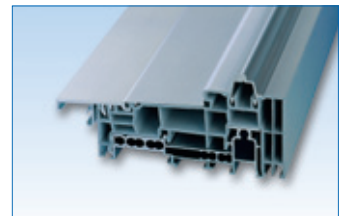


## The programme of Lift-Slide fittings



for timber, PVC, and aluminium windows and patio doors



- » Lift-Slide fittings
- » Slit ventilation module
- » *HS-SPEED Limiter*
- » *HS-Master*
- » *HS-Master CONCEALED*
- » Security components
- » Thresholds

## Safe and convenient living areas

The classic lift-slide fittings from Gretsch-Unitas have always provided for well-lit rooms and a pleasant living atmosphere.

The group of companies now presents a new generation of fittings meeting any demands when it comes to convenient operation, burglar inhibition and variable room ventilation.

All fitting variants boast the following features:

- Gears for sash heights up to bis 2765 mm
- Outstandingly smooth and quiet sash movement due to an optimised runner design
- High burglar inhibition as a standard thanks to robust fittings
- Extra burglar inhibition by means of optional security components
- Extraordinary thermal break in the bottom area achieved with the G.U-thermostep threshold
- Delightfully easy operation even of large and heavy sashes thanks to the perfect interplay of running carriages, gear and lever handle
- Lever handle options:
  - inside or inside/outside operation
  - with profile cylinder bore
  - removable
  - elongated for barrier-free areas – aluminium, stainless steel or polished brass
- Optimum corrosion protection thanks to surface seal ferGUard\*silver

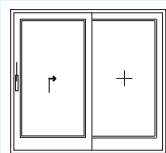


For room ventilation the sash can be slid open and lowered at any position – from a small gap to complete opening width. In combination with the slit ventilation module, the door element is tested to burglar resistance grade WK2 even in ventilation position! Opening widths up to 3300 mm are possible.

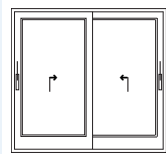
### Overview of the current lift-slide fitting types

Type of element	Timber				PVC	Aluminium
	G.U-934 Door	G.U-934 Window	G.U-937 Door	G.U-937 Window	G.U-934 Door/Window	G.U-934 Door/Window
Sash weight (kg)	up to 300	up to 300	up to 150	up to 150	up to 300	up to 300
Sash width (mm)	700 – 3300	700 – 3300	700 – 2200	700 – 2200	acc. to profile	acc. to profile
Sash height (mm)	1851 – 2765	850 – 1865	1851 – 2765	850 – 1865	acc. to profile	acc. to profile
No. of sashes	2 to 6	2 to 4	2 to 6	2 to 4	2 to 4	2 to 4

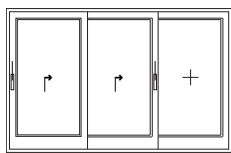
## Sash arrangement schemes A to L



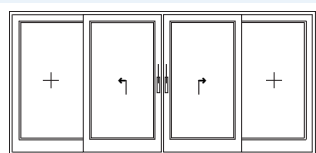
**Scheme A**  
1 lift-slide sash  
1 fixed glazing  
Drawing shows  
handle lh



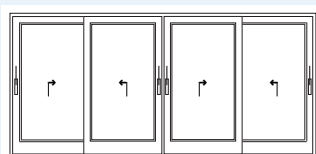
**Scheme D**  
2 lift-slide sashes



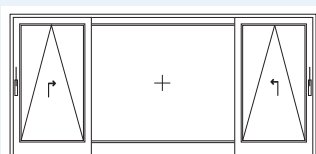
**Scheme E**  
2 lift-slide sashes  
1 fixed glazing  
Drawing shows  
handle lh and rh,  
both sashes opening  
to the left



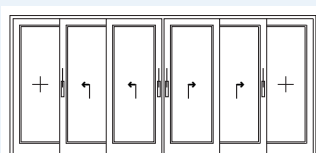
**Scheme C**  
2 lift-slide sashes  
2 fixed glazings



