# **ASSEMBLY INSTRUCTIONS** T / PVC



# PORTAL

**PSK 130 comfort** 

Parallel slide & tilt hardware for PVC and timber elements with 12 mm chamber dimension/airgap.

Window systems

Door systems

Comfort systems



### PSK 130 comfort Content

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PORTAL

### **PSK**

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### **PSK 130 comfort**General information





### 1 General information

### 1.1 Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the assembly, installation and maintenance of PORTAL hardware as the safe and professional assembly of the PORTAL hardware is not possible without the relevant expertise. Keep these assembly instructions in a safe place.

### 1.2 Intended use

- The parallel sliding tilting hardware PSK 130 comfort for use in windows or patio doors with PVC profiles.
- · Sash weight max. 130 kg.
- The PSK 130 comfort is intended for use in permanent buildings.
- The PSK 130 comfort allows the horizontal opening and closing of windows and patio doors from profiles for parallel slide & tilt elements.
- The parallel slide & tilt elements must be installed vertically, in no circumstances in a sloping position.

### 1.3 Improper use

- The hardware components described in these assembly instructions are manufactured from steel, zinc plated and then treated with a special process.
- They must not be used:
  - in wet rooms
  - in environments where the air contains aggressive or corrosive components
  - in environments where the air contains salt
- Please contact your SIEGENIA sales consultant in such cases

### 1.4 Safety notes

- Maintenance must be carried out on the PSK 130 comfort at least once a year.
   See PORTAL maintenance instructions
- For the PSK 130 comfort, the specifications provided by the profile manufacturers or system owners must also be adhered to with regard to possible restrictions on sash dimensions, sash weights and locking distances.
- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to. Functional disorders cannot be excluded otherwise.
- The specifications given for torques must be adhered to.
- Your complete set of hardware should solely be composed of SIEGENIA hardware components.
   Otherwise functional disorders and damage could occur, for which we accept no liability.
- If special safety aspects must be observed (e.g. for installation in schools, nurseries, hotels, etc.) we recommend the installation of a lockable handle or the use of the PS 200 COMFORT.
- All hardware components must be properly assembled as per the description on pages "Assembly" PSK hardware components and "Adjustment".
- PSK 130 comfort elements may only be surface treated before the hardware components are assembled. Treating these surfaces at a later stage can reduce the functional capacity of the hardware components. In such cases we are not obliged to honour any warranty.
- When block setting, please observe technical guideline no. 3 from the German Glazing Trade [Glaserhandwerk], "Blocking glazing units" [Klotzung von Verglasungseinheiten].
- Never use acid curing sealants as they may cause the hardware components to corrode.

- Never use acidic lubricants and cleaning agents in the vicinity of the guiding rail/the slider.
- Keep the running rail and all rebates free from dirt and debris, especially from deposits of cement and plaster. Avoid exposing the hardware directly to water and do not let cleaning agents come into contact with the hardware.
- We recommend cleaning the surfaces with a mild, pH neutral detergent solution in warm water. This will remove most contamination. After cleaning, always rinse the surface of the PVC profile with clear water.

### 1.5 Help and support

You will find further information on adjustment or processing possibilities under the following QR code.



The QR code sticker can also be found on components of the PSK element. Especially on the inside of the bogie wheels cover caps.

# 1.6 Directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

The directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.) provide comprehensive information on the correct operation and maintenance of hardware for windows and patio doors. We deem these directives to be binding.



You can find the latest versions of the directives, in a range of languages here:

http://www.beschlagindustrie.de/ggsb/richtlinien.asp

VHBH – Hardware for windows and patio doors Guidelines/notes on the product and on liability

### VHBE – Hardware for windows and patio doors

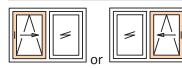
Guidelines and notes for end users

#### 1.7 Dimensions

All dimensions are nominal values and include the general tolerances (formerly "dimensional variations"). All nominal values are given in mm.

### 1.8 Scheme overview

### Scheme A



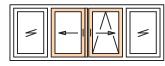
DIN left DIN right
Scheme A with 1 sliding sash/1 fixed sash\*

#### Scheme G



Scheme G with 1 sliding sash/2 fixed sashes\*

### Scheme C



Scheme C with 2 sliding sashes/2 fixed sashes\*

### Scheme K



Scheme K with 2 sliding sashes/1 fixed sash\*

\* Turning sashes instead of the fixed sash are also possible. Turning sashes with rose inside only and removable handle (see handle catalogue).





### 1.9 Operating sequence

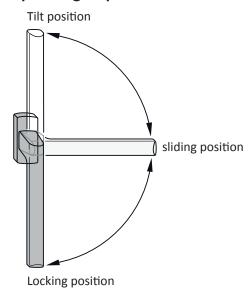
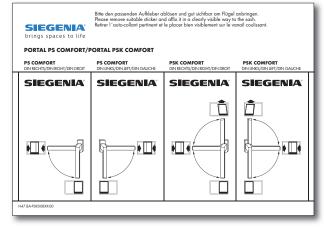


Abb. 1: Operating sequence for PSK 130 comfort

### 1.10 Operating sticker

Attach the operating sticker (slide direction DIN left or DIN right) in a visible position on the installed parallel slide & tilt sash.

