

Elitfönster Harmoni 3-glass

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Standard version

Product family

Elitfönster Harmoni inward opening windows and doors.

Product types

Side hung, bottom hung, window door and fixed frame. Integrated ventilation mode called Kipp-Dreh is available as an optional model. See also page 6.

Materials

Wooden frame of laminated and finger jointed pine with external aluminium cladding.

Surface treatment

Standard colour is white NCS S 0502-Y, gloss value 35 for wood and gloss value 80 for external aluminium cladding. For alternative colour choices and surface treatment, see separate colour guide on elitfönster.se.

Glazing design

The glass is glued in the corners and mounted with an internal glazing bead.

Glass

3-glass insulating pane type T4-16, with 3 pieces of 4 mm glass, one of these is energy glass. 16 mm distance profile between the glasses, one air gap filled with Argon.

U-value

The U-value is a measure of the product's thermal insulation capacity, see which U-values are offered under each product type. The value is reported in the unit W/(m²K) and refers to the entire window construction such as glass, frame and, where applicable, sash/door leaf etc. The standard value is calculated according to SS-EN 10077-2 and is given for a standard size. The value differs between different sizes where larger sizes have a lower value and smaller sizes have a higher value than the standard size. Exact product specific values are reported in the product's performance declaration and on the CE label on each product.

Handles and fittings

See the description under each product type.

Dimensions and sizes

The frame depth is 115 mm. Sizes are given in modules, 1M (module) is 100 mm. The module size includes a 20 mm centre distance in width and height, i.e. 10 mm all around. This means that a frame outer width of 980 mm corresponds to 10M. Drawings in pdf and dwg format and a size guide are available at elitfonster.se.

Verified properties

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

| | |
|----------------------------|--|
| Air tightness | Class 4 |
| Rain tightness | Class E 1050 (fixed frame E 1200, double doors 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 |
| Operation classes openable | Class 1 |
| Class based on application | W5 (double doors W3) |

Options & accessories

Elitfönster offer a wide range of options that can both change the appearance or add unique properties to your window. On pages 8-10, you can read more about mullions and posts and various fittings packages. At elitfönster.se you can find more options and accessories.

Optional fire design

The product family is offered in fire classes EI30, EW30 and E30. Certified by RISE and meets the legal requirement for reporting fire properties in CE marking for openable units and the requirement for type approval for fixed frames.

P marking, certification and warranties

CE marking

The product is CE marked according to SS-EN 14351-1

P-labelled production.

Products manufactured in a certified P-labelled production process ensure that the quality and performance of the product is of a high level. The certificate is issued by RISE, Research Institutes of Sweden, according to Certification Rule 133 "Certification of production process for the production of construction products (P-labelled production)" against reference work "Production of windows of wood and wood/metal".

Quality and environmental certification

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

Warranty (valid in Sweden)

Provided that the instructions for storage, installation, care and maintenance are followed, the following warranty is provided for Elitfönster Harmoni 3-glass:

- 10 year warranty against condensation between glasses in insulating glass units
- 10 year warranty on the function of the product
- 10 year warranty against rot in the window's timber parts.



This product is made in certified production.



Side hung ETIL-AL

| Product family | Product type | Model name |
|------------------------|---|------------|
| Elitfönster Harmoni | Inward opening side hung window, 3 glasses | ETIL-AL |

Openability
Inward opening side hung.

Description
Inward-opening wooden windows in ventilated construction with external clip mounted aluminium cladding. To fulfil warranties, CE- and P-marking and other product-related tests, this product must be installed in a vertical window opening.

Standard handle
Hoppe London, natural anodised aluminium. Handle blocking device KISI2.

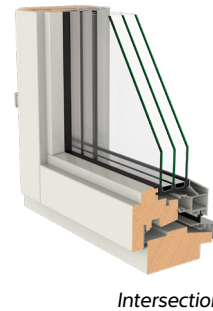
Fitting
Side hung products are supplied with 2-4 symmetrical bolt hinges depending on the height of the window. Made of galvanised steel, white hinges are available as an option.

Closing fitting
Nickel-free galvanised steel espagnolette with two or three self-adjusting comfort safety rollers/pistons depending on the height of the window. Can be reinforced with a security strike plate for increased burglary protection.

Opening and ventilation
As an option, the product is offered with a brake that is operated by the handle and enables optional ventilation modes. The model called Kipp-Dreh is equipped with a two-function fitting where the window is suspended both on the side and at the bottom, which enables ventilation when the sash is tilted inwards. See more information on page 6.