**Scheme F**  
4 lift-slide sashes



**Scheme K**  
2 lift-slide sashes  
1 fixed glazing

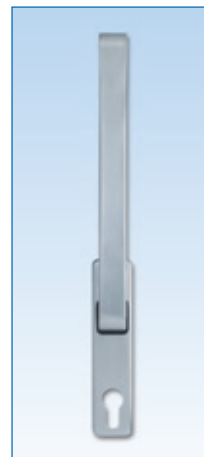


**Scheme L**  
4 lift-slide sashes  
2 fixed glazings

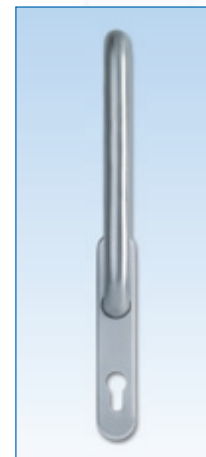
### Comfortable operation with stylish lever handles

For operating lift-slide elements, the following handle variants from our series DIRIGENT, RONDO and FORTE are available:

- Inside handle, lockable or removable as an option
- Inside/outside handle set, lockable on both sides as an option
- Aluminium, stainless steel or brass variants depending on the handle series
- Elongated stainless steel handle RONDO with reduced torque for minimal operating effort
- Compatible profile cylinders from the BKS range of locking cylinders



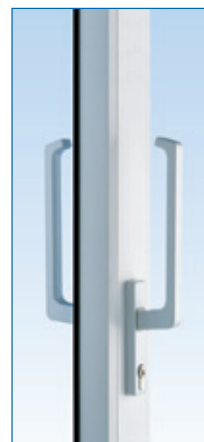
DIRIGENT [1][2][3]



RONDO [2]



FORTE [2]



DIRIGENT Se, lockable  
[1][2][3]



RONDO, elongated [2]

**Easy retrofitting:**  
All existing handles can be exchanged for a new and different lever handle model at any time!

Finish:

- [1] = Aluminium
- [2] = Stainless steel
- [3] = Brass

## Open for ventilation, yet safe against intrusion

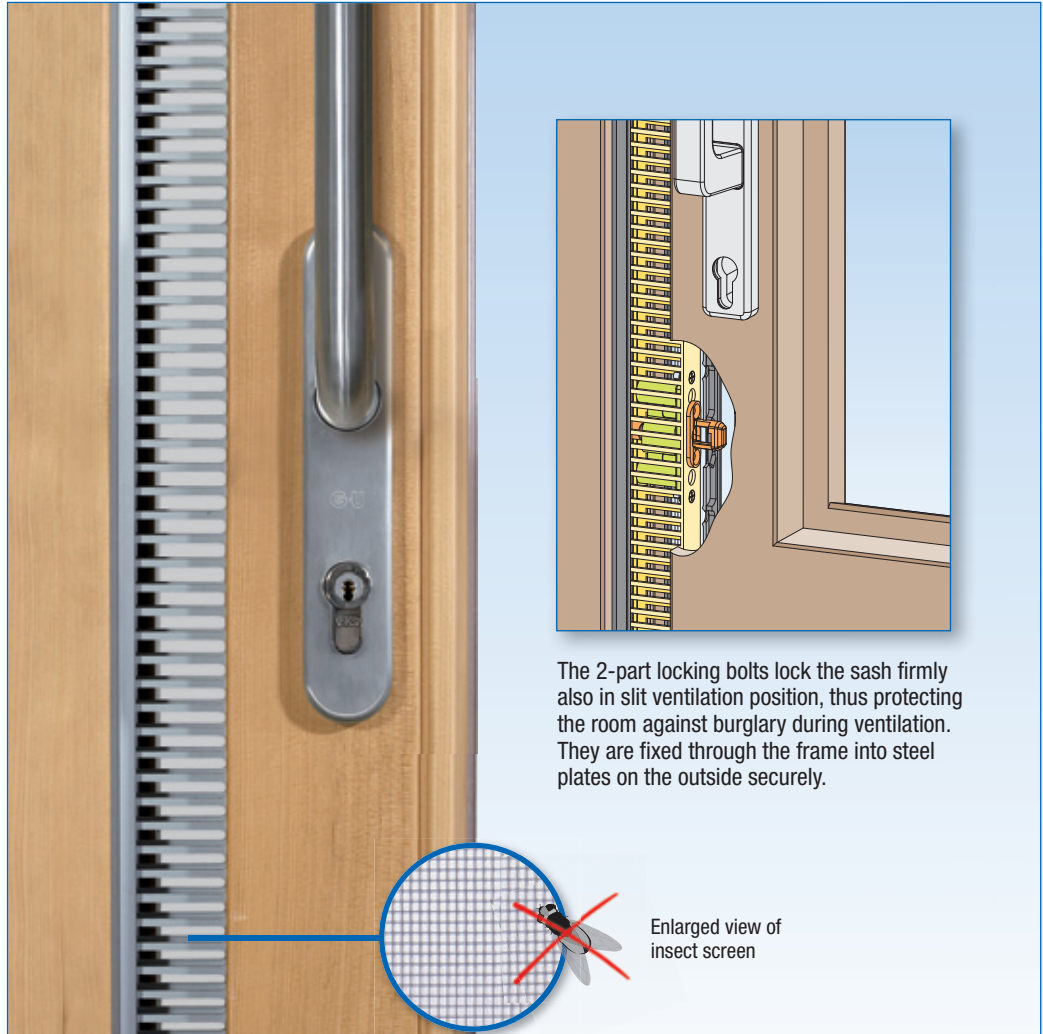
The recently developed slit ventilation system offers convenient room ventilation plus the extra benefit of a burglary protection feature.

