

DAKEA BY ALTATERRA

**QUALITY AND RELIABILITY
THAT COMES WITH EXPERIENCE**



 altaterra

WE HAVE ACCESS TO THE BIGGEST ROOF WINDOW PRODUCTION NETWORK GLOBALLY

We can take advantage of all the Altaterra resources to meet any market demands

WE HAVE THE MOST EXTENSIVE EXPERIENCE IN DESIGNING, PRODUCING AND SELLING ROOF WINDOWS

Our products reflect the highest quality standards on the market

OUR GROUP HAS BEEN MAKING AND SELLING ROOF WINDOWS FOR OVER 75 YEARS

We are the most stable and reliable partner for roof window solutions

WE HAVE BEEN IN THE UK AND IRISH MARKETS FOR OVER 15 YEARS

We understand the needs of the UK market



UNIQUE FEATURES

THAT SPEAK FOR THEMSELVES



NEXT 20
GUARANTEE

NEXT 20 GUARANTEE

With a 20 year guarantee transferable on sale, this is the longest and best guarantee on the market and gives your clients real peace of mind as well as being a strong indication of just how good our windows really are.



MASTER WOOD

MASTER WOOD

We use the best quality timber sourced from sustainable forests so that we can guarantee a durable, high performance and long lasting window.



MAX PROTECT

MAX PROTECT

All our windows come with toughened glass and comply with rigorous quality control ensuring they are of the highest possible standard on the market.



THERMOSTAT

THERMOSTAT

Double LOW-Emission coating reflects heat back in to the room. Thanks to which, the heat is more efficient and energy bills are lower.



WHITE DESIGN

WHITE DESIGN

White painted roof windows are a perfect match with modern interiors and accommodate all aesthetic tastes. We use only water-based, 100% ecologically-friendly paints and varnish.



EASY CLEAN
PVC

EASY CLEAN PVC

A white, clean PVC profile reinforced with steel. The construction of Dakea PVC windows reduces the need for maintenance to a minimum and helps to keep the frame clean.



KAV B900

NEXT 20
GUARANTEE

MASTER WOOD



MAX PROTECT



THERMOSTAT

MOST EFFICIENT SOLUTION FOR STANDARD EVERYDAY APPLICATION

DOUBLE LOW-E (U_g 1.0 W/m²K) / (U_w 1.3 W/m²K)

results in less energy being used to keep the room cool in the summer months and keeps the warmth inside during the cold winter months.

BETTER USE OF SPACE

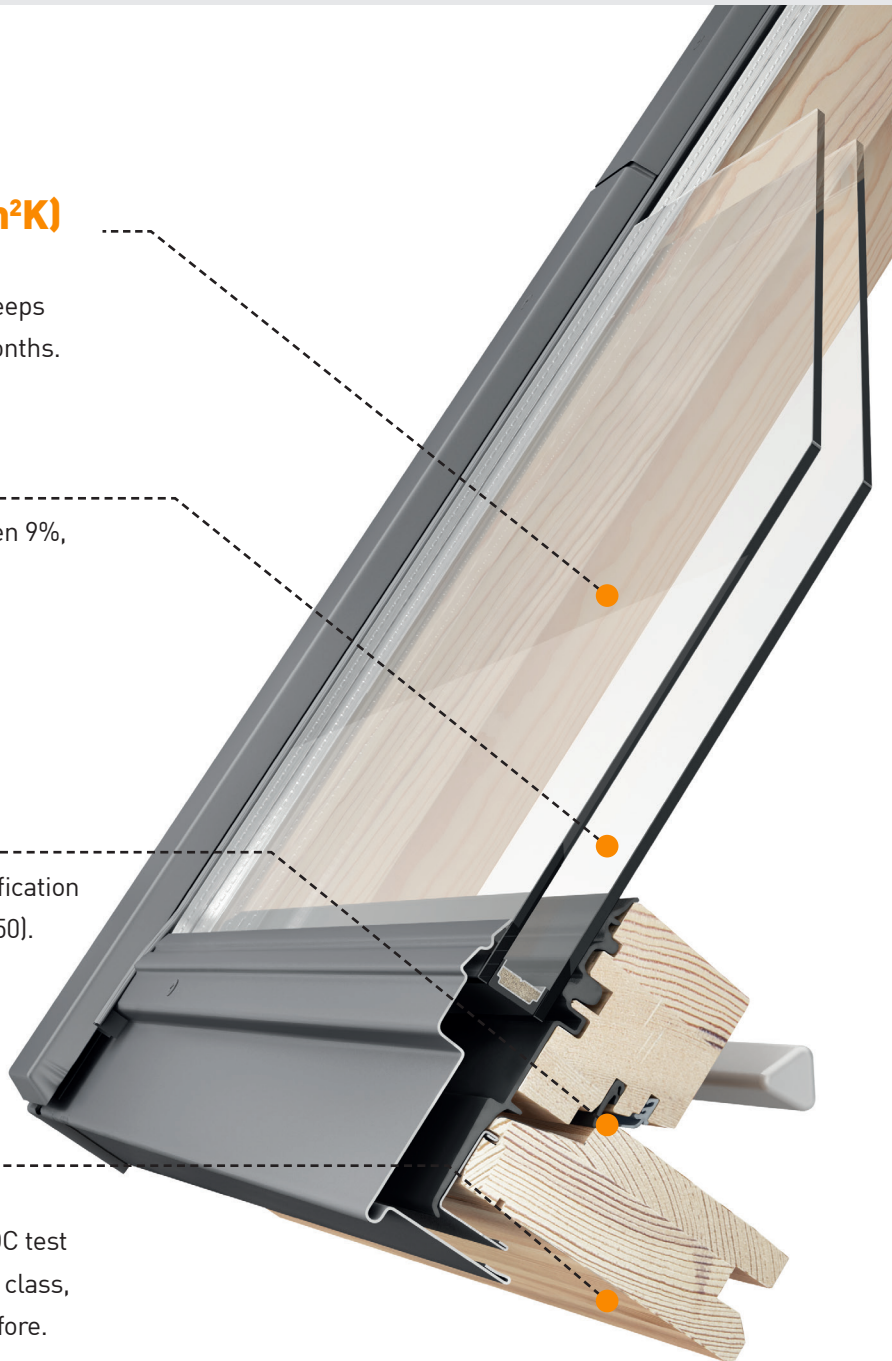
results in higher natural daylight area by even 9%, when compared to market average (0.44 m²) for a 780 × 980 mm roof window

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1350).

MULTICOATS OF WATERBASED VARNISH

provides twice the strength of most natural wood protection; according to the VOC test result of A+, the product emissivity is best in class, providing you with healthier air than ever before.



KAV B910

NEXT 20
GUARANTEE

MASTER WOOD



MAX PROTECT



THERMOSTAT



WHITE DESIGN

MODERN WHITE FINISH TO KEEP UP WITH LATEST MARKET TRENDS

DOUBLE LOW-E (U_g 1.0 W/m²K) / (U_w 1.3 W/m²K)

results in less energy being used to keep the room cool in the summer months and keeps the warmth inside during the cold winter months.

BETTER USE OF SPACE

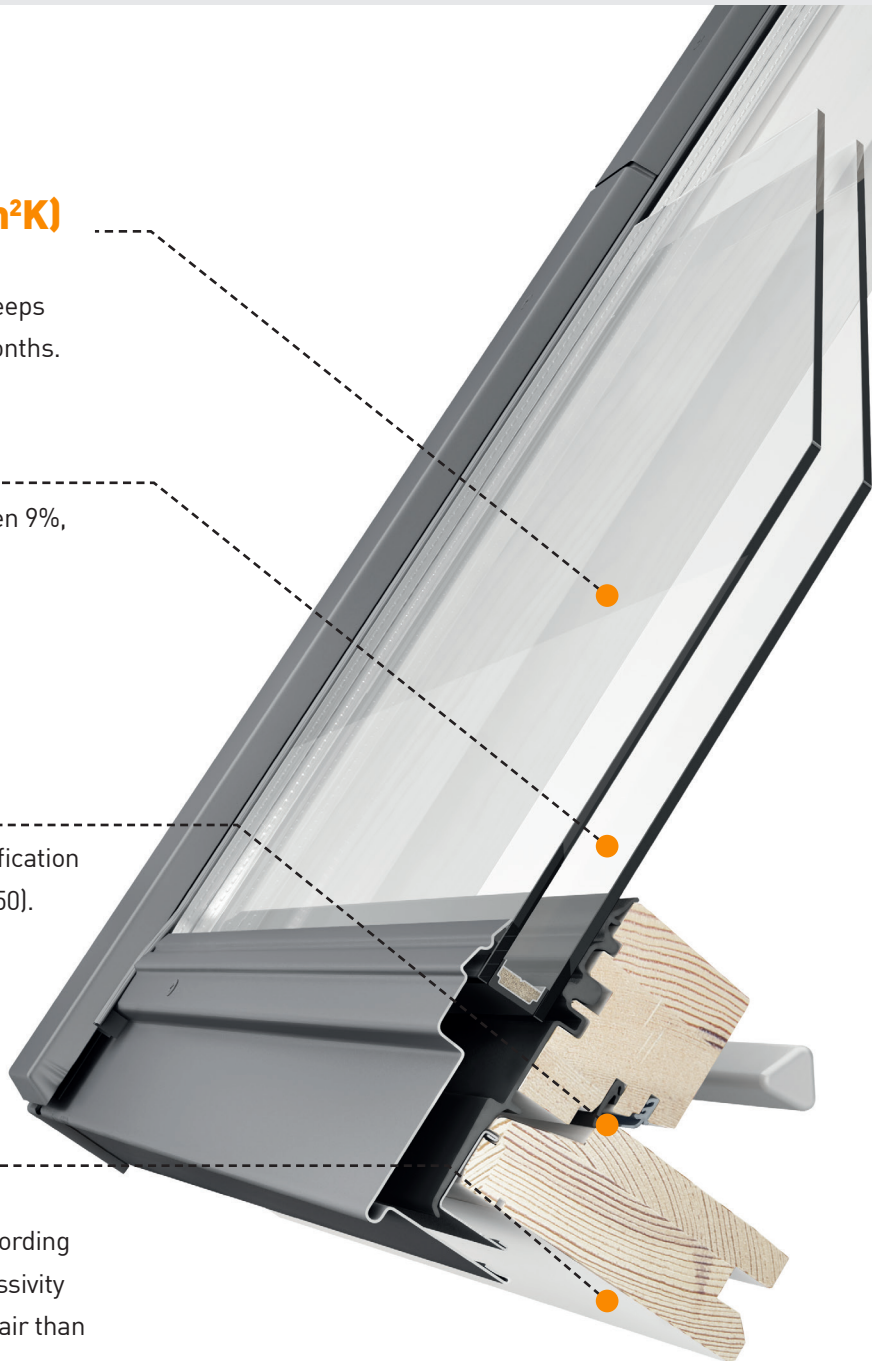
results in higher natural daylight area by even 9%, when compared to market average (0.44 m²) for a 780 × 980 mm roof window

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1350).

MULTICOATS OF WATER BASED VARNISH + ADDITIONAL COAT OF WHITE PAINT

results in excellent durability and satisfies the latest market trend of a white finish; according to the VOC test result of A+, the product emissivity is best in class, providing you with healthier air than ever before.



KPV B900

NEXT 20
GUARANTEE

MAX PROTECT



THERMOSTAT

EASY CLEAN
PVC

BEST PERFORMING SOLUTION FOR KITCHENS AND BATHROOMS

DOUBLE LOW-E ($U_g 1.0 \text{ W/m}^2\text{K}$) / ($U_w 1.3 \text{ W/m}^2\text{K}$)

results in less energy being used to keep the room cool in the summer months and keeps the warmth inside during the cold winter months.

BETTER USE OF SPACE

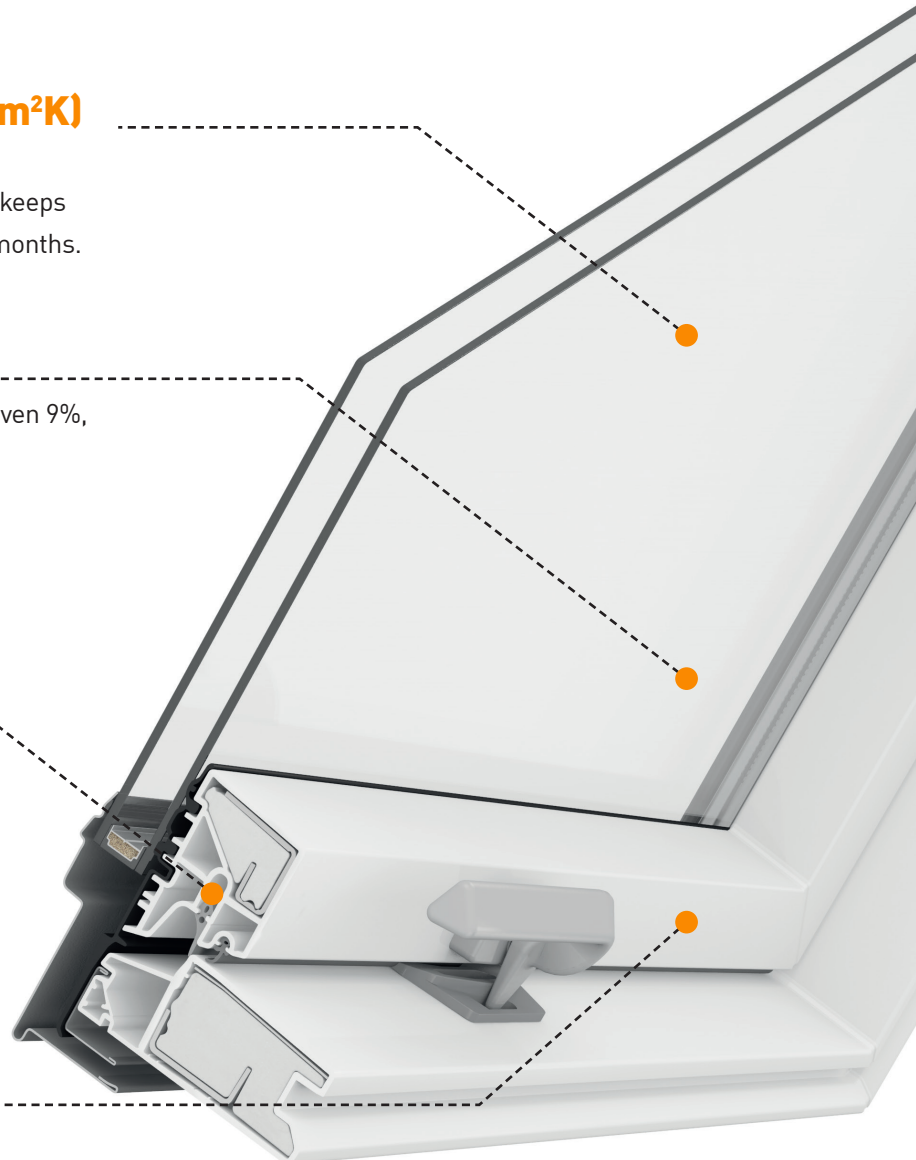
results in higher natural daylight area by even 9%, when compared to market average for a 780 × 980 mm roof window

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1500).