Multi-pane and combinations
The product is available in a multi-pane version and in combinations with a fixed frame and openable units.

Lockable handles and safety fittings
See page 8.



Technical properties ETIL-AL

U-value
1,31 W/m² °K in **standard version**.
Down to 1.00 is available as an option, see table below.
The U-value is indicated for size 1230x1480 mm. For more information on U-values, see page 1.

Sound reduction
Rw 35dB in standard version.
Up to Rw 44dB is available as an option, see table below.

| Sound value (dB) | | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------------|------------|------------|-------------------|--|--------------|--------------|--------------|
| Rw | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass. | | | |
| 35* | 33* | 29* | 29* | 1,31 (75/60)* | 1,20 (75/60) | 1,13 (74/53) | 1,02 (74/53) |
| 39 | 37 | 33 | 33 | 1,32 (74/58) | 1,21 (74/58) | 1,11 (74/51) | 1,00 (74/51) |
| 40 | 38 | 34 | 34 | 1,31 (74/56) | 1,20 (74/56) | 1,11 (74/51) | 1,00 (74/51) |
| 42 | 40 | 35 | 35 | 1,31 (74/55) | 1,20 (74/55) | 1,11 (73/51) | 1,00 (73/51) |
| 42 | 41 | 37 | 36 | 1,31 (73/58) | 1,20 (73/58) | 1,12 (73/49) | 1,02 (73/49) |
| 44 | 43 | 40 | 39 | 1,35 (73/55) | 1,24 (73/55) | 1,17 (72/51) | 1,06 (72/51) |

* Standard version

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.

Bottom hung ETIUL-AL

| Product family | Product type | Model name |
|------------------------|---------------------------------------|------------|
| Elitfönster Harmoni | Inward opening bottom hung, 3 glasses | ETIUL-AL |

Openability

Inward opening bottom hung.

Description

Inward-opening wooden windows in ventilated construction with external clip mounted aluminium cladding. To fulfil warranties, CE- and P-marking and other product-related tests, this product must be installed in a vertical window opening.

Standard handle

Hoppe London, natural anodised aluminium. Handle blocking device KISI2.

Fitting

Bottom hung products are supplied with 2-5 symmetrical bolt hinges depending on the width of the window. Made of galvanised steel, white hinges are available as an option.

Closing fitting

Nickel-free galvanised steel espagnolette with 1-4 self-adjusting comfort safety rollers/pistons depending on the width of the window. Can be reinforced with a security strike plate for increased burglary protection.

Opening and ventilation

The product has a ventilation mode built into the fitting.

Multi-pane and combinations

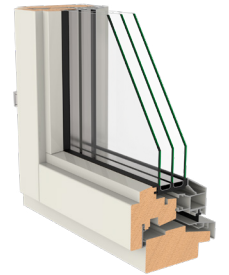
The product is available in a multi-pane version and in combinations with a fixed frame and openable units.

Lockable handles and safety fittings

See page 8.



Inside



Intersection

Technical properties ETIUL-AL

U-value

1,31 W/m² °K in **standard version**.
Down to 1.00 is available as an option, see table below.
The U-value is indicated for size 1230x1480 mm. For more information on U-values, see page 1.

Sound reduction

Rw 35dB in standard version.
Up to Rw 44dB is available as an option, see table below.

| Sound value (dB) | | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------------|------------|------------|-------------------|--|--------------|--------------|--------------|
| Rw | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | <small>LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass.</small> | | | |
| 35* | 33* | 29* | 29* | 1,31 (75/60)* | 1,20 (75/60) | 1,13 (74/53) | 1,02 (74/53) |
| 39 | 37 | 33 | 33 | 1,32 (74/58) | 1,21 (74/58) | 1,11 (74/51) | 1,00 (74/51) |
| 40 | 38 | 34 | 34 | 1,31 (74/56) | 1,20 (74/56) | 1,11 (74/51) | 1,00 (74/51) |
| 42 | 40 | 35 | 35 | 1,31 (74/55) | 1,20 (74/55) | 1,11 (73/51) | 1,00 (73/51) |
| 42 | 41 | 37 | 36 | 1,31 (73/58) | 1,20 (73/58) | 1,12 (73/49) | 1,02 (73/49) |
| 44 | 43 | 40 | 39 | 1,35 (73/55) | 1,24 (73/55) | 1,17 (72/51) | 1,06 (72/51) |

* Standard version

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 inward opening

ETIDL-AL, ETIDL2-AL

| Product family | Product type | Model name |
|------------------------|--|-----------------------|
| Elitfönster Harmoni | Inward opening Patio door and double door, 3 glasses | ETIDL-AL ETIDL2-AL |

Openability

Inward opening side hung.

