aluplast®

Kunststoff-Fenstersysteme

Extraordinarily efficient

Lift-and-slide door 85 mm

Benefits of the innovative lift-and-slide door

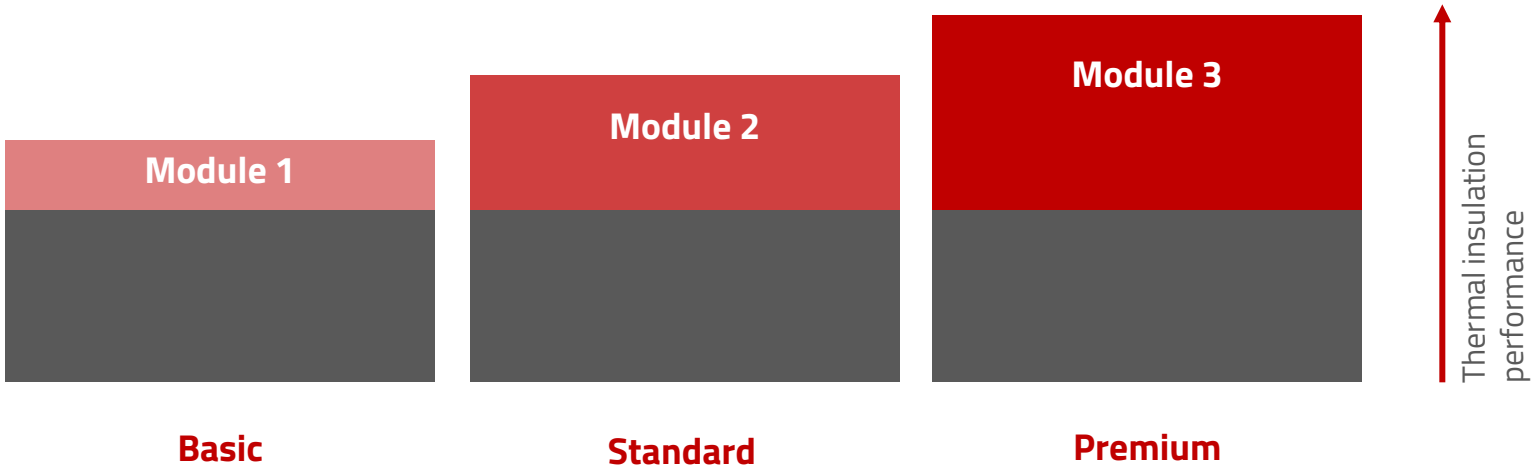
- Less component parts for a flexibel and fast production
- Aluminium shells can be mounted up to 50 % faster
  > without additional clips/nipple
- Ideal for glazing and panel thicknesses of up to 51 mm
- High impermeability
- Improved insulation performance
- Format passive-house standard possible

Increased efficiency for processors

Modular stages of expansion for increased efficiency

One Lift-and-slide door system

Three different products (for different target groups)



Benefits of the system at a glance

- One system for Basic, Standard, Premium
  - > No additional set-up times for the tools
  - > Hence no idle time
- Improved insulation properties of up to 30 % compared to reference value
- Ideal for glazing and panel thicknesses of up to 51 mm
  - > Wider choice of glass combinations according to U_w requirements
- Integrated sealing
  - > Manual sealing is reduced to a minimum
  - > Higher process reliability
- Smooth operation despite a weight of more than 300 kg
- Barrier-free solution of Lift-and-slide door is on the way
- Completion of system range 85 mm
  - > Ideal 7000®, 85mm backstop gasket
  - > Ideal 8000®, 85mm centre gasket
  - > Main entrance door system, 85mm

