

General Notes

The new features and changes are described in general terms. The availability of the systems, materials and functions is dependent on your configuration level of the program.

I. General program changes (for all design types)

Master data

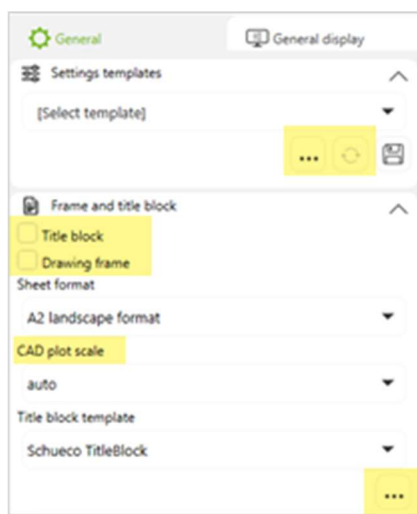
"Contacts" dialog box: Printing addresses on labels

As of this version, printing addresses as an address label is no longer supported. In the *Contacts* dialog box, the *Print labels* button has been removed.

Section display

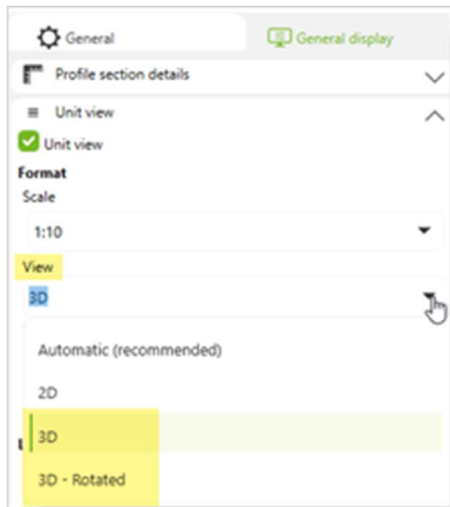
"Display profile section/unit appearance" dialog box: Various adjustments to the settings

Changes under the "General tab":



- Settings templates can now be defined as standard.
- Changes to the settings can now be applied to the currently selected templates. They no longer have to be saved as new templates.
- The display of the drawing frame and title block can now be controlled independently of one another.
- The name of the field for selecting the ratio of drawing content to paper space has been changed from *Scale* to *CAD plot scale*.
- The option to edit the title block template is now located under the *General* tab rather than in the *Advanced settings*. In the *Manage title block templates* dialog box, you can create user-defined title block templates.

Changes under the "General display" tab:



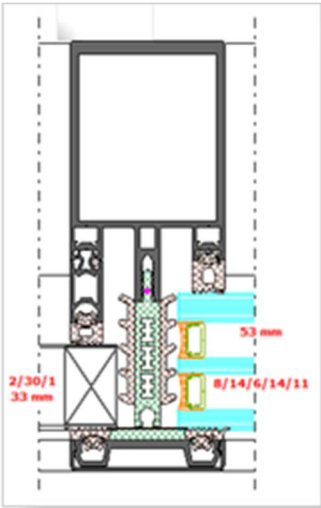
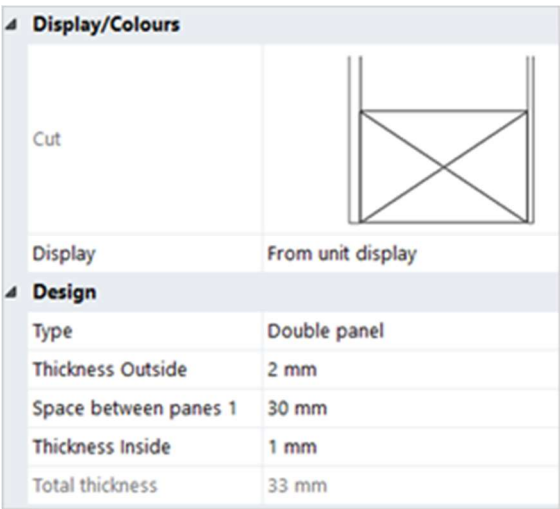
- The unit view can be exported in 3D format for CAD export again (*Unit view > View > 3D or 3D - rotated*).

