

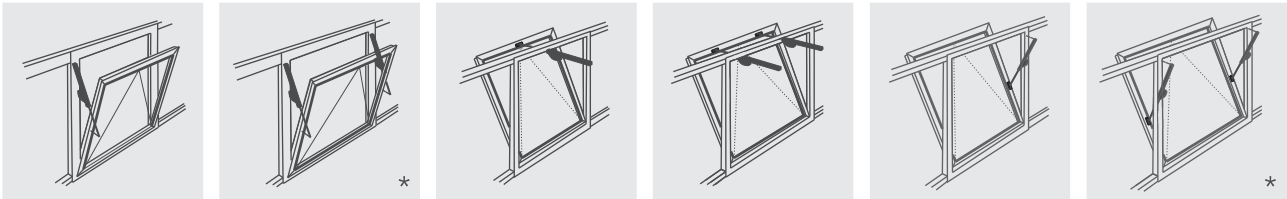
### SPECIAL FEATURES LKS

- For natural ventilation and smoke and heat exhausting
- Robust corrosion-resistant design
- Slim natural anodised aluminium housing (30 x 30 mm)
- Grey plastic housing for motor-gear unit
- Easy installation due to adjustable clamp ring as well as front and rear suspension
- Chromated stainless steel rack with end position dampening

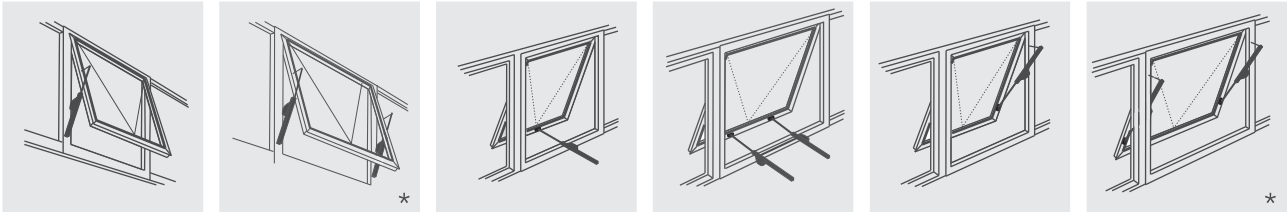
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804. The LCA results of the different product types are listed at the end of this product catalogue. The EPD documents can be viewed or downloaded from our homepage [www.aumueller-gmbh.de](http://www.aumueller-gmbh.de).