Elements fitted with a slit ventilation module are

- locked securely even in ventilation position
- tested to ENV 1627 for burglar resistance grade WK2
- installable in lift-slide units G.U-934 and G.U-937 (timber and various PVC systems) with minimal effort

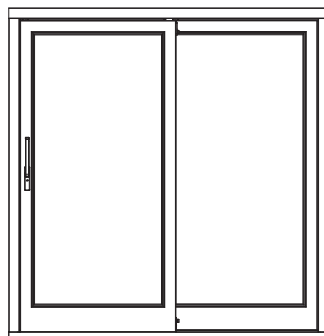
Further features:

- Ventilation grid profile made from anodised aluminium, with integral insect mesh
- Sealing towards frame and threshold with optimally adapted connectors

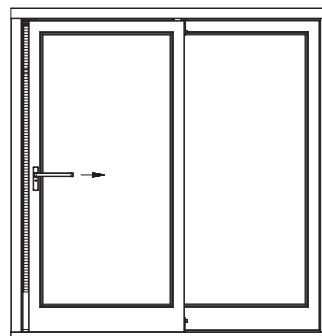


The 2-part locking bolts lock the sash firmly also in slit ventilation position, thus protecting the room against burglary during ventilation. They are fixed through the frame into steel plates on the outside securely.

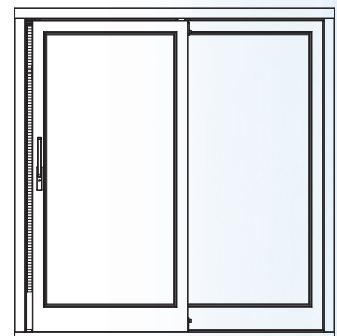
Enlarged view of insect screen



Closed position: sash is closed and locked



Sliding position with handle at 90° position



Slit ventilation position: sash is locked

Innovationspreis  
Architektur und Bauweser

In the context of the Architecture and Civil Engineering Innovation Awards having taken place on the occasion of the trade fair BAU 2009, the company group Gretsch-Unitas was awarded a prize for this product.



## Safe operation of large and heavy elements



The HS-SPEED Limiter is discretely concealed under a cover profile.



Thanks to sophisticated safety technology, the HS-SPEED Limiter excludes the risk of injuries that might occur when heavy sliding sashes are moved. The picture shows a transparent cover revealing the mechanism.

When a large and heavy lift-slide element is opened or closed, the sash gains momentum due to the built-up kinetic energy and can only be slowed down with difficulty.

The HS-SPEED Limiter prevents the sliding sash from accelerating too fast, thus avoiding personal injury and damage to the property itself.

