

## **easyPilot Nordic**

**The turn fitting system.**



in  
windows

**Product Catalogue 03/2014**



# Table of contents

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General product information

Pages 3 – 7

---

Drive rods

Pages 8 – 10

---

Corner drives

Page 11

---

Connecting rails

Page 12

---

Window limiters

Pages 13 – 14

---

Installation drawings

Pages 15 – 20

---

General product  
information

**1**

Drive rods

**2**

Corner drives

**3**

Connecting rails

**4**

Window limiters

**5**

Installation drawings

**6**

# easyPilot offers scope for rationalisation in window production.

## **easyPilot: Fittings for turn windows.**

Developing a new system of fittings from the initial drafts to market maturity is a time-consuming process. It is not just a question of creative ideas, precise calculations and countless series of tests, but also of intensive monitoring of people and markets, evaluating current trends and ongoing analysis of general technical developments. We even question tried and trusted approaches to be able to leverage all this information, and apply our years of experience to create targeted, premium solutions that offer fitters and users a whole new range of opportunities. Both from an economical and functional point of view. It is this constant drive towards precision that has made Winkhaus one of the leading enterprises in the field of window and door technology. This is evident by the large number of industry standards that Winkhaus has established in over 150 years.

## **Individual solutions increase competitiveness**

The fitting segment easyPilot Nordic offers a comprehensive fitting range with just a few components for inwards and outwards opening windows. In line with market requirements, the fitting system enables turn windows to be fixed in any turn opening position. For inwards opening turn windows, the locking drives of turn-tilt fittings are used for both centre and constant handle positions. The consistent use of the modular system means that the overall product range is compact, which also guarantees minimal warehousing and logistics requirements. By using locking drives with backsets from 25 mm, sashes opening to the outside can be covered. Here too, the turn sash limiter is activated via the special connecting rail.

## **Your partner for service**

Our services are solution-oriented, reliable and precisely geared to match your requirements – just as you would expect from your partner. We are always at your service. With application engineers on site, professional help from our product data service, and innovative software solutions to help optimise your workflow we safeguard and extend your capacity to act. On top of this, our comprehensive product information system and sophisticated logistics service guarantee fast delivery at all times.

## **Tried and trusted quality**

Our quality philosophy makes sure only first-quality products leave our works. The prerequisites for this are set in our construction department thanks to premium materials and thorough workmanship. In addition, a special refinement of surfaces guarantees permanent corrosion resistance and meets highest demands. The electroplating technique corresponds to DIN EN 1670 (2007), wear class 4. All these measures make sure that Winkhaus fittings are especially durable and run smoothly for many years.

## **Quality standard**

The Winkhaus group successfully passed a group certification of production sites according to DIN ISO 9001:2008.

The group certification ensures that we use the same criteria and procedures in all Winkhaus subsidiaries and thus we can always offer consistent quality for our customers.

## **Product liability**

To ensure compliance with German product liability laws (article 4 ProdHaftG), please observe our manufacturer's information on turn-tilt fittings for windows and glazed doors. Failure to observe releases the manufacturer from any liability. Please consult your Winkhaus contact person for further information on this topic.

Please also observe the guidelines issued by Gütekennzeichnung Schlosser und Beschläge e.V. (Association for Quality Control of Locks and Fittings).

This information can be obtained at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

## **Proper screw fixing in terms of load of security-relevant fitting components**

In order to ensure the endurance and operating safety of windows and balcony doors over their expected service life, major importance must be attached to the installation of security-relevant fitting components!

Manufacturers of windows and balcony doors are responsible for fixing the fitting elements on the sash and the frame in a professional way and they must make sure that the specifications are adhered to.

Important: Please observe these guidelines! Use only screws that are long enough to bear the loads. We recommend you to fix the corner and shear hinge screws in the steel reinforcement of the PVC-U window.



### Qualitätsmanagementsystem DIN EN ISO 9001:2008

#### Unternehmen

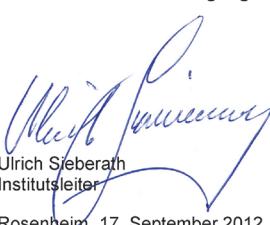
Aug. Winkhaus GmbH & Co. KG  
August-Winkhaus-Str. 31  
D - 48291 Telgte

#### Geltungsbereich

**Entwicklung, Herstellung und Vertrieb von:**  
**- Beschlägen für Fenster und Fenstertüren,**  
**- Sicherheitstürverriegelungen und Schließanlagen,**  
**- mechanischen und elektronischen Schließzylindern,**  
**elektronischen Fluchtwegsicherungssystemen, mechanischen**  
**Sicherheitseinrichtungen, Zutrittskontrolle und Zeitwirtschaft**

#### Zweigstelle(n)

Aug. Winkhaus GmbH & Co. KG, Berkeser Strasse 6, D – 98617 Meiningen  
Aug. Winkhaus GmbH & Co. KG, Bohlweg 43, D – 48147 Münster  
Winkhaus Polska Beteiligungs sp.z o.o. sp.k., ul. Przemysłowa 1, PL 64-130 Rydzyna

  
Ulrich Sieberath  
Institutsleiter

Rosenheim, 17. September 2012

  
Christian Kehrer  
Leiter der Zertifizierungsstelle



#### Grundlagen

Im Zertifizierungsaudit wurde der Nachweis erbracht, dass das Unternehmen inklusiv aller auf diesem Zertifikat benannten Zweigstellen ein Qualitätsmanagementsystem entsprechend DIN EN ISO 9001:2008 „Qualitätsmanagementsysteme – Anforderungen“ eingeführt hat und anwendet.

#### Gültigkeit

Die Gültigkeitsdauer des Zertifikates beträgt 3 Jahre. In dieser Zeit wird die Firma durch jährlich stattfindende Audits überwacht.