## FACADE

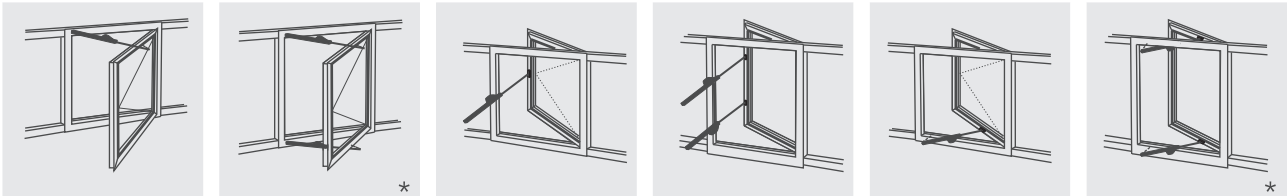
Bottom-hung



Top-hung

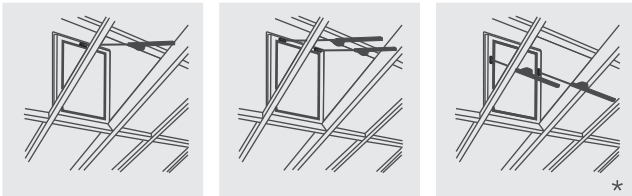


Side-hung

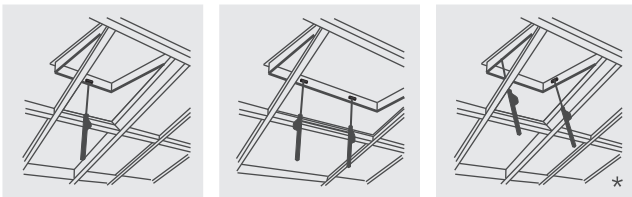


## ROOF

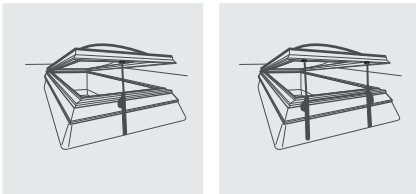
Bottom-hung



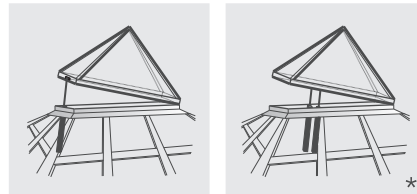
Top-hung



Sky light



Glass pyramid

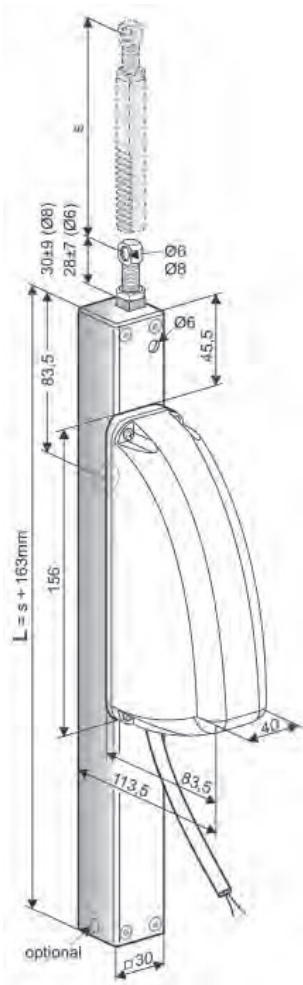


\* Monitored motion run up to  $s = 300$  mm with USKM (Controll modul Part.-No.: 512140)

- Application: natural ventilation and SHEV as single-drive
- Internal load dependent cut-off switch S2

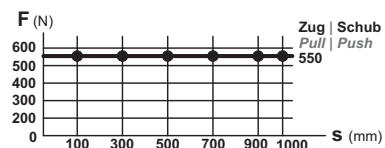
### Options

- Drillings for front / rear suspension
- Monitored motion run of 2 drives up to  $s = 300$  mm via USKM



### TECHNICAL DATA

$U_N$	Rated voltage	24V DC (19 V ... 28 V)
$I_N$	Rated current	0,6 A
$I_A$	Cut-off current	0,8 A
$P_N$	Rated power	15 W
<b>DC</b>	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 54
	Ambient temperature range	-5 °C ... +60 °C
$F_Z$	Pulling force max.	550 N
$F_A$	Pushing force max.	



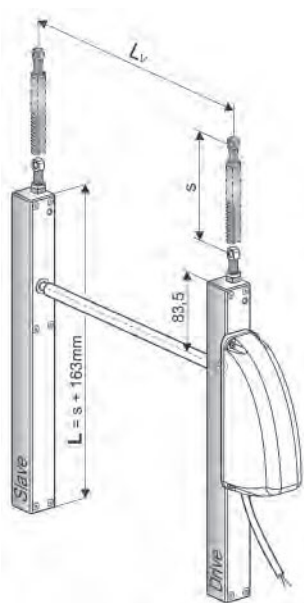
$F_H$	Pullout force	3000 N (fastening depended)
	Rack	stainless steel
	Connecting cable	non-halogen, grey 2 x 0,75 mm <sup>2</sup> , ~ 1 m
$v$	Speed	$\leftarrow$ 6,0 mm/s $\rightarrow$ 6,0 mm/s
$s$	Stroke	100 – 1000 mm
$L$	Length	s + 163 mm see order data
	Sound pressure level	≤ 70 dB (A)

**ORDER DATA**

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.			
100	263	LKS 100 S2	E6/C-0	1	513100.N			
200	363	LKS 200 S2	E6/C-0	1	513200.N			
300	463	LKS 300 S2	E6/C-0	1	513300.N			
400	563	LKS 400 S2	E6/C-0	1	513400.N			
500	663	LKS 500 S2	E6/C-0	1	513500.N			
600	763	LKS 600 S2	E6/C-0	1	513600.N			
750	913	LKS 750 S2	E6/C-0	1	513800.N			
1000	1163	LKS 1000 S2	E6/C-0	1	513805.N			

