



Launch presentation TAS 177 & TAS 177-SL : Phase 3

Texas
Aluminum
Systems

TAS 177

Concept Folding 177

TAS 177 Concept Folding 177

TAS 177-SL Concept Folding 177 Slim Line

- State-of-the-art standalone folding system
- Freedom in configurations, in- and outward opening
- Various AWW performance levels
- Aesthetical solutions with low thresholds and slim line profiles
- Meeting higher market requirements
- Compatible with the existing CS product range

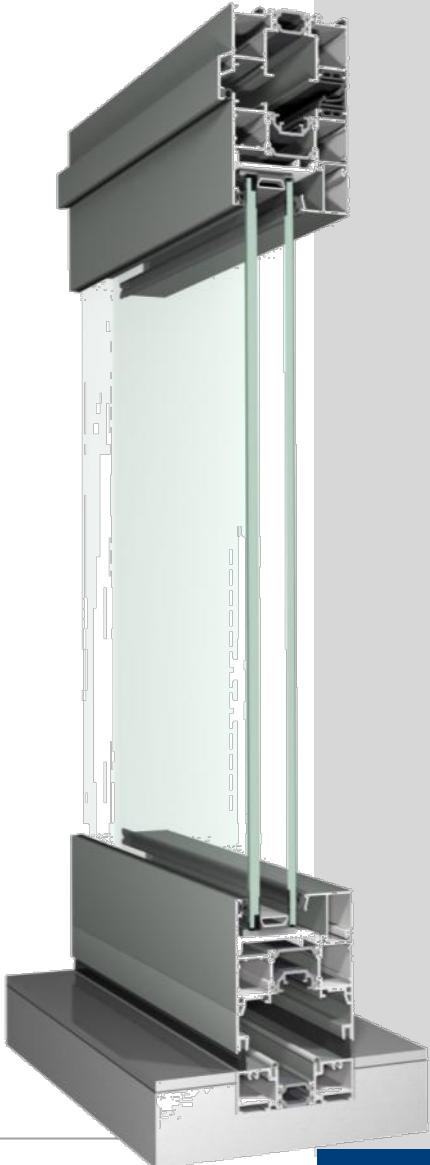


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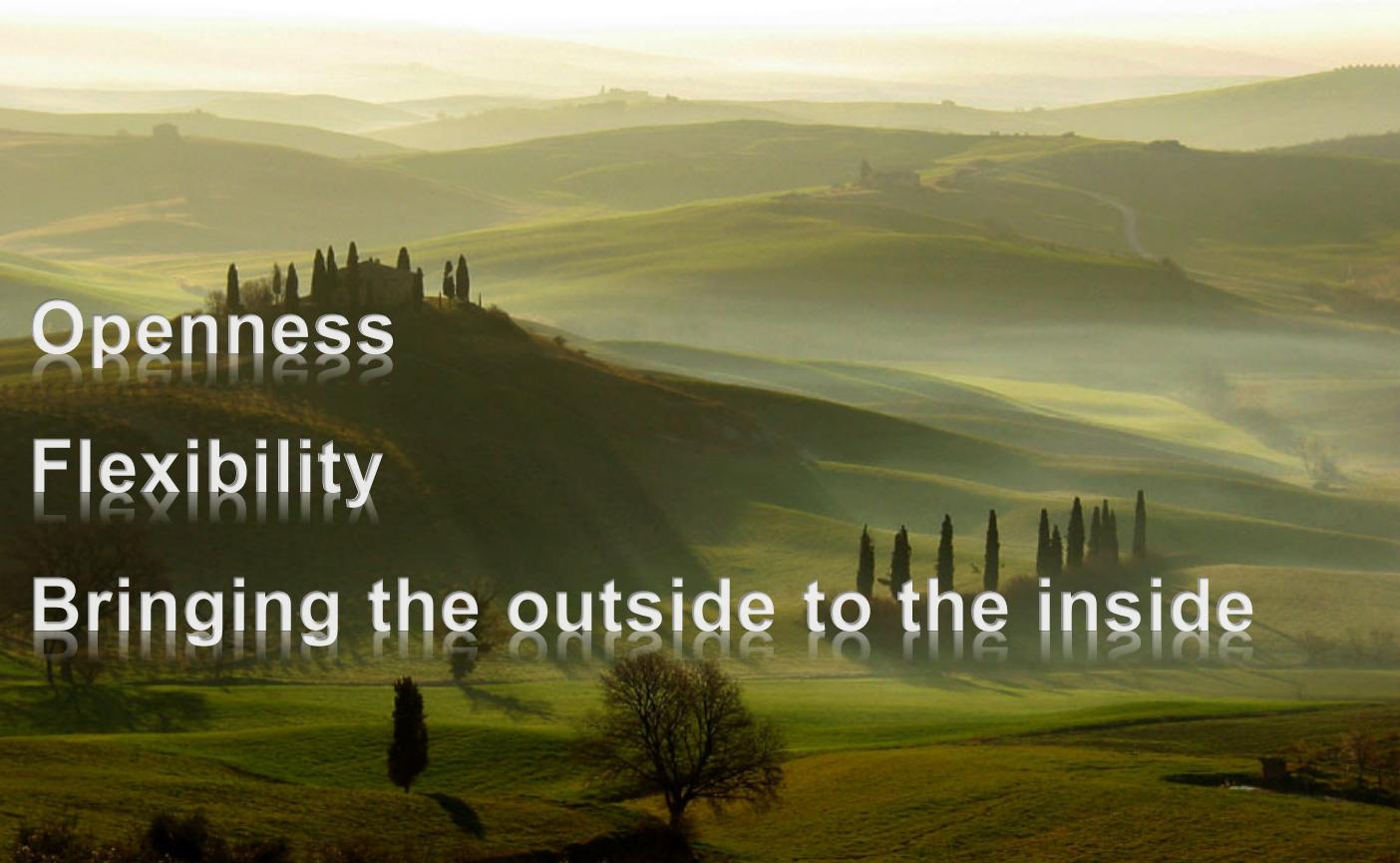
Concept Folding 177

New features:

- Opening types with end-carriage (slide 8)
- Testing up to a water resistance of 600 Pa (slide 9)
- Bottom solution with double weather seal, ideal for renovations (slide 9)
- Gasket pieces to improve sealing at the hinges (slide 27)
- New lock and receivers for lower vent heights (slide 22)



TAS 177



TAS 177

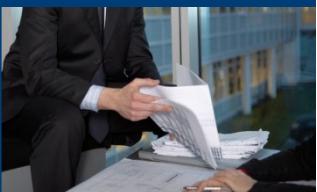
Completely new designed standalone folding system

Fabricators



- **In- and outward opening** with the **same profiles and accessories**
- **Minimum number of profiles**
- **Adjustability** on site
- Innovative locking mechanism, **easy to assemble**

Architects



- **2 Design variants:** Functional (TAS 177) and Slim Line (TAS 177-SL)
- **Large vent sizes** (W: 48", H: 118") allowing transparent constructions
- Vent weight up to 264 pound for all configurations
- Different opening **configurations** and bottom solutions
- Different (design) handle options

