

Original Trä Objekt 100

Contents

Top swing window EFHO	2	Patio door EDO, EDO2	6
Fixed frame EFKO	3	Fittings pack window	8
Side hung EFSSO	4	Fittings pack patio door	9
Top hung EFÖO	5	Antique profile, glazing bars and mullions	11

Standard version

Product family

Elitfönster Original Trä Objekt outward turning window and patio doors.

Product types

Top swing window, fixed frame, top hung, side hung and patio door. See in addition page 2-6.

Material

Wooden frame of laminated and finger-jointed pine.

Impregnation

All wooden parts are impregnated according to the P-marking rules. The impregnation fluid permeates approx. 40 mm into the ends of the wood and approx. 4 mm into other surfaces. The impregnation contributes to highly effective protection against rot.

Surface treatment

Standard colour is white NCS S 0502-Y, gloss value 35. See separate colour guide at elitfonster.se for alternative colour options and surface treatment.

Glazing beads are surface treated in the same way as the wooden frames. For windows and patio doors in colour NCS S 0502-Y, aluminium glazing bar is supplied painted white, for other colours, natural anodised glazing bar.

Glazing structure

3-pane sealed glazing unit installed with patented security fixing.

Glass

P-marked, 3-pane, sealed glazing unit type T4-16, with 3 x 4-mm pane, one of which is an energy-efficient pane. 16 mm spacer between the panes, one of the air gaps is filled with Argon.

StormTite™ seal against wind and moisture

Extra sealing strip in the gap between frame and sash.

Handles and fittings

See description under respective product type.

Dimensions and sizes

Frame depth is 105 mm. Drawings in pdf- and dwg-format as well as size guide are available at elitfonster.se.

Verified properties

Elitfönster's products undergo tests to meet stringent requirements. Below is a list of the classes we have had verified in tests at RISE.

Airtightness	Class 4
Rain density	Class 9A
Resistance to wind load	Class 4C (double doors 3C)
Mechanical properties	Class 2
Heavy impact	Class 2
Reaction to fire impact	Class C-s1,d0
Manoeuvring forces openable	Class 2 (class 1 for side hung and door)
Class based on application	W5

Options & accessories

Elitfönster offers a wide range of options which can both change the appearance or add unique features to your window. On pages 8-11 you can read more about internal profiling, glazing bars and mullions, as well as various fittings packages. Further information is available at elitfonster.se about colour selection, different window glass, airing, concealed channels, frame sockets and ventilation etc. We also offer accessories such as blinds, pleated blinds, roller blinds, mosquito nets etc.

P-marking, certification and warranties

P-marked production

Manufactured in a certified P-marked production process, which ensures that the product's quality and performance maintains a high level. Certificate issued by RISE, Research Institutes of Sweden, according to certification rule 133 "Certification of production process for production of construction products (P-marked production)" in relation to reference: "Production of windows made of wood and wood/metal".

Quality and environmental certification

The manufacturer is certified according to ISO 9001:2015, as well as according to the environmental management system ISO 14001:2015.

Warranty (applies in Sweden)

Provided the instructions for storage, installation, care and maintenance are followed, the following warranty is issued for Elitfönster Original Wood:

- 10 year warranty against condensation between panes in sealed glazing units
- 10 year warranty on the window's (including the fittings) function
- 10 year warranty covering rot damage in the product's wooden parts

Sizes are indicated in modules. 1 module (M) = 100 mm.

The module size includes 20 mm space for caulking on width and height (i.e. 10 mm all around).

Example: Size 5/10 M entails frame outer width = 480 mm and frame outer height = 980 mm. In other words, the module sizes indicate the minimum size of the recess in the wall.

Top swing window EFHO

Product family	Product type	Model designation
Elitfönster Original Trä Objekt 100	Outward opening top swing window	EFHO

Openability

Top swing window, outward opening, slide hung. Swing fitting, so-called slide hung, makes the window horizontally tiltable 180° outside the façade.