Description

Inward-opening wooden windows in ventilated construction with external clip mounted aluminium cladding. To fulfil warranties, CE- and P-marking and other product-related tests, this product must be installed in a vertical window opening.

Standard handle

Hoppe London, natural anodised aluminium. Handle blocking device KISI2.

Fittings

The window door is supplied with 4 symmetrical bolt hinges. Made of galvanised steel, white hinges are available as an option.

Closing fitting

Nickel-free galvanised steel espagnolette with 4-5 self-adjusting comfort safety rollers/pistons depending on the height of the window door. Can be reinforced with a security strike plate for increased burglary protection.

Opening and ventilation

As an option, the product is offered with a brake that is operated by the handle and enables optional ventilation modes. The model called Kipp-Dreh is equipped with a two-function fitting where the window door is hung both on the side and at the bottom, which enables ventilation when the door leaf is tilted inwards. See more information on page 6.

Multi-pane and combinations

The product is available as a single or double door and in combination with a fixed frame in the form of a skylight. See elitfönster.se for more information.

Threshold

The threshold is painted in the same colour as the interior of the frame. A glazed alternative is available as an option. Height 74 mm in standard version, lower alternative (48 mm) available as an option.

Lockable handles and safety fittings

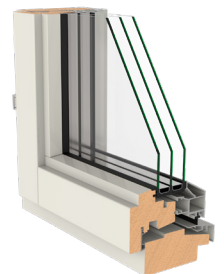
See page 9.



Inside



Outside



Intersection

Patio door ETIDL-AL, ETIDL2-AL

>> cont.

Technical properties ETIDL-AL, fully glazed single door

U-value1,32 W/m² °K in **standard version**.

Down to 1.00 is available as an option, see table below.

The U-values given below refer to standard size 980x2180 mm.

For more information on U-values, see page 1.

Sound reduction

Rw 35dB in standard version.

Up to Rw 44dB is available as an option, see table below.

| Sound value (dB) | | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------------|------------|------------|-------------------|--|--------------|--------------|--------------|
| Rw | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass. | | | |
| 35* | 33* | 29* | 29* | 1,32 (75/60)* | 1,20 (75/60) | 1,14 (74/53) | 1,02 (74/53) |
| 39 | 37 | 33 | 33 | 1,31 (74/58) | 1,19 (74/58) | 1,11 (74/51) | 1,00 (74/51) |
| 40 | 38 | 34 | 34 | 1,31 (74/60) | 1,20 (74/60) | 1,11 (74/51) | 1,00 (74/51) |
| 42 | 40 | 35 | 35 | 1,31 (74/55) | 1,19 (74/55) | 1,11 (73/51) | 1,00 (73/51) |
| 42 | 41 | 37 | 36 | 1,31 (73/58) | 1,19 (73/58) | 1,14 (73/49) | 1,02 (73/49) |
| 44 | 43 | 40 | 39 | 1,35 (73/55) | 1,24 (73/55) | 1,17 (72/51) | 1,06 (72/51) |

* Standard version

ETIDL-AL is also offered with a dense filling at the bottom in two sound levels:

Standard filling with sound value Rw 25 dB / Rw+C 24 dB / Rw+Ctr 23 dB

Lound filling with sound value Rw 42 dB / Rw+C 40 dB / Rw+Ctr 35 dB.

Technical properties ETIDL2-AL, fully glazed double door

U-value1,32 W/m² °K in **standard version**.

Down to 1.00 is available as an option, see table below.

The U-values given below refer to standard size 1480x2180 mm.

For more information on U-values, see page 1.

Sound reduction

Rw 35dB in standard version.

Up to Rw 44dB is available as an option, see table below.

| Sound value (dB) | | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------------|------------|------------|-------------------|--|--------------|--------------|--------------|
| Rw | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass. | | | |
| 35* | 33* | 29* | 29* | 1,32 (75/60)* | 1,20 (75/60) | 1,14 (74/53) | 1,02 (74/53) |
| 44 | 42 | 38 | 38 | 1,35 (73/55) | 1,24 (73/55) | 1,17 (72/51) | 1,06 (72/51) |

* Standard version

ETIDL2-AL is also offered with a dense filling at the bottom in two sound levels:

Standard filling with sound value Rw 25 dB / Rw+C 24 dB / Rw+Ctr 23 dB

Lound filling with sound value Rw 42 dB / Rw+C 40 dB / Rw+Ctr 35 dB.