The operating sticker is enclosed in the tilt stay carton Abb. 2: Operating sticker PS/parallel sliding tilting hardware



comfort

### **ATTENTION:**

primary and secondary sashes must be labelled accordingly to prevent faulty operation.

The sliding sashes may be operated only in the order specified below.

Opening: primary sash first 1.

then secondary sash 2.

Closing: secondary sash first 2.

then primary sash 1.

### 1.11 Application diagram

It is essential to observe the application diagram for PS 130 comfort H58.AWD\_P\_S011EN.

# **PSK 130 comfort** Processing specifications

PORTAL

### **PSK**

### **2** Processing specifications

### 2.1 Size ranges

| Scheme version           |              | А           | С           |
|--------------------------|--------------|-------------|-------------|
| Sash rebate width (FFB)  | Sliding sash | 670* - 1200 | 670* - 1200 |
| Sash rebate height (FFH) | Sliding sash | 840* - 2360 | 840* - 2360 |
| Frame to sash clearance  |              | 1           | 25          |
| Sash weight              |              | max.        | 130 kg      |
|                          |              |             |             |

<sup>\*</sup> The specified minimum dimensions take priority over the TITAN installation instructions. Ratio sash height (FH) / sash width (FB) > 2.5:1

- SIEGENIA-Construction drawings PVC profiles:
  - PSK 130 comfort

Scheme A

Scheme C

Scheme G

Scheme K

- The size ranges specified above must not be exceeded.
- In addition, with regard to the SIEGENIA hardware PSK 130 comfort, the specifications of the profile manufacturers or system owners

also apply, especially with regard to possible restrictions on sash dimensions, sash weight and locking distance.

- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to.
- See the construction drawing for the respective profile system for further details.
- Screw heads must not project into the functional area of components. This can lead to material damage and loss of function.

### 2.2 Abbreviations

The following abbreviations are used in these assembly instructions:

F guide track FB Sash width

FFB Sash rebate width

FH Sash height

FFH Sash rebate height G Handle position

H Rear
L roller
M Centre

MV Central lock

OKFF Finished floor level PZ Profile cylinder

RAH Frame height

RFB Frame rebate width
S-ES Steel-enhanced security

S-RS Steel-roller increased security

SW Wrench size

V Front

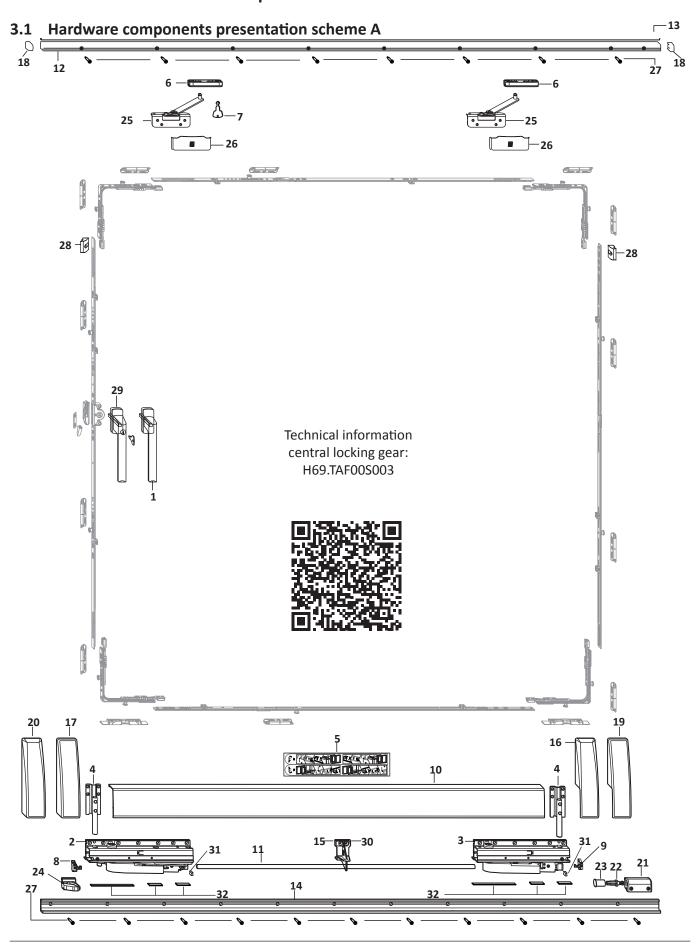
VSLS Locking side

VSO Locking side, top
VSU Locking side, bottom
ZV Central locking gear:





### 3 Overview of hardware components



### PSK 130 comfort Overview of hardware components

**PORTAL PSK** 

### 3.2 Hardware list hardware components

|      |     | ces |  |       |                 |                       | Materi                   | al number         |         |          |
|------|-----|-----|--|-------|-----------------|-----------------------|--------------------------|-------------------|---------|----------|
| Item | Sch | eme | Material description                                 |       | Basis           | is Add-ons for colour |                          |                   |         |          |
|      | А   | С   |  |       |                 | Silver                | RAL 9003<br>signal white | RAL 8022<br>brown | F9      | old gold |
| 1    | 1   | 2   | Handle C: line DCV                                   | 31    | PHIJ0010        | 872086                | 858264                   | 895634            | -5H401_ | -5H001_  |
| 1    | 1   | 2   | Handle Si-line PSK 35 PHIJ0030 875902                |       | 875902          | 875926                | 895689                   | -5H401_           | -5H001_ |          |
|      | 1   | 2   | Carton bogie wheels PSK comfort right consisting of: |       |                 |                       | PMKJ10                   | 31-10001_         |         |          |
|      | 1   |     |  |       | PMKJ1032-10001_ |                       |                          |                   |         |          |
| 2    | 1   | 2   | Bogie wheels PSK Comfort V                           | Front |                 |                       |                          |                   |         |          |
| 3    | 1   | 2   | Bogie wheels PSK Comfort H                           | Rear  |                 |                       |                          |                   |         |          |
| 4    | 2   | 4   | Vertical supporting part PSK<br>Comfort              |       |                 |                       |                          |                   |         |          |
| 5    | 1   | 2   | Sticker PSK bogie wheels safeguard                   |       |                 |                       |                          |                   |         |          |
| 6    | 2   | 4   | Slider PSK Comfort                                   |       |                 |                       |                          |                   |         |          |
| 7    | 1   | 2   | PORTAL key   |       |                 |                       |                          |                   |         |          |
| 8    | 1   | 2   | Bogie wheels safeguards                              | Front |                 |                       |                          |                   |         |          |
| 9    | 1   | 2   | Bogie wheels safeguards                              | Rear  |                 |                       |                          |                   |         |          |

depending on sash rebate width (FFB)

|    |     |     | i sasii resate widtii (115)            | Size    | FFB       | Basis                | Δdd-on            | s for colour           |
|----|-----|-----|--|---------|-----------|----------------------|-------------------|------------------------|
|    |     |     | - 61                                   | 87/200  |           | PMPJ1100             | Silver: -52501_   | F9: -5H401_            |
|    | 1   | 2   | Profile set PSK comfort consisting of: | 107/240 |           | PMPJ1110<br>PMPJ1120 | RAL 9001: -50101_ | old gold: -5H0001_     |
|    |     |     | consisting of.                         | 130/286 | 1071-1300 |                      | RAL 9003: -50201_ | middle bronze: -53101_ |
|    |     |     |  |         |           |                      | RAL 8022: -51201_ |                        |
| 10 | 1   | 2   | Cover rail L                           |         |           |                      |                   |                        |
| 11 | 1   | 2   | Connecting rod L                       |         |           |                      |                   |                        |
| 12 | 1   | 2   | guide track                            |         |           |                      |                   |                        |
| 13 | 1   | 2   | Cover rail F                           |         |           |                      |                   |                        |
| 14 | 1   | 2   | Running rail                           |         |           |                      |                   |                        |
| 15 | 0-2 | 0-4 | Supporting piece L                     |         |           |                      |                   |                        |

for comfort style version

|    |   |  | _                       | Basis             | Add-on             | s for colour           |
|----|---|--|-------------------------|-------------------|--------------------|------------------------|
|    |   |  |                         |                   | Silver: -02501_    | F9: -0H401_            |
|    | 1 | 1 2 Bag cover cap set PSK comfort Style consisting of: | PMAJ2050                | RAL 9001: -00101_ | old gold: -0H0001_ |                        |
|    |   |  | Consisting of           | PIVIAJZUSU        | RAL 9003: -00201_  | middle bronze: -03101_ |
|    |   |  |                         |                   | RAL 8022: -01201_  |                        |
| 16 | 1 | 2  | Cover cap L Style right |                   |                    |                        |
| 17 | 1 | 2  | Cover cap L Style left  |                   |                    |                        |
| 18 | 2 | 4  | Cover cap F             |                   |                    |                        |

| for c | omf | ort S | Soft version                                       |             |                 |                            |                           |            |               |             |  |
|-------|-----|-------|--|-------------|-----------------|----------------------------|---------------------------|------------|---------------|-------------|--|
|       |     |       |  |             | Ва              | sis                        |                           | Add-or     | ns for colour |             |  |
|       |     |       |  |             |                 |                            | Silver: -02501_           |            | F9: -0I       | F9: -0H401_ |  |
|       | 1   | 2     | Bag cover cap set PSK comfort Soft consisting of:  |             | Daga.           | 4050                       | RAL 9001                  | : -00101_  | old gold:     | -0Н0001_    |  |
|       |     |       | Consisting of:                                     |             | PMAJ            | 1050                       | RAL 9003                  | : -00201_  | middle bron   | ze: -03101_ |  |
|       |     |       |  |             |                 |                            | RAL 8022                  | : -01201_  |               |             |  |
| 19    | 1   | 2     | Cover cap L Soft right (an alternative to item 16) |             |                 |                            |                           |            |               |             |  |
| 20    | 1   | 2     | Cover cap L Soft right (an alternative to item 17) |             |                 |                            |                           |            |               |             |  |
| 18    | 2   | 4     | Cover cap F  |             |                 |                            |                           |            |               |             |  |
|       | 1   | 2     | Bag of accessories running rail PSK comfort        | right       | PMZJ1051        | Silver<br>- <b>10001</b> _ | Black<br>- <b>09901</b> _ |            |               |             |  |
|       |     |       | consisting of:                                     | left        | PMZJ1052        | -10001_                    | -09901_                   |            |               |             |  |
| 21    | 1   | 2     | Stop   |             |                 |                            |                           |            |               |             |  |
| 22    | 1   | 2     | Stop body  |             |                 |                            |                           |            |               |             |  |
| 23    | 1   | 2     | Stop sleeve  |             |                 |                            |                           |            |               |             |  |
| 24    | 1   | 2     | Trigger  |             |                 |                            |                           |            |               |             |  |
| 25    | 2   | 4     | Tilt stay PSK 100                                  |             |                 |                            | PSKJ00                    | 50-100010  |               |             |  |
| 26    | 2   | 4     | Cover cap S  | RH and LH   | PKAJ0070        | -02505_                    | -00205_                   | -01205_    | -0H405_       |             |  |
| 27    | 1   | 20    | Tap SK H2 3,9x32 DIN7504 for                       | PVC systems |                 |                            | PZUJ00                    | 010-00008_ |               |             |  |
| 21    | 1-  | 20    | Sash lifter; screw SHR AW20 4,1x30 for time        | ber systems | PZUJ0020-00008_ |                            |                           |            |               |             |  |