End user

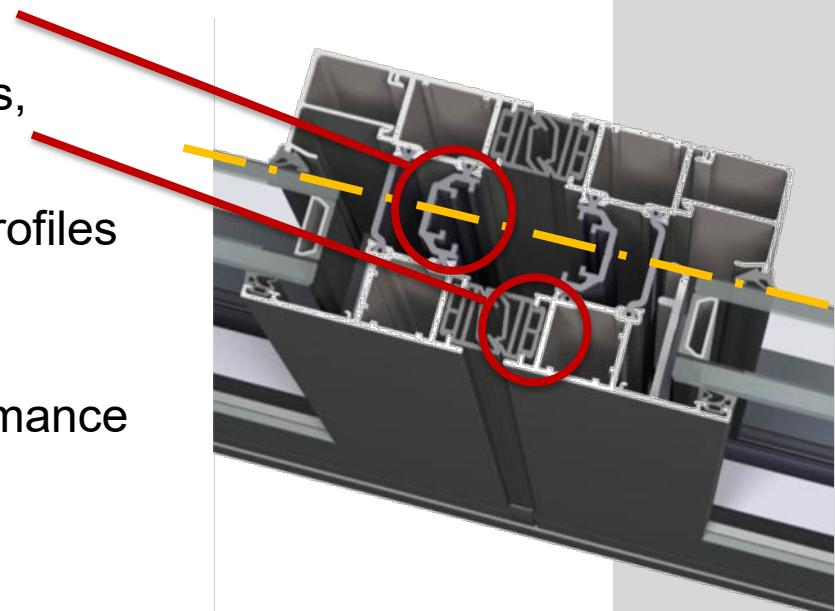


- **Highly insulating:** fulfilling the most recent and near future market demands
- **Different performance solutions** to cover different needs and wishes
- Option for the first leaf: with **window functionality or door functionality**
- **In- and outward opening**
- Future extension: **WK II** anti-burglar solution

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Innovative

- Symmetrical design of vent profile
- Central accessory groove in insulation strip for window locking gear
- 2 outer grooves for rolling accessories, hinges and gaskets
- In- and outward opening with same profiles & accessories = Logistic advantage
- U-shaped Reynaers groove: Better fit locking points for higher AWW performance



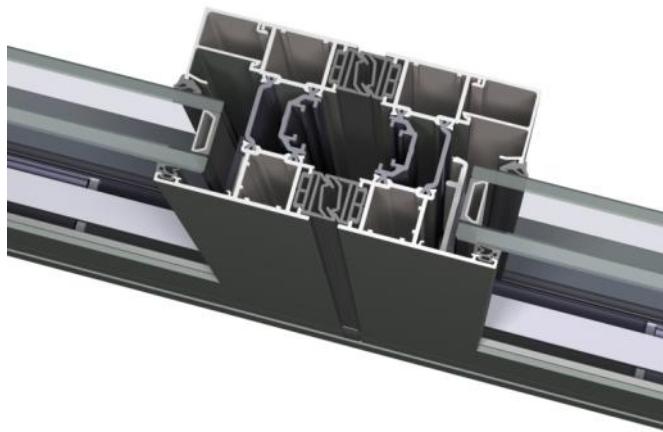
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Configurations

- Choice in design: with only one different vent profile

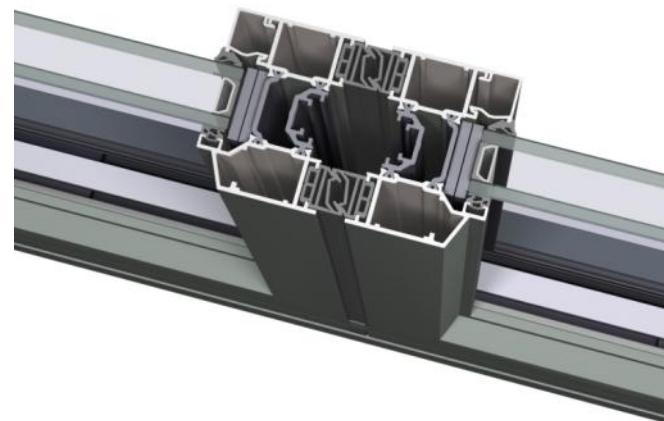
Functional: TAS 177

- Visible width 48"
- CS Glazing beads & transoms



TAS 177-SL

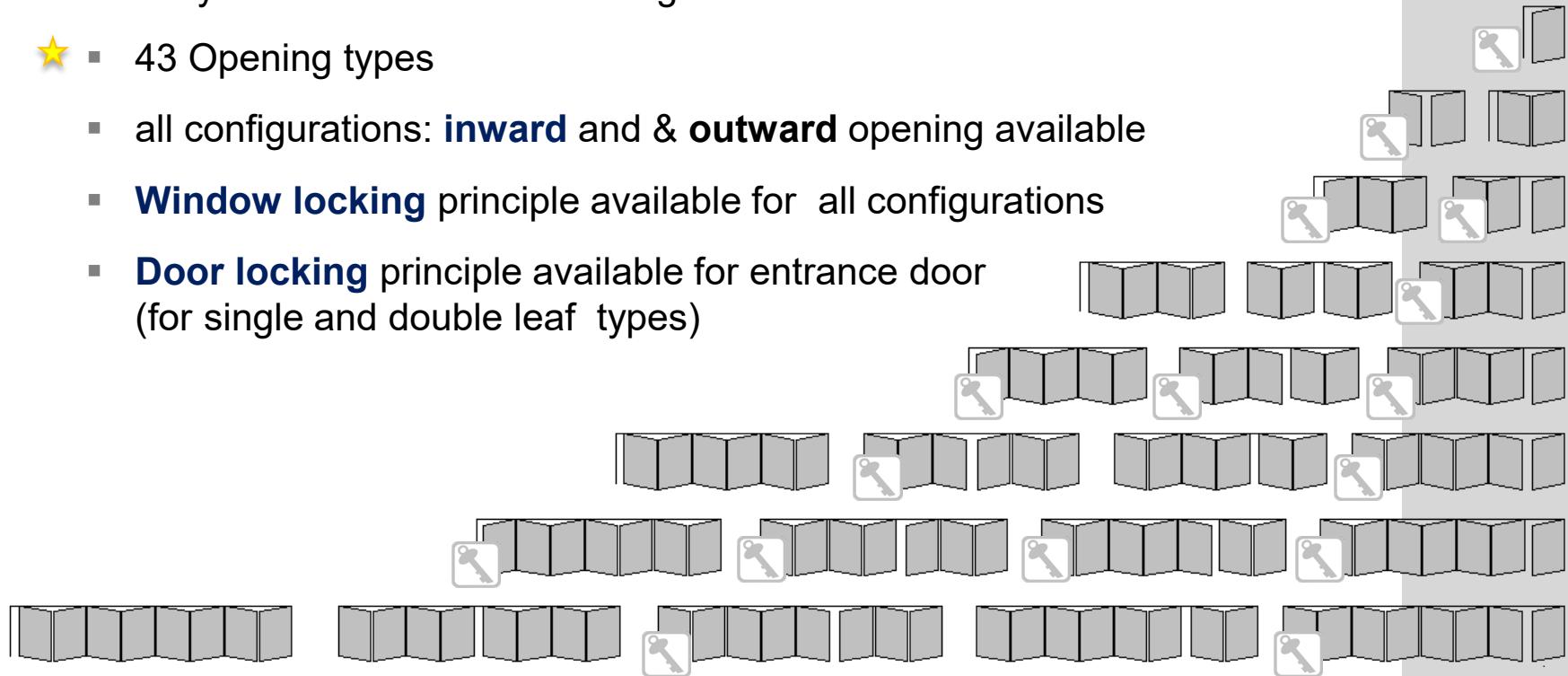
- Slim Line
- Specific vent profile
- Visible width 5 7/8"
- CS 38-SL Glazing beads & transoms