The system is therefore especially suited for use in buildings with enhanced safety requirements such as, e.g., schools and kindergartens.

Further benefits:

- The usual operating comfort is not affected
- Simple installation
- Retrofittable
- Suitable for timber, PVC, and aluminium elements

Range of application	G.U-934	G.U-937
Max. sash width	3300 mm	2200 mm
Max. sash height	2765 mm	2765 mm
Max. sash weight	400 kg	150 kg
For sash arrangement schemes A, C, G and K.		

## The most convenient way of door opening

Tried-and-tested lift-slide fittings combined with modern drive technology – the HS-*Master* meets the demand for high-convenience living and provides for barrier-free solutions.

- Motor-driven operation: lifting the sash, moving it to the desired opening width, and closing is as easy as anything
- Operating options
  - Wall switch / key switch
  - Radio remote control
  - Push and go
  - Lever handle
- The HS-*Master* features a standard limit switch. Additional safety components such as a light barrier or a light curtain are available as an option.
- Suitable for timber, PVC, and aluminium elements
- In combination with low thresholds, the easily operable HS-*Master* is downright predestinated for barrier-free dwellings
- Recommended for hospitals, retirement and care homes, and handicapped facilities
- Delivered as tailor-made and preassembled drive unit with various options
- Simple installation
- Existing G.U-934 lift-slide elements can be retrofitted without any problem
- The complete system including all safety components is tested by DEKRA
- Extremely low noise drive system



Screwed to the frame, the HS-*Master* drive mechanism does not protrude into the door lintel. With its unobtrusive appearance thanks to the small installation height of 100 mm, the drive system does not interfere in any way with a room's interior design.

Range of application	HS- <i>Master</i> scheme A
Sash weight (kg)	up to 300
Sash rebate width (mm)	950 – 3300
Sash rebate height (mm)	1840 – 2765



## Great ease of operation also for 2-sash elements



Sash lifting, sliding and closing with the proven HS-Master technology. Offering convenient passage thanks to very large opening widths, this lift-slide fitting system is ideally suited for "Accessible Dwellings" to DIN 18025.

- Sophisticated safety technology guarantees for outstandingly safe operation. Light barrier, light curtain, or radar sensors are available as an option.
- The operating options are the same as with scheme A, and equally quiet
- Sensitive speed and force regulation
- The complete system including all safety components is tested by DEKRA



Range of application	HS-Master scheme C
Sash weight (kg)	up to 300
Sash rebate width (mm)	950 – 3300
Sash rebate height (mm)	1840 – 2765





for sophisticated living areas

Another trendsetting highlight in our range of motor-driven lift-slide fittings is the new type HS-**Master** CONCEALED which is installed in the profile.

The exceptional feature of this system is the fact that the drive unit is completely integrated in the frame profile, whilst the linkage is concealed in the profile of the sliding sash.

- This concealed solution meets the highest demands with regard to design and appearance
- Naturally, the CONCEALED type offers the same benefits as the conventional HS-**Master** such as, e.g., suitability for barrier-free dwellings, easy and convenient operability and, last but not least, very simple installation: the drive system comes as a made-to-measure and pre-assembled set.
- Range of application:
  - Max. sash width 3300 mm
  - Max. sash height 2765 mm
  - Max. sash weight 300 kg
- For timber elements
- For aluminium elements on request