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### PSK

# **PSK 130 comfort**Overview of hardware components





|      | Pieces |                      |       |                    | Material number          |                   |    |          |  |
|------|--------|----------------------|-------|--------------------|--------------------------|-------------------|----|----------|--|
| Item | Scheme | Material description | Basis | Add-ons for colour |                          |                   |    |          |  |
|      | A C    |                      |       | Silver             | RAL 9003<br>signal white | RAL 8022<br>brown | F9 | old gold |  |

### Accessories

| 28 | 2   | 2                             | Distance piece  |            |               |          | see profile data sheet |               |               |                 |          |
|----|-----|-------------------------------|---|------------|---------------|----------|------------------------|---------------|---------------|-----------------|----------|
| 29 | 4   | 2                             | Handle Si-line PSK ABS                                | lockable   | 31            | PHIJ0020 | 872093                 | 858318        | 895641        | -               | -5H001_  |
| 29 | 1   | . Z natitule 31-title PSK ABS | lockable  | 35         | PHIJ0090      | -        | 875957                 | 895696        | _             | -5H001_         |          |
| 30 | 1-2 | 2-4                           | Supporting piece L                                    | Carton wit | h 100 piece   |          |                        | PZLJ10        | 10-09906_     |                 |          |
| 31 | 1   | 2                             | Sealing brush set 13 mm                               |            |               |          |                        | PZUJ00        | 30-00001_     |                 |          |
|    |     |                               |   |            |               | Height:  | 1 mm                   | 2 mm          | 3 mm          | 4 mm            | 8 mm     |
| 32 | 1   | 2                             | Distance plate set LW for support of the bogie wheels | С          | onsisting of: |          | PMZJ1060               | PMZJ1070      | PMZJ1080      | PMZJ1090        | PMZJ1100 |
|    |     |                               | Tot support of the bogie wheels                       |            |               |          | -00001_                | -00001_       | -00001_       | -00001_         | -00001_  |
|    | 2   | 4                             | Distance plate 120 x 11                               |            |               |          | Plate height           | t depending c | n profile; se | e product catal | ogue or  |
|    | 4   | 8                             | Distance plate 28 x 11                                |            |               |          | constructio            | n drawing for | determination | on              |          |

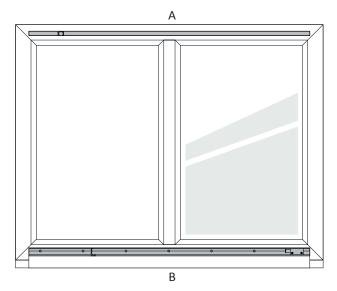
02.2020





### 4 Assembly of the hardware components

### 4.1 Installing the running rail and guiding rail



### **▲** DANGER

Danger to life due to sliding sash falling out

Wrong position of the guiding and running rail.

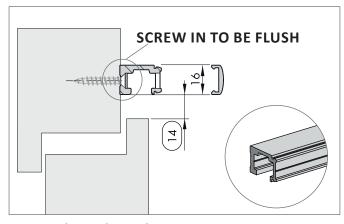
• Adhere to the positioning dimensions.



The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.

**A** guide track

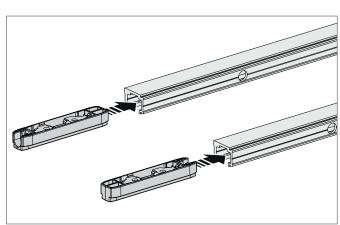
**B** Running rail



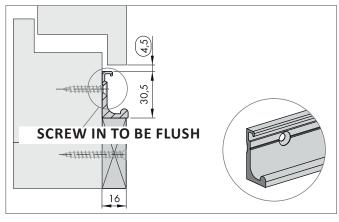
Position the guiding rail.

Observe the construction drawing related to the profile  $% \left( x\right) =\left( x\right) +\left( x\right)$ 

The screws must be screwed to be flush with the running rail. A projection is not permissible.