Das Zertifikat ist nur in Verbindung mit dem dazugehörigen Zertifizierungs- und Überwachungsvertrag gültig.  
Alle Änderungen der Voraussetzungen für die Zertifizierung sind dem ift-Q-Zert mit den erforderlichen Nachweisen unverzüglich schriftlich anzuzeigen.

#### Zweigstellen-Bestimmungen

Dieses Zertifikat wurde im Rahmen der Zweigstellenregelung erteilt. Die übergeordnete Firma (Zentrale) trägt die Verantwortung für die Aufrechterhaltung und Weiterentwicklung des Qualitätsmanagementsystems sowie die Steuerung der zentralen Aufgaben.

#### Veröffentlichungshinweise

Das Zertifikat darf nur unverändert vervielfältigt werden. Es gelten die Bestimmungen der „Allgemeinen Bedingungen für die Zertifizierung von Managementsystemen“.

Das Unternehmen ist berechtigt, das „ift-zertifiziert“-Zeichen gemäß der ift-Zeichensatzung zu nutzen.



General product information

1

Drive rods

2

Corner drives

3

Connecting rails

4

Window limiters

5

Installation drawings

6

**1**

## Further products

**2**

### activPilot Concept

#### The turn-tilt fitting system for PVC-U windows.

A modular system that combines the solutions of a future standard. A new closing system, attractive value-added functions and functional design.

**3****4****5****6**

### activPilot Select

#### The fully concealed turn-tilt fitting system.

The fitting system features fully concealed shear, turn and corner hinges housed in the rebate. When installed as a standard model, this elegantly designed turn and tilt fitting is able to bear sashes weighing up to 100 kg. With just two additional components, it can easily support sashes weighing up to 150 kg.



### activPilot Control

#### Closing sensors up to VdS Class C.

Unobtrusive closing sensors reliably report which windows and glazed doors are open or locked. At the same time heating and air-conditioning controls are supported.



General product  
information **1**

## activPilot Comfort

### The fitting system with parallel action

Allround security thanks to innovative technology. The convenient approach to a healthy indoor atmosphere and improved illegal entry protection in parallel position.



**2**  
Drive rods

**3**  
Corner drives

**4**  
Connecting rails

**5**  
Window limiters

**6**  
Installation drawings

## activPilot Ergo

### The ergonomically controlled turn-tilt fitting system.

Actuating the handle tilts and returns the sash. Due to this intelligent controlled action, there is no need to pull the window sash to the front.



## duoPort SK

### Slide-tilt fittings.

The slide-tilt doors delivered with the duoPort SK series support sash weights of up to 200 kg, with perfect functionality and elegant design. They can be operated conveniently by simply pressing the handle in combination with a pull-in shear device.



1



2



3

## Drive rod GAK

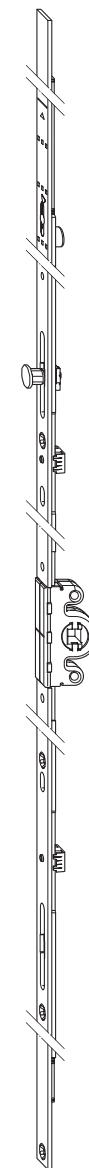
- Constant handle position GK
- Backset 15.5 mm
- Clampable in fitting groove
- Functional parts such as DFE and TFE retrofittable (see table), does not apply to activPilot Comfort
- Handle position with reference to the sash rebate edge, in conformity with "dimension GK" (see table)
- For drilling and milling instructions see Group 15 installation drawings B-3-1
- Useable left and right hand
- Safety locking pin as an adjustable octagonal bolt
- Gear case for milling from rebate
- Gear case for mounting in drilled hole
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- Central fastening as standard
- Turn position is the factory default
- Drive stroke approx. 37 mm with window handle rotation by 180°
- Faceplate width 16 mm
- Overlapping system linkage without connecting plates

### Drive rod GAK ... BK

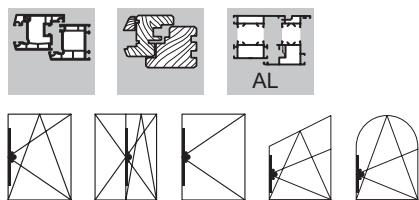
- With pre-assembled balcony door catch bolt
- Not suitable for activPilot Comfort / duoPort PAS