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Configurations

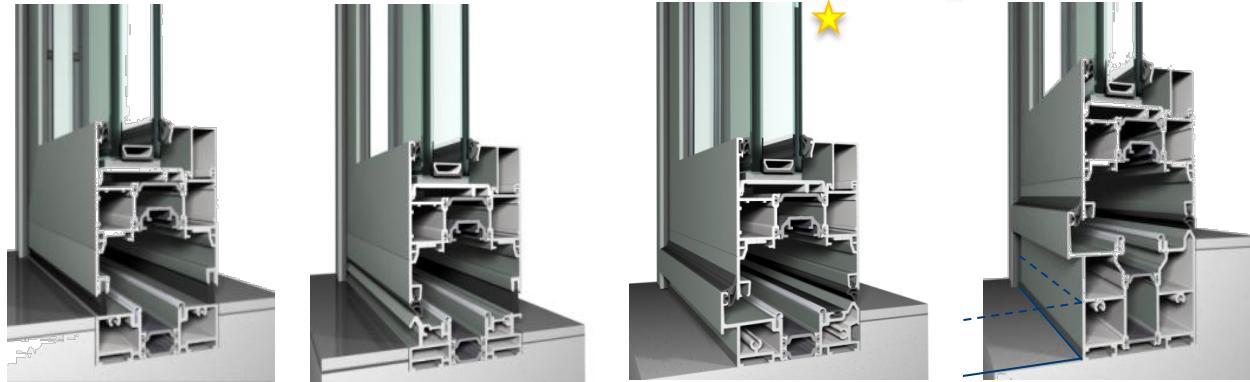
- 2 styles: **Functional** & **SL** design
- ★ ▪ 43 Opening types
- all configurations: **inward** and **& outward** opening available
- **Window locking** principle available for all configurations
- **Door locking** principle available for entrance door (for single and double leaf types)



 Also available with
door locking gear

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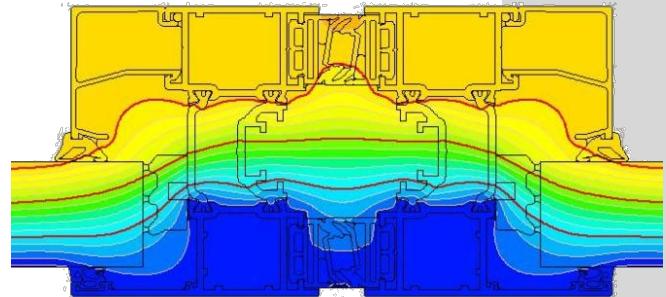
- Bottom solutions
 - 4 bottom solutions = 6 AWW level solutions in total



<ul style="list-style-type: none">✓ Optimal Accessibility ✓ Aesthetical bottom solution✓ Economical solution✓ Easy passing (18mm threshold)✓ Elementary AWW rating✓ Weather seal✓ Double weather seal✓ Suitable for renovation✓ High performance✓ Double weather seal✓ 3 Different performance levels in one profile				
Air	None	Class 2	Class 2	Up to Class 4
Wind	None	Class B2	Class B2	Up to Class B3
Water	None	Class 4A (150 Pa)	Class 5A (200 Pa)	Up to Class 9A (600 Pa) 

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Insulation



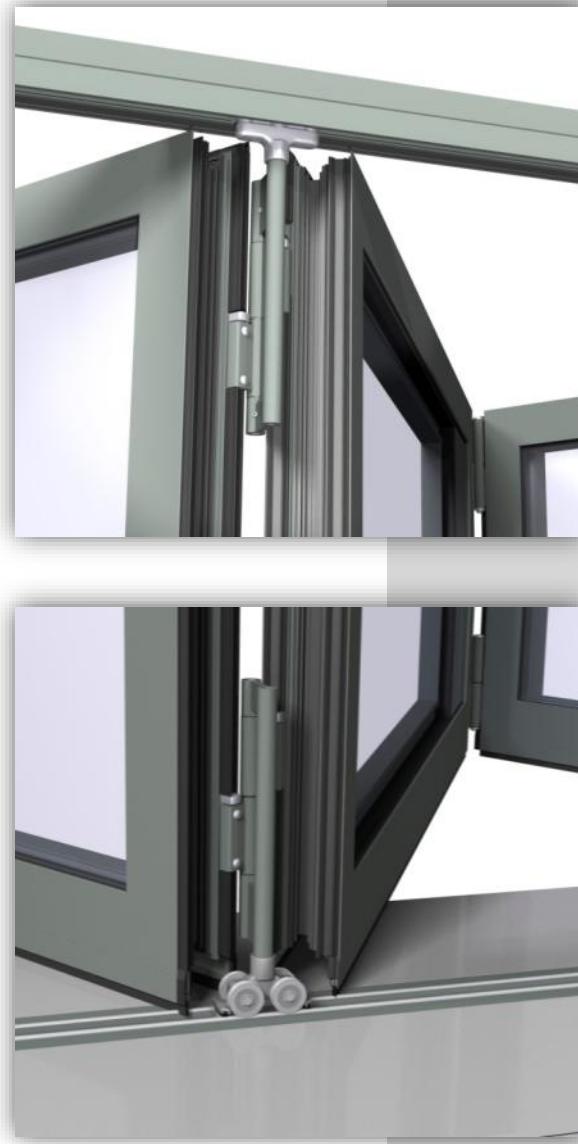
- Meeting actual and near future market and regulation requirements
- Reaching U_w values down to **1.2 W/m²K**, for an element of 4x2.7m with an U_g of 0.6 W/m²K
- Insulation levels for standard element and glazing:

Type	Style	AWW Perf.	Pex-foam	U_g	U_f up to ...	Ψ	U_w
4-3-1	Funct	Low	No	1.1	2.74	0.07	1.70
"	(HI var.)	Low	Yes	1.1	2.25	0.07	1.63
4-3-1	SL	Low	No	1.1	2.55	0.07	1.64
"	(HI var.)	Low	Yes	1.1	2.31	0.07	1.61

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Technical specifications

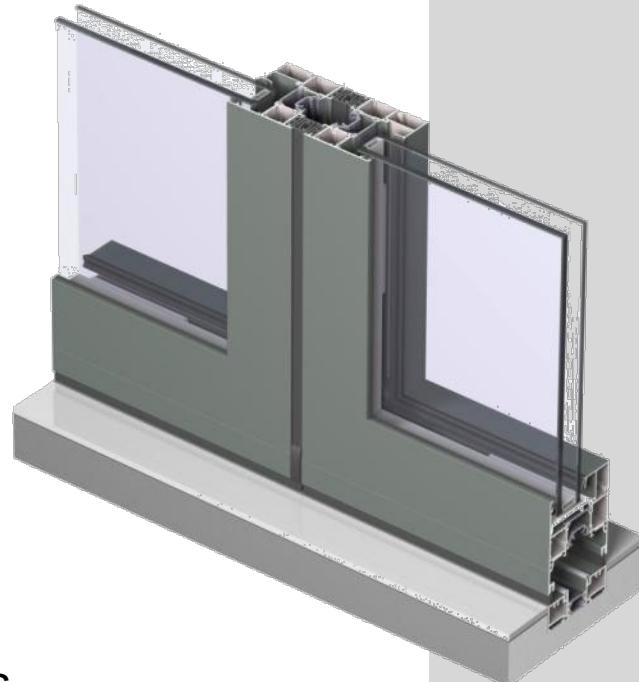
- Bottom rolling:
 - Vent weights up to **260** Pound for all configurations
 - optimal for refurbishment
 - Integrated rolling accessories
- Vent dimensions:
 - Width up to **48"**
 - Height up to **118"**
- Large variety in configurations from 1 to 8 vents
- Glass thickness between
 - 1/4" and 2 1/2" (Functional)
 - 3/8" and 1 7/8" (SL)