Lift-and-slide door 85 mm

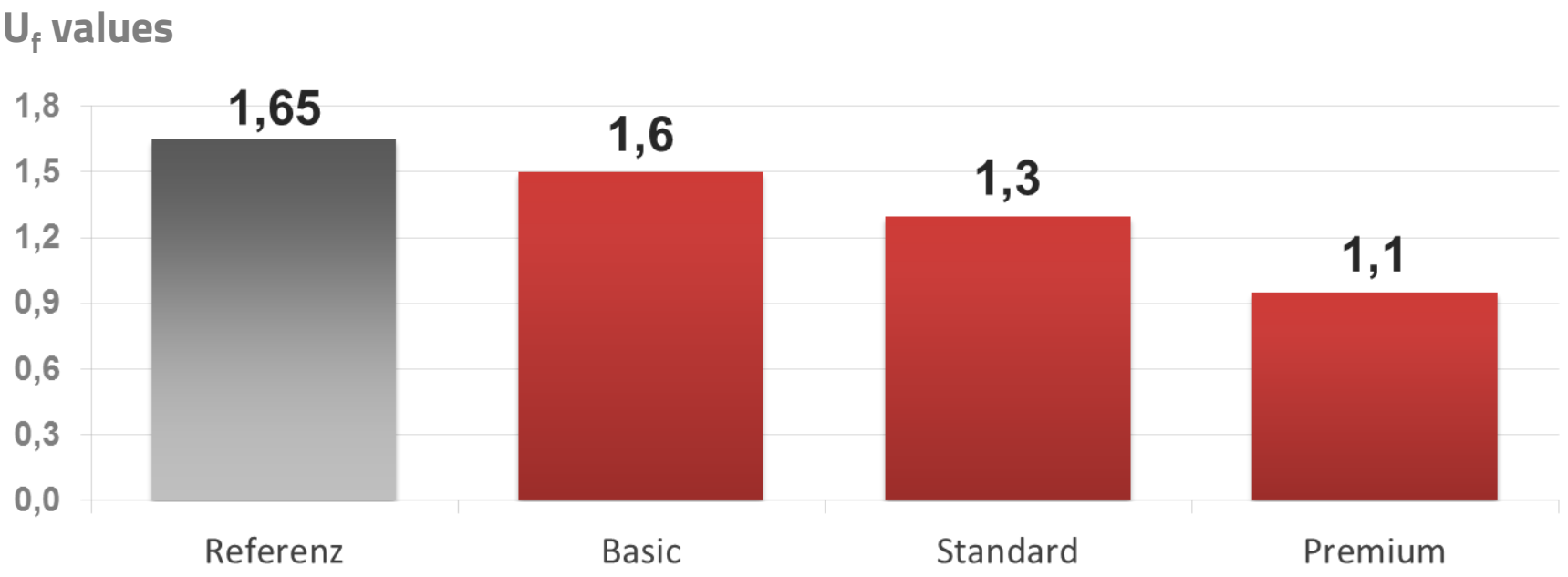
Visual enhancement

- Modern classic-line design
- Available in many different colours
- Can be complemented by aluskin®
  - > Optimized: without additional clips

Comparison Basic, Standard, Premium

	Basic	Standard	Premium
Threshold	Plastic-Aluminium (single thermally broken)	Plastic-Aluminium (double thermally broken)	Fibre-reinforced plastic foam-filled
Guide rail	Aluminium	Aluminium	Fibre-reinforced plastic
Reinforcement	2 steel tubes	Thermally broken aluminium	Thermally broken aluminium
Passive-house standard	-	-	Yes
U_f value	1,6	bis zu 1,3	bis zu 1,1