Display in unit preview:

- Sections through openings that have been generated with an open vent are now displayed with a hatched area for the opening width when the *Total glass* display option is enabled.

Panels in profile section:
Changes to the display

As of this version, a detailed view of the panel composition is displayed.



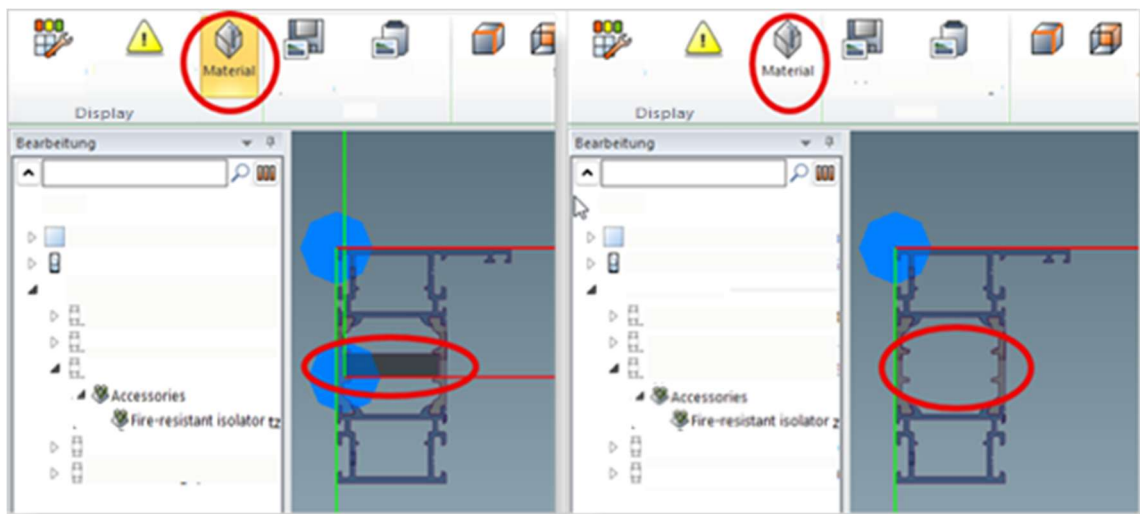
Machine control

Processing mode:

New "Material" button

As of this version, you will find the new *Material* button in the *View* tab under the *Display* group in the processing mode menu ribbon.

You can use this button to control the visibility of materials in the 3D profile view, which are listed in the tree structure of the *Edit* tab as the *Accessories* processing type (for example, isolators, sealing tapes). The materials are only hidden there. They remain visible in the tree structure and the calculation is retained.



Processing mode:

Variables for cutting angle

In the formula editor of processing mode, the variables *Cutting angle_start* and *Cutting angle_end* were already offered in the previous versions, as were the variables *Cutting angle_2_start* and *Cutting angle_2_end* for a second cutting angle.

As of this version, only two variables are now offered for the cutting angle for new processes.

- *Cutting angle*
- *Cutting angle_2*

The variables can be selected for processes with a reference point that is the zero point at the beginning or end of the profile. These variables automatically receive the current valid angle of the joint to which the latest process is assigned. This means that a single variable can be used at both ends of the profile.

For existing processes, the old variables will continue to be displayed as well.

II. Aluminium design type

II.1 Discontinued systems

Sliding units (aluminium)

As of this version, the following systems are no longer offered for new items.