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Integration in Reynaers product range

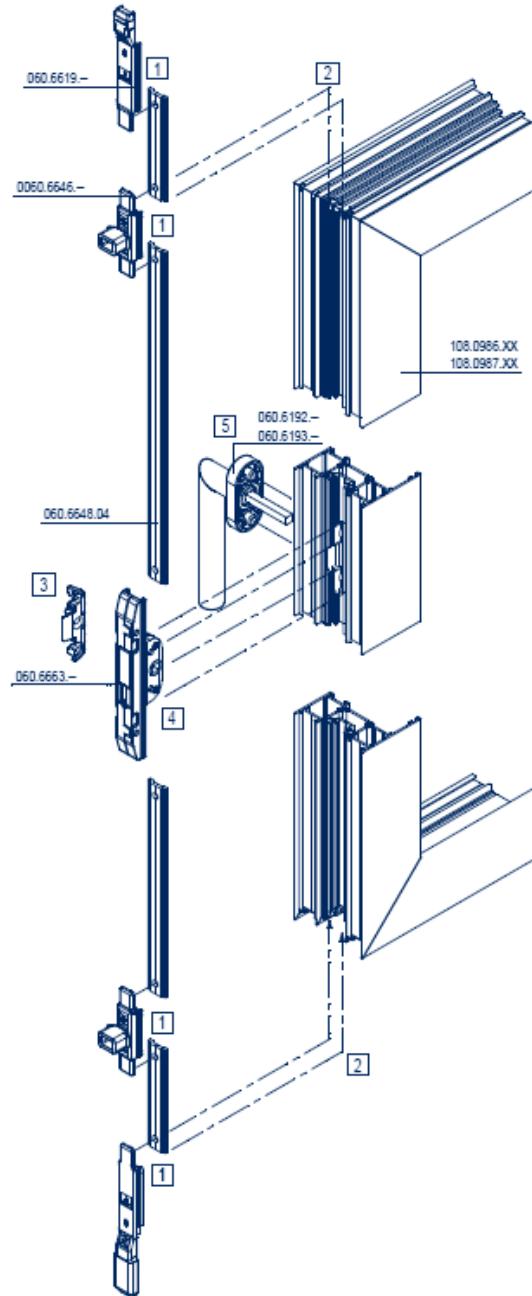
- Build-in depth of 3"
- compatible with the existing CS product range
- Dedicated profiles
Partial re-use of standard CS gaskets and accessories:
 - Glazing gaskets
 - Design handles
 - Corner cleats & T-brackets
 - Rebate supports
 - ...
- Re-use of standard CS details & glazing beads



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Gear

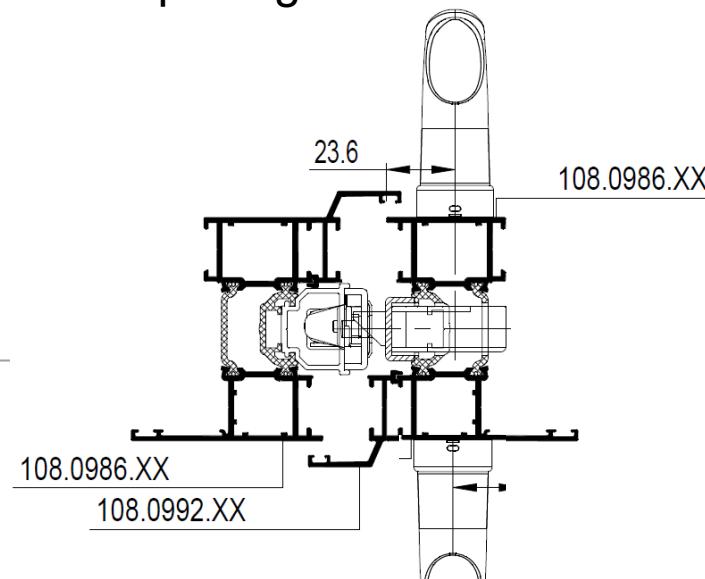
- Window locking principle:
 - Flexible polyamide standard link bar
 - Minimal milling required
 - Low amount of waste & ease of fabrication
 - Different locking point combinations depending on AWW requirements:
- Functional locking (low AWW performance):
 - Locking device
 - Link bar
 - Closing latch top & closing latch bottom
 - NO corner drives
- AWW locking
 - Additional vertical locking points



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Gear

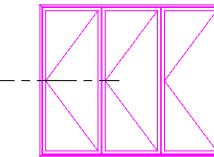
- Optional door locking principle > first leaf as an entrance door:
- 5-point pen-hook lock with the following specifications:
 - Stainless steel front plate
 - Stainless steel receiver, adjustable.
 - handle operated with possibility to lock with PZ cylinder
- Integrated double casement locking mechanism for the second vent in the case of a double opening leaf.



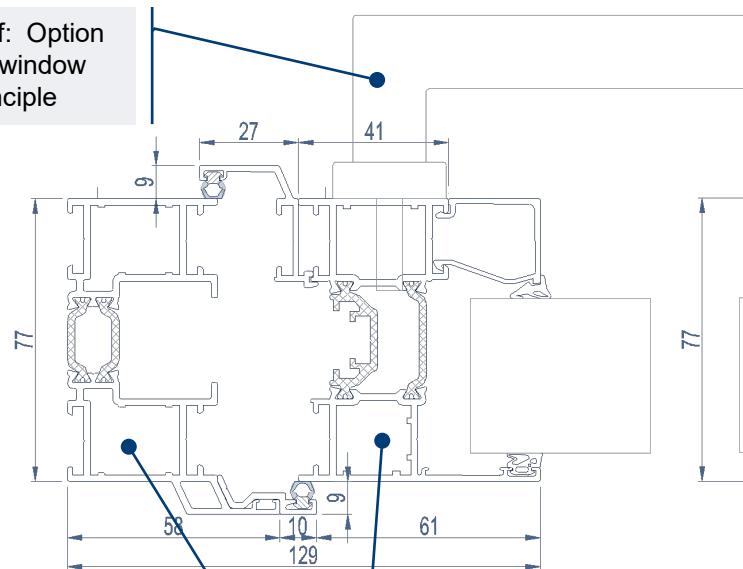
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Principles