HIGH QUALITY PVC FRAME WITH STEEL REINFORCED CORE

has 100% resistance to moisture and its smooth surface makes it easy to clean and maintain, making this the best solution for humid rooms.



PRODUCT SPECIFICATIONS

WHICH EXCEED UK BUILDING REGULATIONS

	Dakea Core Pine KAV B900	Dakea Core White KAV B910	Dakea Core PVC KPV B900
Pane			
Construction	4-16-4H	4-16-4H	4-16-4H
24 mm double glazing	+	+	+
LOW-E (number of layers)	++	++	++
Gas (argon)	+	+	+
Toughened external glass	+	+	+
U_g (W/m ² K)	1,0	1,0	1,0
Total solar energy transmittance	0,55	0,55	0,55
Light transmittance	0,79	0,79	0,79
Window			
U_w (W/m ² K)	1,3	1,3	1,3
Water tightness	E1350	E1350	E1500
Air permeability	Class 4	Class 4	Class 4
Resistance to wind load	Class C4*	Class C4*	Class C4*
Sound reduction (dB)	32 (-1, -5)	32 (-1, -5)	32 (-1, -5)
Number of coats of varnish	2	2	
White painted		+	
Ventilation Valve	+	+	+
Features			
Extra, additional heat reflecting coating	+	+	+
Ergonomically redesigned handle	+	+	+
Available sizes	C2A, C4A, C6A, F4A, F6A, M4A, M6A, M8A M10A, P6A, P8A S6A, S8A, U4A, U8A	C2A, C4A, C6A, F4A, F6A, M4A, M6A, M8A M10A, P6A, P8A S6A, S8A, U4A, U8A	C2A, C4A, C6A, F4A, F6A, M4A, M6A M8A, M10A P6A, S6A, U4A

*M10A, P8A, S8A, U4A,
U8A: npd

*M10A, P8A, S8A, U4A,
U8A: npd

* M10A, U4A: npd



KAV B1000

NEXT 20
GUARANTEE

MASTER WOOD



MAX PROTECT



THERMOSTAT

MOST EFFICIENT SOLUTION FOR STANDARD EVERYDAY APPLICATION

DOUBLE LOW-E (U_g 1.0 W/m²K) / (U_w 1.3 W/m²K)

results in less energy being used to keep the room cool in the summer months and keeps the warmth inside during the cold winter months.

TOUGHENED EXTERNAL AND LAMINATED INTERNAL PANE

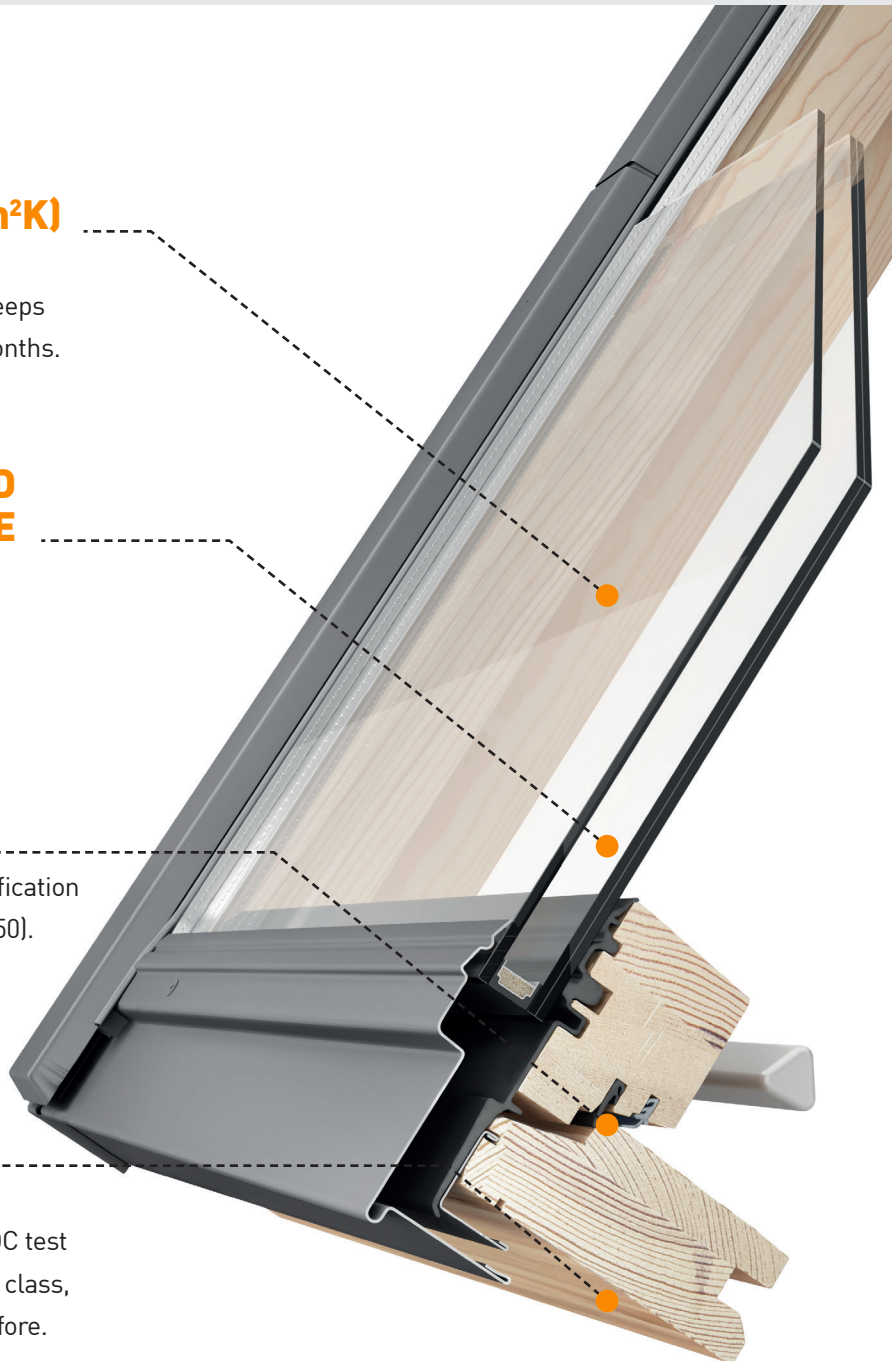
means complete safety no matter how hard the impact.

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1350).

MULTICOATS OF WATERBASED VARNISH

provides twice the strength of most natural wood protection; according to the VOC test result of A+, the product emissivity is best in class, providing you with healthier air than ever before.



KAV B1010

NEXT 20
GUARANTEE

MASTER WOOD



MAX PROTECT



THERMOSTAT



WHITE DESIGN

MODERN WHITE FINISH TO KEEP UP WITH LATEST MARKET TRENDS

DOUBLE LOW-E (U_g 1.0 W/m²K) / (U_w 1.3 W/m²K)

results in less energy being used to keep the room cool in the summer months and keeps the warmth inside during the cold winter months.

TOUGHENED EXTERNAL AND LAMINATED INTERNAL PANE

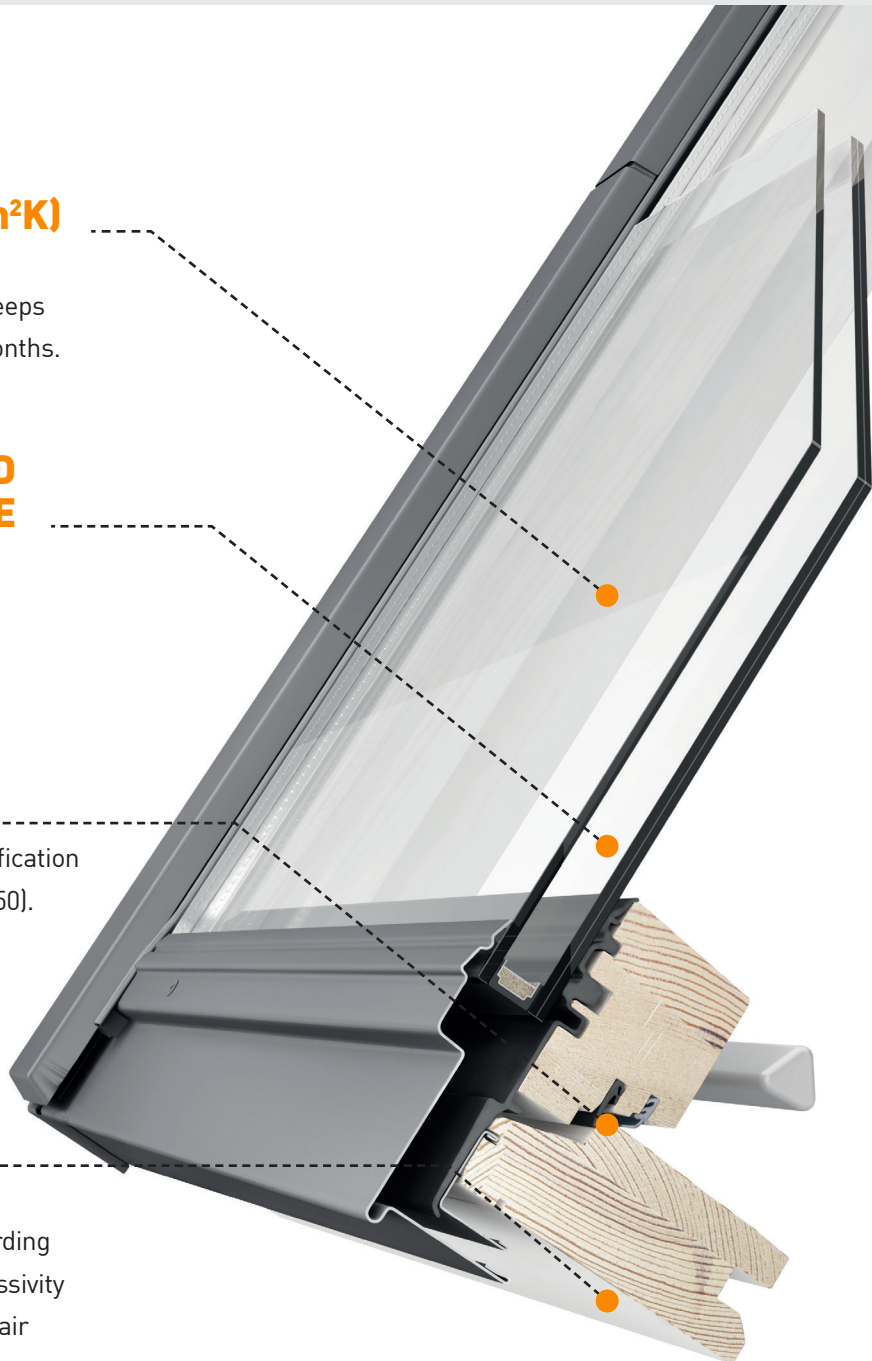
means complete safety no matter how hard the impact.

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1350).

MULTICOATS OF WATER BASED VARNISH + AND ADDITIONAL COAT OF WHITE PAINT

results in excellent durability and satisfies the latest market trend of white finish; according to the VOC test result of A+, the product emissivity is best in class, providing you with healthier air than ever before.



KPV B1000

NEXT 20
GUARANTEE

MAX PROTECT



THERMOSTAT

BEST PERFORMING SOLUTION FOR KITCHENS AND BATHROOMS

DOUBLE LOW-E (U_g 1.0 W/m²K) / (U_w 1.3 W/m²K)

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TOUGHENED EXTERNAL AND LAMINATED INTERNAL PANE

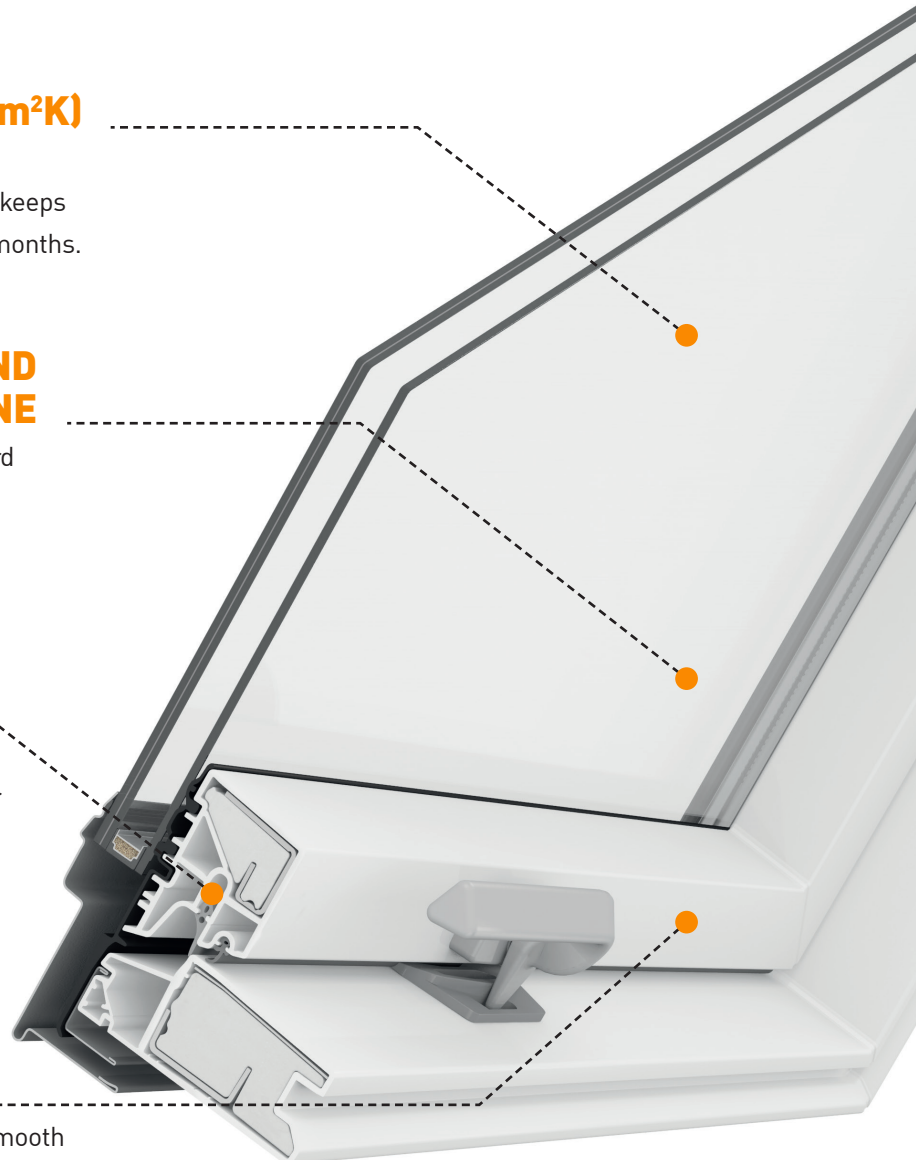
means complete safety no matter how hard the impact.