Push both sliders into the guiding rail.



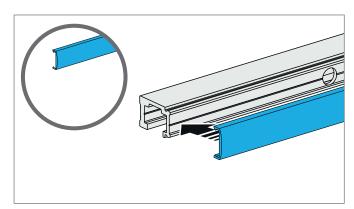
Position the running rail. Observe the construction drawing related to the profile.

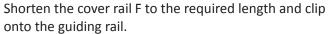
Attach load-bearing, end-to-end running rail support when assembling the hardware.

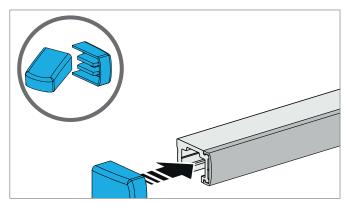
The screws must be screwed to be flush with the running rail. A projection is not permissible





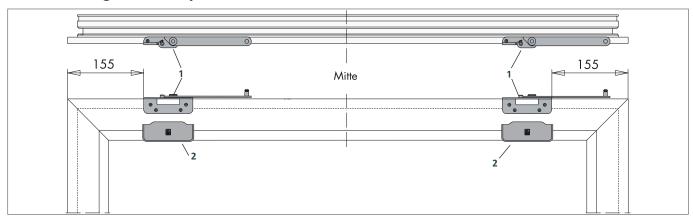






Attach a cover cap F to each end of the guiding rail.

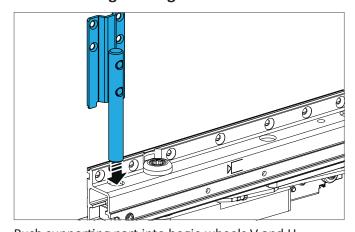
### 4.2 Installing the tilt stay



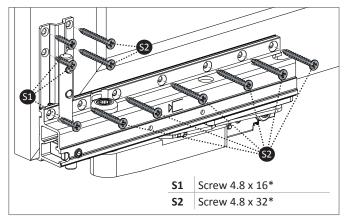
Screw the tilt stay RH and LH to the sash 155 mm from the sash edge (1.).

Clip on cover cap K RH and LH (2.).

### 4.3 Installing the bogie wheels

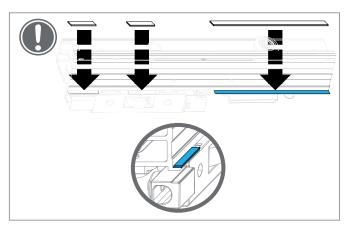


Push supporting part into bogie wheels  $\mbox{\ensuremath{\mathsf{V}}}$  and  $\mbox{\ensuremath{\mathsf{H}}}$ 



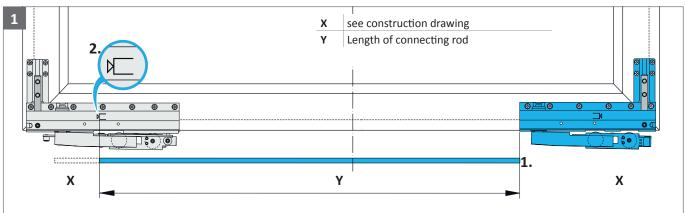
Screw both bogie wheels tightly onto sliding sash according to their position.

<sup>\*</sup>Screw length dependent on profile

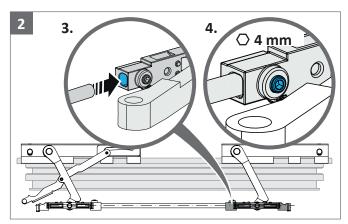


According to the profile system, the optional distance plates must be used (item 32 Overview of hardware components, page 10)

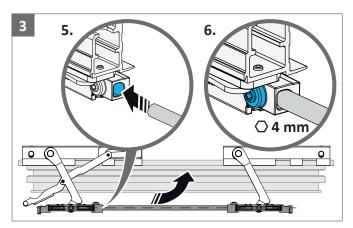
### 4.4 Installing the connecting rod



Place connecting rod on the H bogie wheels (1.). Transfer the crop indication on the cropping mark of bogie wheels V, to the connecting rod (2.) and crop the connecting rod.



Insert connecting rod into H bogie wheels (3.) and fix with head cap screw (4.). Torque 10-11 Nm.

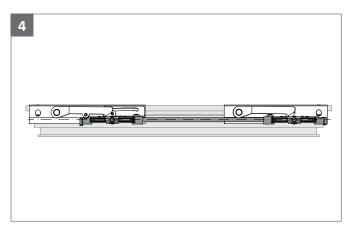


Push connecting rod into bogie wheels V (5.). Bring the bogie wheels housing with connecting rod into the closed position. Now fix the connecting rod with a head cap screw (6.). Torque 10-11 Nm.

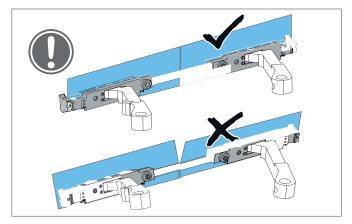
# **PSK 130 comfort**Assembly of the hardware components





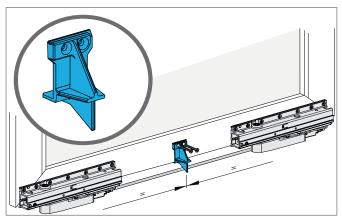


The bogie wheels housing must be standing parallel in the closed position.