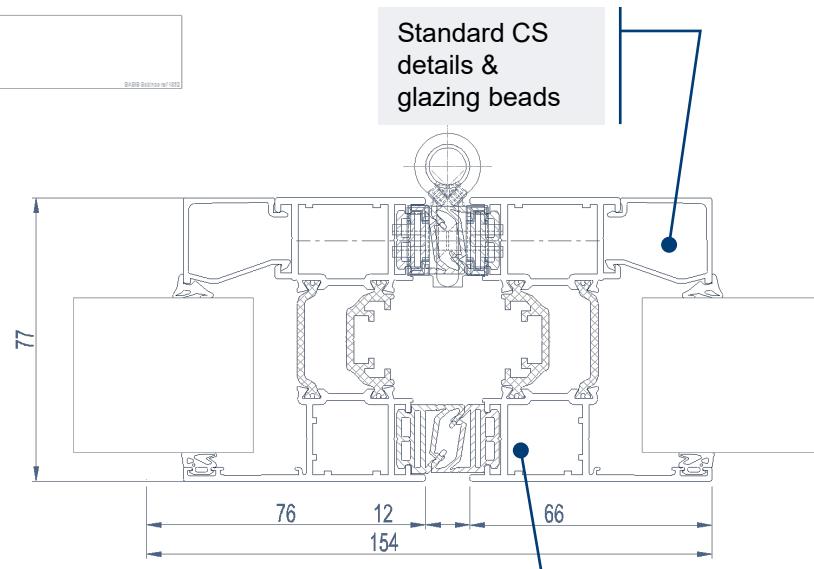
- First leaf



On first leaf: Option for door or window locking principle



Standard CS details & glazing beads



Frame profile in mitre on top: crimpable or screwable

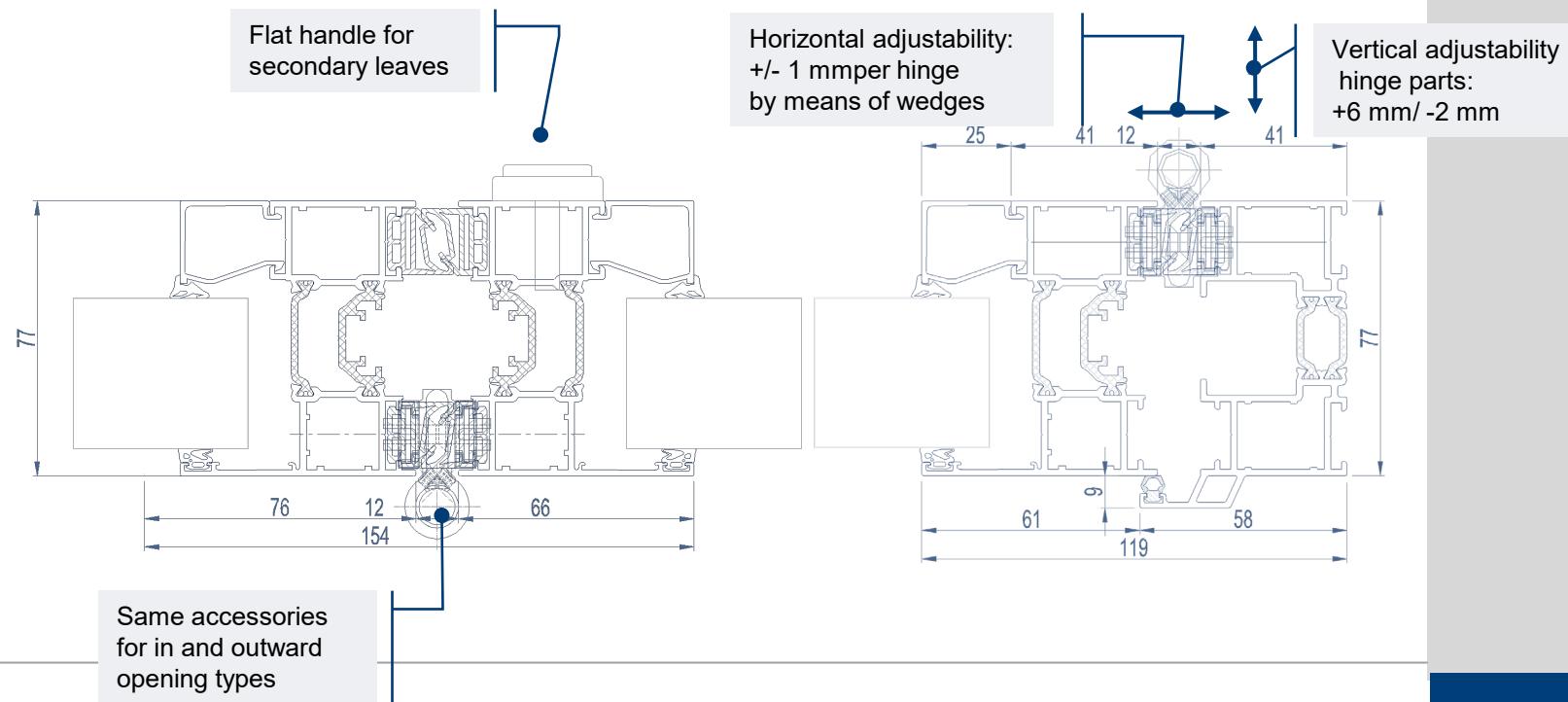
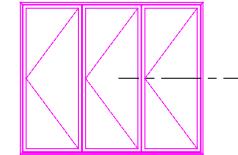
Vents can be crimped or screwed