WELDED GASKETS AND MORE PRECISE CONSTRUCTION

results in the highest air permeability classification (Class 4) and excellent water tightness (E1500).

HIGH QUALITY PVC FRAME WITH STEEL REINFORCED CORE

has 100% resistance to moisture and its smooth surface makes it easy to clean and maintain, making this the best solution for humid rooms.



PRODUCT SPECIFICATIONS

WHICH EXCEED UK BUILDING REGULATIONS

	Dakea Better Pine KAV B1000	Dakea Better White KAV B1010	Dakea Better PVC KPV B1000
Pane			
Construction	33.2-14-4H	33.2-14-4H	33.2-14-4H
24 mm double glazing	+	+	+
LOW-E (number of layers)	++	++	++
Gas (argon)	+	+	+
Toughened external glass	+	+	+
Laminated internal glass	+	+	+
U_g (W/m ² K)	1,0	1,0	1,0
Total solar energy transmittance	0,52	0,52	0,52
Light transmittance	0,75	0,75	0,75
Window			
U_w (W/m ² K)	1,3	1,3	1,3
Water tightness	E1350	E1350	E1500
Air permeability	Class 4	Class 4	Class 4
Resistance to wind load	Class C4*	Class C4*	Class C4*
Sound reduction (dB)	34(-1;-4)	34(-1;-4)	34(-1;-4)
Number of coats of varnish	2	2	
White painted		+	
Ventilation Valve	+	+	+
Features			
Extra, additional heat reflecting coating	+	+	+
Ergonomically redesigned handle	+	+	+
Available sizes	C2A, C4A, C6A, F4A, F6A, M4A, M6A, M8A M10A, P6A, P8A S6A, S8A, U4A, U8A	C2A, C4A, C6A, F4A, F6A, M4A, M6A, M8A M10A, P6A, P8A S6A, S8A, U4A, U8A	C2A, C4A, C6A, F4A, F6A, M4A, M6A M8A, M10A P6A, S6A, U4A

*M10A, P8A, S8A, U4A, U8A: npd

*M10A, P8A, S8A, U4A, U8A: npd

*M10A, U4A: npd



PRODUCT SPECIFICATIONS

PRODUCT LOGISTICS DATA

Item code	Description	Gross Weight (kg)	Units per Pallet	Unit Volume (m³)
KAV C2A B900	Roof window 55x78	17,7	10	0,07
KAV C4A B900	Roof window 55x98	20,7	10	0,09
KAV C6A B900	Roof window 55x118			
KAV F6A B900	Roof window 66x118	27,4	8	0,13
KAV M4A B900	Roof window 78x98	26,8	7	0,12
KAV M6A B900	Roof window 78x118	31,0	7	0,15
KAV M8A B900	Roof window 78x140	36,3	7	0,18
KAV S6A B900	Roof window 114x118	41,8	5	0,22
KAV U8A B900	Roof window 134x140	49,7	6	0,30
KPV C2A B900	Roof window PVC 55x78	18,4	10	0,07
KPV C4A B900	Roof window PVC 55x98	25,4	10	0,09
KPV F6A B900	Roof window PVC 66x118	31,5	8	0,13
KPV M4A B900	Roof window PVC 78x98	31,6	7	0,12
KPV M6A B900	Roof window PVC 78x118	36,1	7	0,15
KPV M8A B900	Roof window PVC 78x140	40,6	7	0,18
KPV S6A B900	Roof window PVC 114x118	47,2	5	0,22
UCX C2A 13E DAK	Univ.combi flashing 13	9,5	7	0,12
UCX C4A 13E DAK	Univ.combi flashing 13	11,4	7	0,14
UCX F6A 13E DAK	Univ.combi flashing 13	12,7	7	0,15
UCX M4A 13E DAK	Univ.combi flashing 13	12,8	7	0,17
UCX M6A 13E DAK	Univ.combi flashing 13	11,7	7	0,17
UCX M8A 13E DAK	Univ.combi flashing 13	12,5	7	0,21
UCX S6A 13E DAK	Univ.combi flashing 13	17,1	7	0,21
UCX U8A 13E DAK	Univ.combi flashing 13	19,8	7	0,23
UCX C2A 2E DAK	Univ.combi flashing 2	4,5	14	0,06
UCX C4A 2E DAK	Univ.combi flashing 2	4,7	14	0,07
UCX F6A 2E DAK	Univ.combi flashing 2	6,2	14	0,08
UCX M4A 2E DAK	Univ.combi flashing 2	6,4	14	0,08
UCX M6A 2E DAK	Univ.combi flashing 2	5,3	14	0,08
UCX M8A 2E DAK	Univ.combi flashing 2	5,8	14	0,08
UCX S6A 2E DAK	Univ.combi flashing 2	8,2	14	0,10
UCX U8A 2E DAK	Univ.combi flashing 2	9,0	14	0,10



PRODUCT SPECIFICATIONS

PRODUCT LOGISTICS DATA

Item code	Description	Gross Weight (kg)	Units per Pallet	Unit Volume (m³)
KTF C2A	Tile flashing C2A	3,7	18	0,05
KTF C4A	Tile flashing C4A	3,9	18	0,05
KTF C6A	Tile flashing C6A			
KTF F6A	Tile flashing F6A	4,6	18	0,06
KTF M4A	Tile flashing M4A	4,5	18	0,06
KTF M6A	Tile flashing M6A	4,8	18	0,06
KTF M8A	Tile flashing M8A	5,2	18	0,09
KTF S6A	Tile flashing S6A	5,8	18	0,08
KTF U8A	Tile flashing U8A	9,1	18	0,09
KSF C2A	Slate flashing C2A	3,5	18	0,05
KSF C4A	Slate flashing C4A	3,8	18	0,05
KSF F6A	Slate flashing F6A	4,5	18	0,06
KSF M4A	Slate flashing M4A	4,1	18	0,05
KSF M6A	Slate flashing M6A	4,7	18	0,06
KSF M8A	Slate flashing M8A	5,2	18	0,07
KSF S6A	Slate flashing S6A	7,7	18	0,07
KSF U8A	Slate flashing U8A	6,1	18	0,08
KFF C2A	Flush flashing C2A	4,1	18	0,05
KFF C4A	Flush flashing C4A	4,2	18	0,05
KFF F6A	Flush flashing F6A	6,1	18	0,05
KFF M4A	Flush flashing M4A	4,9	18	0,06
KFF M6A	Flush flashing M6A	5,1	18	0,06
KFF M8A	Flush flashing M8A	7,2	18	0,06
KFF S6A	Flush flashing S6A	6,1	18	0,07
KFF U8A	Flush flashing U8A	8,8	18	0,09
KFP C2A	Plain tile flashing C2A	5,5	18	0,05
KFP C4A	Plain tile flashing C4A	5,7	18	0,05
KFP F6A	Plain tile flashing F6A	6,1	18	0,06
KFP M4A	Plain tile flashing M4A	6,5	18	0,05
KFP M6A	Plain tile flashing M6A	6,8	18	0,06
KFP M8A	Plain tile flashing M8A	7,2	18	0,07
KFP S6A	Plain tile flashing S6A	7,7	18	0,07
KFP U8A	Plain tile flashing U8A	8,8	18	0,08



PRODUCT SPECIFICATIONS

PRODUCT LOGISTICS DATA

Item code	Description	Gross Weight (kg)	Units per Pallet	Unit Volume (m³)
KAV C2A B1000	Roof window 55x78	19,8	10	0,07
KAV C4A B1000	Roof window 55x98	23,7	10	0,09
KAV C6A B1000	Roof window 55x118			
KAV F6A B1000	Roof window 66x118	30,7	8	0,13
KAV M4A B1000	Roof window 78x98	30,7	7	0,12
KAV M6A B1000	Roof window 78x118	35,8	7	0,15
KAV M8A B1000	Roof window 78x140	40,5	7	0,18
KAV S6A B1000	Roof window 114x118	47,2	5	0,22
KAV U8A B1000	Roof window 134x140	59,5	6	0,30
KPV C2A B1000	Roof window PVC 55x78	19,9	10	0,07
KPV C4A B1000	Roof window PVC 55x98	23,9	10	0,09
KPV C6A B1000	Roof window PVC 55x118			
KPV F6A B1000	Roof window PVC 66x118	34,2	8	0,13
KPV M4A B1000	Roof window PVC 78x98	31,2	7	0,12
KPV M6A B1000	Roof window PVC 78x118	36,1	7	0,15
KPV M8A B1000	Roof window PVC 78x140	44,6	7	0,18
KPV S6A B1000	Roof window PVC 114x118	49,5	5	0,22
KHV C4A B1000	Roof window 55x98	23,7	10	0,09
KHV F6A B1000	Roof window 66x118	30,7	8	0,13
KHV M4A B1000	Roof window 78x98	30,7	7	0,12
KHV M6A B1000	Roof window 78x118	35,8	7	0,15
KHV M8A B1000	Roof window 78x140	40,5	7	0,18



PRODUCT IDENTIFICATION

Product identification code, nominal size, EAN code, weight and cubage information can be found on the **corner label** on the packaging:



Product identification code, batch code and link for Declaration of Performance document (DoP document) can be found on the **type plate** of the product on the top of the sash.



Full product code



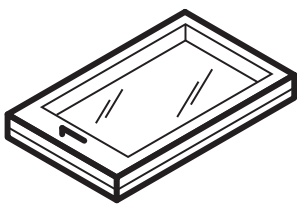
Batch code

**PACKAGING SHOULD BE UNDAMAGED.
IF THE BOX PACKAGING IS TORN OR BROKEN, IT MUST BE
DOCUMENTED DURING RECEIPT OF DELIVERY ACCORDING
TO THE DELIVERY AGREEMENT**



WHAT'S IN THE BOX – WINDOWS

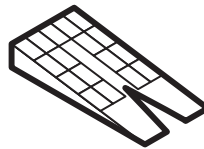
KAV B900/910



a



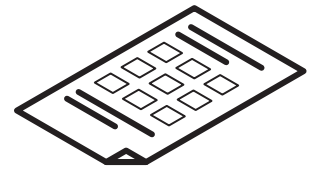
b



c



d



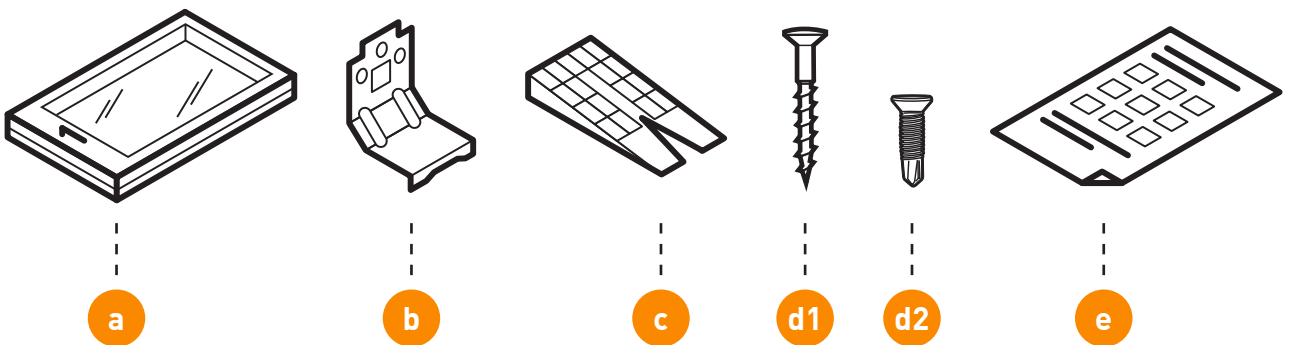
e

Ref.	Element description	Pcs.	Sizes
a	Window	1	All
b	Brackets	4	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		5	P6A, S6A, U4A
		6	M8A, M10A
		7	P8A, S8A, U8A
c	Wedge	1	All
d	Screws (in plastic bag)	18	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		27	M8A, M10A, P6A, S6A, U4A
		36	P8A, S8A, U8A
e	Installation manual	1	All



WHAT'S IN THE BOX – WINDOWS

KPV B900

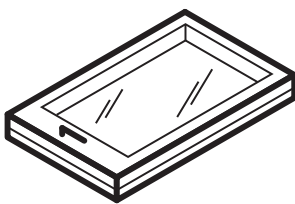


Ref.	Element description	Pcs.	Sizes
a	Window	1	All
b	Brackets	4	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		5	P6A, S6A, U4A
		6	M8A, M10A
c	Wedge	1	All
d1	Screws	18	All
d2	Self-tapping screws	10	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		12	P6A, S6A, U4A
		14	M8A, M10A
e	Installation manual	1	All

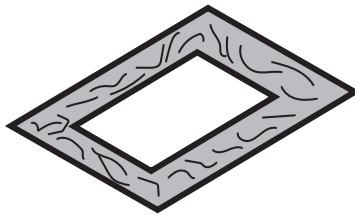


WHAT'S IN THE BOX – WINDOWS

KAV B1000/1010



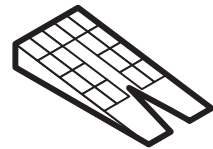
a



b



c

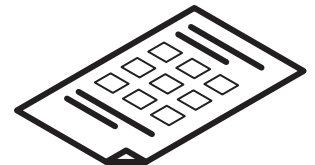


d



e

Ref.	Element description	Pcs.	Sizes
a	Window	1	All
b	Underfelt Foil Colar (RUC)	1	All
c	Brackets	4	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		5	P6A, S6A, U4A
		6	M8A, M10A
		7	P8A, S8A, U8A
d	Wedge	1	All
e	Screws (in plastic bag)	18	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		27	M8A, M10A, P6A, S6A, U4A
		36	P8A, S8A, U8A
f	Installation manual	1	All