**OPTIONS**

Special model		PU/pcs.	Part.-No.			
<b>Drive housing painted/powder coated in other RAL colours</b>						
<b>Lump sum for coating</b>			516030			
Specify at order stage:		1 – 20	516004			
		21 – 50	516004			
		51 – 100	516004			
		from 101	516004			
<b>Extra length connecting cable:</b>						
3 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501023			
5 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501024			
10 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501026			
<b>Accessories for front / rear suspension</b>						
2 additional holes Ø6 mm in the bottom of housing for rear suspension with K28, K29		1	520901			
<b>Mechanic stroke reduction</b>						
Stroke reduction without construction length - mechanically		1	516000			
<b>Other lengths available on request</b>						
<b>Tandem control with or without sequence control</b>		PU/pcs.	Part.-No.			
<b>Connection shaft</b>						
USKM (s ≤ 300mm)		1	512140			



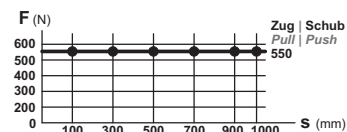
- Application: natural ventilation and SHEV as single-drive
- Internal load dependent cut-off switch S2
- Drive with follower operated by the connection shaft to divide the force on 2 points

### Options

- Drillings for front / rear suspension
- Connection shaft with different lengths

### TECHNICAL DATA

$U_N$	Rated voltage	24V DC (19 V ... 28 V)
$I_N$	Rated current	0,6 A
$I_A$	Cut-off current	0,8 A
$P_N$	Rated power	15 W
<b>DC</b>	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 54
	Ambient temperature range	-5 °C ... +60 °C
$F_Z$	Pulling force max.	550 N
$F_A$	Pushing force max.	



$F_H$	Pullout force	3000 N (fastening depended)
	Rack	stainless steel
	Connecting cable	non-halogen, grey 2 x 0,75 mm <sup>2</sup> , ~ 1 m
$v$	Speed	$\nabla$ 6,0 mm/s $\searrow$ 6,0 mm/s
$s$	Stroke	300 – 1000 mm
$L$	Length	s + 163 mm see order data
$L_v$	Connection shaft	Standard length see order data
	Sound pressure level	≤ 70 dB (A)

## ORDER DATA

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.			
300	463	LKS T 300 S2	E6/C-0	1	513300.T			
500	563	LKS T 500 S2	E6/C-0	1	513500.T			
600	663	LKS T 600 S2	E6/C-0	1	513600.T			
750	913	LKS T 750 S2	E6/C-0	1	513800.T			
1000	1163	LKS T 1000 S2	E6/C-0	1	513805.T			

## OPTIONS


Special model		PU/pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours						
Lump sum for coating			516030			
Specify at order stage:		1 – 20	516004			
		21 – 50	516004			
		51 – 100	516004			
		from 101	516004			
Extra length connecting cable:						
3 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501023			
5 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501024			
10 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501026			
Accessories for front / rear suspension						
2 additional holes Ø6 mm in the bottom of housing for rear suspension with K28, K29		1	520901			
Mechanic stroke reduction						
Stroke reduction without construction length - mechanically		1	516000			
Other lengths available on request						
Accessories	Lv [mm]	PU/pcs.	Part.-No.			
Connection shaft						
B17-1	1000	1	513050			
B17-2	1500	1	513052			
B17-3	2000	1	513054			

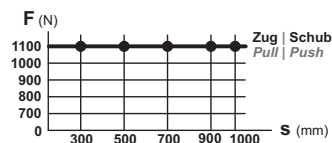
- Application: natural ventilation and SHEV as single-drive
- Internal load dependent cut-off switch S2
- 2 drives mechanical synchronised by the connection shaft