System
Schüco ASS 70 FD
Schüco ASS 80 FD.HI

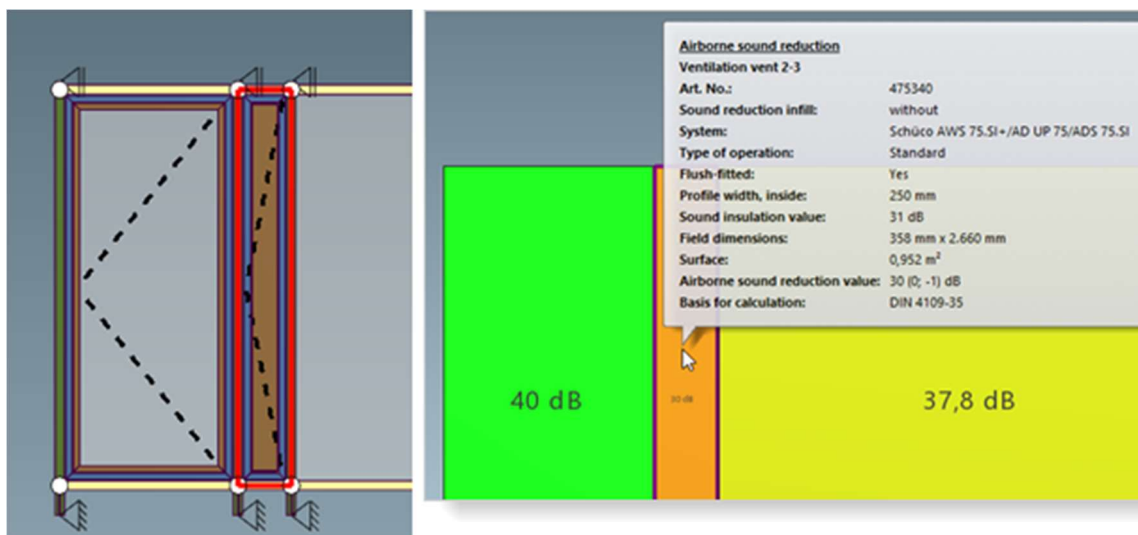
II.2 Changes to aluminium systems

For all systems (aluminium)

Airborne sound reduction

Airborne sound reduction value for Schüco AWS VV ventilation vent insert units

It was already possible in previous versions to calculate the sound reduction value for Schüco AWS VV ventilation vents as Schüco AWS window units. As of this version, the value is also calculated for Schüco AWS VV ventilation vents as insert units in façades.



For calculation as an insert in a façade, the values in accordance with DIN 4109-35/A1:2019-12, table 10-12, generally apply to inserts units in a façade. The R_w value for the ventilation vent in a window/door unit is used as the value for the insert unit infill.

Windows/doors (aluminium)

Schüco window sill system:

Addition of 380 mm and 400 mm window sill profiles

The new window sills and the corresponding accessories can now be selected.

- 380 mm window sill: Art. No. 587130
- 400 mm window sill: Art. No. 587140

The article numbers for the accessories can be found in the order pages (joint connector, inner and outer corners, end pieces for clinker, end pieces for plaster, window sill brackets, seals and window sill gaskets).

Schüco window sill system:

End pieces for clinker with gasket

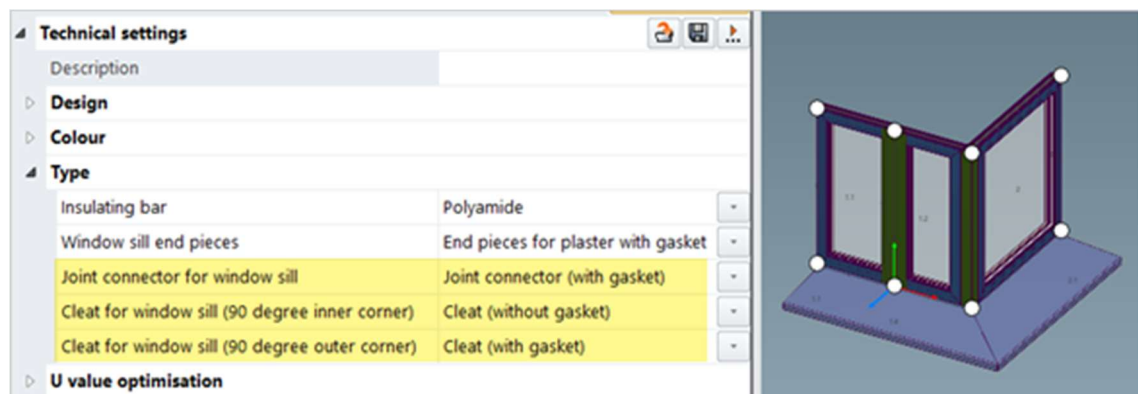
For the window sill system, *End pieces for clinker with gasket* have been added back into the range.