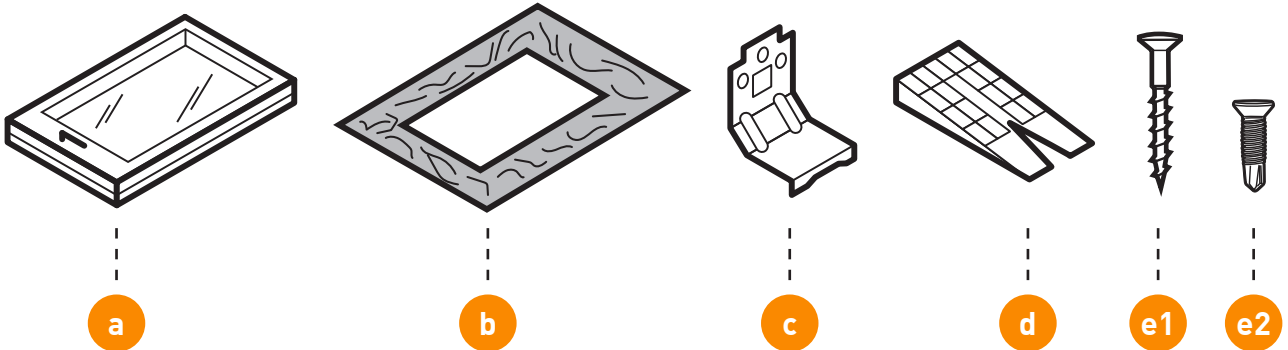


f

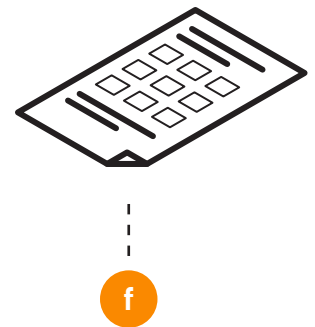


WHAT'S IN THE BOX – WINDOWS

KPV B1000

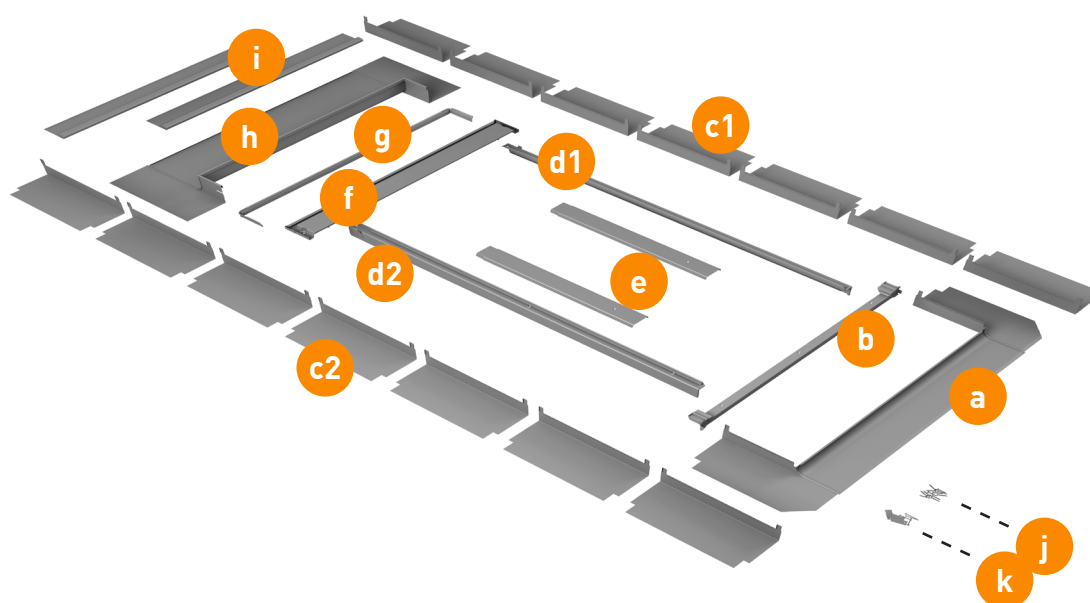


Ref.	Element description	Pcs.	Sizes
a	Window	1	All
b	Underfelt Foil Colar (RUC)	1	All
c	Brackets	4	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		5	S6A, P6A, U4A
		6	M8A, M10A
d	Wedge	1	All
e1	Screws	18	All
e2	Self-tapping screws	10	C2A, C4A, C6A, F4A, F6A, M4A, M6A
		12	S6A, P6A, U4A
		14	M8A, M10A
f	Installation manual	1	All



WHAT'S IN THE BOX – FLASHINGS

KSF



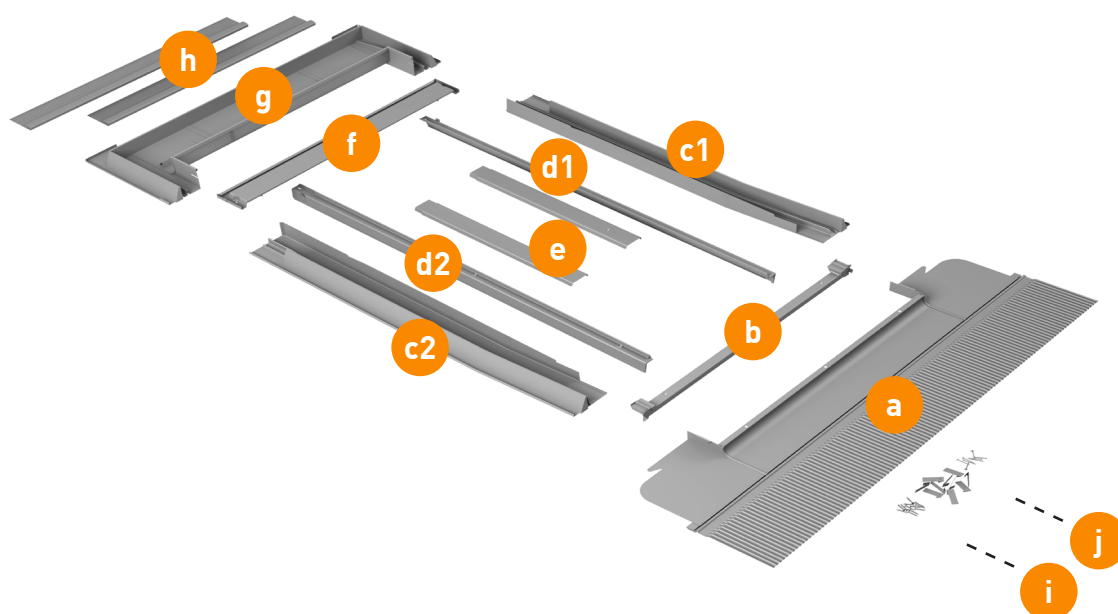
Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side pieces (right)	x2A	10
		x4A	12
		x6A	16
		x8A	18
		x10A	20
c2	Side pieces (left)	x2A	10
		x4A	12
		x6A	16
		x8A	18
		x10A	20
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1

Ref.	Element description	Sizes	Pcs.
e	Upper U-profile x2	All	2
f	Top frame covering	All	1
g	Additional piece for upper flashing element	All	1
h	Upper flashing element	All	1
i	Drainage gutter x2	All	2
j	Screws (in plastic bag)	All	1 set
k	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

KTF

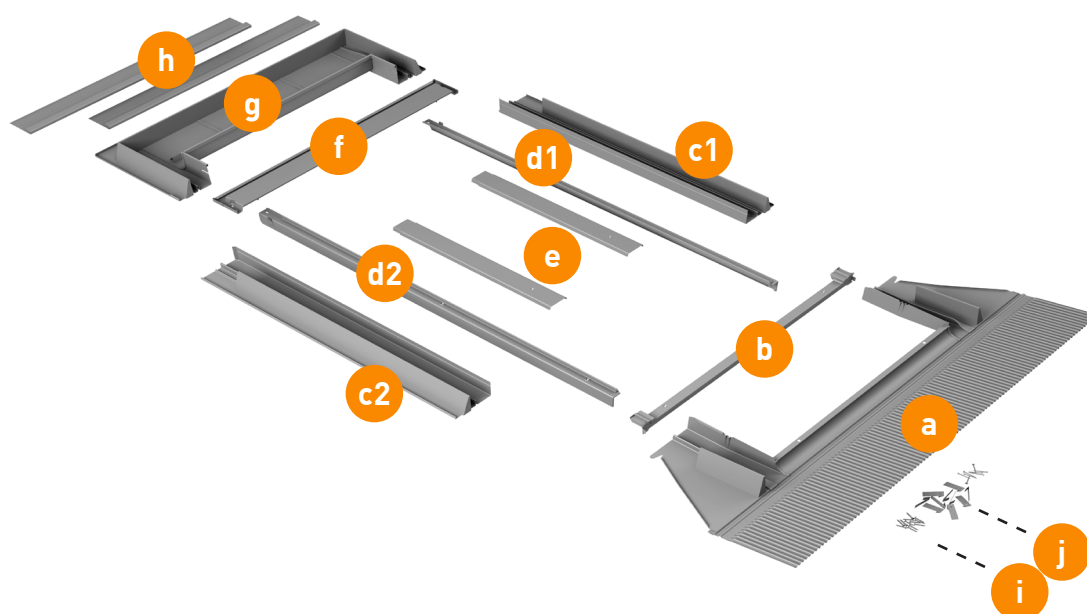


Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element with apron	All	1
b	Bottom frame covering	All	1
c1	Side flashing element (right)	All	1
c2	Side flashing element (left)	All	1
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1
e	Upper U-profile	All	2
f	Top frame covering	All	1
g	Upper flashing element	All	1
h	Drainage gutter	All	2
i	Screws (in plastic bag)	All	1 set
j	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

KUF

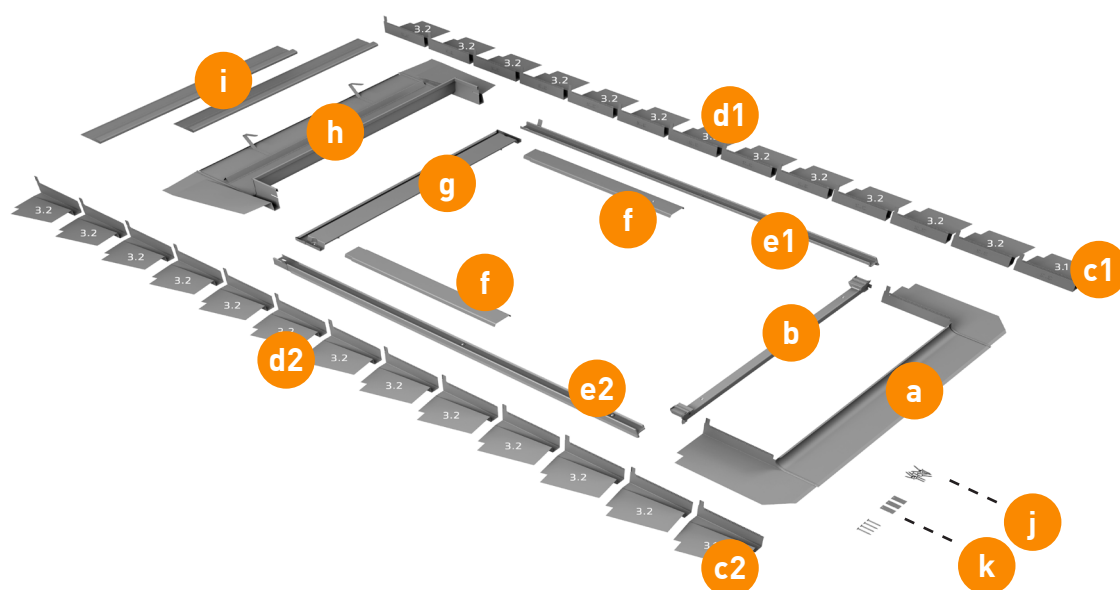


Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element with apron	All	1
b	Bottom frame covering	All	1
c1	Side flashing element (right)	All	1
c2	Side flashing element (left)	All	1
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1
e	Upper U-profile	All	2
f	Top frame covering	All	1
g	Upper flashing element	All	1
h	Drainage gutter	All	2
i	Screws (in plastic bag)	All	1 set
j	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

KFP & KFP VINTAGE



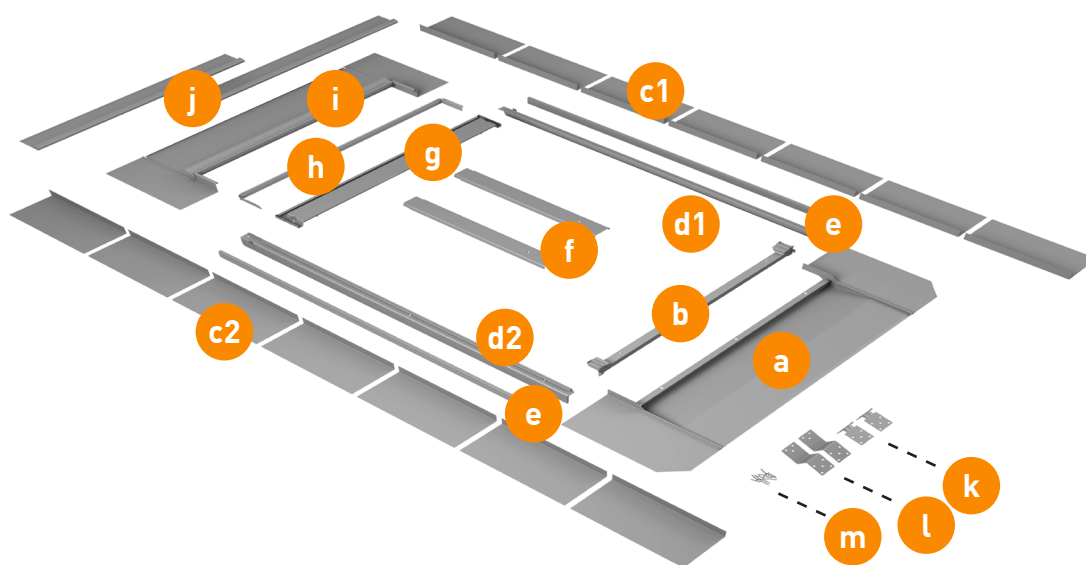
Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side piece (bottom right)	All	1
c2	Side piece (bottom left)	All	1
d1	Side pieces (right)	x2A	8
		x4A	10
		x6A	12
		x8A	15
		x10A	17pcs
d2	Side pieces (left)	x2A	8
		x4A	10
		x6A	12
		x8A	15
		x10A	17pcs