### Options

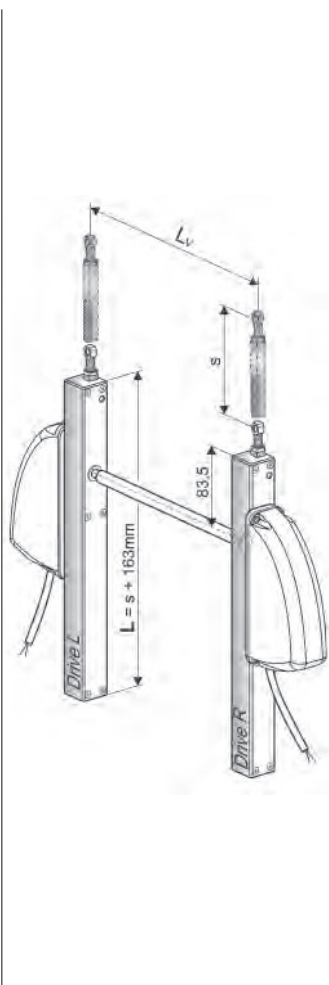
- Drillings for front / rear suspension
- Connection shaft with different lengths

### TECHNICAL DATA

$U_N$	Rated voltage	24V DC (19 V ... 28 V)
$I_N$	Rated current	1,2 A
$I_A$	Cut-off current	1,6 A
$P_N$	Rated power	30 W
<b>DC</b>	Duty cycle	5 cycles (ED 30 % - ON: 3 min./OFF: 7 min.)
	Protection rating	IP 54
	Ambient temperature range	-5 °C ... +60 °C
$F_Z$	Pulling force max.	1100 N
$F_A$	Pushing force max.	



$F_H$	Pullout force	3000 N (fastening depended)
	Rack	stainless steel
	Connecting cable	non-halogen, grey 2 x 0,75 mm <sup>2</sup> , ~ 1 m
$v$	Speed	 6,0 mm/s  6,0 mm/s
$s$	Stroke	300 – 1000 mm
$L$	Length	s + 163 mm see order data
$L_v$	Connection shaft	Standard length see order data
	Sound pressure level	≤ 70 dB (A)



## ORDER DATA

s [mm]	L [mm]	Version	Finish	PU/pcs.	Part.-No.			
300	463	LKS TV 300 S2	E6/C-0	1	513300.TV			
500	563	LKS TV 500 S2	E6/C-0	1	513500.TV			
600	463	LKS TV 600 S2	E6/C-0	1	513600.TV			
750	913	LKS TV 750 S2	E6/C-0	1	513800.TV			
1000	1163	LKS TV 1000 S2	E6/C-0	1	513805.TV			

## OPTIONS

Special model		PU/pcs.	Part.-No.			
Drive housing painted/powder coated in other RAL colours						
Lump sum for coating			516030			
Specify at order stage:		1 – 20	516004			
		21 – 50	516004			
		51 – 100	516004			
		from 101	516004			
Extra length connecting cable:						
3 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501023			
5 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501024			
10 m – non-halogen, grey – 2 x 0,75 mm <sup>2</sup>			501026			
Accessories for front / rear suspension						
2 additional holes Ø6 mm in the bottom of housing for rear suspension with K28, K29		1	520901			
Mechanic stroke reduction						
Stroke reduction without construction length - mechanically		1	516000			
Other lengths available on request						
Accessories	Lv [mm]	PU/pcs.	Part.-No.			
Connection shaft						
B17-1	1000	1	513050			
B17-2	1500	1	513052			
B17-3	2000	1	513054			



### OVERVIEW OF BRACKETS

Typical applications					1	2	3	4	5	6
Frame bracket					K5, K82	K5	K28	K29	K29	K41
Mounting aid						K21	K15, K16		K21	
Bracket accessories					B7		Rear holes	Front holes	Front holes	Front holes
Casement bracket					F1, F1V, F1.1, F2, F10.6		F1, F1V, F2, F10.6			F12
Special use										Sky light Essmann
Space requirement		min.	[mm]		50	40 – 50	40	40	40 – 50	90
Window material		Alu			●	●	●	●	●	
		Wood			●	●	●	●	●	
		PVC			●	●	●	●	●	●
Type of window and mounting	Bot- tom hung	in-ward	HSK	FM		■			■	
				RM						
			NSK	FM			●			
				RM						
		out-ward	HSK	RM		●			●	
				PR	●		●			
			NSK	RM			●			
				PR						
	Top hung	in-ward	HSK	FM		■			■	
				RM						
			NSK	FM						
				RM			●			
		out-ward	HSK	RM		●			●	
				PR	●		●			
			NSK	RM			●			
				PR						
	Side hung	in-ward	HSK	FM		■			■	
				RM						
		NSK	FM			●				
			RM							
	Roof	out-ward	HSK	RM		●			●	
				PR	●		●			
		NSK	RM		●			●		
			PR	●			●			
	Sky- light	out-ward	HSK	RM	●			●		●
			NSK	RM						
FAB*1		Solo	[mm]	700 – 1300						
		Sync2	[mm]	1200 – 2500						
FAH*1		Solo	[mm]	450 – 1500						
		Sync2	[mm]	450 – 2500						