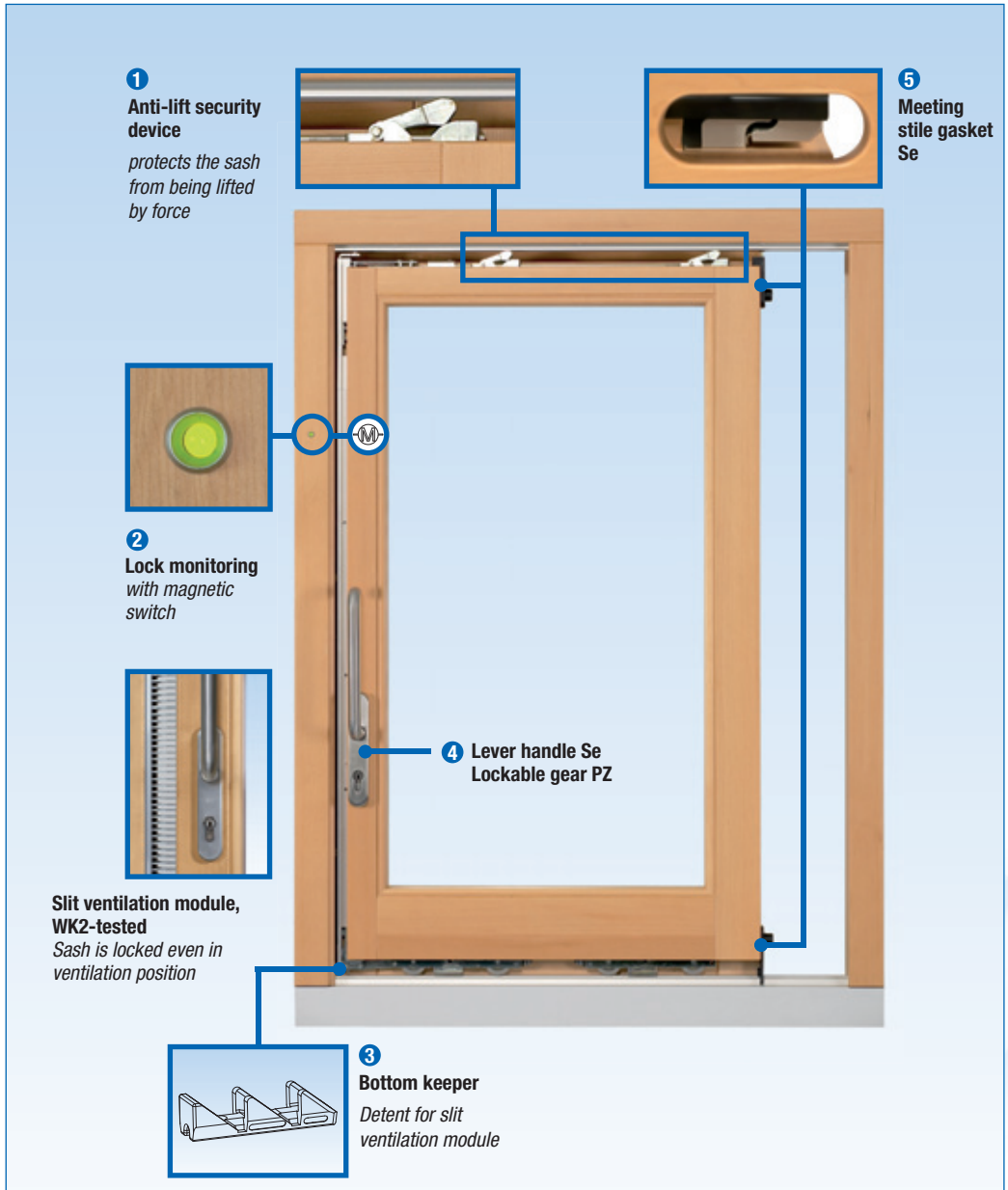


The complete system including all safety components is tested by DEKRA.



# Individually enhanced burglar protection

with additional optional security components



Windows and doors constitute the weak spots in a building unless they are fitted with adequate security components. Insufficiently secured windows and doors make it easy for unwelcome visitors to intrude into the house. Half of all burglar attempts made on window and door elements with robust security fittings are abandoned within a few minutes. The police therefore recommend burglar inhibiting fittings as the most efficient safeguard against housebreakers.


With the security components listed below it is possible to upgrade lift-slide elements in order to make them comply with today's security requirements:

- 1 Anti-lift security device
- 2 Magnetic switch (lock monitoring)
- 3 Bottom keeper
- 4 Lever handle Se, lockable
- 5 Meeting stile gasket Se



**Security gasket Se for the meeting stile**

The meeting stile gasket Se provides enhanced burglar inhibition: robust aluminium profiles engaging into one another prevent the sashes from being lifted open by force.



**Lever handles**

Lockable handles for inside or inside/outside operation can be mounted subsequently at any time, as the lift-locking gears are prepared for actuation via profile cylinder as a standard.