Standard handle

Hoppe Tokyo, aluminium silver.

Fitting

Swing fitting in yellow chromated steel with white lacquer externally on windows painted white (NCS S 0502-Y).

Closing fitting

Nickel-free espangolette in galvanised steel. Latches in hardened steel.

Opening and airing

Fixed opening catch with opening 100 mm where the sashes are automatically restricted when the window is opened. The fitting must be disengaged to open more than 100 mm. The function re-engages when the window is closed. Meets the requirements for protection against falling out, max. permitted opening is 100 mm. Fixed airing position in striking plate.

Multi-pane and combinations

EFHO can be supplied in versions with multi-pane, as well as in combinations with fixed frame. See elitfonster.se for more information.



Outside



Inside

Lockable handle and security fittings

See page 8.

Technical properties EFHO 1-pane

U-value

1.2 W/m² °K in standard version.
Down to 0.85 is available as an option.
The U-value is indicated for size 1230x1480 mm according to EU standard.

Sound reduction

Rw 33dB in standard version.
Up to Rw 44dB is available as an option, see the table below.

Sound value (dB)			U-value (Light transmission Lt-value %/Solar factor G-value %)	
Rw	Rw+C	Rw+Ctr	LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass.	
33*	31*	27*	1,2 (75/60)*	1,0 (75/60)
38	36	32	1,2 (74/58)	1,0 (74/58)
39	37	33	1,2 (74/56)	1,0 (74/56)
44	42	39	1,3 (73/52)	1,2 (73/52)

* standard

The above values refer to windows in standard design or with the glass combination required to achieve the respective sound, U, LT and G values. Some options and accessories such as glass, fittings, valves, etc. may mean that we cannot guarantee the reported value.

Fixed frame EFKO

Product family Elitfönster Original Trä Objekt 100	Product type Fixed frame	Model designation EFKO
---	------------------------------------	----------------------------------

Openability
Non-openable.

Combinations
EFKO can be supplied in combination with EFHO.
See elitfonster.se for more information.



Outside



Inside

Technical properties EFKO 1-pane

U-value
1.1 W/m² °K in **standard version**.
Down to 0.76 is available as an option.
The U-value is indicated for size 1230x1480 mm according to EU standard.

Sound reduction
Rw 31dB in **standard version**.
Up to Rw 45dB is available as an option, see the table below.

Sound value (dB)			U-value (Light transmission Lt-value %/Solar factor G-value %)	
Rw	Rw+C	Rw+Ctr	LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass.	
31*	29*	25*	1,1 (75/60)*	0,99 (75/60)
36	35	31	1,1 (74/58)	0,99 (74/58)
37	35	31	1,1 (74/56)	0,99 (74/56)
45	42	38	1,3 (73/52)	1,1 (73/52)

* standard

The above values refer to windows in standard design or with the glass combination required to achieve the respective sound, U, LT and G values. Some options and accessories such as glass, fittings, valves, etc. may mean that we cannot guarantee the reported value.

Side hung EFSO

Product family	Product type	Model designation
Elitfönster Original	Outward opening	EFSO (1-pane)
Trä Objekt 100	side hung window	EFSO2 (2-pane)
		EFSO3 (3-pane)



Outside.

Openability

Outward opening side hung.

Standard handle

Hoppe Tokyo, aluminium silver.

Hanging fittings

Depending on the window's size, two or three lift-off hinges in galvanised and powder-coated steel. White hinges for white windows (NCS S 0502-Y), silver coloured for other colours. The hinge is equipped with security pins and is vertically adjustable. Stainless hinges (option) are recommended in coastal and lakeside areas.

Closing fittings

Nickel-free espangolette in galvanised steel with wedge bolt. Hook bolt espangolette is offered as an option.