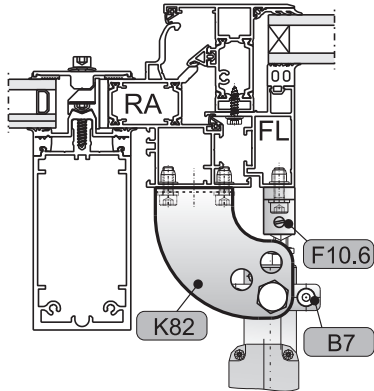
#### LEGEND

● suitable      ■ not recommended

\*1 Sample value of the casement dimensions. The actual casement dimensions depend on the stroke and the position of the drives to the hinges. The values of FAB/FAH are to be used analogue for side hung windows.

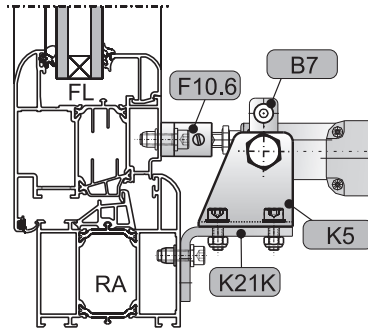
## TYPICAL APPLICATIONSE

1 RM, HSK, roof



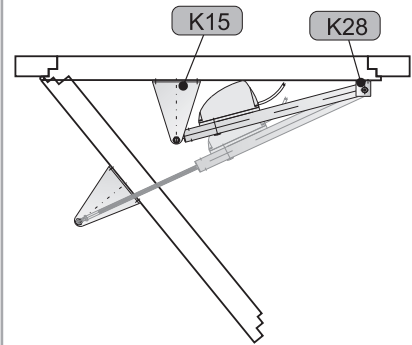
View on aluminium window

2 RM, HSK, top-hung outward opening



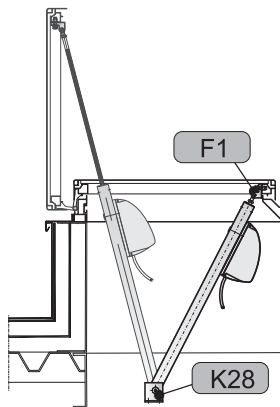
View on PVC-window

2 RM, NSK, side-hung inward opening



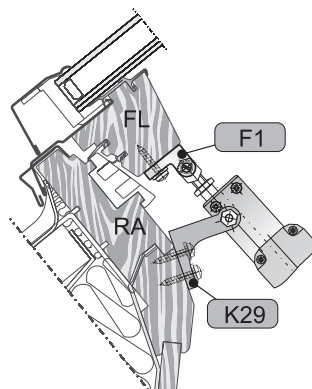
View for example

3 RM, HSK, roof



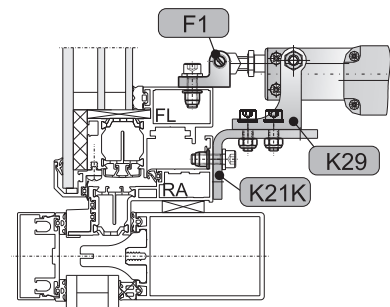
View on roof window

4 RM, HSK, roof



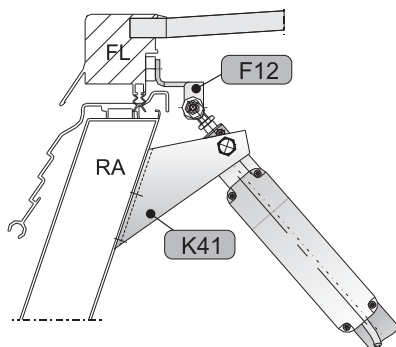
View on wooden window

5 RM, HSK, top-hung outward opening



View on aluminium window

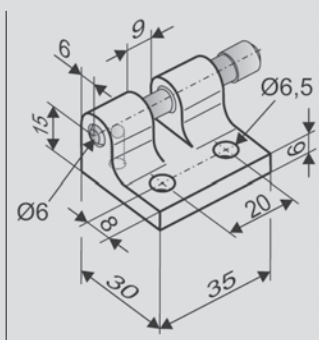
6 RM, HSK, sky light



View on sky light Essmann

### CASEMENT BRACKETS

F1



#### Application

**Surface mounting** on the **main closing edge** of casement profiles of outward opening windows or skylights, for drives with **front or rear suspension** with bore **Ø6 mm**, manual removal of the drive is possible

**Part.-No. 150102**

**Material/Finish**

aluminium, diecast

**Feature/Equipment**

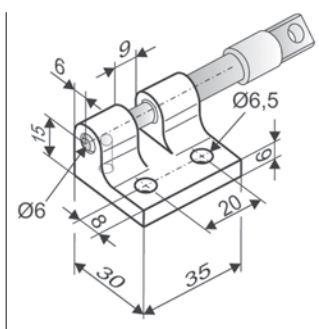