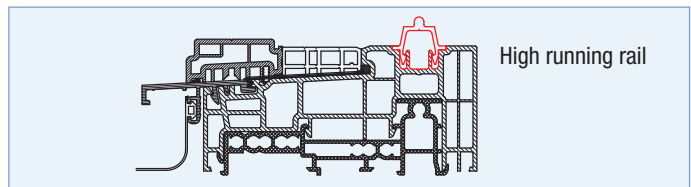
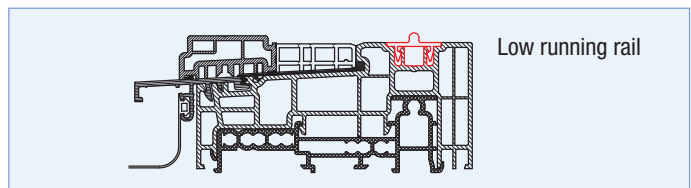
**Lock monitoring**

Simple upgrade with magnetic switch possible for all gears with mark.

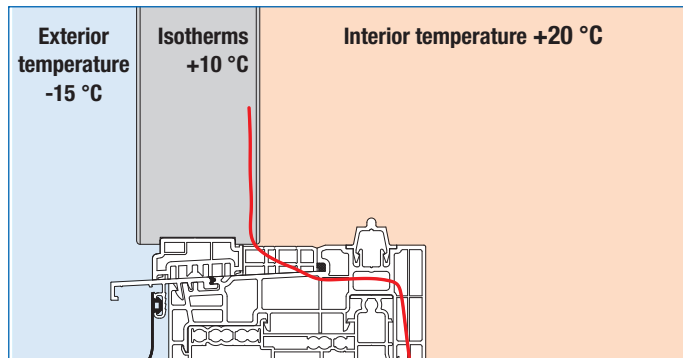
## Energy-efficient · barrier-free · retrofittable

The thermally broken threshold G.U-thermostep considerably reduces the heat flow at the bottom of lift-slide elements of timber and PVC, thus saving a considerable amount of energy.

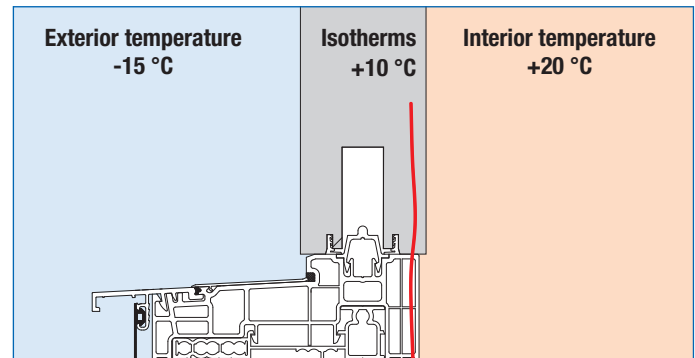
- The complete outside (weather side) is protected by an aluminium profile
  - Flexible modular system: threshold, variety of drip rails and running rails for snap-in attachment
  - Anti-moisture foil attached directly to the drip rail
  - Identical base profile for timber and PVC elements
  - All running rails can be exchanged subsequently
  - Suitable for barrier-free living
- Range of application: G.U-thermostep thresholds come in variants for
    - timber elements with 28 mm and 10 mm sash clearance
    - timber profile thicknesses 56 and 68 mm
    - timber profile thickness 88 mm with threshold extension
    - all market-leading PVC profile systems and various sash arrangement schemes



Isotherms of G.U-thermostep, scheme A – fixed sash



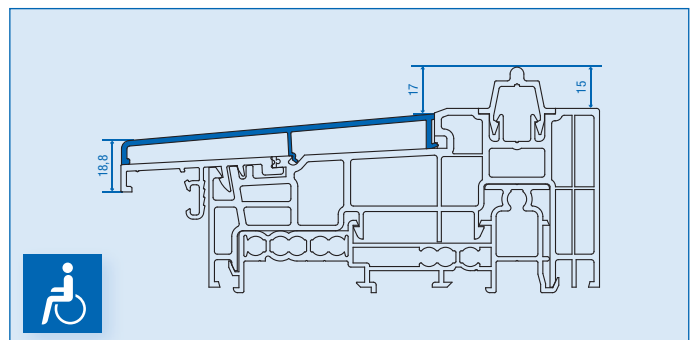
Isotherms of G.U-thermostep, scheme A – sliding sash