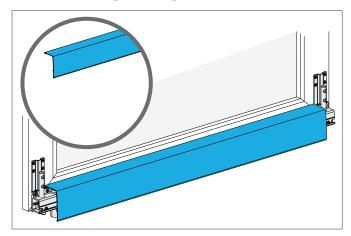
After the fixation of the connecting rod, the bogie wheels housing must align with each other.

### 4.5 Installing supporting piece L

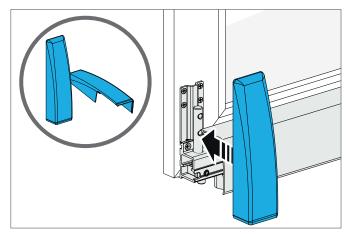


Position supporting piece L for cover rail L centrally and screw into place with 4.8 x 35 screws

### 4.6 Mounting the bogie wheels cover



After the sash has been inserted into the frame, attach the cover rail L.



Attach the cover caps L to the respective bogie wheels.





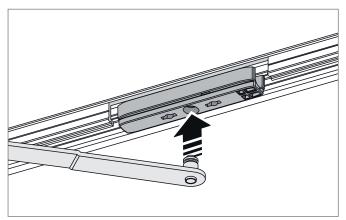
### 4.7 Inserting the sliding sash and connecting with frame

### **▲** DANGER

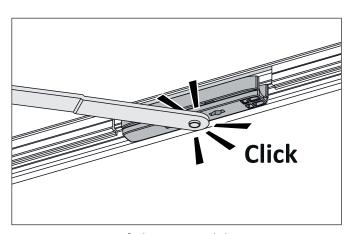
Danger to life due to sliding sash falling out

Stay arm has not engaged.

• Confirm that the coupling bolt is engaged in the slider by pulling on the stay arm.



Place stay arms of tilt stay into tilt position. Position the sash on the running rail at an incline and insert the coupling bolt of the stay arms into the slider.



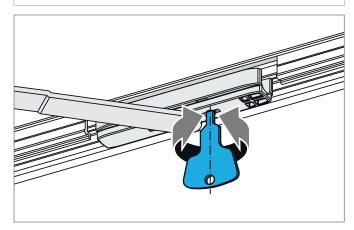
Snap in stay arms of tilt stay into slider.

### 4.8 Releasing and removing the sliding sash from the frame

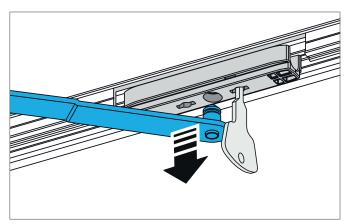


Only the PORTAL key may be used to release the stay arms in the slider; if other tools are used,

there is a danger of damaging the slider.



Place stay arms of tilt stay into tilt position. Release stay arms from the slider using the PORTAL key.



Lift off the stay arms of the tilt stay.

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# **PSK 130 comfort**Assembly of the hardware components





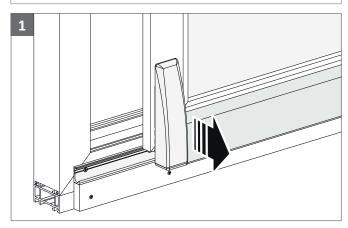
### 4.9 Installing the bogie wheels safeguards

### **A** DANGER

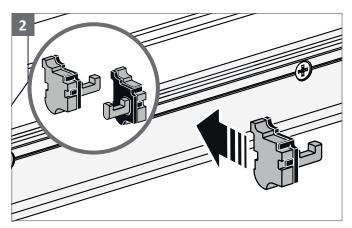
Danger to life due to sliding sash falling out

Not mounted bogie wheels safeguards.

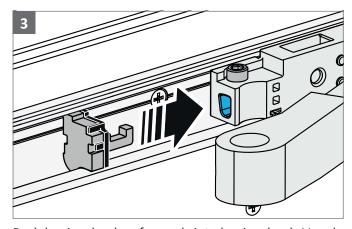
• The bogie wheels safeguards must be correctly installed in both bogie wheels of a sliding sash.



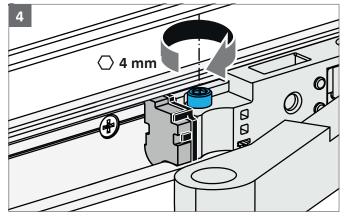
The bogie wheels safeguards can only be installed in a parallel positioned sash.



Position the relevant version (RH or LH) of the bogie wheels safeguards in the running rail.

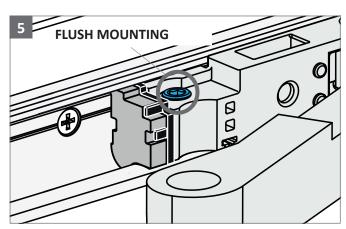


Push bogie wheels safeguards into bogie wheels V and H.