### Drive rod GAK ... C

- incl. reinforced clamping mechanism within the profile groove



Article description	Article No.	Scope of application		Dimension GK	DFE	TFE	VPA1 Qty.	Type	VPA2 Qty.	Type	VPA3 Qty.	Type
GAK.465	4926221	FFH 420 - 520	0	210			10	BD	100	KK	800	EK
GAK.465.C	4935841	FFH 420 - 520	0	210			10	BD	100	KK	800	EK
GAK.710	4926207	FFH 460 - 710	1	210			20	BD	600	EA		
GAK.710.C	4935843	FFH 460 - 710	1	210			20	BD	600	EA		
GAK.830	4926230	FFH 580 - 830	2	260			20	BD	600	EA		
GAK.830-1	4926231	FFH 580 - 830	2	260			20	BD	600	EA		
GAK.945	4926208	FFH 695 - 945	3	260			20	BD	400	EA		
GAK.945-1	4926209	FFH 695 - 945	3	260			20	BD	400	EA		
GAK.1100-1	4926234	FFH 850 - 1100	3	375			20	BD	360	EA		
GAK.1195-1	4926236	FFH 945 - 1195	4	470			20	BD	360	EA		
GAK.1195-2	4926237	FFH 945 - 1195	4	470			20	BD	360	EA		
GAK.1325-1	4978659	FFH 1075 - 1325	4	550			20	BD	360	EA		
GAK.1325-1.G500	4937485	FFH 1075 - 1325	4	500			20	BD	360	EA		
GAK.1325-2	4978670	FFH 1075 - 1325	4	550			20	BD	360	EA		
GAK.1550-1	4926224	FFH 1300 - 1550	5	550			10	BD	360	L1		
GAK.1550-2	4926225	FFH 1300 - 1550	5	550			10	BD	360	L1		
GAK.1775-2	4926228	FFH 1525 - 1775	7	550			10	BD	400	L1		
GAK.1775-3	4926229	FFH 1525 - 1775	7	550			10	BD	400	L1		
GAK.1850-2	5000529	FFH 1600 - 1850	7	715			10	BD	360	L1		
GAK.2000-2	4938089	FFH 1750 - 2000	8	1050			10	BD	360	L2		
GAK.2000-2.BK	4942670	FFH 1750 - 2000	8	1050			10	BD	360	L2		
GAK.2000-4	4938120	FFH 1750 - 2000	8	1050			10	BD	360	L2		
GAK.2000-4.BK	4942671	FFH 1750 - 2000	8	1050			10	BD	360	L2		
GAK.2225-2	4938122	FFH 1975 - 2225	9	1050			10	BD	360	L2		
GAK.2225-2.BK	4942672	FFH 1975 - 2225	9	1050			10	BD	360	L2		
GAK.2225-4	4938123	FFH 1975 - 2225	9	1050			10	BD	360	L2		
GAK.2225-4.BK	4942673	FFH 1975 - 2225	9	1050			10	BD	360	L2		



## Drive rod GAM

- Central handle position
- Backset 15.5 mm
- Clampable in fitting groove
- Functional parts such as DFE and TFE retrofittable (see table), does not apply to activPilot Comfort
- For drilling and milling instructions see Group 15 installation drawings B-3-1
- Useable left and right hand
- Safety locking pin as an adjustable octagonal bolt
- Gear case for milling from rebate
- Gear case for mounting in drilled hole
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- Central fastening as standard
- Turn position is the factory default
- Drive stroke approx. 37 mm with window handle rotation by 180°
- Faceplate width 16 mm
- Overlapping system linkage without connecting plates

### Drive rod GAM ... BK

- With pre-assembled balcony door catch bolt
- Not suitable for activPilot Comfort / duoPort PAS



General product information

**1**

Drive rods

**2**

Corner drives

**3**

Connecting rails

**4**

Window limiters

**5**

Installation drawings

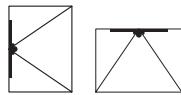
**6**

Article description	Article No.	Scope of application	T	DFE	TFE	VPA1	Type	VPA2	Type
						Qty.			
GAM.800	4926267	FFH 510 - 800	2			20	BD	400	EA
GAM.1050	4926268	FFH 710 - 1050	2	.	.	20	BD	360	EA
GAM.1050-1	4926269	FFH 710 - 1050	2	.	.	20	BD	360	EA
GAM.1400	4926290	FFH 900 - 1400	4	.	.	20	BD	360	L1
GAM.1400-1	4926291	FFH 900 - 1400	4	.	.	20	BD	360	L1
GAM.1400-2	4926292	FFH 900 - 1400	4	.	.	20	BD	360	L1
GAM.1800	4926293	FFH 1300 - 1800	6	.	.	10	BD	360	L1
GAM.1800-2	4926295	FFH 1300 - 1800	6	.	.	10	BD	360	L1
GAM.2300	4938161	FFH 1800 - 2300	8	.	.	10	BD	360	L2
GAM.2300-3	4938163	FFH 1800 - 2300	8	.	.	10	BD	360	L2
GAM.2300-3.BK	4942674	FFH 1800 - 2300	8	.	.	10	BD	360	L2

1



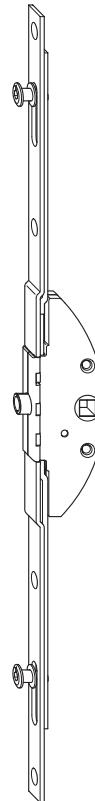
2



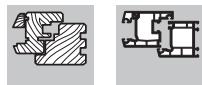
3

## Locking gear GVMH

- Central handle position
- Useable left and right hand
- With integrated position interlock
- Gear case for milling from rebate
- Faceplate width 16 mm
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- 18.5 mm drive stroke when window handle is turned by 90°
- Backset 25 mm
- Square is 8 mm

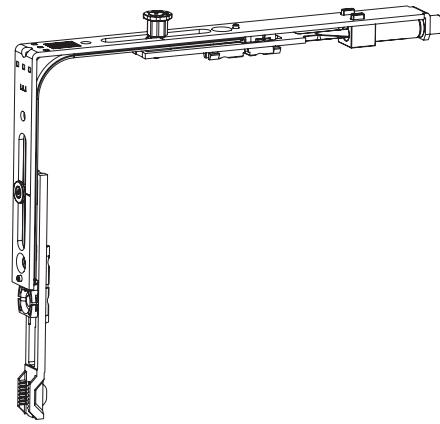


Article description	Article No.	Scope of application	Qty.	VPA1 Type	VPA2 Qty.	Type
GVMH 300/2 D25 SL	4933791	FFH 300 - 400	2	10 BD	400 EA	
GVMH 400/2 D25 SL	4933792	FFH 400 - 600	4	10 BD	400 EA	
GVMH 600/2 D25 SL	4933793	FFH 600 - 800	6	10 BD	400 EA	
GVMH 800/2 D25 SL	4933794	FFH 800 - 1000	6	10 BD	300 EA	
GVMH 1000/2 D25 SL	4933795	FFH 1000 - 1200	8	10 BD	200 EA	
GVMH 1200/2 D25 SL	4933796	FFH 1200 - 1400	8	10 BD	400 L1	