Airing

Window brake, one per window. Window brake is standard in the right pane from the inside for 2- and 3-pane window. Window brake can be supplied in all panes at a supplementary cost. Operated with the espangolette's handle. Window lower than size M7 supplied solely with friction brake.

Multi-pane and combinations

EFSO can be supplied in versions with 2- and 3-panes. See elitfonster.se for more information.



Lockable handle and security fittings

See page 8.

Technical properties EFSO 1-pane

U-value

1.2 W/m² °K in standard version.

Down to 0.86 is available as an option.

The U-value is indicated for size 1230x1480 mm according to EU-standard.

Sound reduction

** Will be reported after tests have been carried out

Sound value (dB)			U-value (Light transmission Lt-value %/Solar factor G-value %)	
Rw	Rw+C	Rw+Ctr	LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass.	
**	**	**	1,2 (75/60)*	1,0 (75/60)
**	**	**	1,2 (74/58)	1,0 (74/58)
**	**	**	1,2 (74/56)	1,0 (74/56)
**	**	**	1,3 (73/52)	1,2 (73/52)

* standard

The above values refer to windows in standard design or with the glass combination required to achieve the respective sound, U, LT and G values. Some options and accessories such as glass, fittings, valves, etc. may mean that we cannot guarantee the reported value.

Top hung EFÖÖ

Product family	Product type	Model designation
Elitfönster Original Trä Objekt 100	Outward opening top hung window	EFÖÖ

Openability

Outward opening top hung.

Standard handle

Hoppe Tokyo, aluminium silver.

Fittings

Two lift-off hinges in galvanised and powder-coated steel. White hinges for white windows (NCS S 0502-Y), silver coloured for other colours. The hinge is equipped with security pins. Stainless hinges (option) are recommended in coastal and lakeside areas.

Closing fitting

Nickel-free espangolette in galvanised steel. Latches in hardened steel.

Airing

Airing position in striking plate.

Lockable handle and security fittings

See page 8.



Outside.

Technical properties EFÖÖ 1-pane

U-value

1.2 W/m² °K in **standard version**.
Down to 0.85 is available as an option.
The U-value is indicated for size 1230x1480 mm according to EU-standard.

Sound reduction

Rw 33dB in **standard version**.
Up to Rw 44dB is available as an option, see the table below.

Sound value (dB)			U-value (Light transmission Lt-value %/Solar factor G-value %)	
Rw	Rw+C	Rw+Ctr	LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass.	
33*	31*	27*	1,2 (75/60)*	1,0 (75/60)
38	36	32	1,2 (74/58)	1,0 (74/58)
39	37	33	1,2 (74/56)	1,0 (74/56)
44	42	39	1,3 (73/52)	1,2 (73/52)

* standard

The above values refer to windows in standard design or with the glass combination required to achieve the respective sound, U, LT and G values. Some options and accessories such as glass, fittings, valves, etc. may mean that we cannot guarantee the reported value.

Patio door EDO, EDO2

Product family	Product type	Model designation
Elitfönster Original Trä Objekt 100	Patio door and patio double doors	EDO (EDFO/EDKO) EDO2 (EDFO2/EDKO2)

Openability

Outward opening.

Standard handle

Hoppe Tokyo with long backplate, aluminium silver. Double door is equipped with handle in active and passive door.

Hanging fittings

Three lift-off hinges in galvanised and powder-coated steel. White hinges for white windows (NCS S 0502-Y), silver coloured for other colours. The hinge is equipped with security pins and is vertically adjustable. Stainless hinges (option) are recommended in coastal and lakeside areas.

Closing fitting

Single door: Hook bolt espangolette in nickel-free galvanised steel with three side bolts. Hook bolt espangolette is offered as an option. Double door: Double espangolettes. in active door with side bolts (two hook bolts, one side bolt) and end bolt. Passive door has shoot bolt with end bolts.

Airing

Door brake, operated with the espangolette's handle. Double doors have brake in both door leaves.