As of this version, these can be selected in the technical settings under the *Type* group in the *Window sill end pieces* selection list.

Schüco window sill system:

Calculation of the joint connector and cleats for inner and outer corners

For the calculation of the cleats, new selection lists have been added under the *Type* group in the technical settings.



- *Joint connector for window sill:*
Joint connector (with gasket), joint connector (without gasket), without
- *Cleat for window sill (90 degree inner corner):*
Connector (without gasket), without
- *Cleat for window sill (90 degree outer corner):*
Connector (with gasket); connector (without gasket), without

Schüco AvanTec SimplySmart, Schüco surface-mounted SimplySmart and Schüco outward-opening SimplySmart window fitting:**"DriveTec (NSHEVS EN 12101-2)" – Control unit selection**

For opening types with the operating type *DriveTec (NSHEVS EN 12101-2)*, as of this version, the control units for BSC functions can no longer be selected (Art. No. 263474 with 6 m cable provided by customer and Art. No. 263475 with 12 m cable provided by customer).

Please note:

This change affects existing items if one of these control units has been selected. The *DriveTec controller* (Art. No. 263484) is now calculated instead.

Schüco AvanTec SimplySmart window fitting:**Anti-turn stop for side-hung windows**

Opening types: 100: Side-hung window, DIN left and 101: Side-hung window, DIN right

Fittings type: BASIC – AvanTec SimplySmart,

Fittings version: 60/130 kg fitting; type 1 (standard – without additional locking points)

For these openings, anti-turn stop Art. No. 277085 or Art. No. 277086 can be deselected in the *Field properties* dialog box under the *Fittings* group. As of this version, deselection is no longer possible; the selection list has been removed. The article is now always calculated.

Please note:

This change affects existing items in which the option *Without* anti-turn stop has been selected. The anti-turn stop is now always calculated.

Comfort fitting for windows and window doors:**Fitting with requirement for reduced operating force**

Schüco AWS 70/75/90 window systems – turn/tilt and tilt-before-turn opening types with the operating types:

- *Standard gearbox with operating force requirements in accordance with EN 14351*
- *Gearbox, lockable, with operating force requirements in accordance with EN 14351*

The limit values for the calculation of the forces for easy operation of bottom-hung fittings have been adjusted in accordance with DIN 13115 class 2. As a result, different articles may be calculated to reduce the operating force for the specified opening types.

Please note:

This change may also affect existing items.

Schüco AWS/ADS 50.NI:**Alternative glazing beads**

As of this version, the technical setting *Glazing > Glazing bead size* is offered for this system. Here you can specify whether the small or large glazing bead is to be used for the glazing thicknesses for which alternative glazing options are available. The *Smallest possible glazing bead* is selected by default.

Schüco AWS 75.SI+/AD UP 75/ADS 75.SI:**Schüco AD UP Commercial doors – concealed hinge, Art. No. 279968**

The new concealed hinge can be selected for inward and outward-opening, single and double-leaf doors in the *Standard* security class.

Schüco AW RO 50 roof window – DriveTec (ventilation) type of operation:**Calculation of the free geometric ventilation surface area**

The calculation of the free geometric ventilation surface area, standardised in accordance with ASR 3.6 IFI (Institute of Industrial Aerodynamics) is now also possible for the roof window.

The *Geometric ventilation surface area Ageo* selection list has been added in the *Field properties* dialog box under the *Fittings* group. The *Ventilation cross section standardised in accordance with ASR3.6IFI* is set by default and cannot be changed. The result of the calculation is displayed underneath (in m², rounded to 4 decimal places).

Schüco ADS and Schüco AD UP door systems:**Change to claw bolt locks and claw bolt and pin locks:**

With 2025 R3 SP02, the program incorporates the changeover to the new BS 2600 series articles in accordance with the product transition from claw bolt locks to claw bolt and pin locks.