Same vent profile all around

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Principles

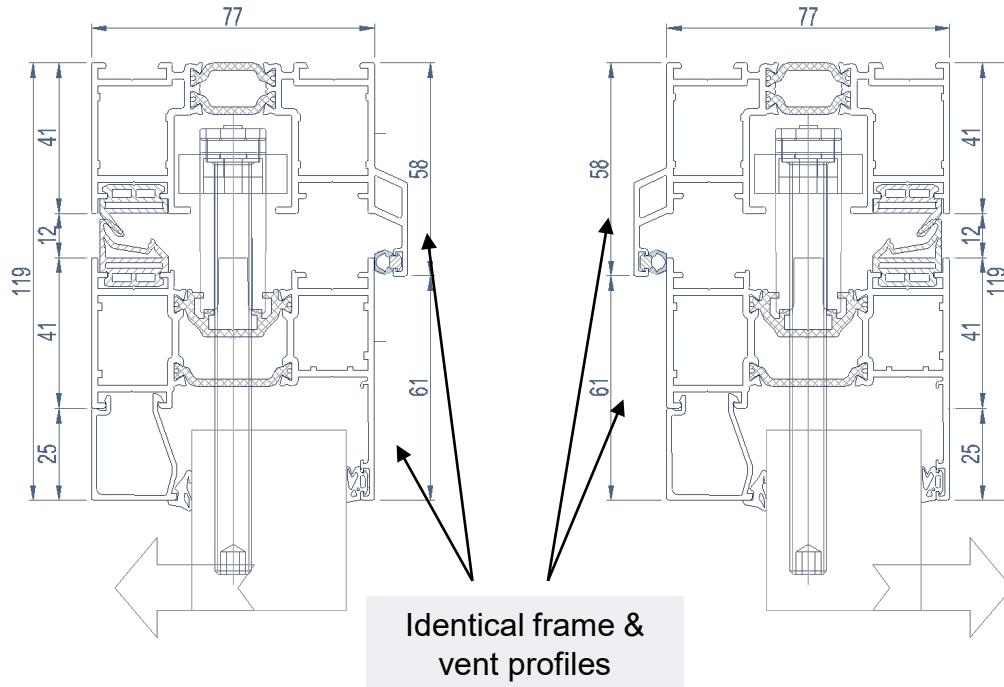
- Folding leaves



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Principles

- Vertical sections



Outward opening
 Inward opening

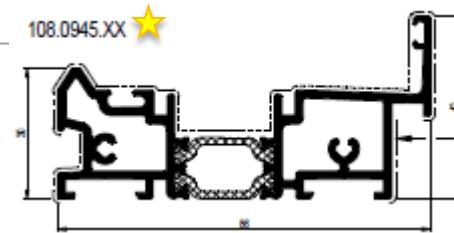
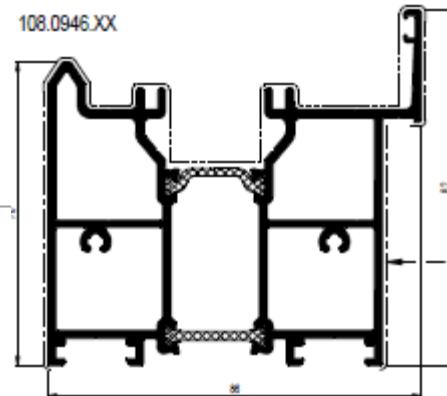
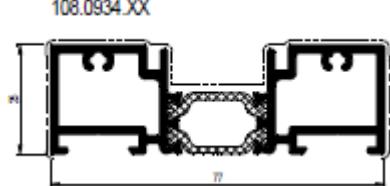
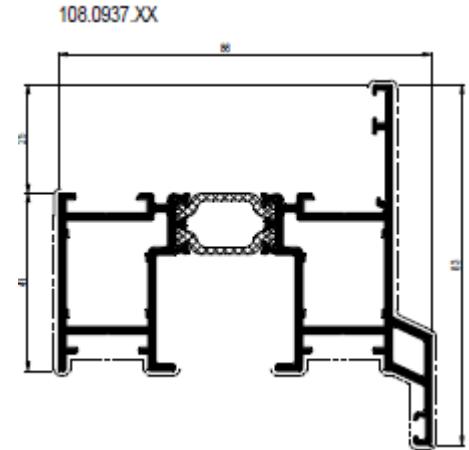
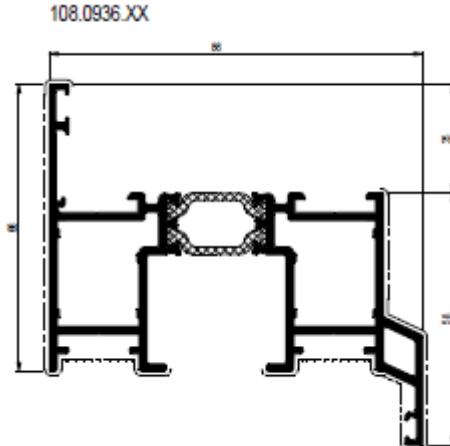
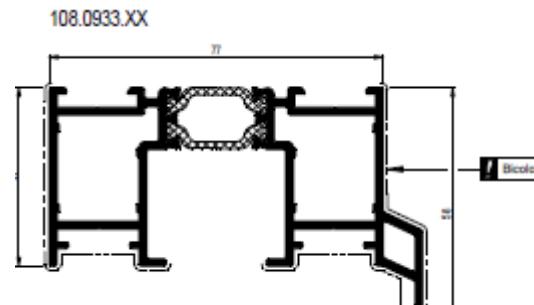
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Overview developments

- Profiles

Frame profiles

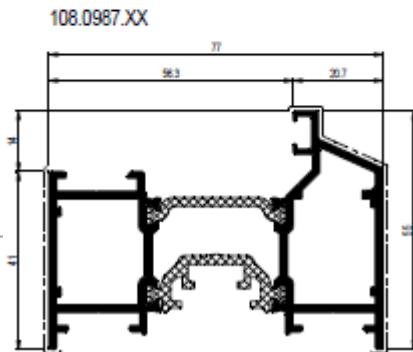
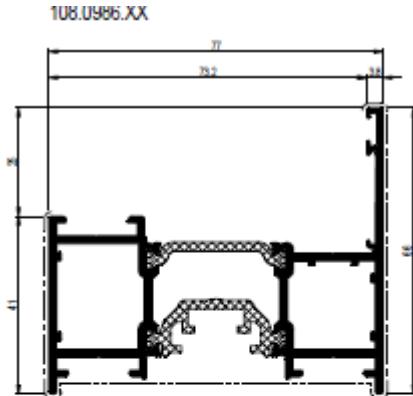


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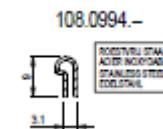
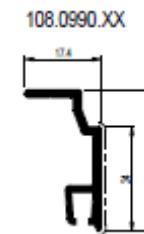
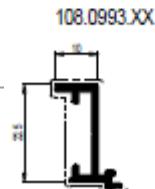
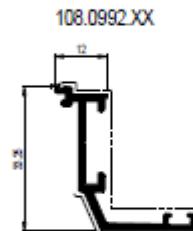
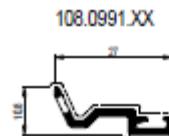
Overview developments

- Profiles

Vent profiles



Supporting profiles



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Overview developments

- **Folding accessories**
 - Clampable and adjustable in height and width
 - visible parts in line with gaskets are black anodized

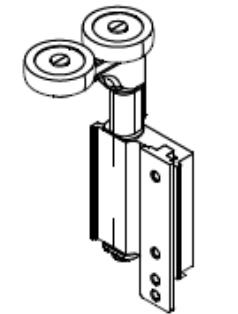
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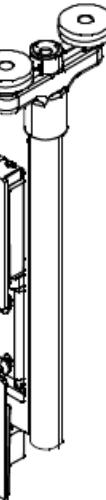
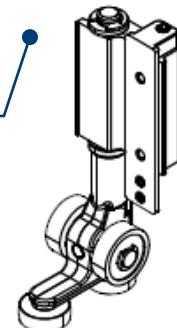
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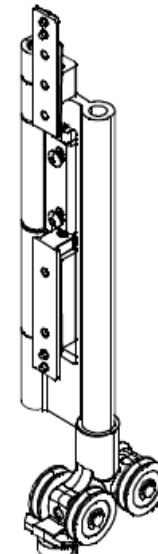
New end carriage



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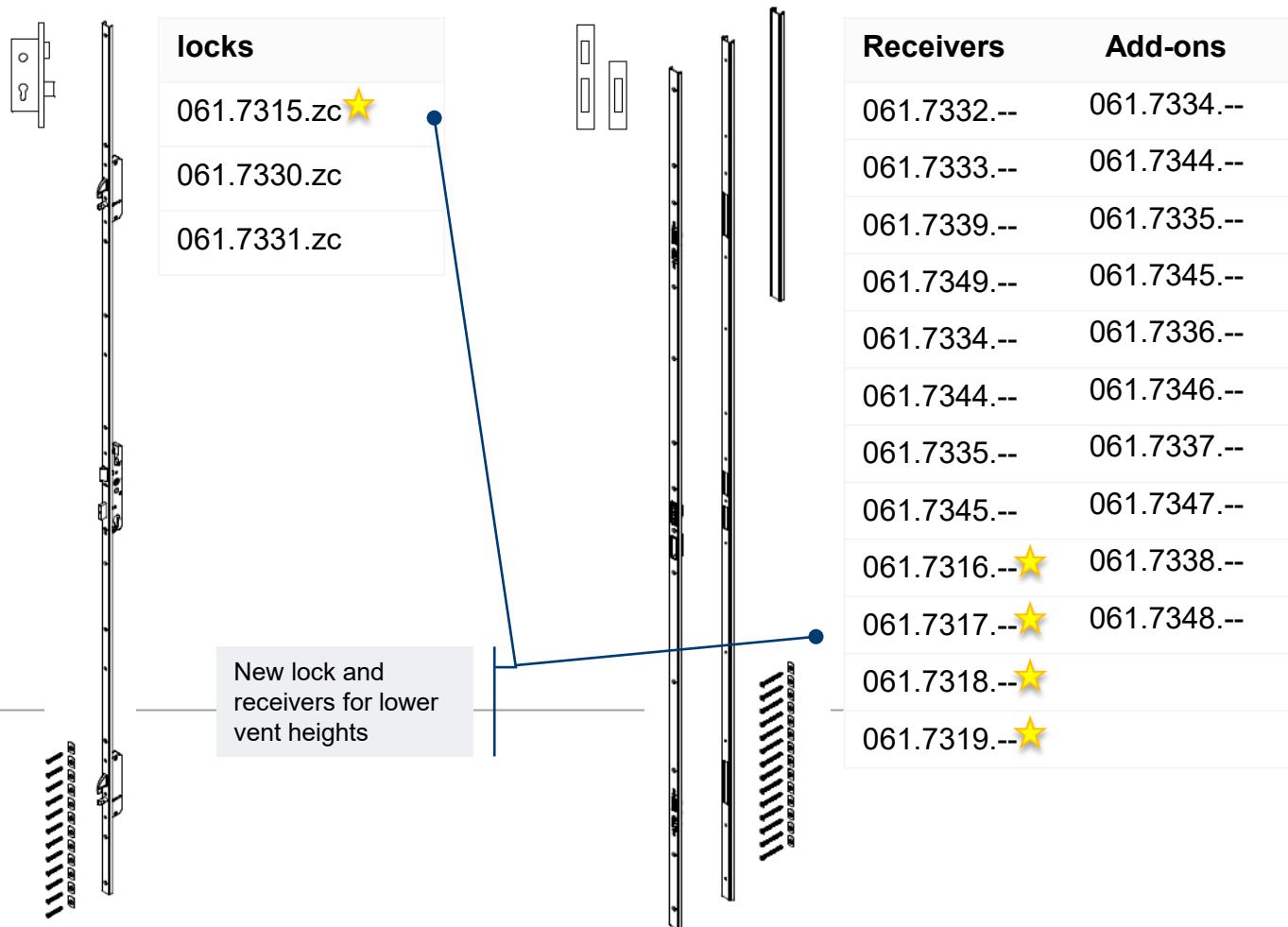
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TAS 177