## Corner drive E1.W.FB-GV

- Useable left and right hand
- For turn windows
- For regulating an FB-GV window limiter
- Assembly position: closing side, top
- Safety locking pin as an adjustable octagonal bolt
- Faceplate width 16 mm
- Central fastening as standard
- Overlapping system linkage without connecting plates



General product information

**1**

Drive rods

**2**

Corner drives

**3**

Connecting rails

**4**

Window limiters

**5**

Installation drawings

**6**

Article description	Article No.	Qty.	VPA1	Type	VPA2	Qty.	Type	VPA3
E1.W.FB-GV	5010558	3	50	KK	400	EK		

1



2

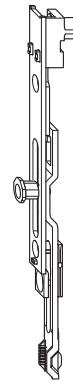


3

## Corner drive

### ASS.FB.GV.OBEN

- Useable left and right hand
- For turn windows
- For regulating an FB-GV window limiter
- Assembly position: closing side, top
- Safety locking pin as an adjustable octagonal bolt
- Faceplate width 16 mm
- Central fastening as standard
- Overlapping system linkage without connecting plates



Article description

Article No.

VPA1  
Qty.

Type

VPA2  
Qty.

Type

VPA3  
Qty.

Type

ASS.FB.GV.OBEN

4994774



2

10

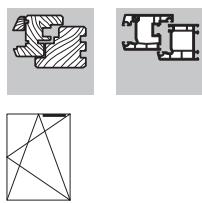
BD

100

KK

800

EK



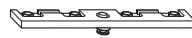
## Window limiter FB-GVT...

- Used in combination with corner drive E1.W.FB-GV
- Is regulated via the olive-shaped handle
- For insertion into existing fitting groove
- Maximum diameter of the fastening screws is 3.0 mm



### Frame plate RP FB SL

- Screw-connect-type frame plate
- Preadjusted for insertion of 2 mounting spacers WSK ...



General product information

**1**

Drive rods

**2**

Corner drives

**3**

Connecting rails

**4**

Window limiters

**5**

Installation drawings

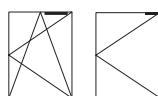
**6**

Article description	Article No.	Scope of application	VPA1 Qty.	Type	VPA2 Qty.	Type
FB-GVT 400/16 SL	4936820	433 - 567	2	GK	400	EK
FB-GVT 600/16 SL	4936822	533 - 767	2	GK	400	EK
FB-GVT 800/16 SL	4936824	693 - 967	2	BD	300	EA
FB-GVT 1300/16 SL	4936825	938 - 1467	2	BD	300	EA
RP FB SL	4936999		4	KK	800	EK

1



2



3

## Window limiter FB-F.../16

- Used in combination with corner drive E1.W.FB-GV
- Is regulated via the olive-shaped handle
- With pre-assembled frame plate
- For insertion into existing fitting groove
- Maximum diameter of the fastening screws is 3.0 mm

4

5

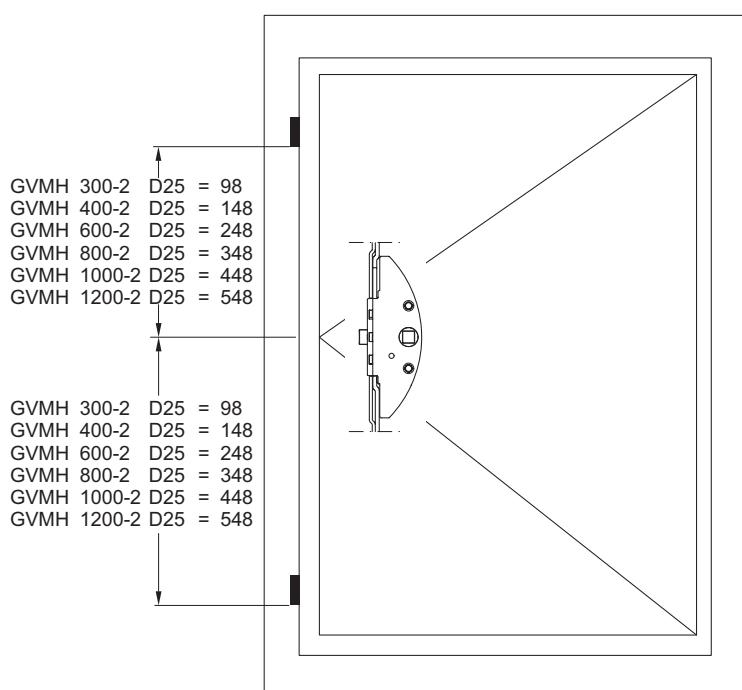
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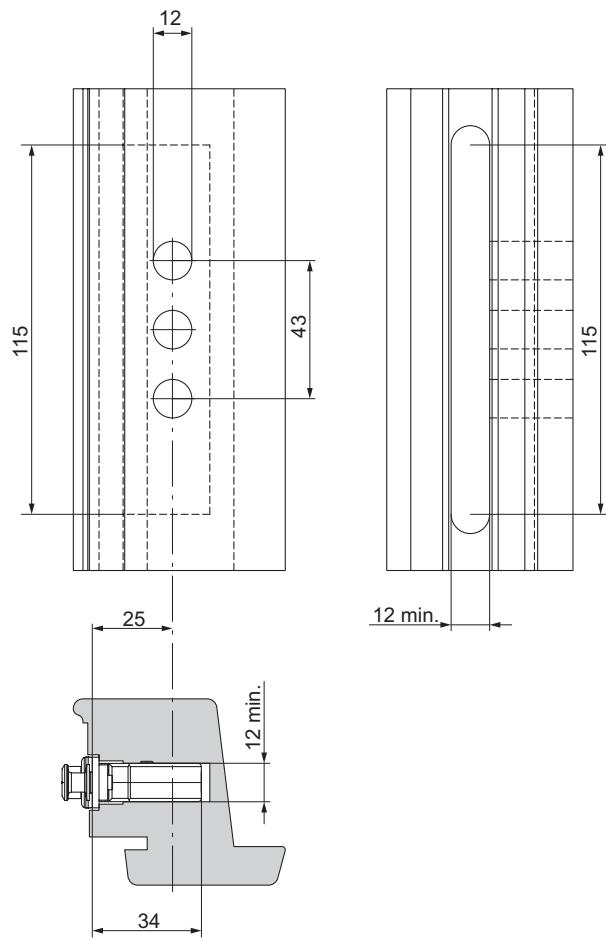
Article description	Article No.	Scope of application	VPA1 Qty.	Type	VPA2 Qty.	Type	VPA3 Qty.	Type
FB-F 400/16 SL	2754084	533 - 567	2	5	BD	50	GK	200
FB-F 800/16 SL	2754228	693 - 967	2	5	BD	300	EA	
FB-F1300/16 SL	2754252	938 - 1467	2	5	BD	300	EA	

