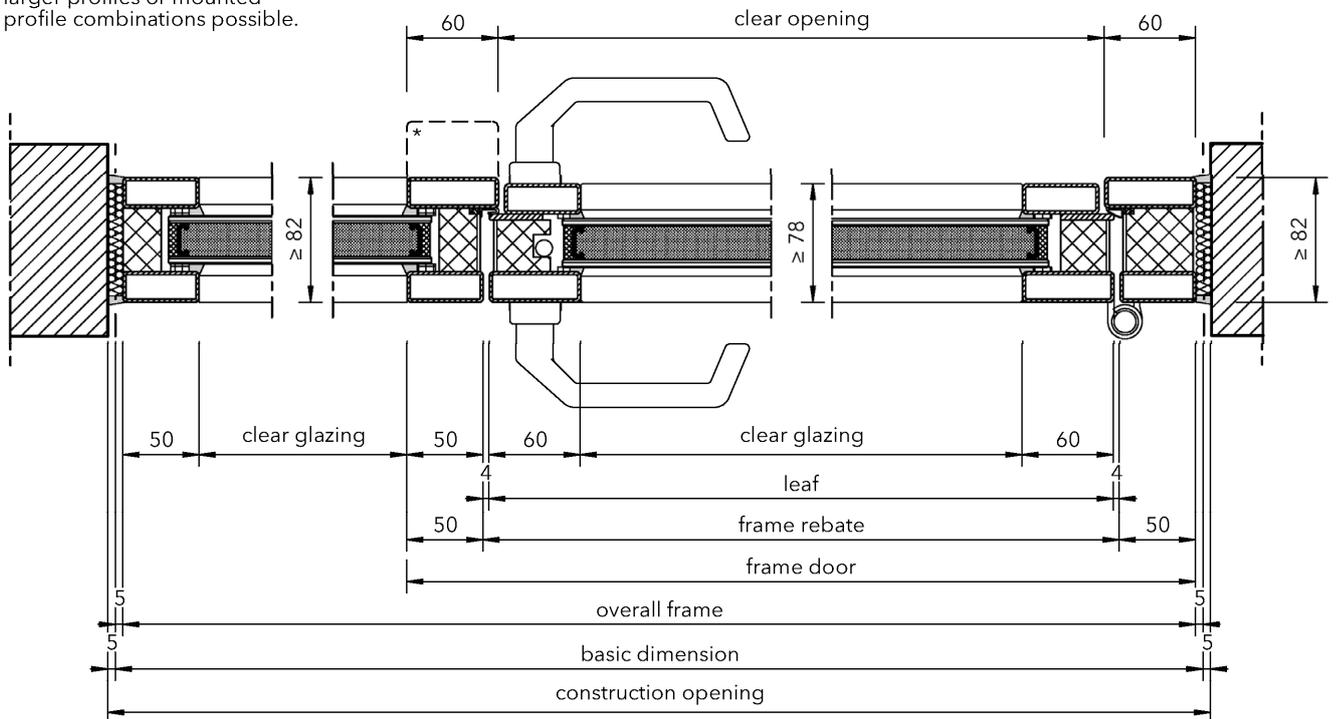
English translation prepared by DIBt

horizontal section: single leaf door with frame made of steel profiles



horizontal section: single leaf door with frame made of steel profiles

* larger profiles or mounted profile combinations possible.



All specified profile dimensions are minimum dimensions.