1x Locking bolt

Ø6 mm

**Load**

max. 1000 N

F1.1



#### Application

**Surface mounting** on the **main closing edge** of casement profiles of outward opening windows or skylights, for drives with **front or rear suspension** with bore **Ø6 mm**, manual removal of the drive is possible

**Part.-No. 150110**

**Material/Finish**

aluminium, diecast

**Feature/Equipment**

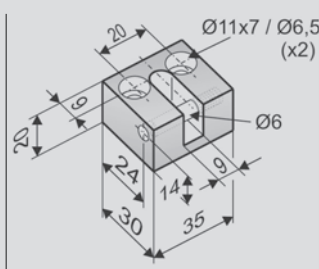
1x Locking spring bolt

Ø6 mm

**Load**

max. 600 N

F1V



#### Application

**Surface mounting** on the **main closing edge** of casement profiles of outward opening windows or skylights, for drives with **front or rear suspension** with bore **Ø6 mm**

**Part.-No. 150101**

**Material/Finish**

aluminium

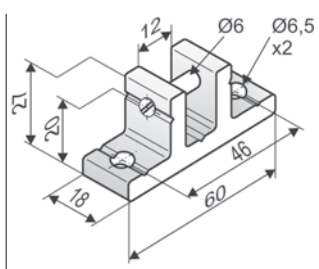
**Feature/Equipment**

1x grub screw Ø 6 mm

**Load**

max. 1600 N

F10.6



#### Application

**Surface mounting** on **main closing edge** of casement profiles of outward opening windows or skylights, for drives with **front or rear suspension** with bore **Ø6 mm**, threaded stud bolt

**Part.-No. 151000**

**Material/Finish**

aluminium

**Feature/Equipment**

1x stud bolt Ø6 mm

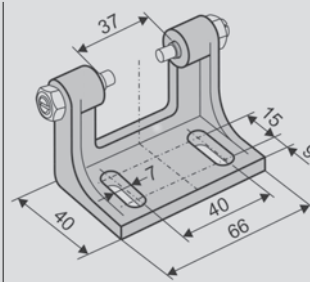
**Load**

max. 1600 N

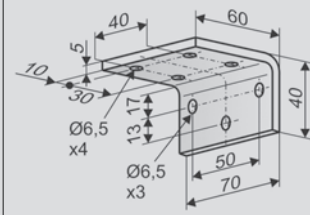
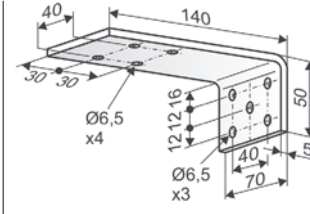
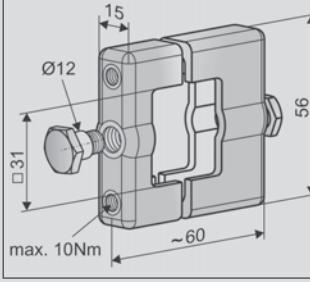
## CASEMENT BRACKETS