# Installation drawings

## Locking gear GVMH



Keep positions, locking gear GVMH



## Drilling and milling instructions, locking gear GVMH

1

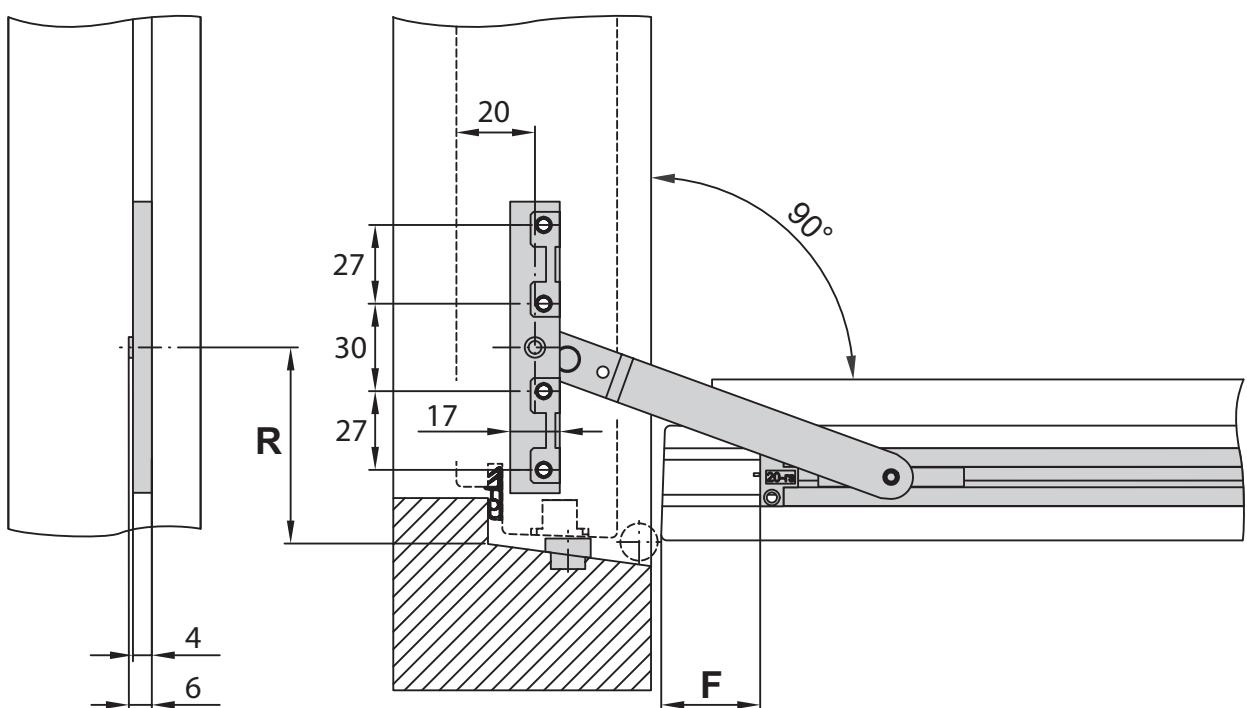
2

3

4

5

6

**Frame plate RP FB SL****Wooden window****For square window frame profile**

	<b>F (mm)</b>	<b>R (mm)</b>
FB-GVT 400/16	40	70
FB-GVT 600/16	90	95
FB-GVT 800/16	150	175
FB-GVT 1300/16	295	265