Art.-No. OLD	Description	Series	Art.-No. NEW	Description	Series
241397	SHB-Schloss 1flg TYP A 34	ADS	225861	SHB-Schloss 1flg TYP A 34	ADS
241398	SHB-Schloss 1flg TYP B 34	ADS	225862	SHB-Schloss 1flg TYP B 34	ADS
241403	SHB-Schloss Sich-bügel 1flg LS34	ADS	225863	SHB-Schloss Sich-bügel 1flg LS34	ADS
241404	SHB-Schloss Sich-bügel 1flg RS34	ADS	225864	SHB-Schloss Sich-bügel 1flg RS34	ADS
279157	SHB-Schloss Rollf 1flg34	ADS HD	225867	SHB-Schloss Rollf 1flg34	ADS HD
279396	SHB-Schloss bf 1flg34	ADS HD	225869	SHB-Schloss bf 1flg34	ADS HD
241496	SHB-Schloss 1flg39	ADS HD AD UP	225870	SHB-Schloss 1flg39	ADS HD AD UP
241735	SHB-Schloss 1flg34	ADS HD	279777	SHB-Schloss 1flg sb34	ADS HD
241737	Verlängerung SHB-Schl L500	ADS HD	279778	Zusatzverriegelung 500 sb	ADS HD

Sliding units (aluminium)

Schüco SmartClose and Schüco SmartStop locking comfort: Calculation changes

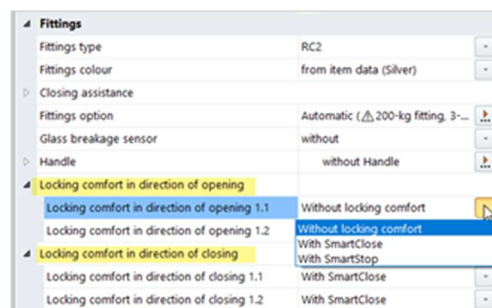
Schüco ASS 50, Schüco ASE 60, Schüco ASE 80.HI, Schüco ASE 60 LC, Schüco ASE 80 LC

This version includes the following changes:

- As of this version, new article numbers will be calculated for the new generation of Schüco SmartClose comfort accessories. The height adjustment device is included in the packing unit, which is why there is no longer the option to select it.
- The article numbers for Schüco SmartStop remain unchanged. However, the height adjustment device can no longer be selected here for Schüco ASS 50.
- There is an advanced option in the *Field properties* dialog box (*Fittings* group). In previous versions, you could only select either Schüco SmartClose or Schüco SmartStop for a unit. As of this version, Schüco SmartClose and Schüco SmartStop can be combined.

Please note:

These changes affect existing items. If possible, the settings made in previous versions will be copied over. However, there may be changes relating to height adjustment.



Schüco ASE 60, Schüco ASE 80.HI:

New calculation rules for the handle height

As of this version, the calculation of the possible handle heights has been corrected in accordance with the specifications in the order documentation.

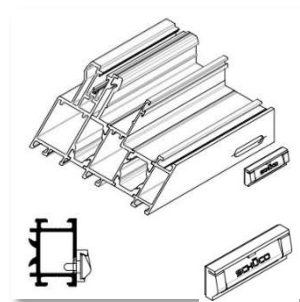
Please note:

This change applies to existing units if the *Fittings option* has been set to *Automatic* and the vent height is between 1432 and 1935 mm. In this range, the higher handle height is now calculated instead of the low handle height, which was previously the only option. If you still want to keep the alternative low handle height, you can manually select this option.

Schüco ASE 60, Schüco ASE 80.HI, Schüco ASE 60 LC, Schüco ASE 80 LC:

"Performance" drainage cover cap

As of this version, you can select the *Performance* entry for the *Cap type* property in the technical settings under the *Drainage / ventilation* group. By selecting this option, the corresponding processes and caps will be generated.