Ref.	Element description	Sizes	Pcs.
e1	Side frame covering (right)	All	1
e2	Side frame covering (left)	All	1
f	Upper U-profile	All	1
g	Top frame covering	All	1
h	Upper flashing element	All	1
i	Drainage gutter	All	1
j	Screws (in plastic bag)	All	1 set
k	Clamps and nails for bottom flashing (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

KFF & KFF VINTAGE



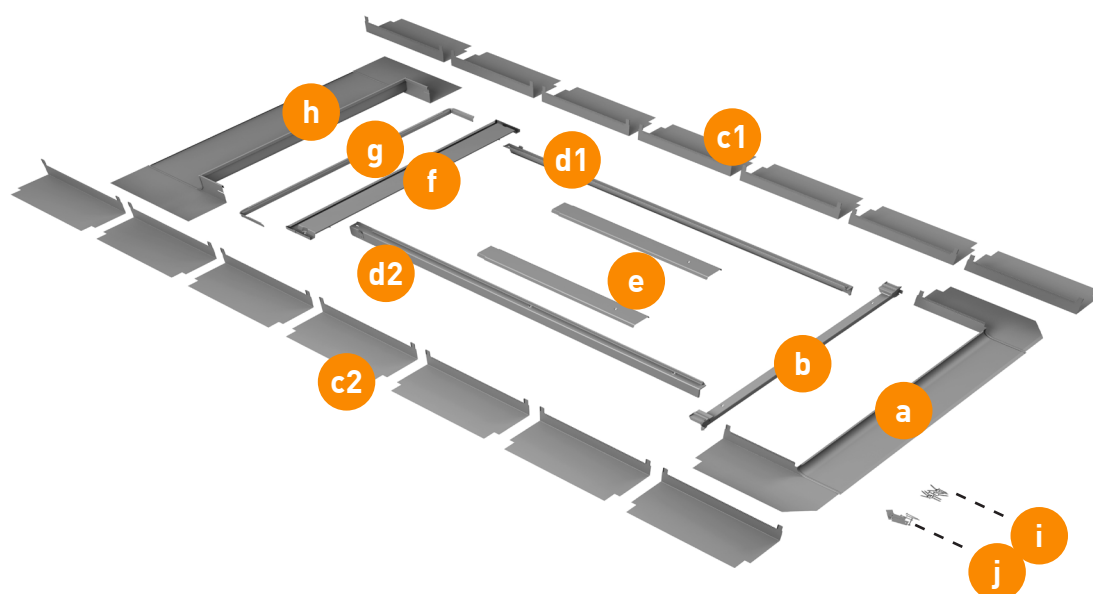
Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side pieces (right)	x2A	10
		x4A	12
		x6A	14
		x8A	16
		x10A	18
c2	Side pieces (left)	x2A	10
		x4A	12
		x6A	14
		x8A	16
		x10A	18
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1

Ref.	Element description	Sizes	Pcs.
e	Side foam for frame	All	2
f	Upper U-profile	All	2
g	Top frame covering	All	1
h	Additional piece for upper flashing element	All	1
i	Upper flashing element	All	1
j	Drainage gutter	All	2
k	Window lowering brackets	x2A	2
		x4A	2
		x6A	2
		x8A	4
		x10A	4pcs
l	Batten lowering bracket x2	All	1 set
m	Screws (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

SFX



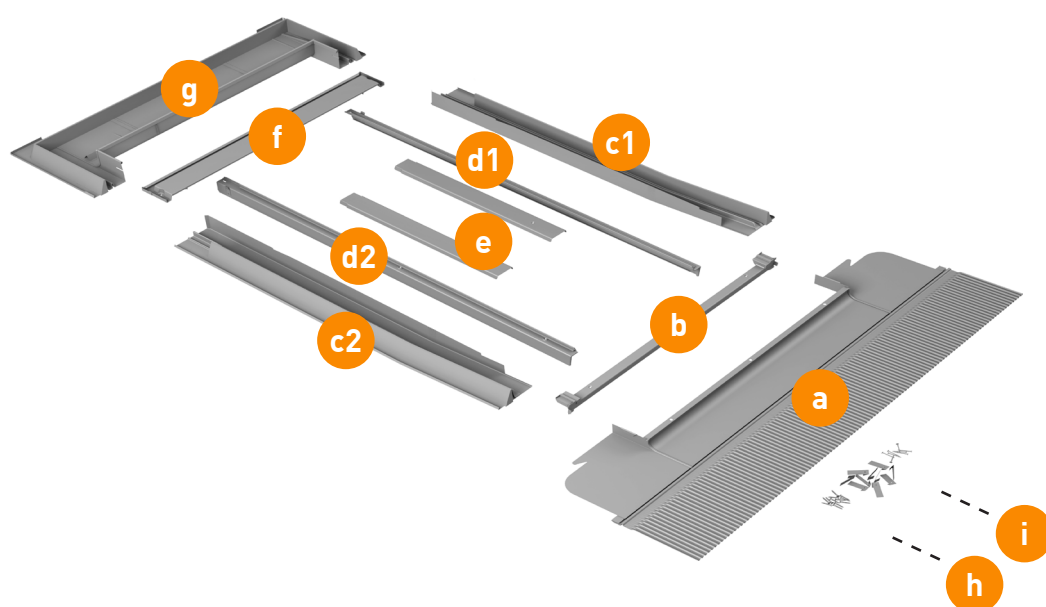
Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side pieces (right)	x2A	10
		x4A	12
		x6A	16
		x8A	18
		x10A	20
c2	Side pieces (left)	x2A	10
		x4A	12
		x6A	16
		x8A	18
		x10A	20

Ref.	Element description	Sizes	Pcs.
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1
e	Upper U-profile	All	2
f	Top frame covering	All	1
g	Additional piece for upper flashing element	All	1
h	Upper flashing element	All	1
i	Screws (in plastic bag)	All	1 set
j	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

TFX

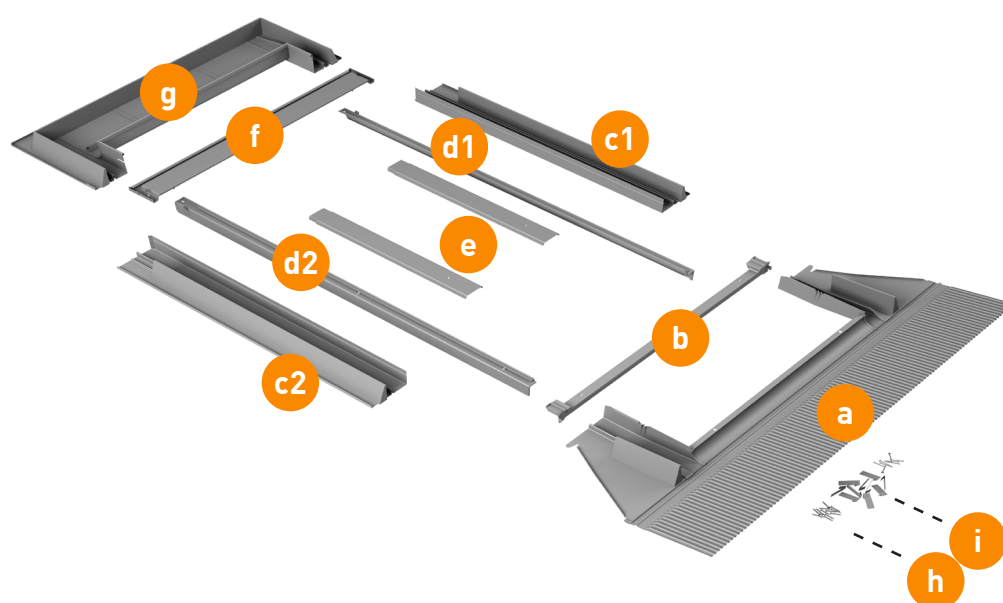


Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element with apron	All	1
b	Bottom frame covering	All	1
c1	Side flashing element (right)	All	1
c2	Side flashing element (left)	All	1
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1
e	Upper U-profile	All	2
f	Top frame covering	All	1
g	Upper flashing element	All	1
h	Screws (in plastic bag)	All	1 set
i	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

UFX

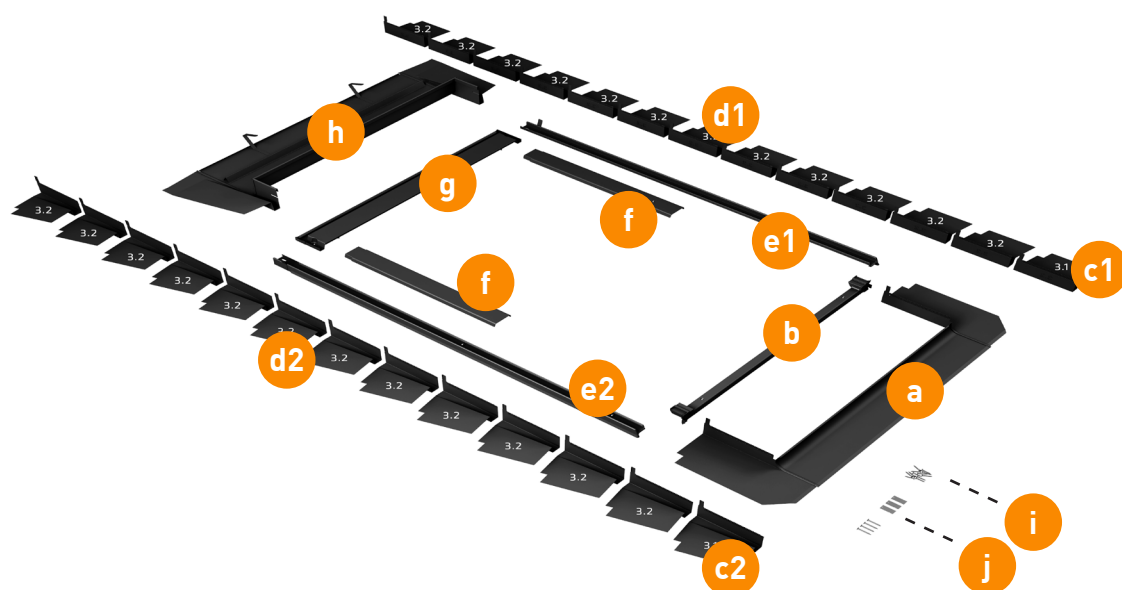


Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element with apron	All	1
b	Bottom frame covering	All	1
c1	Side flashing element (right)	All	1
c2	Side flashing element (left)	All	1
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1
e	Upper U-profile	All	2
f	Top frame covering	All	1
g	Upper flashing element	All	1
h	Screws (in plastic bag)	All	1 set
i	Nails and flaps (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

TFP VINTAGE



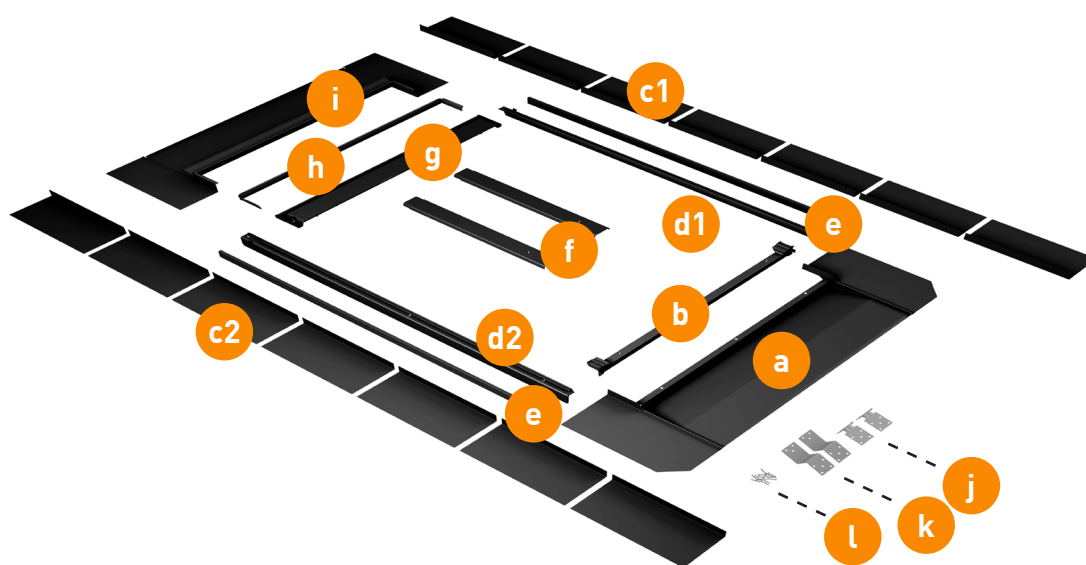
Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side piece (bottom right)	All	1
c2	Side piece (bottom left)	All	1
d1	Side pieces (right)	x2A	8
		x4A	10
		x6A	12
		x8A	15
		x10A	17
d2	Side pieces (left)	x2A	8
		x4A	10
		x6A	12
		x8A	15
		x10A	17

Ref.	Element description	Sizes	Pcs.
e1	Side frame covering (right)	All	1
e2	Side frame covering (left)	All	1
f	Upper U-profile	All	2
g	Top frame covering	All	1
h	Upper flashing element	All	1
i	Screws (in plastic bag)	All	1 set
j	Clamps and nails for bottom flashing (in plastic bag)	All	1 set



WHAT'S IN THE BOX – FLASHINGS

SFF VINTAGE



Ref.	Element description	Sizes	Pcs.
a	Bottom flashing element	All	1
b	Bottom frame covering	All	1
c1	Side pieces (right)	x2A	10
		x4A	12
		x6A	14
		x8A	16
		x10A	18
c2	Side pieces (left)	x2A	10
		x4A	12
		x6A	14
		x8A	16
		x10A	18
d1	Side frame covering (right)	All	1
d2	Side frame covering (left)	All	1

Ref.	Element description	Sizes	Pcs.
e	Side foam for frame	All	2
f	Upper U-profile	All	2
g	Top frame covering	All	1
h	Additional piece for upper flashing element	All	1
i	Upper flashing element	All	1
j	Window lowering brackets	x2A	2
		x4A	2
		x6A	2
		x8A	4
		x10A	4
k	Batten lowering bracket	All	2
l	Screws (in plastic bag)	All	1 set