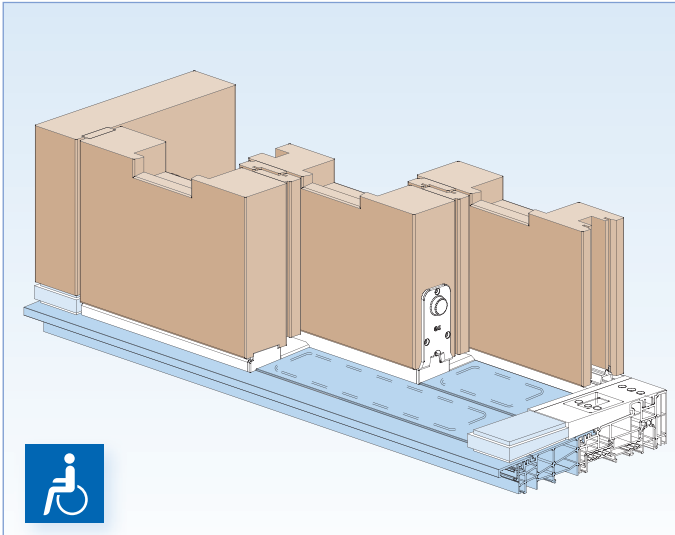
## Maximized user convenience with G.U-thermostep 'Comfortprofil'

The G.U-thermostep 'Comfortprofil' enables to turn a G.U-thermostep threshold with a 15 mm running rail into a barrier-free threshold.

- Lift-slide elements already installed can be retrofitted without any effort.
- The special benefit of this product is its fast and secure installation
- 'Comfortprofil' is designed for use with timber and PVC units



## Energy-efficient and barrier-free units also with schemes E and L

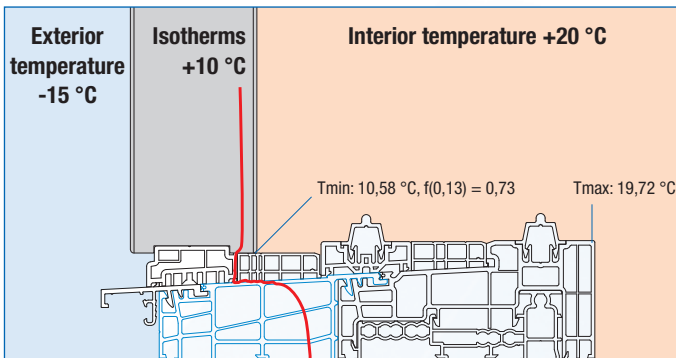


Even in the case of lift-slide units requiring a third track to accommodate two or four movable sashes ( $= \frac{2}{3}$  opening width), it is possible to achieve an extraordinary thermal break and save a lot of energy.

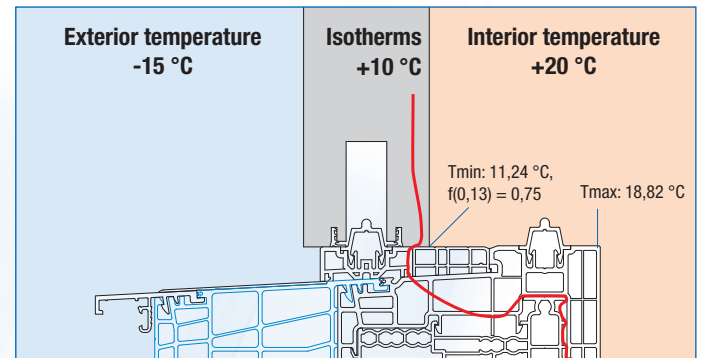
The extended installation depth of G.U-thermostep is obtained by means of an extension profile.