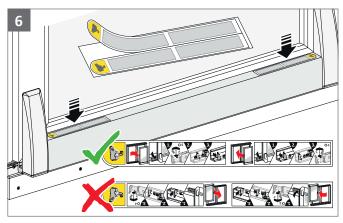


Fix the bogie wheels safeguards in the bogie wheels with a locking screw.

Assembly of the hardware components



The locking screw must be completely countersunk. Sicherungsschraube nicht überdrehen, Drehmoment max. 3 Nm.

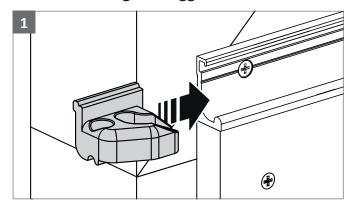


Adhere the notes sticker to the protective foil of the cover rail L. Pay attention to correct orientation of the sticker.

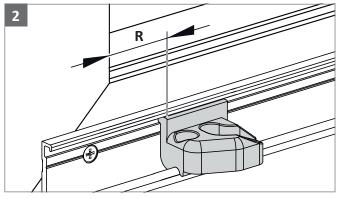
### 4.10 Removing the bogie wheels safeguards

The removal of the bogie wheels safeguards is carried out in reverse sequence to the installation.

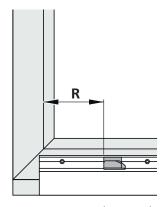
### 4.11 Positioning the trigger



Slide the trigger sideways into the running rail.



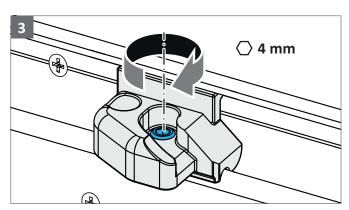
Position the trigger according to the profile.



| Rebate width | R  |
|--------------|----|
| 18           | 16 |
| 19           | 15 |
| 20           | 14 |
| 21           | 13 |
| 22           | 12 |
|              |    |

Dimension R is designed to the position of bogie wheels V.

If the position of bogie wheels V is changed, the position of the trigger must be adapted accordingly.



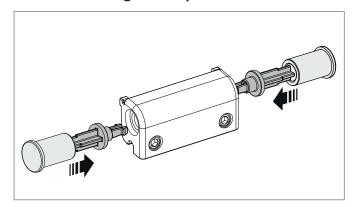
Fix trigger position with head cap screw. Torque max. 3 Nm.



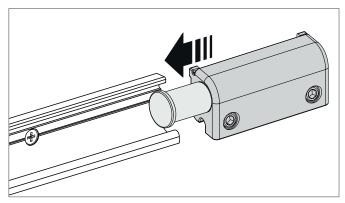




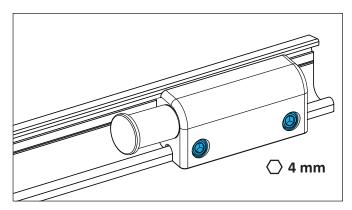
### 4.12 Positioning the stop



Assemble the stop according to the required DIN direction.



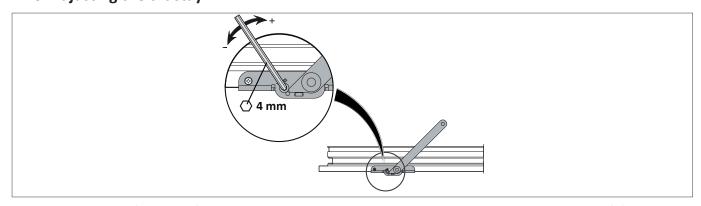
Slide the stop sideways into the running rail.



Fix stop into the running rail with Allen key SW 4. Final positioning only after the sliding sash has been installed. Torque max. 3 Nm. The screws must be fixed at alternating sides to obtain an even torque.

### **Adjustment**

### 4.13 Adjusting the tilt stay



Adjust the engaging function of the tilt stay with Allen key SW 4: turn in clockwise direction stronger (+), turn in anticlockwise direction weaker (-).

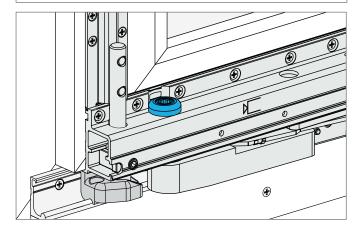




### 4.14 Elevating adjustment of the bogie wheels



A regulation of the elevating adjustment can be undertaken following the installation of the element in the object.



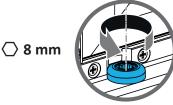
Height adjustment on the bogie wheels with Allen key SW 8.

Default setting in minimum position (0 mm)









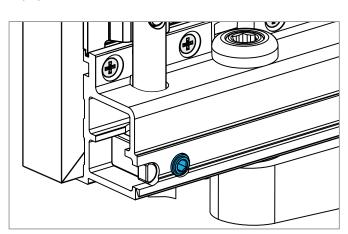


The maximum adjustment range must not be exceeded. One rotation is equivalent to 1 mm height adjustment.

Maximum adjustment: 4 mm

### 4.15 Adjustment of the tilt angle of the bogie wheels

Precision adjustment of the sash to the frame can be accomplished with the tilt adjustment of bogie wheels V und H.