**Installation drawing wooden window****F = sash profile****R = frame profile**

Installation dimensions depending on the profile

**1**  
General product information

**2**  
Drive rods

**3**  
Corner drives

**4**  
Connecting rails

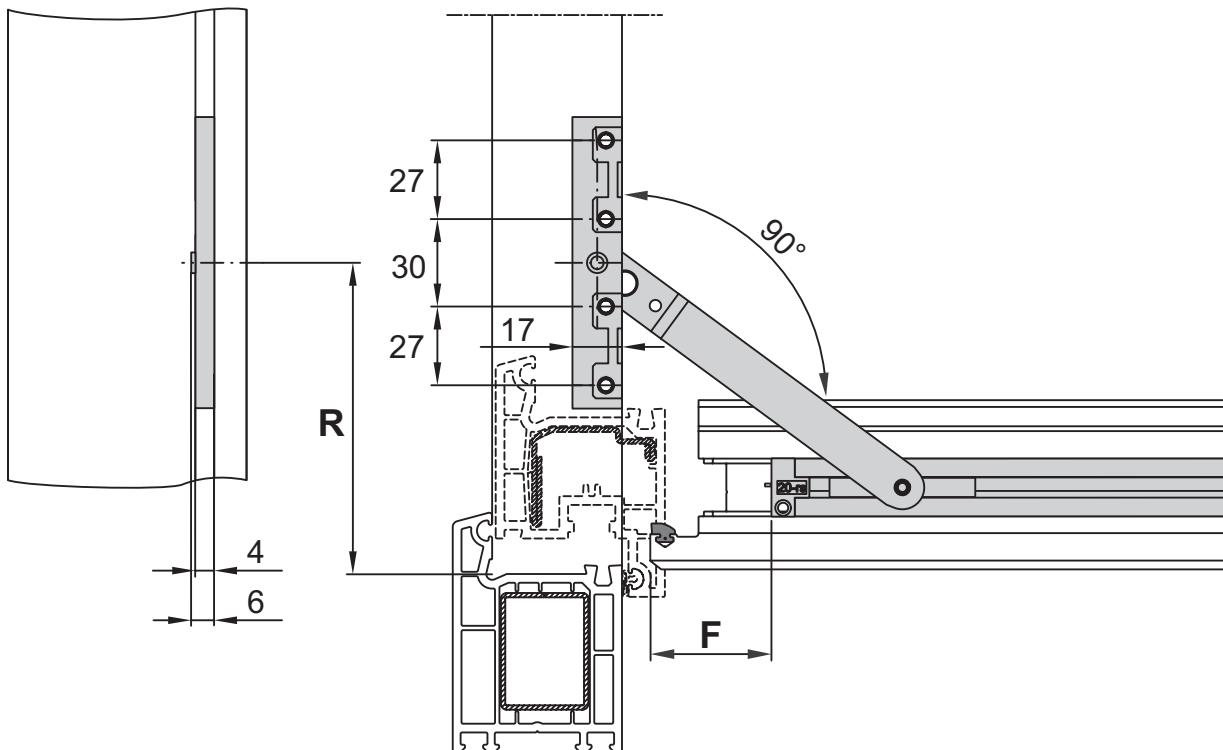
**5**  
Window limiters

**6**  
Installation drawings

## Frame plate RP FB SL

PVC-U window

Profile adjustment via mounting spacer FT - WSK ....



**F (mm)**      **R (mm)**

FB-GVT 400/16	20	60
FB-GVT 600/16	90	75
FB-GVT 800/16	130	155
FB-GVT 1300/16	275	245

Installation drawing PVC-U window

**F** = airgap

**R** = frame profile

Profile adjustment via mounting spacer FT - WSK ....

Installation dimensions are profile dependent and refer to the Winkhaus hinge situation.

1

2

3

4

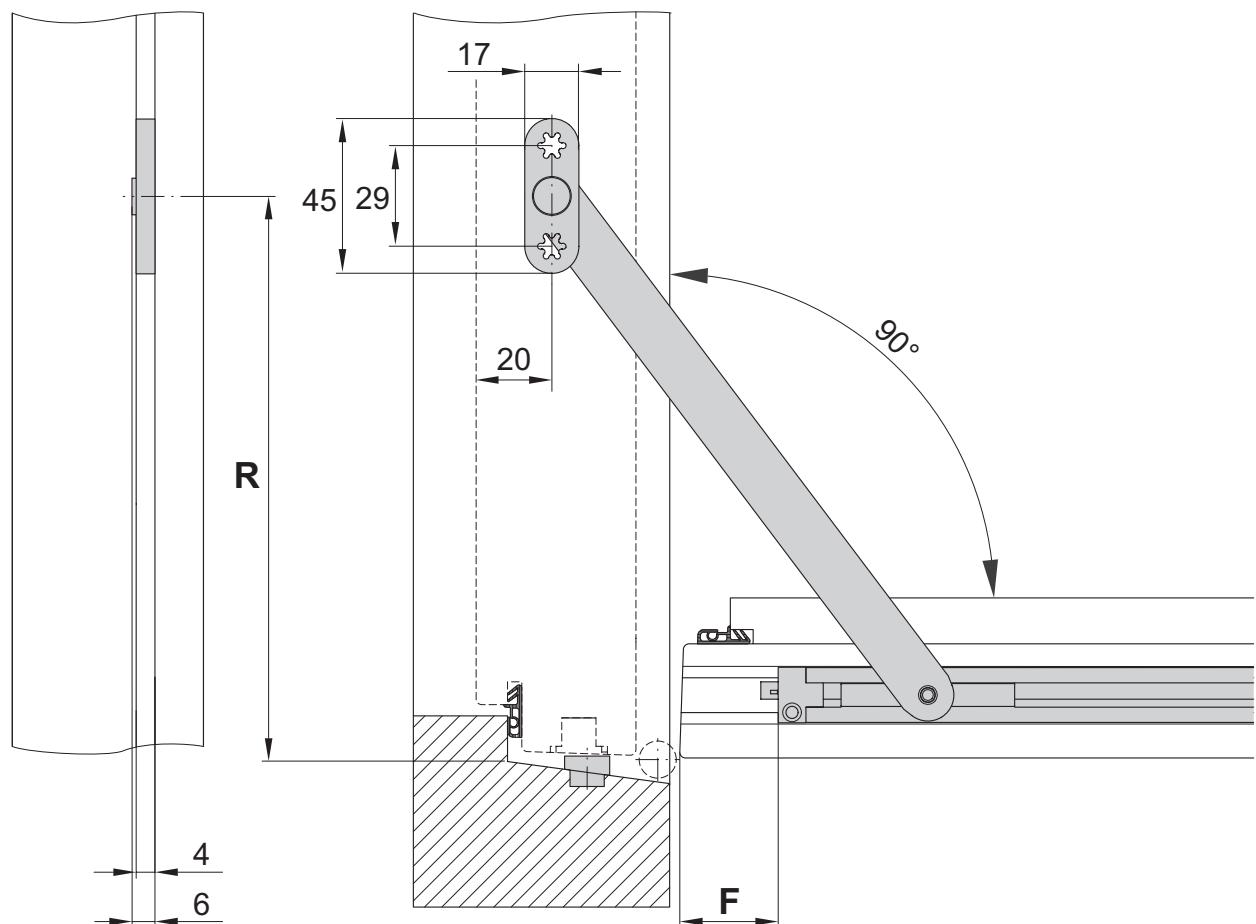
5

6

## Window limiter FB-F...

**Wooden window**

**For square window frame profile**



	F (mm)	R (mm)
FB-F 400/16	40	70
FB-F 600/16	90	95
FB-F 800/16	150	175
FB-F 1300/16	295	265