Threshold

Standard threshold 42 mm, the threshold's colour follows the colours on the frame's inside. Threshold in oak or brown-glazed pine with height 42 mm as well as low threshold in aluminium with height 25 mm are offered as options.

Door filling

1. Primed door with smooth profile has internal and external oil-hardened board.
2. Primed antique version door has profiled execution on the inside with MDF-board and oil-hardened board externally.
3. Glazed door in standard version with profiled inside has internal and external smooth pine plywood.



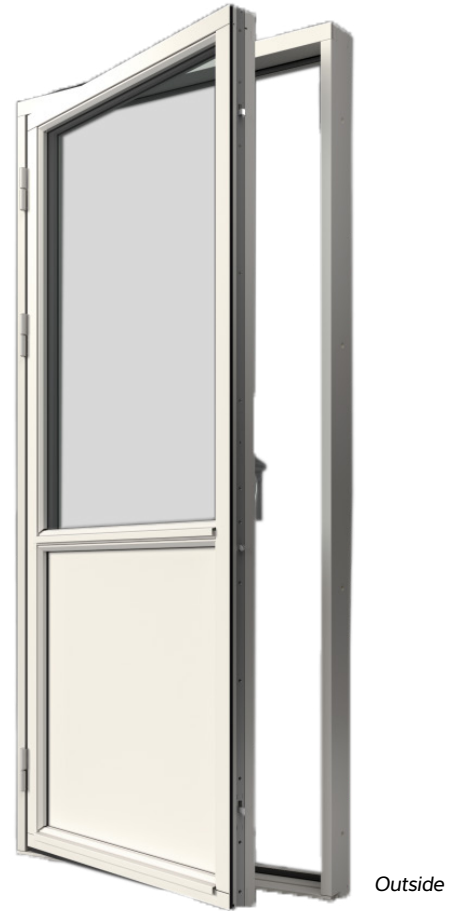
Internal filling in profiled execution (antique).

Wicket door (double door)

Left wicket door viewed from the outside is standard, right wicket door can be selected as an option.

Lockable handle and security fittings

See page 9.



Outside

Patio door EDO, EDO2

>>cont.

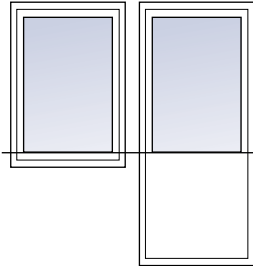
Alignment single and double door.

EDFO aligns with openable windows
EDKO aligns with fixed frames

Example

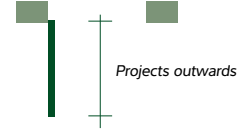
EFKO 9/12 aligns with ADKO 9/21-12

EFKO 8/13 aligns with ADKO 8/20-13



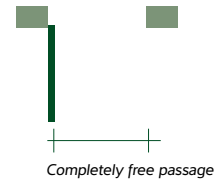
FUNCTIONAL DIMENSIONS (the figures are viewed from above)

Dimension open door 90°
 Frame outer width -51 mm

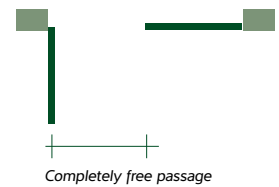


FREE PASSAGE DIMENSION

Single door
 frame outer width -179 mm



Double door with equal partition, wicket door open
 frame outer width /2-145 mm



Double door, both door leaves open
 frame outer width -255 mm



Child safety lock (option)
 Max. permitted opening in childproof position = 100 mm



Evacuation dimensions

According to the National Board of Housing, Building and Planning's Building Regulations, a free evacuation area is achieved when the width of the opening is at least 0.50 m and the height of the opening is at least 0.60 m. The sum of the width and height must be at least 1.50 m.

Technical properties EDO, fully glazed* version

U-value

1.1 W/m² °K in in standard version.
 Down to 0.82 is available as an option.
 The U-value is indicated for size 1230x2180 mm according to EU standard.