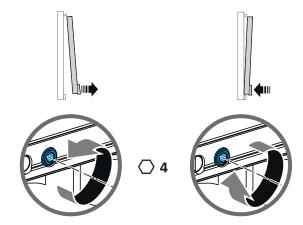


Tilt adjustment on the bogie wheels with Allen key SW 4.

Default setting in minimum position (0 mm)



Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.





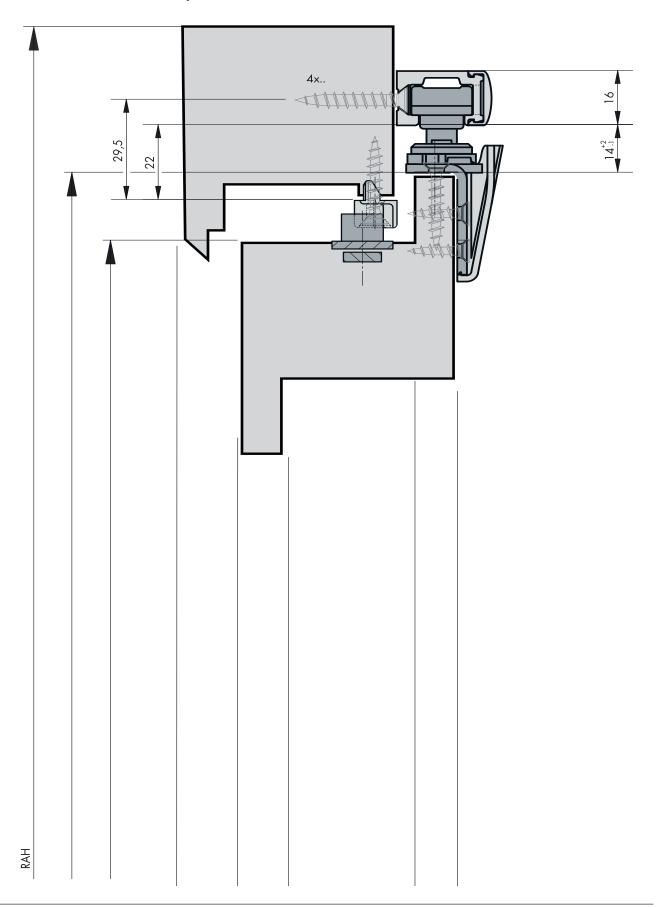
Adjustment path max. 2 turns from the minimum position.





### **5** Profile cross-sections

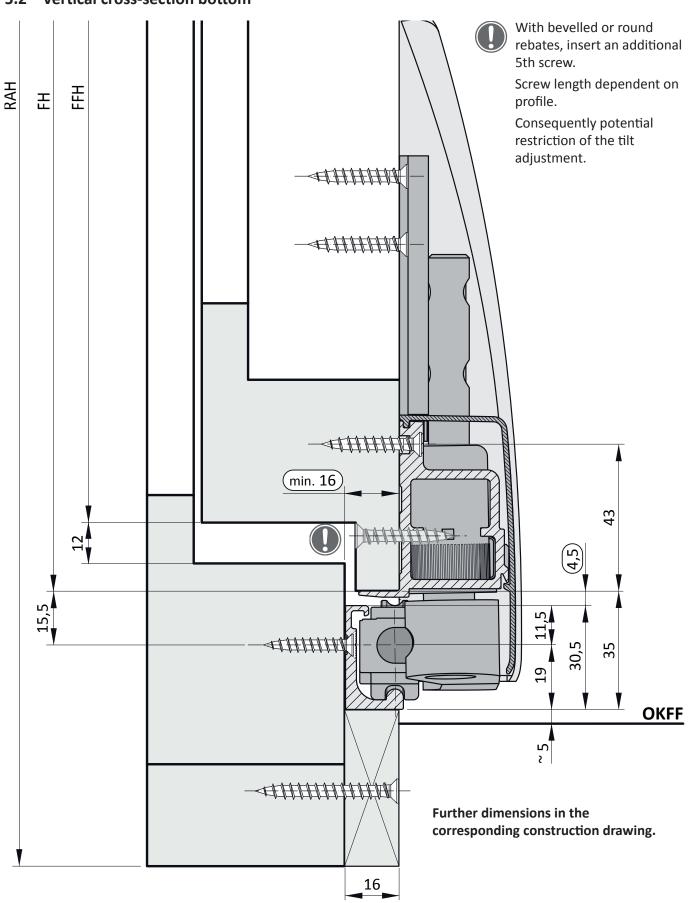
### 5.1 Vertical cross-section, top







### 5.2 Vertical cross-section bottom







### 6 Jigs

|  | Material description   | Tooling     | Material number |
|--|--|-------------|-----------------|
|  | PSK Comfort jig  |             | PAFL1010-09601_ |
| (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | for bogie wheels   |             |                 |
| ~~~  | PSK Comfort jig locking part   |             | PAEL1010-00001_ |
|  | for locking parts  |             |                 |
|  | PSK Comfort clamping jig   |             | PALJ0110-02101_ |
|  | for running and guiding rail   |             |                 |
|  | PSK EB 640/4 jig   |             | 143001          |
|  | For drill centring for fixing bore holes on guiding and running rail | Drill<br>Ø3 |                 |

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