FB-F 600/25	90	95
FB-F 800/25	150	175
FB-F 1300/25	295	265

**Installation drawing wooden window**

**F = airgap**

**R = frame profile**

Installation dimensions depending on the profile

**1**  
General product information

**2**  
Drive rods

**3**  
Corner drives

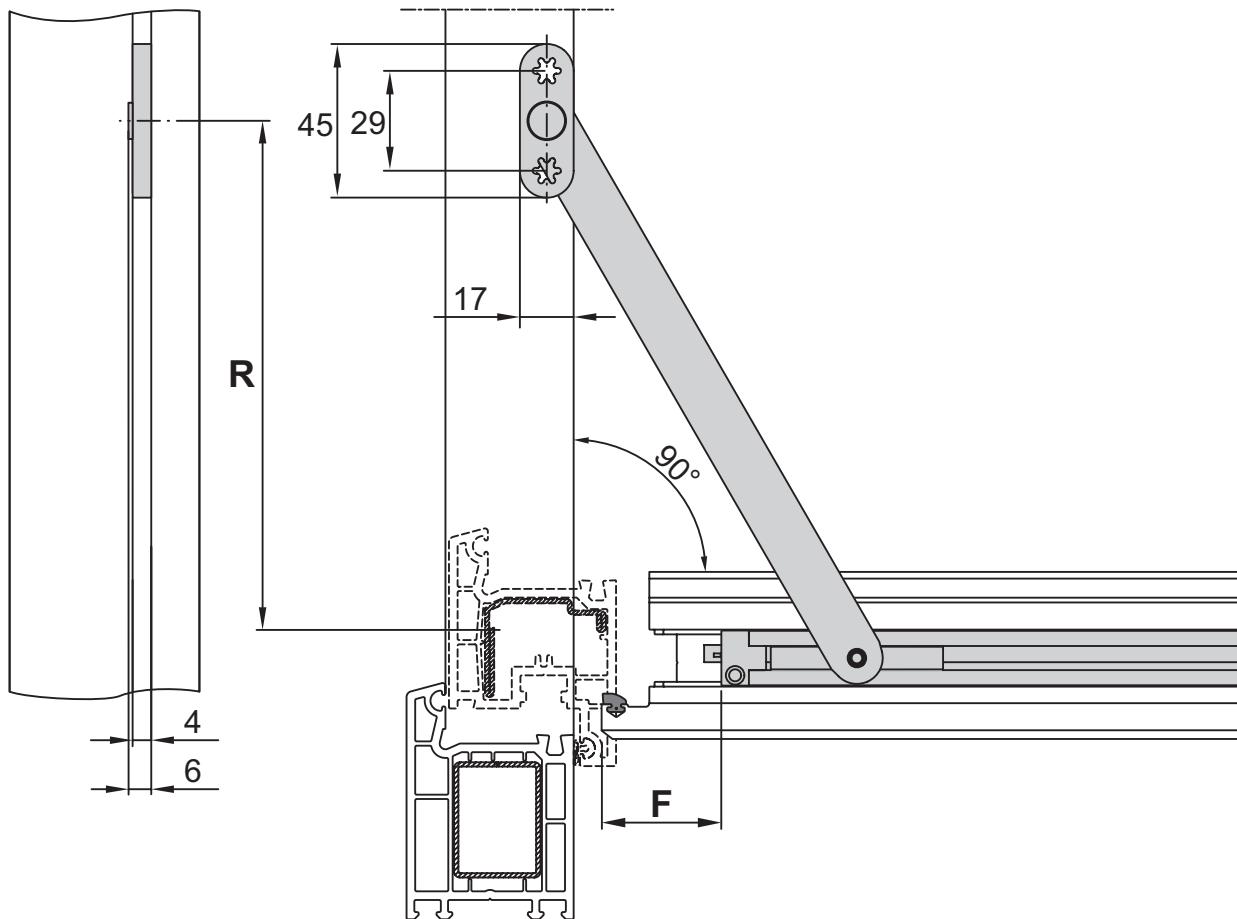
**4**  
Connecting rails

**5**  
Window limiters

**6**  
Installation drawings

## Window limiter FB-F...

### PVC-U window



	F (mm)	R (mm)
FB-F 400/16	20	60
FB-F 600/16	90	75
FB-F 800/16	130	155
FB-F 1300/16	275	245