Art. No. 225677

Schüco ASE 60, Schüco ASE 80.HI, Schüco ASE 80 LC:**Technical setting for concealed drainage in the outer frame removed**

Concealed drainage/ventilation in the outer frame is not permitted. The technical setting has been removed for the stated systems.

Please note:

This change affects existing items if the *Concealed* option was selected for *Drainage/ventilation >Outer frame*. In this case, setting will be changed to *Without*.

Schüco ASE 60 and Schüco ASE 80.HI:**TipTronic fitting - sensor strip sealing gasket Art. No. 265619**

(As of 2025 R3 SP04)

To ensure a higher level of quality and safety, the sensor strip sealing gasket Art. No. 265619 is used as the standard gasket on the vertical closure side for all TipTronic systems, regardless of whether or not a sensor strip is installed.

The combination of gaskets Art. No. 244829 and Art. No. 244670 is only used with a light grid or key-operated switch.

Please note:

This change affects existing items.

Schüco ASE 60, Schüco ASE 80.HI**Fabrication time calculation – new trigger for TipTronic**

New triggers have been included for the fabrication time calculation.

Design type 0: windows/doors, aluminium:

Description	Time tables
TipTronic sliding fitting, fixed light	1, 3, 10
TipTronic sliding fitting, moving	1, 3, 10
Lift-and-slide TipTronic fitting, fixed light	1, 3, 10
Lift-and-slide TipTronic fitting, moving	1, 3, 10

Please note:

In previous versions, the times for the TipTronic fitting were triggered by the *Slide unit fittings, fixed light, Slide unit fittings, moving, Lift and slide unit fittings, fixed light, Lift and slide unit fittings, moving* triggers. As of this version, that is no longer the case. If you want to receive times for operating types with TipTronic fittings, you must re-assign the new triggers to the corresponding functions.

Schüco AS 39 SC.NI:**New push-in gasket for 4 mm and 24 mm glass thickness**

As of this version, for glass thicknesses of between 4 mm and 24 mm, a different article number is calculated if the *Push-in gasket* option is selected as the *Gasket for sliding vent* in the technical settings.

Old article	New article
244203	244199

Please note:

This change also affects existing items.

Schüco AS FD 75 and Schüco AS FD 90.HI:**Calculation of turn hinges**

The size and weight tables for the calculation of the turn hinges have been amended. As a result, there are new limit values for the calculation of additional centre turn hinges.

Please note:

This change affects existing items if the new table values no longer necessitate the use of an additional turn hinge. Then only two turn hinges will be calculated instead of the three that were previously.

Schüco AS FD 75 and Schüco AS FD 90.HI:**Cleaning fitting**

Since version 2025 R2, it has been possible for the cleaning fitting to be calculated for inward-opening units with the *Standard* fittings type for types with an odd number of vents.

The following changes apply to these odd number types:

- If a cleaning fitting has been selected, there is now also the option to choose monitoring of closing.
- A further change has been made to the calculation of the screws. This change affects existing items.

New – cleaning fitting also for types with an odd number of vents:

As of this version, this is also possible for types with an even number of vents. The option *Without cleaning fitting* is selected by default here.

Please note the following change in addition:

The technical setting *Type > Outer frame groove > With cover profile* cannot be combined with the cleaning fitting. If you select the cleaning fitting, the *Spacer profile, continuous* may be calculated instead.

Schüco AS FD 75 and Schüco AS FD 90.HI:**Gearbox with double cylinder**

As of version 2025 R2, gearbox Art. No. 269960 with a profile half cylinder and rosette can be calculated for profiles with a 104 mm face width (for C1 vents, A2 vents and for the optional gearbox for B3 vents).

If folding handles on the outside are also selected for the gearbox with a profile cylinder, as of this version you can also choose a double cylinder instead of the half cylinder.

Schüco AS FD 75, Schüco AS FD 90.HI:**Glass supports for 104 mm face width (22 mm glazing bead)**

Schüco AS FD 75: Art. No. 288163 (instead of Art. No. 220985)

Schüco AS FD 90.HI: New Art. No. 288165 (instead of Art. No. 220986)

The glass supports for the 90 mm face width remain unchanged.