All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

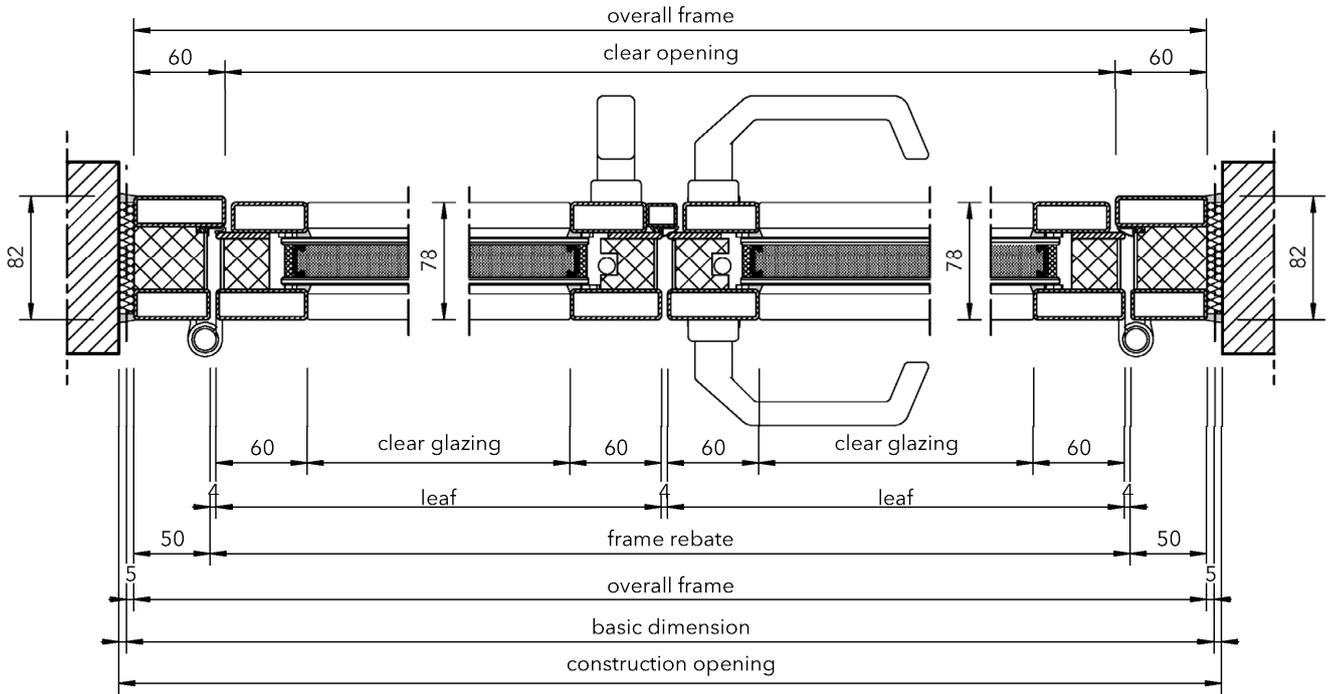
Horizontal sections – single leaf door

Annex B4

Electronic copy of the ETA by DIBt: ETA-19/0870

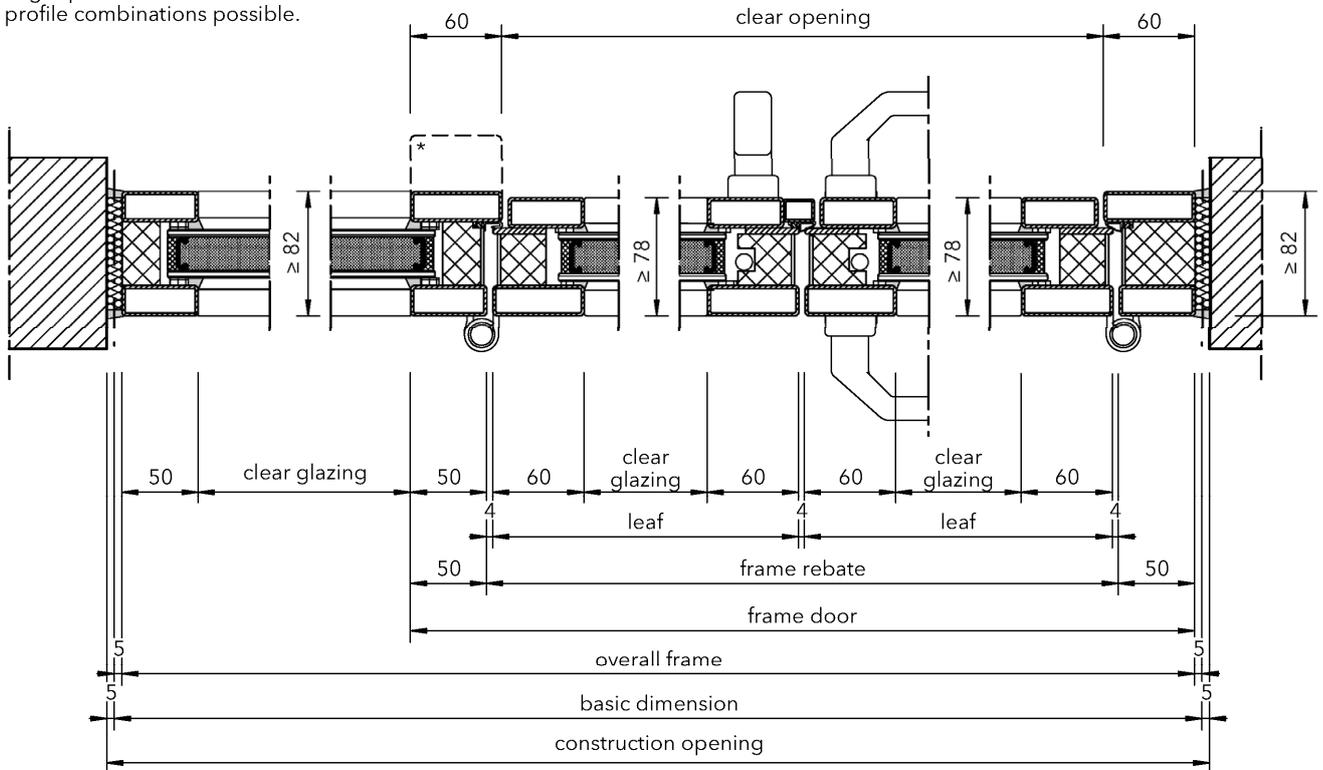
English translation prepared by DIBt

horizontal section: double leaf door with frame made of steel profiles



horizontal section: double leaf door with frame made of steel profiles with side panel

* larger profiles or mounted profile combinations possible.