Overview developments

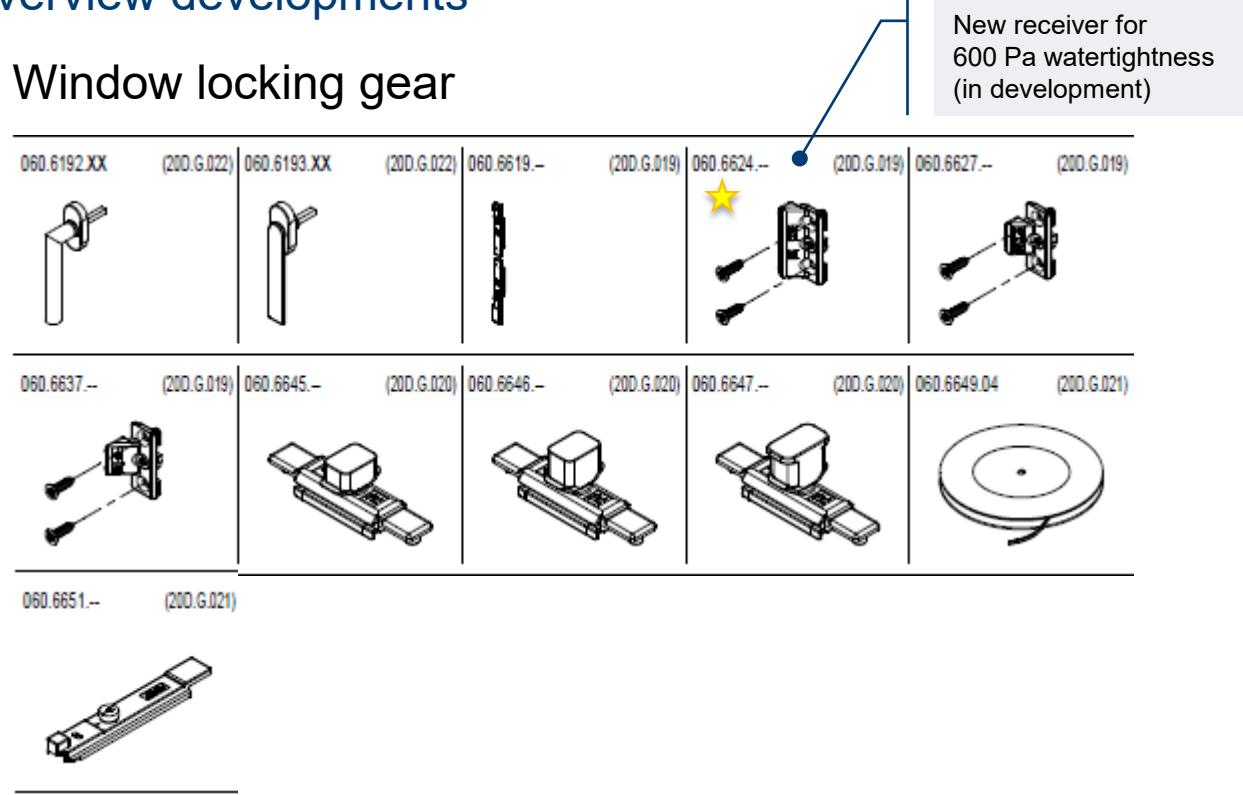
- Door locking gear: new: minimum vent height: 1550mm



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Overview developments

- Window locking gear



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Overview developments

- Accessories: General

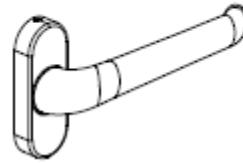
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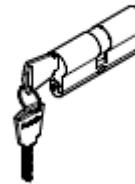
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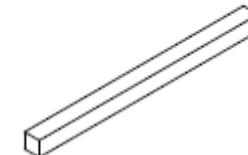
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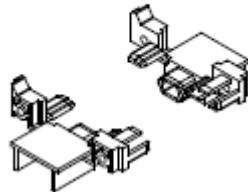


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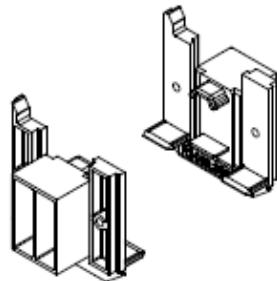
Overview developments

- End pieces

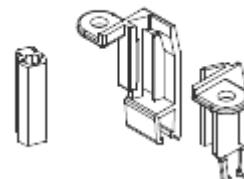
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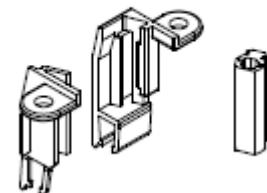
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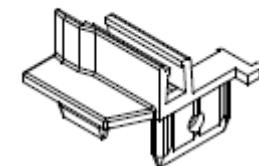
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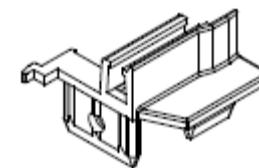
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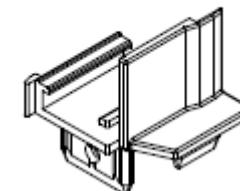
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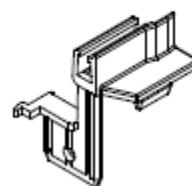
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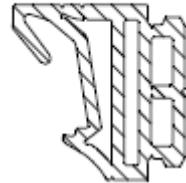
New end pieces for end carriage

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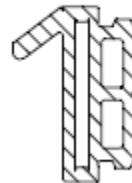
Overview developments

- Gaskets & EPDM accessories

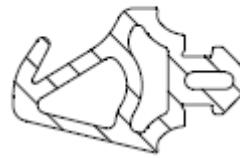
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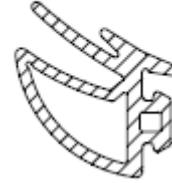
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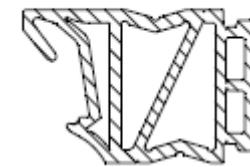
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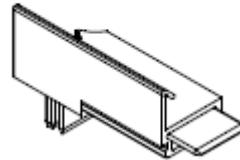