Sound reduction

Rw 34dB in **standard version**.
 Up to Rw 44dB is available as an option, see the table below.

Sound value (dB)			U-value (Light transmission Lt-value %/Solar factor G-value %)	
Rw	Rw+C	Rw+Ctr		
34*	32*	28*	1,1 (75/60)*	1,0 (75/60)
38	36	32	1,1 (74/58)	1,0 (74/55)
39	37	32	1,1 (74/56)	1,0 (74/53)
44	42	37	1,3 (73/52)	1,2 (73/52)

* standard

The above values refer to windows in standard design or with the glass combination required to achieve the respective sound, U, LT and G values. Some options and accessories such as glass, fittings, valves, etc. may mean that we cannot guarantee the reported value.

Fittings pack window



Standard handle*

Handle Tokyo

Aluminium (silver)
Installation kit standard handle.

Includes: Int. handle with cover plate.

Standard for all windows.



Fittings pack 9

White execution
Child protection airing fitting
for window.

Includes: Fix 93, screws.



Fittings pack 13

Aluminium (silver)
Internal cover plate for loose handle. The
cover is slidable.

Includes: Cover plate with holder.
3 x screws.

Handle is purchased separately.



Loose handle

Includes: Handle Tokyo
Goes with fitting pack 13.



Fittings pack 15*

Aluminium (silver)
Installation kit KISI2 for window handle.

Includes: KISI2, child safety lock.



Fittings pack 22*

White version
Child protection catch arrangement, Fix 184.

Includes: Plastic coated wire.
4 x screws.
Fitting.



Fittings pack 30*

Handle Tokyo

Aluminium (silver)
Installation kit security handle/
child safety lock.

Includes: Internal handle with cylinder.
Key.
Cover plate.



Fittings pack 31*

Handle Tokyo

Aluminium (silver)
Installation kit safety handle/child safety
lock, KISI2.

Includes: Internal handle with cylinder.
Key.
Cover plate.
KISI2, child safety lock.



Fittings pack 33

Handle ASSA Vingå 7312

Includes: Internal handle.
Pressure cylinder 7310.
2 x screws.

Meets the requirements according to SS
3620, class A

* Also available in black. Model Hoppe Tokyo.

cont. >>

Fittings pack patio door



Standard handle*
Handle Tokyo

Aluminium (silver)
Installation kit internal handle with long backplate.

Includes: Internal handle V or H.
3 x screws.
Standard for all patio doors.



Fittings pack 1*
Handle Tokyo

Aluminium (silver)
Installation kit for internal handle with turn knob.

Includes: Internal handle L or R.
3 x screws.



Fittings pack 2*
Handle Tokyo

Aluminium (silver)
Installation kit for external handle and internal handle with turn knob.

Includes: External handle straight.
Internal handle L or R.
3 x screws.



Fittings pack 3*
Handle Tokyo

Aluminium (silver)
Installation kit for ext. handle prepared for lock cylinder and int. handle with turn knob. Cylinder not included.

Includes: External handle straight.
Internal handle L or R.
3 x screws.

Suitable cylinder ASSA 1209 or 1309 with long carrier.



Fittings pack 4*
Handle Tokyo

Aluminium (silver)
Installation kit for internal handle prepared for lock cylinder. Cylinder not included.

Includes: Internal handle L or R.
3 x screws.

Suitable cylinder ASSA 1209 or ASSA 1309 with long carrier.



Fittings pack 5*
Handle Tokyo

Aluminium (silver)
Installation kit for internal handle prepared for lock cylinder and external handle. Cylinder not included.

Includes: External handle straight.
Internal handle L or R.
3 x screws.

Suitable cylinder ASSA 1209 or ASSA 1309 with long carrier.



Fittings pack 6*
Handle Tokyo

Aluminium (silver)
Installation kit for ext- and internal handle prepared for lock cylinder. Cylinder not included.