All specified profile dimensions are minimum dimensions.

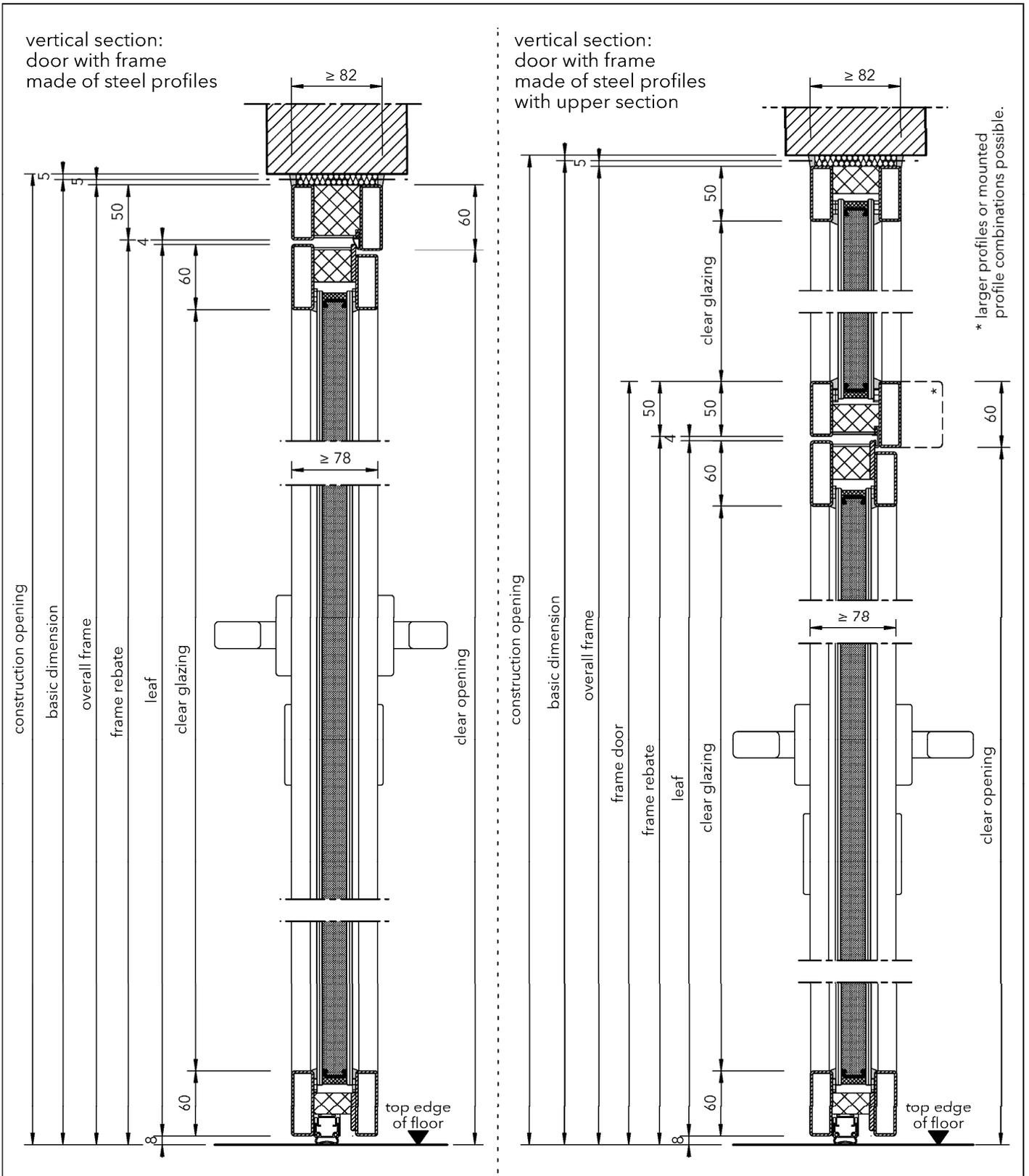
All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Horizontal section double leaf door

Annex B5

English translation prepared by DIBt



All specified profile dimensions are minimum dimensions.

All dimensions in mm

"PROMAGLAS Systemtür F1-30" and "PROMAGLAS Systemtür F1-60"

Vertical sections

Annex B6