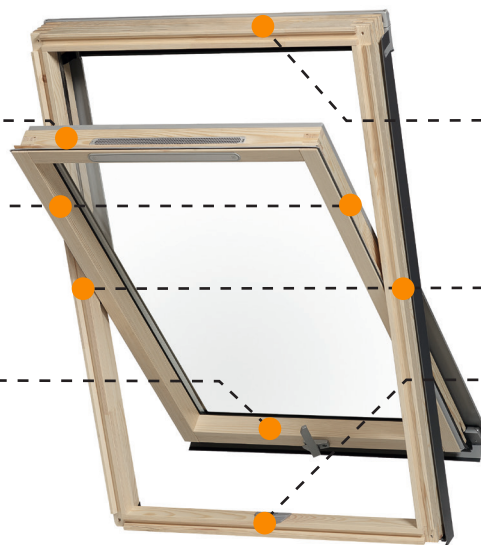
PARTS OF THE WINDOW

PARTS OF THE SASH

Top sash

Side sashes

Bottom sash



PARTS OF THE FRAME

Top frame

Side frames

Bottom frame

IN THE BOX

Top frame covering

Upper "U" profile for the frame

Side frame covering 2x (left & right)

Lower frame covering



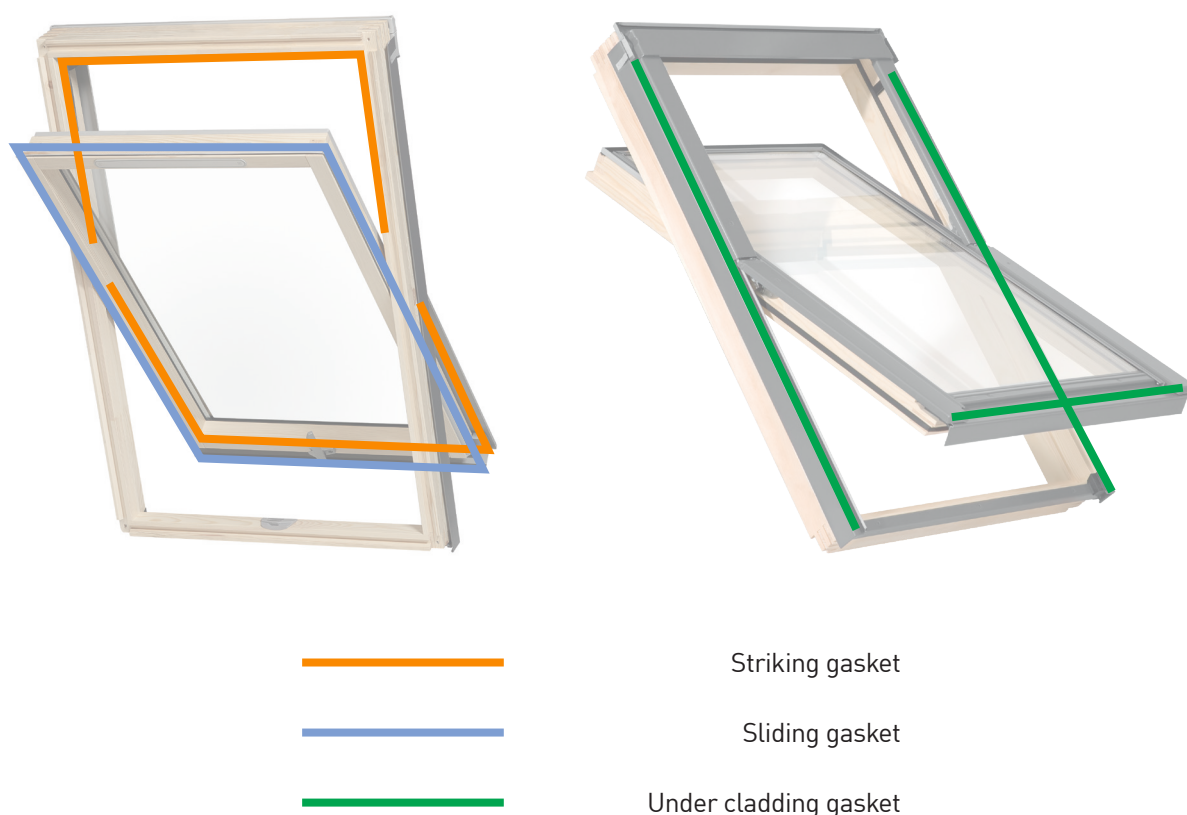
PREINSTALLED

Sash striking bead covering 2x

Sash bottom covering above the glass



PARTS OF THE WINDOW



IF ANY OF THE PRE-PACKED ELEMENTS ARE MISSING FROM THE PACKAGE, IT MUST BE REPORTED IMMEDIATELY TO THE ALTATERRA CUSTOMER SUPPORT TEAM ACCORDING TO THE DELIVERY AGREEMENT. PLEASE CONTACT ALTATERRA CUSTOMER SUPPORT TEAM OR OUR HOUSEBUILDER HOTLINE FOR FURTHER INFORMATION.



AVAILABLE SPARE PARTS

Product code.	Element description
	
HANX-DAK-PRO	Grey handle for KAV roof window
HANX-DAK-PRO-PVC	Grey handle for KPV roof window
	
CLX C2A	Cladding set for C2A roof window
CLX C4A	Cladding set for C4A roof window
CLX C6A	Cladding set for C6A roof window

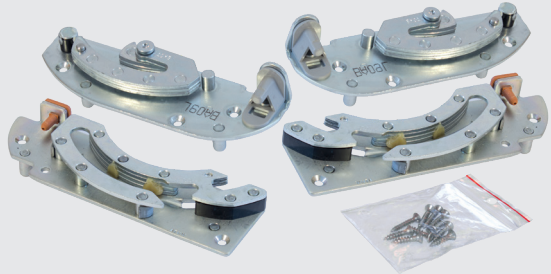

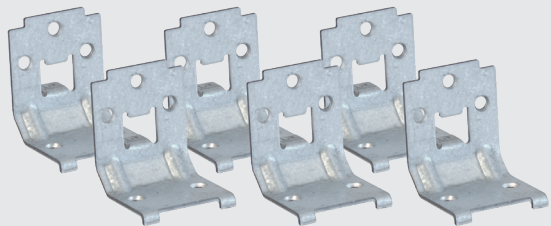
Product code.	Element description
CLX F4A	Cladding set for F4A roof window
CLX F6A	Cladding set for F6A roof window
CLX M4A	Cladding set for M4A roof window
CLX M6A	Cladding set for M6A roof window
CLX M8A	Cladding set for M8A roof window
CLX M10A	Cladding set for M10A roof window
CLX P6A	Cladding set for P6A roof window
CLX P8A	Cladding set for P8A roof window
CLX S6A	Cladding set for S6A roof window
CLX S8A	Cladding set for S8A roof window
CLX U4A	Cladding set for U4A roof window
CLX U8A	Cladding set for U8A roof window

If you would like to order any spare parts, please contact our Customer Support team at: cs@altaterra.eu or call our HOLTINE for further assistance.



AVAILABLE SPARE PARTS

Product code.	Element description
	
STRIPLAX AAX	Striking plate
	
UPX X2A	Sash striking bead covering for C2A
UPX X4A	Sash striking bead covering for C4A/M4A
UPX X6A	Sash striking bead covering F6A/M6A/S6A
UPX X8A	Sash striking bead covering for M8A

Product code.	Element description
	
HINGEX	Hinge & Screws
	
VENTIL_DAK	Ventilation Unit for DAKA
	
MBXPACK	6 pcs Mounting Brackets with plastic wedge and screws*

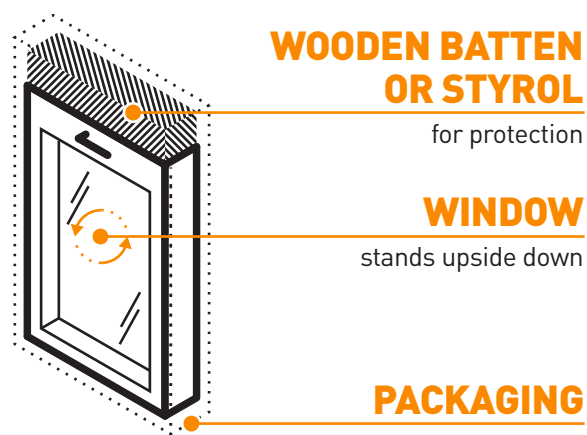
*screws are suitable for wooden windows only!

If you would like to order any spare parts, please contact our Customer Support team at:
cs@altaterra.eu or call our HOLTINE for further assistance.

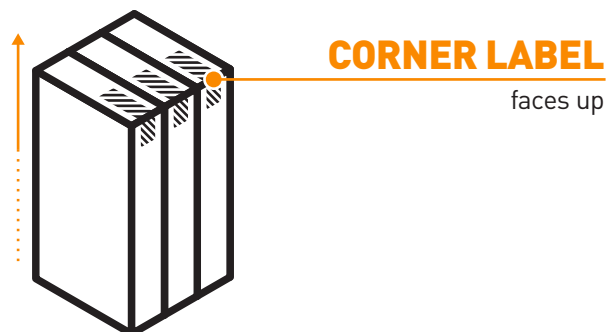


HOW TO STORE ROOF WINDOWS

The roof window stands upside down within the packaging, so the top of the frame is flat. On the bottom of the window there is a wooden protection batten for wooden windows and styrol protection for PVC windows which has to be removed before installation.



The roof window should be stored in the standing (vertical) position so that the corner label on the box faces up (not upside down).



If the roof window has been taken out of the box for any reason, it is important that it should not be stored separately, without packaging. Because of the position of the pane, the roof window is not balanced and the centre of gravity is not exactly in the middle of the box.



ALWAYS MAKE SURE THAT THE ROOF WINDOW STANDS SECURELY.



WHAT TO CHECK BEFORE INSTALLATION?

1. Roof windows should only be installed in heated, inhabited rooms. For unheated rooms like attics or garages, skylight products should be used.
2. In rooms with high levels of humidity, you should install a PVC roof window. PVC is resistant to humidity.
3. The roof pitch is important when choosing windows and flashings. Most Dakea products can be used in roof pitches of 15° to 90°, but there are some special cases. Recessed installation (KFF flashing) can be installed in roof pitch of 20° to 90° and plain tile roofing material (KFP flashing) in roof pitches of 25° to 90°.
4. The type of flashing you use when installing the windows will depend on whether you're installing one window or a combination of windows. If you're installing a combination of windows you should use the UCX flashing.
5. The type of roofing material you're installing into will also determine the type of flashing to be used to make sure the windows are water tight. There are three standard and two special types of flashing in the Dakea range for solo installations:

WHICH FLASHING TO CHOOSE?

KSF: FOR SLATE ROOFING MATERIALS, TAKING INTO ACCOUNT THE OVERLAP, THE MAXIMUM TOTAL THICKNESS IS 16 MM

KTF: FOR TILE OR PROFILED METAL SHEET FROM 16 TO 50 MM PROFILE HEIGHT

KUF: FOR TILE OR PROFILED METAL SHEET FROM 16 TO 120 MM PROFILE HEIGHT

KFP: FOR PLAIN TILE WITH A PROFILE HEIGHT OF 14MM AND MAXIMUM LENGTH OF 340 MM

KFF: FOR SLATE ROOFING MATERIALS, CONSIDERING OVERLAPPING THE MAXIMUM TOTAL THICKNESS IS 16 MM. KFF FLASHING ENSURES 40 MM DEEPER INSTALLATION WITH BETTER ENERGY PERFORMANCE AND AESTHETICAL BENEFITS.



PREPARING THE ROOF OPENING

POSITIONING THE ROOF WINDOW IN THE ROOM

Position the roof window in the room taking into account:

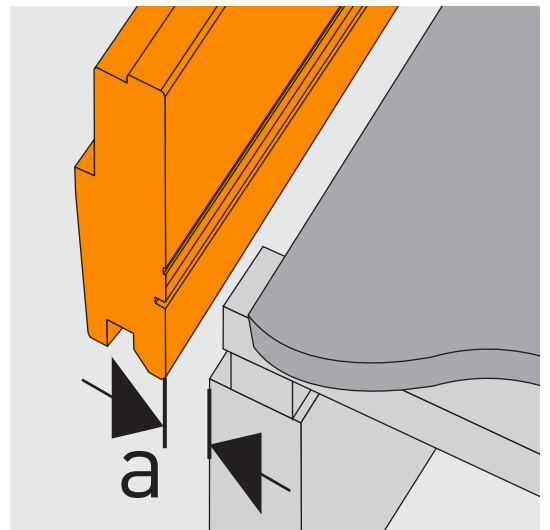
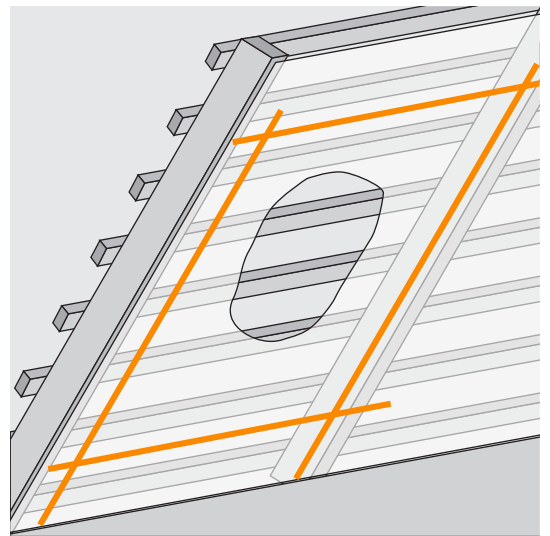
- the use of the room
- whether you want a clear view when standing/seated
- comfortable operation
- optimum design of linings
- building regulation requirements

HOLE IN THE ROOF

First consult the installation instructions supplied with the window. If there is no access to the roof from the outside, make a hole in the roof surface by cutting a small hole, approx. 400 × 400 mm, from the inside through the roof construction. When battens have been cleared, the final position of the window in the roof construction can be determined. When measuring, be sure to allow space for insulation around the window frame.

POSITIONING THE ROOF WINDOW

To minimise the need for adjustment of the roofing material, adjust the position of the roof window sideways, if possible. When adjusting sideways, be sure to allow for the recommended distance between rafter/trimmer (a).