- All benefits of the proven G.U-thermostep threshold are maintained
- Variable composition of different tread threshold, drip rail and running rail types, all assembled in convenient snap-in technique
- Suitable for timber and PVC sash profiles up to a thickness of 88 mm
- Simple installation
- Suitable for barrier-free construction

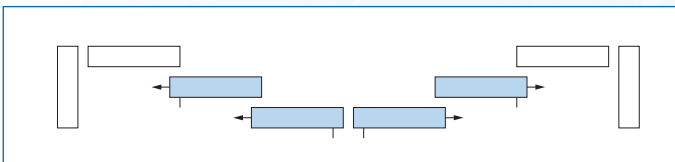
Isotherms of G.U-thermostep scheme E/L – fixed sash



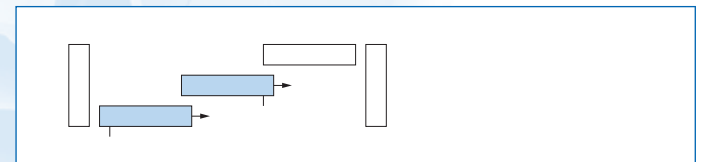
Isotherms of G.U-thermostep scheme E/L – central sash



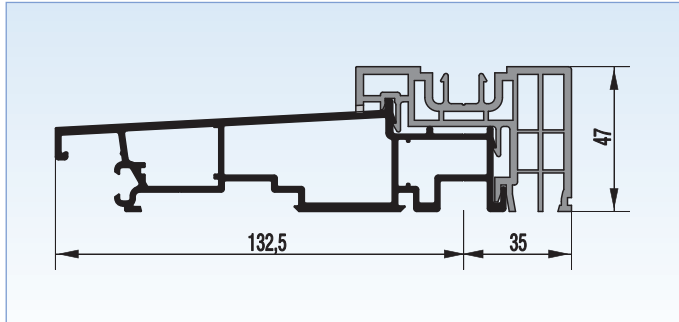
Sash arrangement scheme L



Sash arrangement scheme E

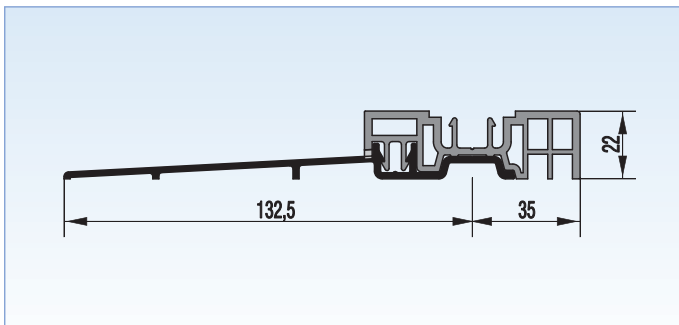






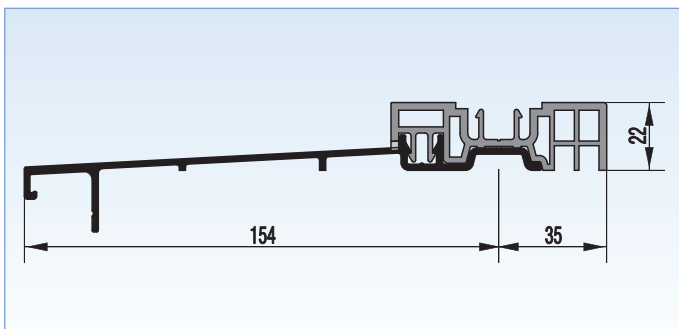
## G.U-threshold 47

- Small installation height of 47 mm
- Suitable for timber and PVC doors
- Including drip rail
- For up to 68 mm profile thickness



## G.U-flatstep

- Small installation height of 22 mm
- Suitable for timber and PVC doors
- For up to 68 mm profile thickness



## G.U-timberstep

- Small installation height of 22 mm
- Suitable for timber doors
- For up to 78 mm thick timber profiles

### Special features of the threshold system

- Threshold-to-frame connectors and other accessories are compatible with all threshold types presented here
- Exchangeable running rail
- Due to their small installation height, the thresholds are especially useful in the context of reusing existing buildings
- Sash clearance 28 and 10 mm
- Various sash arrangement schemes