Security systems (aluminium)

Schüco FireStop ADS 90 FR 30 Schüco FireStop ADS 90 FR 90

Adaptation and expansion of the system templates

With this version, the system templates in the following folders have been revised. In addition, you will find further system templates in the folders for the construction method with reverse rebate profile.

01 - Windows & doors > 02 - Doors > **04 - Fire and smoke protection, inward-opening**

- 01 - T-cleat construction method
- 02 - Frame construction method
- 03 - Mixed construction method
- 04 - Construction method with reverse rebate profile

01 - Windows & doors > 02 - Doors > **05 - Fire and smoke protection, outward-opening**

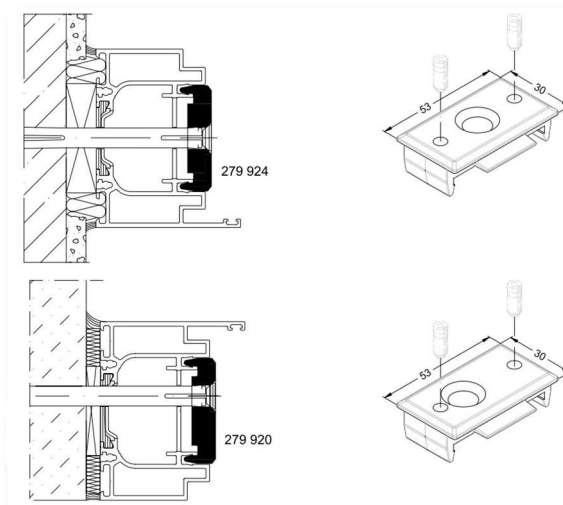
- 01 - T-cleat construction method
- 02 - Frame construction method
- 03 - Mixed construction method
- 04 - Construction method with reverse rebate profile

Please note: Create new items using these new system templates. When copying old items, the system template is not updated.

Schüco FireStop ADS 90 FR 30:

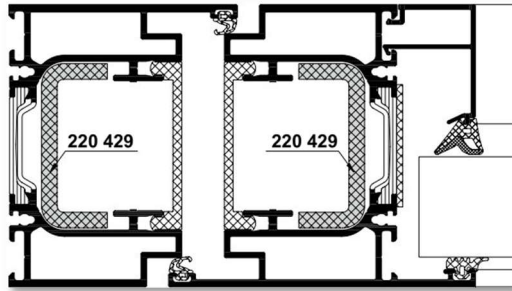
"Processing of markings for frame anchor adapters" processing setting

If you have selected a construction-dependent option with frame anchor adapters in the technical settings (*Fixing* group) for the fixing to the outer frame, as of this version you can specify in the processing settings (*Fixing holes* group) whether or not a marking hole is to be drilled for the frame anchor adapter.



Schüco FireStop 90 FR 30:
Thermal insulation with insulating mat

As of this version, the *Thermal insulation* property can be found in the technical settings under the *U value optimisation* group. Here you specify whether or not you want the insulating mat to be calculated.

**Schüco AWS 90 EI30/EI60:**
Processing groups for fire protection clips

For the required fire protection clips produced in-house, within Schüco AWS 90 EI30 and EI60 system, in accordance with the information in the Compendium 3-1 AKS Fire Protection Systems, machining groups can now be added in SchüCal. These are used to mark the position on the element.

Instructions for inserting the processing groups into SchüCal, as well as the processing groups as data imports, are available on request in the Software Service.

Schüco AWS 90 EI30/EI60:
Material determination for fittings

Articles 277901 and 277902 are no longer required in the Schüco AWS 90 EI30/EI60 system due to an adaption in the certification. Since the AWS RC3 optimization, the articles are no longer determined in SchüCal.

Only lockable handles, removeable handles or the use of a locking device are permitted as handles in fire protection systems. A suitable handle must be selected accordingly in SchüCal.

Keep in mind there is no check in SchüCal or notification message.

If a handle without locking option is selected in SchüCal, SchüCal also determines a security lock including a case.