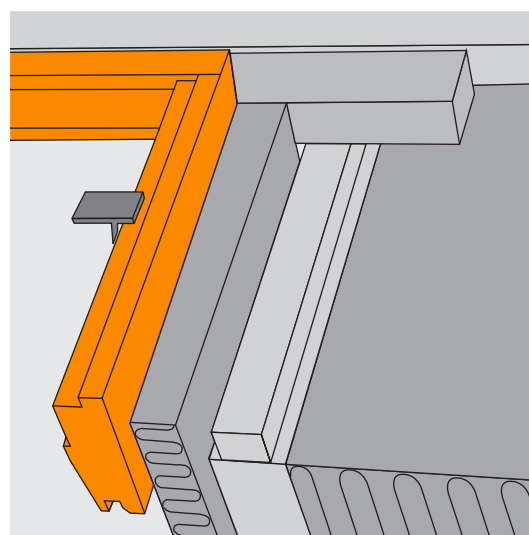
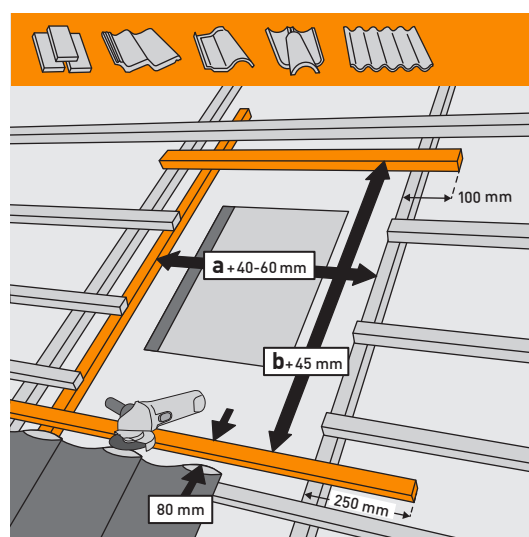
ADJUSTING THE POSITION

ADJUSTING THE POSITION

Adjust the position of the roof window upwards/downwards depending on the type of flashing. Always read the installation instructions before you start. In roofs with:

- profiled roofing materials, allow for a full course of tiles below the roof window
- slates, ensure necessary overlap between slates and flashing

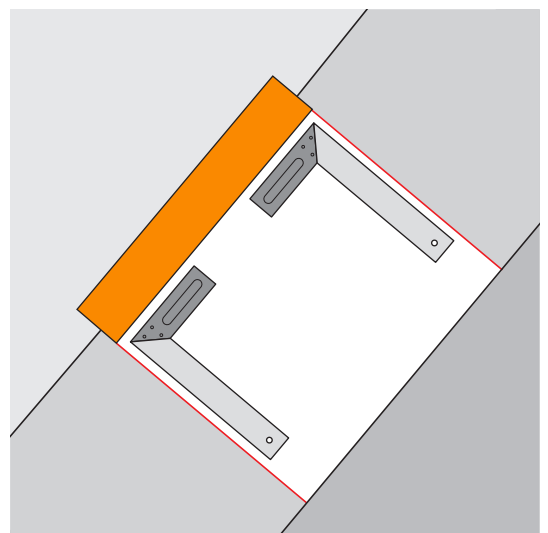
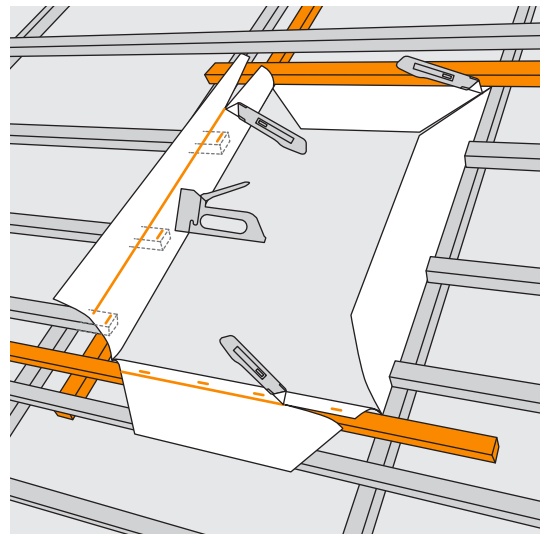
To allow for correct insulation around the frame, allow space for 20–30 mm insulation / side and 45 mm vertically due to the bracket geometry.



PREPARING THE OPENING

HOLE IN UNDERROOF AND INTERIOR CEILING FINISH

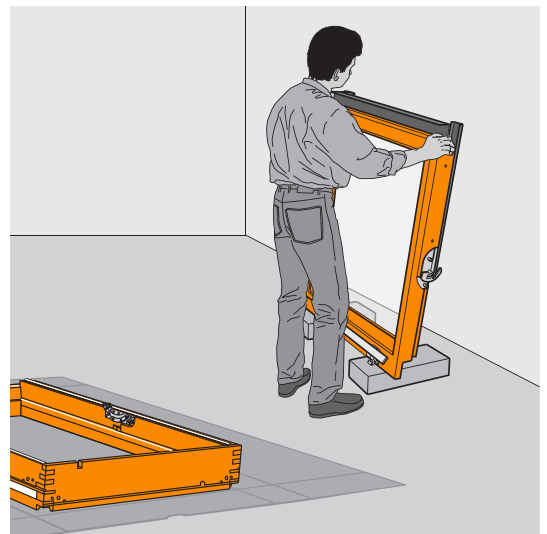
Roofing felt can be cut as shown and folded in order to ensure water tightness. If the underroof is rigid, make a hole in the underroof the same size as the hole in the roof surface. In a roof with an existing interior ceiling finish, it is necessary to cut a temporary rough opening in order to install the roof window. Project frame dimensions perpendicular to the ceiling finish, mark and cut hole. Note that it must be possible to connect the vapour barrier within the existing roof construction (if present) with the new vapour barrier around the roof window. The final adjustments of the hole in the ceiling finish should not be made until the lining kit or lining has been installed.



PREPARING THE ROOF WINDOW

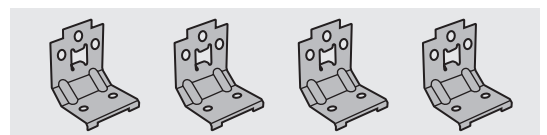
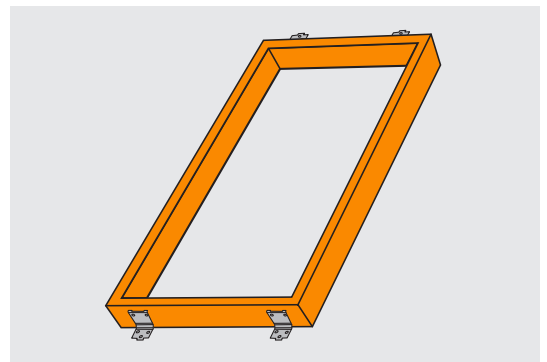
REMOVING SASH

The sash can be removed to facilitate the installation of the roof window. Place the sash with the top of the sash downwards on a clean and even surface. Make sure that the gasket on top of the sash is not compressed.



INSTALLATION BRACKETS

As standard, installation brackets are supplied with the roof window. The brackets must be fitted to the frame prior to positioning the window in the roof.



NOTE THAT THE POSITIONING OF THE BRACKETS ON THE FRAME DEPENDS ON THE FLASHING BEING USED.

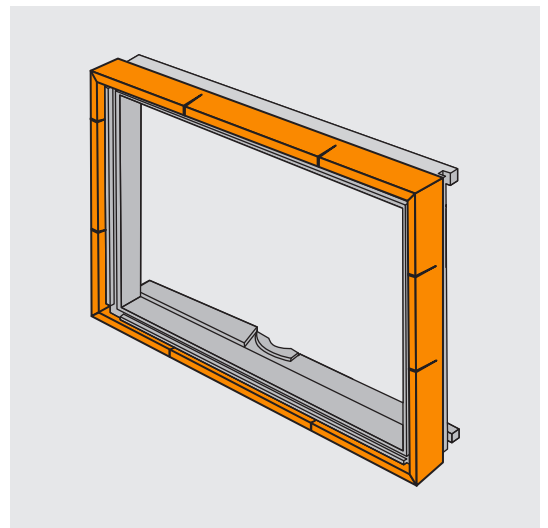
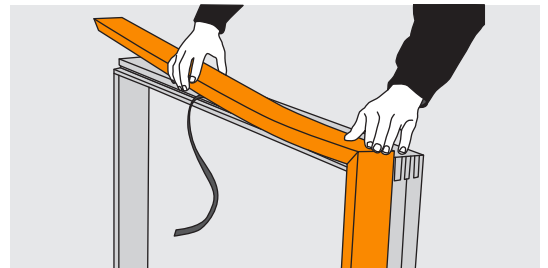
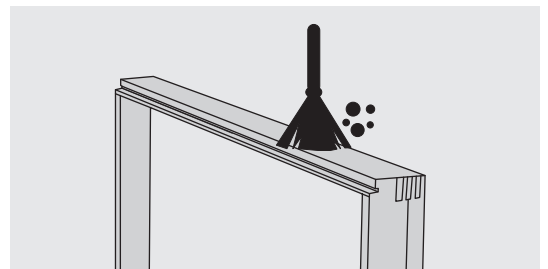


PREPARING THE ROOF WINDOW

IFC – INSULATING FOAM COLLAR

The Insulation Foam Collar forms an insulating frame around the window and restricts heat loss. It ensures faster and faultless installation.

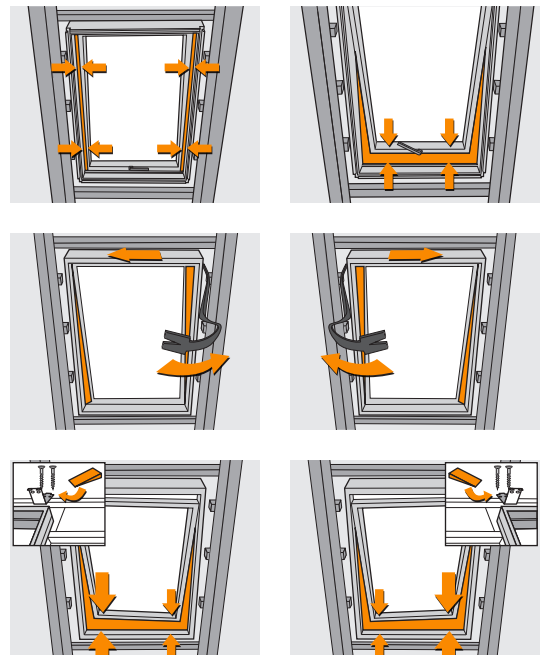
The Insulation Foam Collar is pre-cut so all you have to do is stick it on using the adhesive side.



FIXING AND ADJUSTING THE ROOF WINDOW

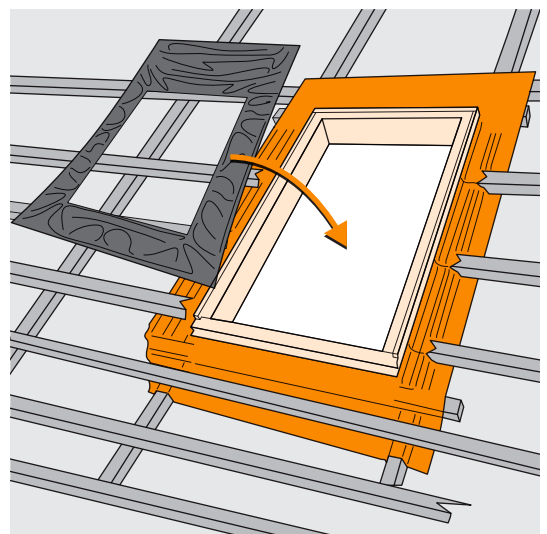
FIXING AND ADJUSTING THE ROOF WINDOW

It is important to adjust the square and level of the roof window to ensure a weather tight seal between the sash and frame and for optimum operation. Level the bottom frame and fix it at the bottom. Adjust the distance between the frame and the sash to ensure that the sides are parallel. Then make sure that the bottom frame and bottom sash are also parallel. If uneven rafters cause the frame to twist, adjust the frame using the variable thickness support plate supplied. Having adjusted the roof window, fix it as described in the installation instructions.



RUC UNDERFELT FOIL COLLAR

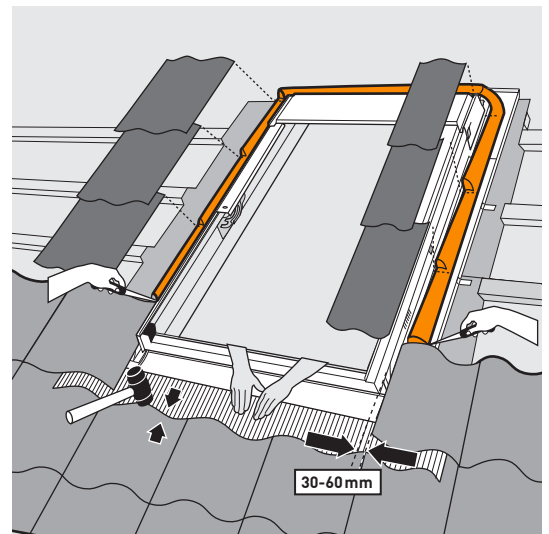
For the easiest connection to underfelt, use the underfelt collar RUC. The underfelt collar is made of diffusion open material and can therefore be used for both ventilated and unventilated roof constructions. The underfelt collar comes in one piece, cut exactly to fit the window so you don't need to cut it. Position the drainage gutter immediately above the first continuous batten above the roof window so that it can drain off water from the underfelt above the roof window.



FLASHING INSTALLATION – RECOMMENDATIONS

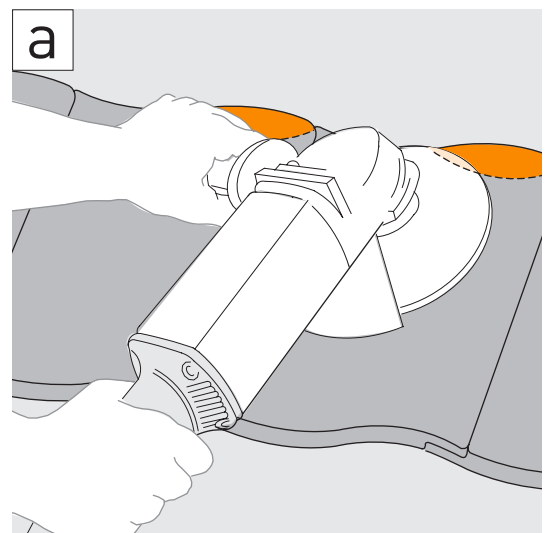
FLASHINGS FOR TILES

When installing flashings onto profiled roofing materials it's important that both foam gaskets and the flexible part of the bottom flashing section fit tightly to the roofing material to avoid drizzle, drifting snow or driving rain entering under the flashing.



STEP A

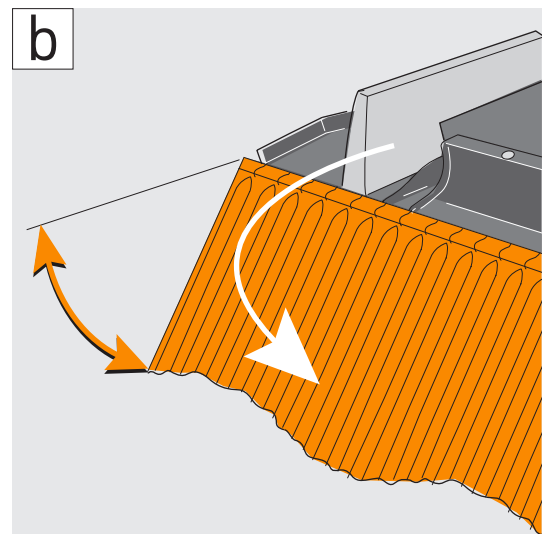
For installations using KTF or KUF flashing variants (depending on the tile height), it is recommended to chamfer the roofing material below the roof window before fitting the bottom flashing section.