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.

Kipp-Dreh

| Product family | Product type | Model name |
|---------------------|--|-------------|
| Elitfönster Harmoni | Inward opening Kipp-Dreh window 3-glas | ETI-AL Kd |
| | Inward opening Kipp-Dreh patio door 3-glas | ETIDL-AL Kd |

Openability
Inward opening.

Description
Inward-opening wooden window or window door of ventilated construction with external clip mounted aluminium cladding. To fulfil warranties, CE- and P-marking and other product-related tests, this product must be installed in a vertical window opening.

Standard handles
Hoppe London, natural anodised aluminium. Handle blocking device KIS12.

Fittings
To enable two ways of opening, there are fittings around the entire sash but only visible on one side. As an option, completely hidden fittings are offered, which gives a nice expression but above all enables the option of an internal hidden track, which unfortunately does not fit on products with visible fittings.

Closure fitting
Nickel-free galvanised steel espagnolette with 2-10 self-adjusting comfort safety rollers/pistons, the number of which depends on the size of the product, are positioned around the entire frame. Can be reinforced with a security strike plate for increased burglary protection.

Opening and ventilation
The model is equipped with a two-function fitting. When the handle is turned to the horizontal position, the ventilation mode (tilt) occurs. When the handle is turned to the vertical position, the side hung opening function (Dreh) occurs.

Multi-pane and combinations
The product is available in a multi-pane version and in combinations with a fixed frame.

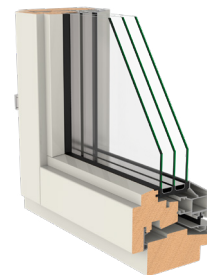
Lockable handles and safety fittings
See page 8-9.

Mode of opening – weather mode ventilation and side-hung respectively



Weather mode (Kipp)

Open mode (Dreh)



Intersection

Technical properties ETI-AL Kd and ETIDL-AL Kd fully glazed single door

U-value

1,31 och 1,32 W/m² °K in **standard version**.
Down to 1.00 is available as an option, see table below.
The U-values given below refer to standard size 1230x1480 mm.
For more information on U-values, see page 1.

Sound reduction

Rw 35dB in standard version.
Up to Rw 44dB is available as an option, see table below.

| Sound value (dB) | | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------------|------------|------------|----------------|--|-------------------|-------------------|-------------------|
| Rw | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | Values refer to Window + window door | | | |
| | | | | LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass. | | | |
| 35* | 33* | 29* | 29* | 1,31+1,32 (75/60)* | 1,20+1,20 (75/60) | 1,13+1,14 (74/53) | 1,02+1,02 (74/53) |
| 39 | 37 | 33 | 33 | 1,32+1,31 (74/58) | 1,21+1,19 (74/58) | 1,11+1,11 (74/51) | 1,00+1,00 (74/51) |
| 40 | 38 | 34 | 34 | 1,31+1,31 (74/60) | 1,20+1,20 (74/60) | 1,11+1,11 (74/51) | 1,00+1,00 (74/51) |
| 42 | 40 | 35 | 35 | 1,31+1,31 (74/55) | 1,20+1,19 (74/55) | 1,11+1,11 (73/51) | 1,00+1,00 (73/51) |
| 42 | 41 | 37 | 36 | 1,31+1,31 (73/58) | 1,20+1,19 (73/58) | 1,12+1,14 (73/49) | 1,02+1,02 (73/49) |
| 44 | 43 | 40 | 39 | 1,35+1,35 (73/55) | 1,24+1,24 (73/55) | 1,17+1,17 (72/51) | 1,06+1,06 (72/51) |

ETIDL-AL kd is also offered with a dense filling at the bottom in two sound levels:

* Standard version

Standard filling with sound value Rw 25 dB / Rw+C 24 dB / Rw+Ctr 23 dB

Lound filling with sound value Rw 42 dB / Rw+C 40 dB / Rw+Ctr 35 dB.

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 EFL-AL

| Product family | Product type | Model name |
|------------------------|---|------------|
| Elitfönster Harmoni | Fixed frame, 3 glass adapted for inward opening | EFL-AL |

Openability

Not openable.