<b>K5</b>		<b>Application</b> <b>Surface mounting</b> on the <b>main closing edge</b> of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for <b>swivelling suspension</b> of drives <b>PLA with B4,</b> <b>SP with B13,</b> <b>LKS with B7</b>	<b>Part.-No. 155800</b>  <b>Material/Finish</b> steel, galvanized <b>Feature/Equipment</b> bore holes Ø12,5 mm			
<b>Accessories</b>						
<b>B7</b> clamp ring LKS (30 x 30 mm, G1/8)		<b>Part.-No. 513900</b>				
<b>K21K</b> Frame bracket		<b>Part.-No. 159900</b>				
<b>K21L</b> Frame bracket		<b>Part.-No. 159905</b>				
<b>K82</b>		<b>Application</b> <b>Surface mounting</b> on the <b>main closing edge</b> of window frame profiles or on the mullion/transom of outward opening (roof-)windows, for <b>swivelling suspension</b> of drives <b>PLA with B4,</b> <b>SP with B13,</b> <b>LKS with B7</b>	<b>Part.-No. 151320</b>  <b>Material/Finish</b> stainless steel <b>Feature/Equipment</b> bore holes Ø12,5 mm			
<b>Accessories</b>						
<b>B7</b> clamp ring LKS (30 x 30 mm, G1/8)		<b>Part.-No. 513900</b>				
<b>K28</b>		<b>Application</b> <b>Surface mounting</b> on the <b>main closing edge</b> of window frame profiles (or on the mullion/transom) of outward opening (roof-)windows, for <b>swivelling suspension</b> of drives <b>LKS with front or rear bore Ø6,0 mm</b>	<b>Part.-No. 160800</b>  <b>Material/Finish</b> aluminium, nature <b>Feature/Equipment</b> 2x grubscREW M8, nut M8 <b>Load</b> max. 600 N			
<b>Accessories</b>						
2 rear holes Ø6 mm		<b>Part.-No. 520901</b>				
<b>K7</b>		<b>Application</b> <b>Surface mounting</b> on the <b>main closing edge</b> of the upstand of skylight domes <b>Essmann 810</b> for <b>swivelling suspension</b> of drives <b>PLA with B4,</b> <b>SP with B13,</b> <b>LKS with B7</b>	<b>Part.-No. 157500</b>  <b>Material/Finish</b> steel galvanized <b>Feature/Equipment</b> drilled holes Ø12,5 mm			
<b>Accessories</b>						
<b>B7</b> clamp ring LKS (30 x 30 mm, G1/8)		<b>Part.-No. 513900</b>				

### CASEMENT BRACKETS

<p><b>K29</b></p> 	<p><b>Application</b>  <b>Surface mounting</b> on the <b>main closing edge</b> of window frame profiles (or on the mullion/transom) of outward opening (roof-) windows, for <b>swivelling suspension</b> of drives <b>LKS</b> with <b>front or rear bore Ø6,0 mm</b></p>	<p><b>Part.-No. 160900</b>  <b>Material/Finish</b>  aluminium, nature  <b>Feature/Equipment</b>  2x grubscREW M8, nut M8  <b>Load</b>  max. 600 N</p>		
	<p><b>Accessories</b></p>			
	<p><b>2 rear holes</b> Ø 6 mm</p>	<p><b>Part.-No. 520901</b></p>		
	<p><b>K21K</b> Frame bracket</p>	<p><b>Part.-No. 159900</b></p>		
	<p><b>K21L</b> Frame bracket</p>	<p><b>Part.-No. 159905</b></p>		