Includes: External handle straight.
Internal handle L or R.
3 x screws.

Suitable cylinder 2 x ASSA 1209 or 1309 int + ext. with long carrier.



Fittings pack 12

Galvanised
External pull handle.

Includes: External pull handle.
2 x screws.

* Also available in black. Model Hoppe Tokyo.

Fittings pack patio door

>> cont.

**Fittings pack 22***

White version
Child protection catch arrangement, Fix 184.

Includes: Plastic coated wire.
4 x screws.
Fitting.

**Fittings pack 31***
Handle Tokyo

Aluminium (silver)
Installation kit safety handle/child safety lock, KISI2.

Includes: Internal handle with cylinder, key, cover plate.
KISI2, child safety lock.

**Fittings pack 33**

Handle ASSA Vinga 7312

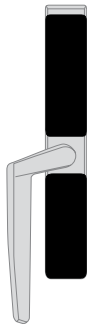
Includes: Internal handle.
Pressure cylinder 7310.
2 x screws.

Meets the requirements according to SS 3620, class A

**Fittings pack 43***Internal code handle
Matt chrome.

Includes: Supplied with one way screw
and 2 x 1.5V AAA batteries.

Meets the requirements according to SS3620, class B.

**Fittings pack 43***Internal code handle
Matt chrome.

Suitable for passive door leaf in
a double door.

**Fittings pack 44***Internal code handle + external handle
Tokyo.

Matt chrome.

Includes: Supplied with one way screw
and 2 x 1.5V AAA batteries.

* Also available in black. Model Hoppe Tokyo.

Antique profile, glazing bars and mullions

Antique profile (option)

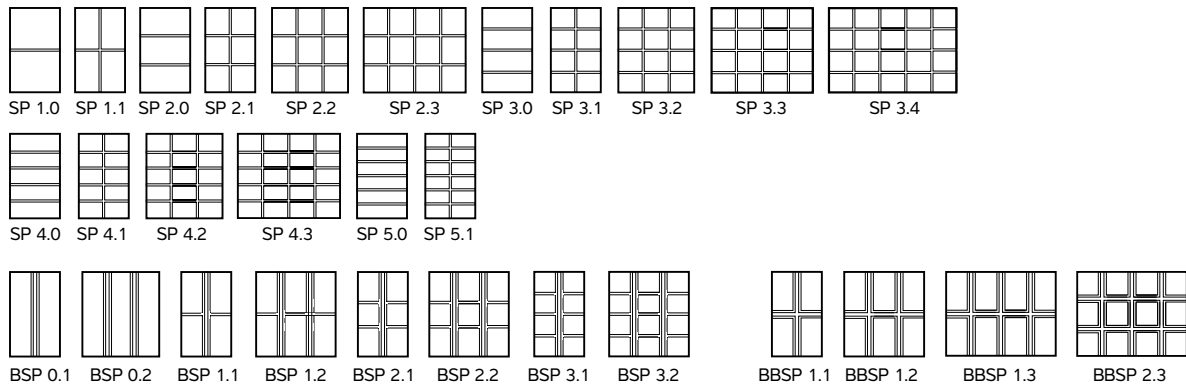
Inside profile (antique) on frame and sash, see picture for execution.



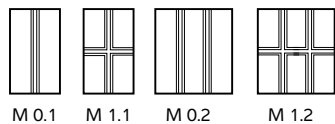
Glazing bars and mullions (option)

Example of narrow (SP) and wide (BSP) removable glazing bars, can also be selected as intermediate glazing bar. Contact your retailer for other combinations.

NOTE! There are size restrictions on glazing bars.



Example of mullions, can be combined with glazing bars



Material and dimension

Type	Material	Narrow	Wide
Detachable glazing bars	Wood or plastic	28 mm	55 mm
Intermediate glazing bar	Aluminium	26 mm	45 mm
Fixed mullion that divides the panes	Wood		63 mm