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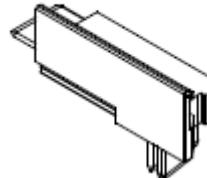


New gasket for end carriage

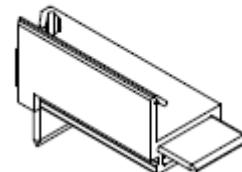
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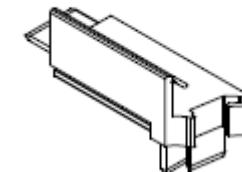
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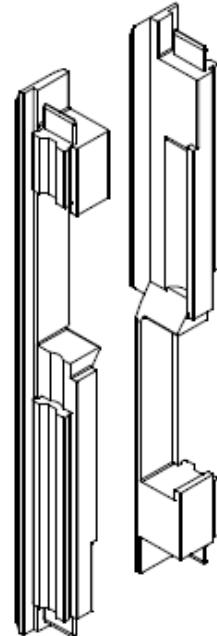


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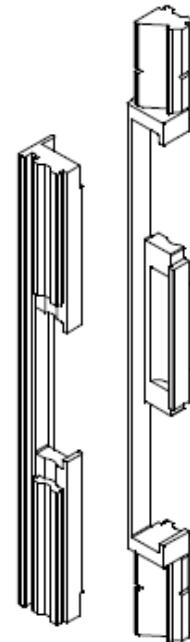
Overview developments

- New: EPDM accessories for hinges
 - Reduced fabrication time & straight cutted gaskets
 - Higher AWW rating

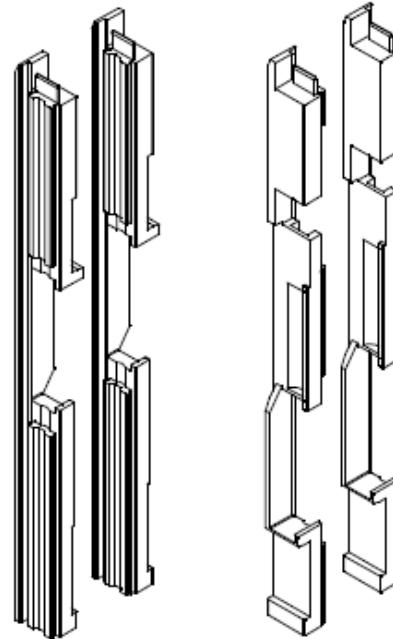
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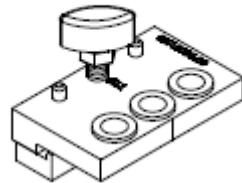


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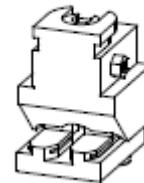
Overview new developments

- Tooling

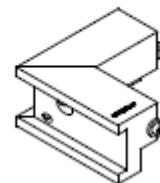
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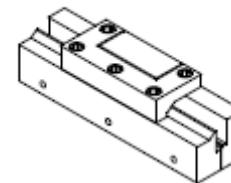
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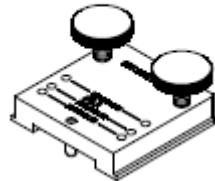
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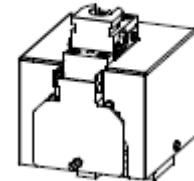
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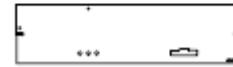
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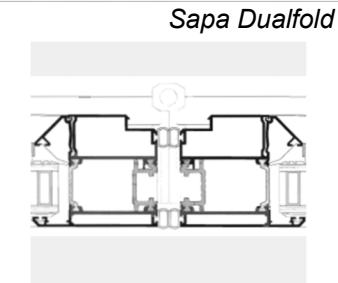


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Competition comparison

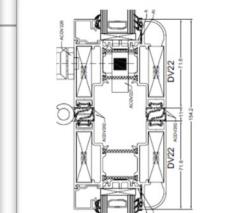
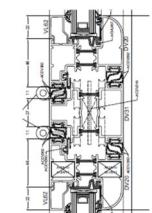
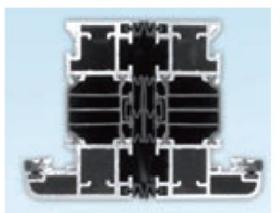
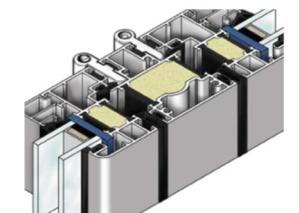
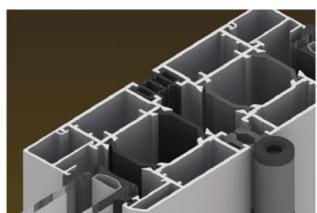


	Max. vent size (mm)	Max. vent weight	Uw (W/m ² K) (3-panel) (2700x2300mm)	Visible width vent-vent sect.	Build-in depth
Texas Aluminum Systems TAS 177	48" x 118"	120 Kg	1.40 W/m ² K* 1.76 W/m ² K**	5 5/8"	3 1/4"
Texas Aluminum Systems TAS 177-SL	48" x 118"	120 Kg	1.37 W/m ² K* 1.73 W/m ² K**	4 7/8"	3 1/4"
Schüco ASS 80 FD.HI	1200 x 3000	100 Kg	1.3 W/m ² K*	120 mm (Inside) 112 mm (outside)	80 mm
Schüco ASS 70 FD	700 x 3000	100 Kg	1.8 W/m ² K**	120 mm	70 mm
Sapa Dualfold	1000 x 2283	100 Kg	1.9 W/m ² K	/	75 mm
Solarlux SL 70e	900 x 3500	100 Kg	1.8 W/m ² K**	157 mm	70 mm
Solarlux SL 80	900 x 3000	100 Kg	1.6 W/m ² K	104 mm	80 mm
Aliplast Visofold	1000 x 2400	80 Kg	N/A	185 mm	70/78 mm
Aliplast Panorama	1000	70 Kg		154 mm	74.5 mm
Blyweert Harmonia	100 x 2900	90 Kg	1.92 W/m ² K ***	150 mm	72 mm

*With Ug = 0.7 W/m²K

**With Ug = 1.1 W/m²K

*** With Ug = 1.0 W/m²K



Blyweert Harmonia

Solarlux SL 70e

Solarlux SL 80

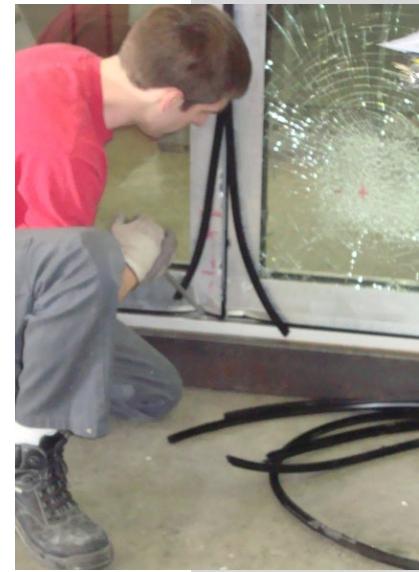
Aliplast Visofold

Aliplast Panorama

**Texas
Aluminum
Systems**

TAS 177

- Launch info
 - **WK 18:** EPDM hinge pieces
- **Q2/2011:**
 - **Extension to WK2** (subject to successful testing)
Test program covers: All configurations
Maximum dimensions
Window & door locking gear
 - **Tooling for positioning hinges**
- **Future actions**
 - RAL colour hinges





TAS 177 & TAS 177-SL

Texas
Aluminum
Systems