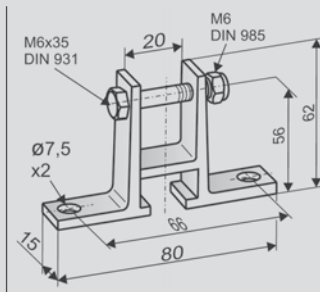
### ACCESSORIES

<b>Frame bracket</b>				
<p><b>K21K</b></p> 	<p><b>Application</b>  Shift the fastening level of the frame brackets <b>K5</b>, <b>K29</b> from the horizontal to the vertical position of the <b>main closing edge</b> of window frame profiles</p>	<p><b>Part.-No. 159900</b>  <b>Material/Finish</b>  steel, galvanized</p>		
<p><b>K21L</b></p> 	<p><b>Application</b>  Shift the fastening level of the frame brackets <b>K5</b>, <b>K29</b> from the horizontal to the vertical position of the <b>main closing edge</b> of window frame profiles</p>	<p><b>Part.-No. 159905</b>  <b>Material/Finish</b>  steel, galvanized</p>		
<b>Clamp ring</b>				
<p><b>B7</b></p> 	<p><b>Application</b>  <b>Adjustable clamping</b> of the <b>LKS</b> drive housing, for surface mounting with <b>swivelling suspension</b> on <b>K5</b>, <b>K7</b>, <b>K82</b>, (preferably on outward opening windows)</p>	<p><b>Part.-No. 513900</b>  <b>Material/Finish</b>  aluminium (E6/C-0), stainless steel  <b>Feature/Equipment</b>  2x B8 collar screw Ø12mm, G1/8  2x cylinder head screw M6x50</p>		

## SPECIFIC APPLICATIONS

## SKY LIGHT ETERNIT

F2



## Application

**Surface mounting** on the **main closing edge** of skylight domes **Eternit**, for drives with **front suspension** with bore **Ø6 mm**

Part.-No. 150303

## Material/Finish

aluminium

## Feature/Equipment

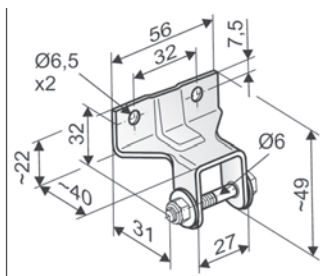
1x nut M6,  
1x screw M6x35

## Load

max. 800 N

## SKY-LIGHT ESSMANN TYP 810

F12



## Application

**Surface mounting** on the **main closing edge** of the case-ment profiles of skylight domes **Essmann 810** for drives with **front suspension** with bore **Ø6 mm**

Part.-No. 151500

## Material/Finish

steel, galvanized

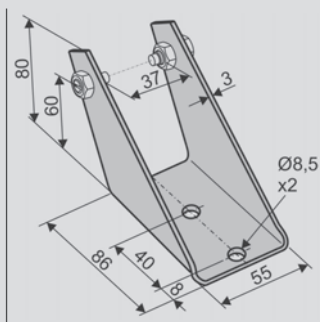
## Feature/Equipment

1x screw M6,  
washer,  
nut

## Load

max. 800 N

K41



## Application

**Finish mounting** on the main closing edge (**HSK**) of the upstand of skylight domes **Essmann 810** for **swivelling suspension** of drives **LKS**

Part.-No. 160910

## Material/Finish

steel, galvanized

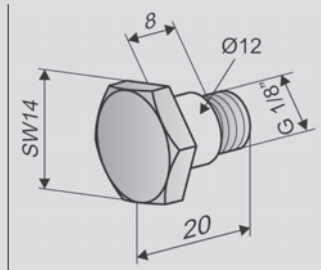
## Feature/Equipment

2x grubscrew M8,  
nut M8

### OPTIONAL ACCESSORIES

#### Collar screw

**B8**



#### Application

Swivelling suspension  
of the clamp rings  
**B4** for **PLA**  
**B7** for **LKS**  
or of the clamping blocks  
**B11, B13** for **SP**  
for U-shaped frame brackets  
with bore **Ø12 mm**

**Part.-No. 172800**

**Material/Finish**  
stainless steel (1.4305)  
**Feature/Equipment**  
collar Ø12 mm, G1/8"

Special model	PU/pcs.	Part.-No.			
Casement brackets painted / powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516032			
	21 – 50	516032			
	51 – 100	516032			
	from 101	516032			
Frame brackets painted / powder coated in other RAL colours					
Lump sum for coating		516030			
Specify at order stage:	1 – 20	516031			
	21 – 50	516031			
	51 – 100	516031			
	from 101	516031			