FLASHING INSTALLATION – RECOMMENDATIONS

STEP B

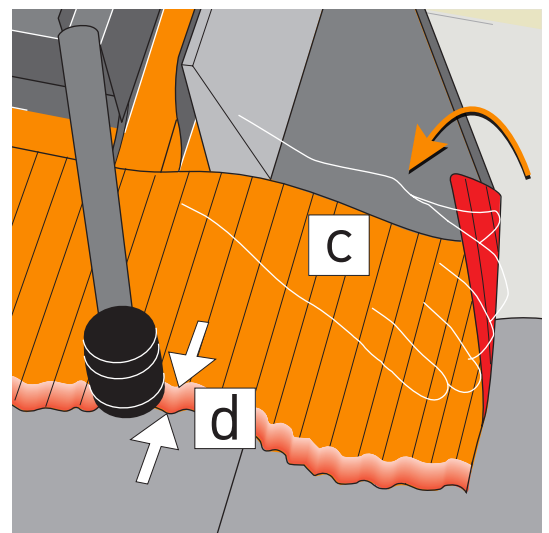
To ensure optimum installation, position the bottom flashing section temporarily and shape the flexible part to the profile of the roofing material. Remove the flashing and then bend the flexible part slightly before re-positioning and fixing the flashing to the bottom frame of the window. Bending the flexible part ensures a tight connection to the roofing material.



STEPS C AND D

Fold in the bottom side of the flashing section at the sides. In shallow pitched roofs, this is particularly important as an extra guarantee against water ingress.

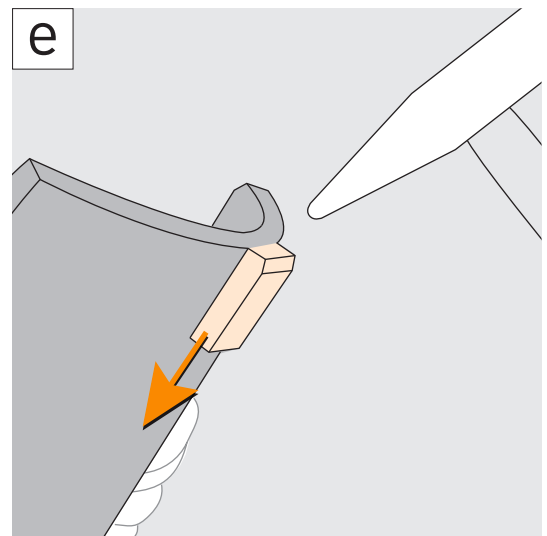
The front edge of the flexible part of the bottom flashing section may be dressed further to fit tightly to the roofing material.



FLASHING INSTALLATION – RECOMMENDATIONS

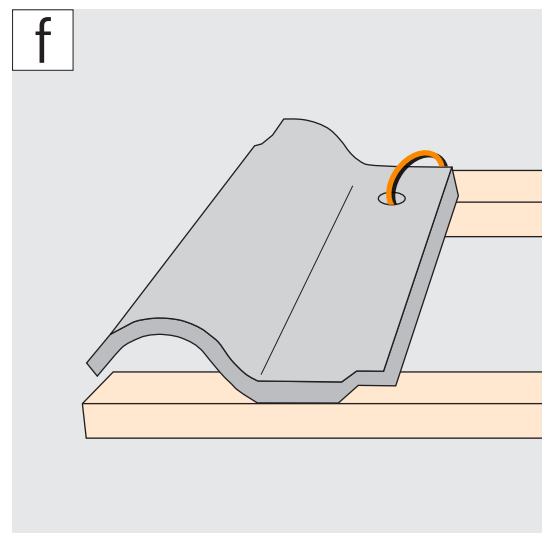
STEP E

To allow for correct overlap between the roofing material and the flashing, it may be necessary to remove a nib from the tile.



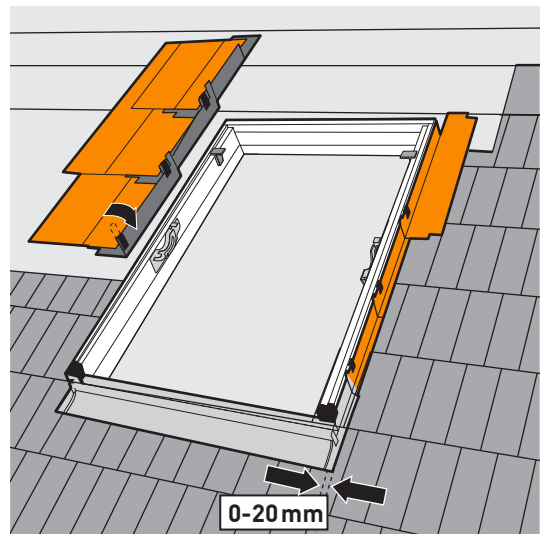
STEP F

As screws must not be fitted in the flashing, it may in some cases be necessary to secure tiles with wire and/or adhere to the adjoining tile with appropriate sealant if possible.



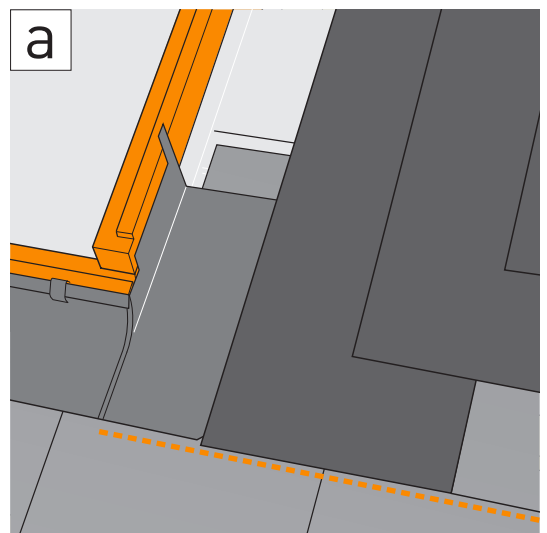
FLASHING INSTALLATION – RECOMMENDATIONS

FLASHINGS FOR SLATES



STEP A

When installing flashings in slated roofs or similar roofing materials, it is important that the bottom flashing section overlaps the roofing material with at least the same overlap as applies to the roofing material in general.



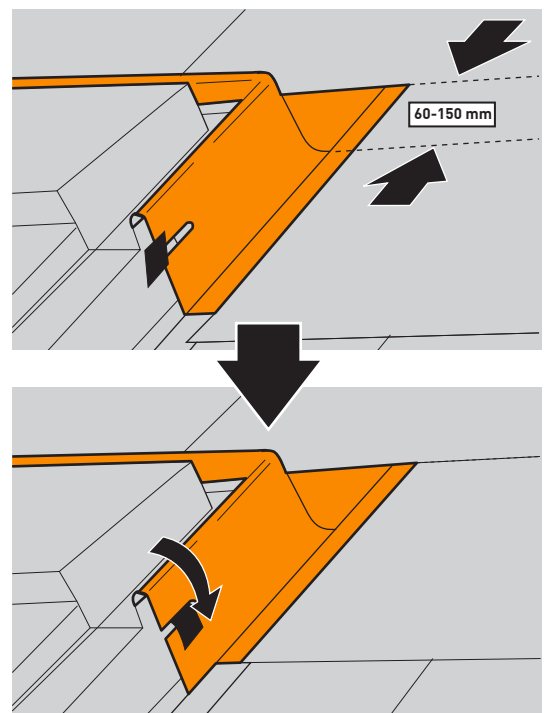
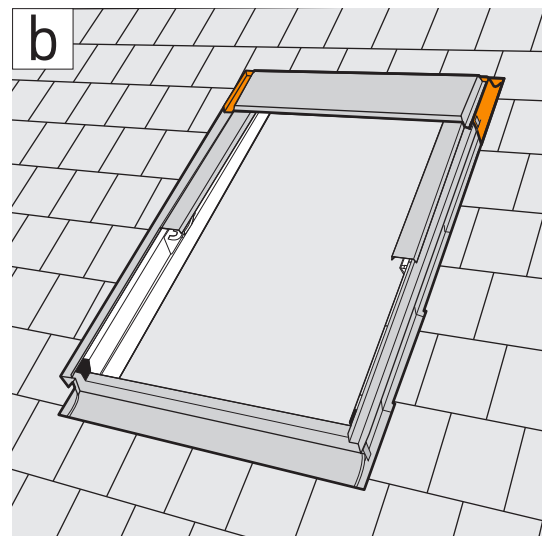
FLASHING INSTALLATION – RECOMMENDATIONS

STEP B

To provide the best possible drainage around the roof window, make sure the distances between the roofing material and the window comply with the installation instructions.

When using flashing KSF, the top flashing section must fit tightly to the window top cover. As the top flashing section follows the slate course, it will in some cases lift too much. In these situations, the filler piece supplied must be used to fill the gap.

The same problem might occur when installing in roofs with roofing felt where numerous layers of felt can lift the top flashing section. Here too, it is important to use the filler piece to ensure a tight connection.

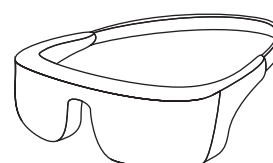
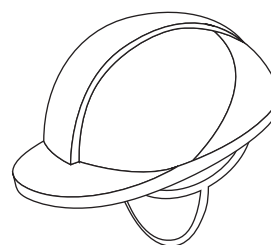


HEALTH AND SAFETY

Installation instructions showing the the correct method of installation are supplied with every Dakea product. Handling of the product – from delivery to finished installation in the roof – depends on the product type and size and the installation conditions present. In many cases, Dakea roof windows may be installed from the inside so that working on the roof is avoided.

In some cases it is, however, necessary to carry out part of the installation from the outside, and in these cases it is important to take all necessary protective measures against the risk of falling and dropping items, in accordance with the provisions of the Health and Safety at Work Act.

Safety measures to be taken depend on the conditions on the building site and are the full responsibility of the person(s) involved in the work being carried out.



CERTIFICATE

CERTIFICATION CODE: CU-COC-812137

Field of attention:
FSC Chain of Custody (COC)

Issued to:
Altaterra Kft
Fertod, HUNGARY
Project in: HUNGARY

Standard:
FSC-STD-40-004 V2-0 FSC Standard for Chain of Custody Certification
FSC-STD-50-001 (V1-2) Requirements for use of the FSC trademarks by Certificate Holders
FSC-STD-40-004 V2-1 FSC Standard for Chain of Custody Certification

Valid until: 01 December 2020

The validity of this certificate shall be verified on <http://info.fsc.org/>

Control Union Certifications declares to have inspected the unit(s), and/or products of the above mentioned certificate holder, and have found them in accordance with the standards mentioned above.

This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate. A full list of product groups covered by the certificate can be found on the FSC database of registered certificates (<http://info.fsc.org/>).

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.

This certificate is in force until further notice, provided that the above-mentioned client continues meeting the conditions as laid down in the client contract with Control Union Certifications. Based on the annual inspections that Control Union Certifications performs, this certificate is updated and kept into force.

Date of certification:
02 December 2015
Place and date of issue:
Zielona Góra, 02 December 2015

CERTIFICATE No: C812137CU-COC-01.2015
REGISTRATION No: CU 812137



The mark of
responsible forestry

Declared by:

On behalf of the Managing Director

Mr. HS Jurczyszyn

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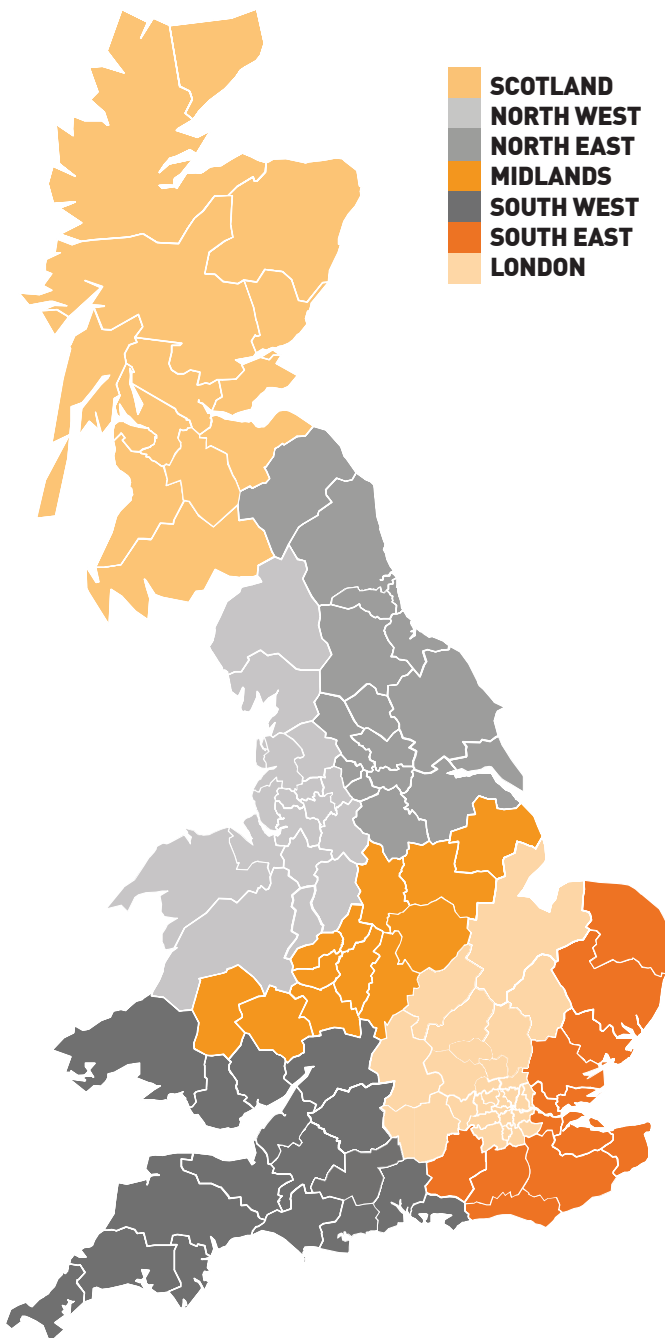
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