Description

Fixed frame made of wood in ventilated construction with external clip-mounted aluminium cladding. To fulfil warranties, CE- and P-marking and other product related tests, this product must be installed in a vertical window opening.

Combinations

The product is available as a part of a combination with openable units See elitfönster.se for more information.



Intersection



Inside

Technical properties EFL-AL

U-value

1,20 W/m² °K in **standard version**.

Down to 0.84 is available as an option, see table below.

The U-values given below refer to standard size 1230x1480 mm.

For more information on U-values, see page 1.

Sound reduction

Rw 33dB in standard version.

Up to Rw 42dB is available as an option, see table below.

| Rw | Sound value (dB) | | | U-value (Light transmission Lt-value %/Solar factor G-value %) | | | |
|------------|------------------|------------|-------------------|--|--------------|--------------|--------------|
| | Rw+C | Rw+Ctr | Rw+Ctr 50-3150 | LT indicates the percentage of light passing through the glass. G is the percentage of thermal radiation through the glass. | | | |
| 33* | 31* | 27* | 27* | 1,20 (75/60)* | 1,08 (75/60) | 0,99 (74/53) | 0,87 (74/53) |
| 37 | 35 | 31 | 31 | 1,20 (74/56) | 1,07 (74/56) | 0,96 (74/51) | 0,84 (74/51) |
| 38 | 36 | 32 | 32 | 1,20 (74/58) | 1,09 (74/58) | 0,96 (74/51) | 0,84 (74/51) |
| 42 | 40 | 35 | 35 | 1,19 (74/55) | 1,07 (74/55) | 0,96 (73/51) | 0,84 (73/51) |
| 43 | 41 | 36 | 36 | 1,19 (73/58) | 1,07 (73/58) | 0,98 (73/49) | 0,86 (73/49) |
| 46 | 44 | 39 | 39 | 1,24 (73/55) | 1,12 (73/55) | 1,03 (72/51) | 0,91 (72/51) |

* Standard version

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

**Fittings pack 8 and 30**

Handle London

Aluminium (silver)
Mounting kit standard handle/child
protection lock

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

BPK 8 (TBT) fits KippDreh.
BPK 30 fits all other products.*

** With the TBT handle locked, the window can still be opened to the ventilation position (Kipp) but not to the side hung position (Dreh). To get to the side hung position, the key must be turned to the unlocked position.*

**Fittings pack 9**

White version
Child protection airing fitting
for window.

Includes: Assa 93, screws.

**Fittings pack 22**

White version
Child protection catch arrangement, Assa 184.

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

Fittings pack patio door


Fittings pack 8 and 30
 Handle London

Aluminium (silver)
 Mounting kit standard handle/child
 protection lock

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

BPK 8 (TBT) fits KippDreh.
 BPK 30 fits all other products.*


Fittings pack 21
 Handle London

Aluminium.
 Installation kit internal handle with cylinder.
 Cylinder not included.

Includes: Internal straight handle, version.
 Hoppe Pure (aluminium silver).
 2 x one way screws.
 2 x cylinder screws.

Fits all inward opening products.

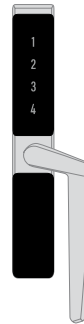
** With the TBT handle locked, the patio door can still be opened to the ventilation position (Kipp) but not to the side hung position (Dreh). To get to the side hung position, the key must be turned to the unlocked position.*


Fittings pack 22

White version
 Child protection catch arrangement, Assa 184.

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

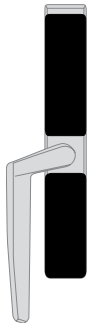
Fits all products.


Fittings pack 43
 Internal code handle

Matte chrome

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

*Meets the requirements of
 SS3620 class B.*


Fittings pack 43 Passiv
 Internal code handle

Matte chrome

Suitable for passive door leaf in a double
 door.

Bars and mullions

| | 3-glass openable inward opening | 3-glass fixed |
|---|---------------------------------|---|
| A. Narrow bar Surface mounted | Dimensions 30 mm. | Dimensions 30 mm. |
| B. Wide bars Surface mounted | Dimensions 55 mm. | Dimensions 55 mm. |
| C. Mullions Glass dividing | Dimensions 69 mm. | Horizontal Internal dimension 91 mm, external dimension 99 mm. Vertical Internal dimension 94 mm, external dimension 103 mm. |

Specified dimensions refer to width of bars/mullions.