FB-F 600/25	90	75
FB-F 800/25	130	155
FB-F 1300/25	275	245

### Installation drawing PVC-U window

F = airgap

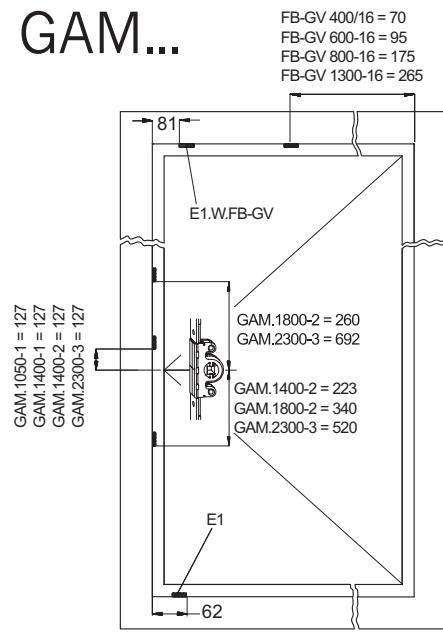
R = frame profile

Installation dimensions depending on the profile

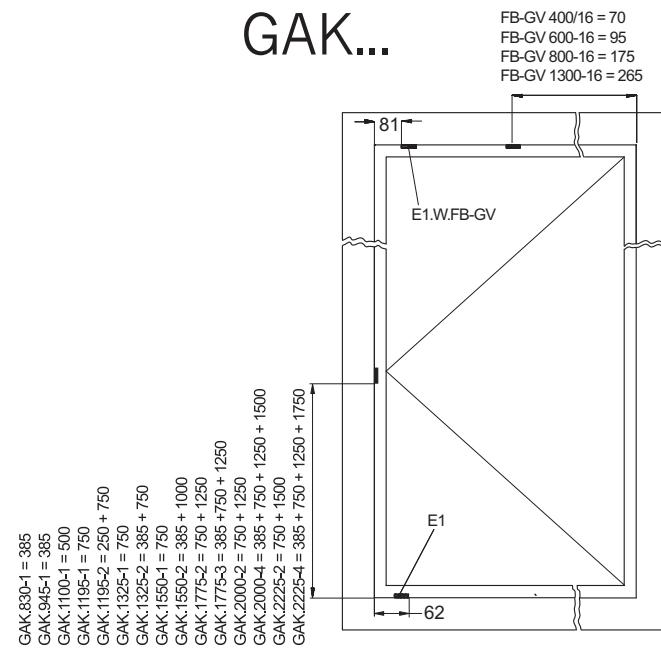
1  
2  
3  
4  
5  
6

**Positions of keeps**  
**Turn type**

GAM...

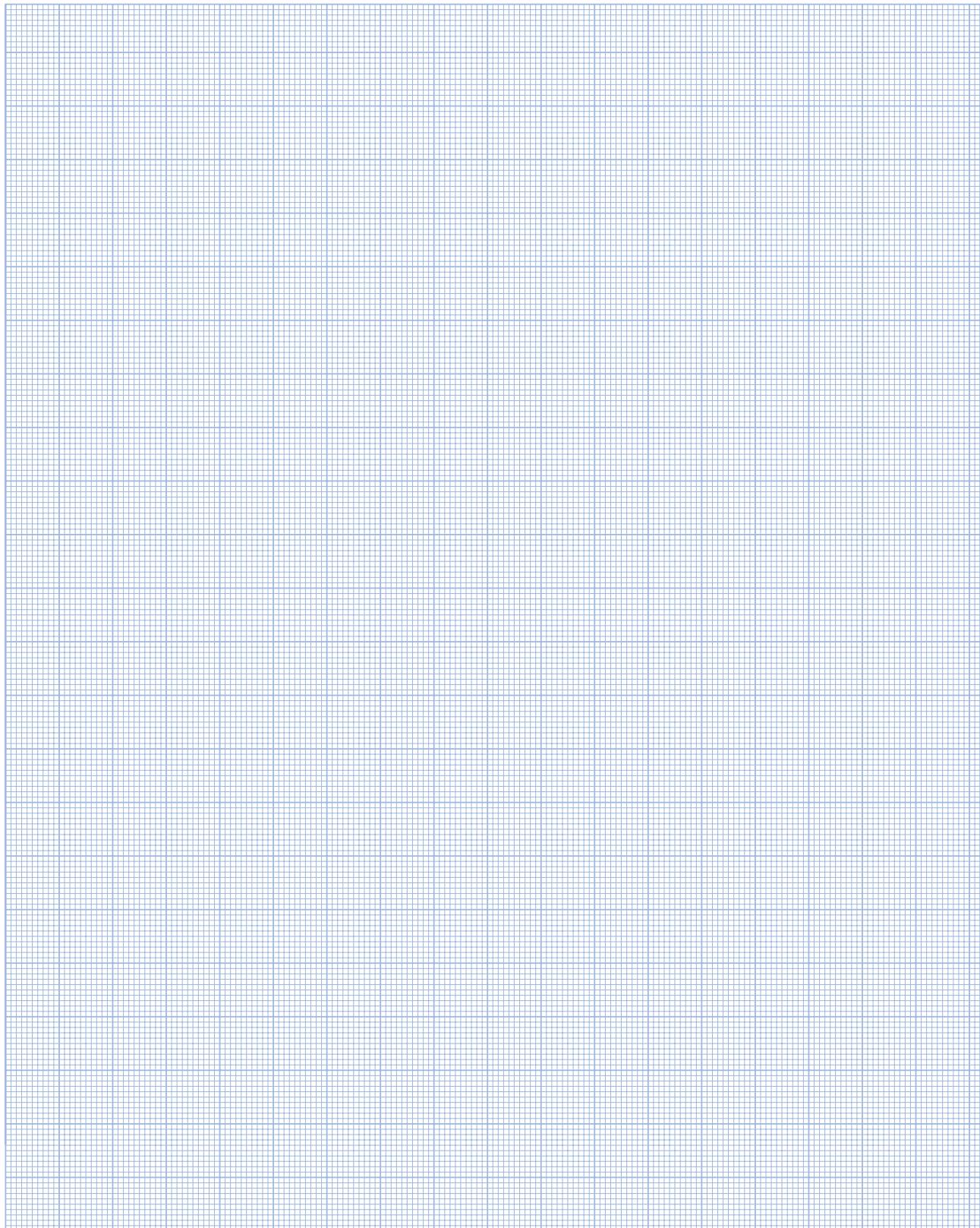


GAK...



Keep positions

## Notes



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