Optimized thermal insulation - Summary



Performance improved by up to 30%

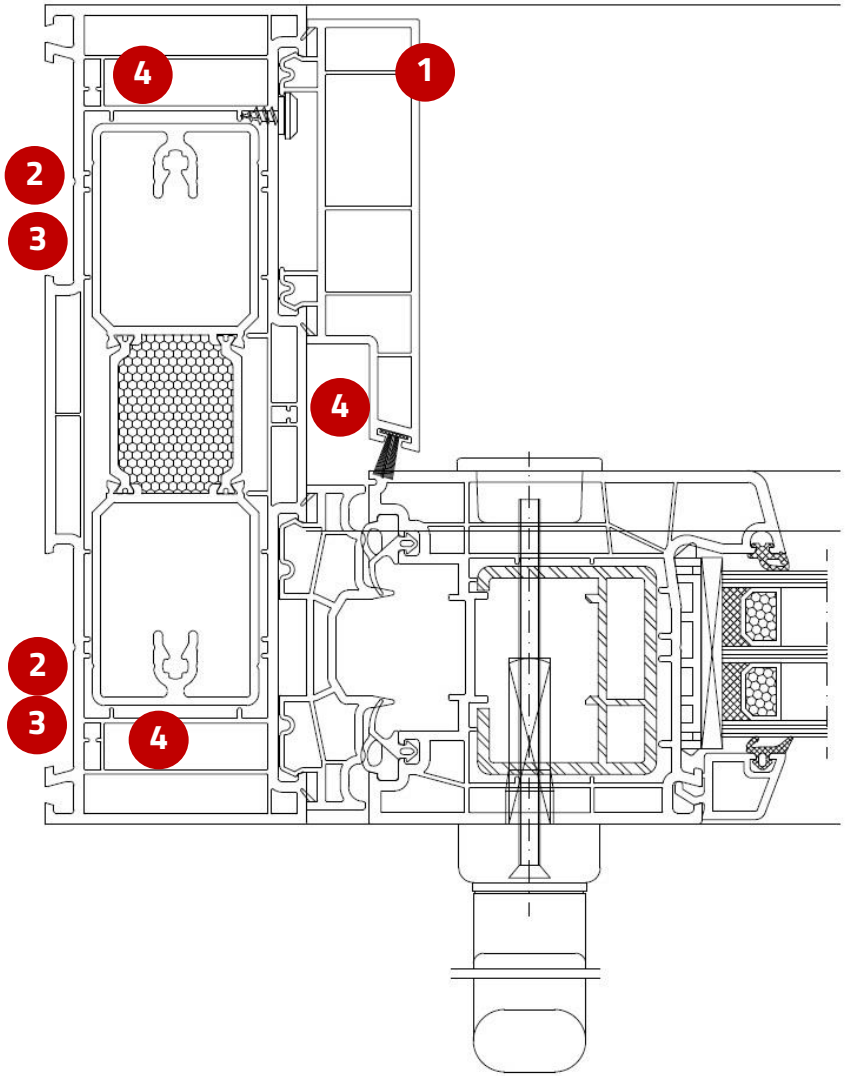
Lift-and-slide door 85 mm

TECHNOLOGY IN DETAIL

Lift-and-slide door 85 mm

1 | Technical details / benefits

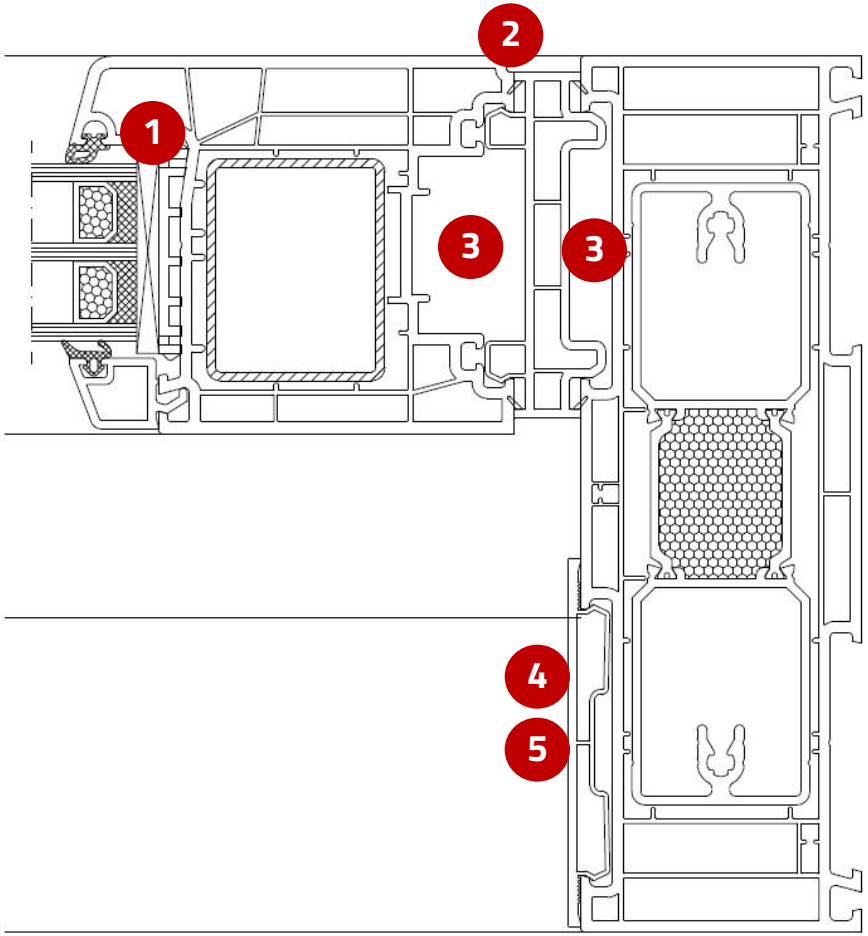
1. Smaller cover profile
   > no overlapping with recessed pull handle
2. Ideal 4000 cover can be used for coupling with conventional windows
3. Extension profiles of 70 mm profile depth can be adapted
4. Screw channels also in PVC frame



Lift-and-slide door 85 mm

2 | Technical details / benefits

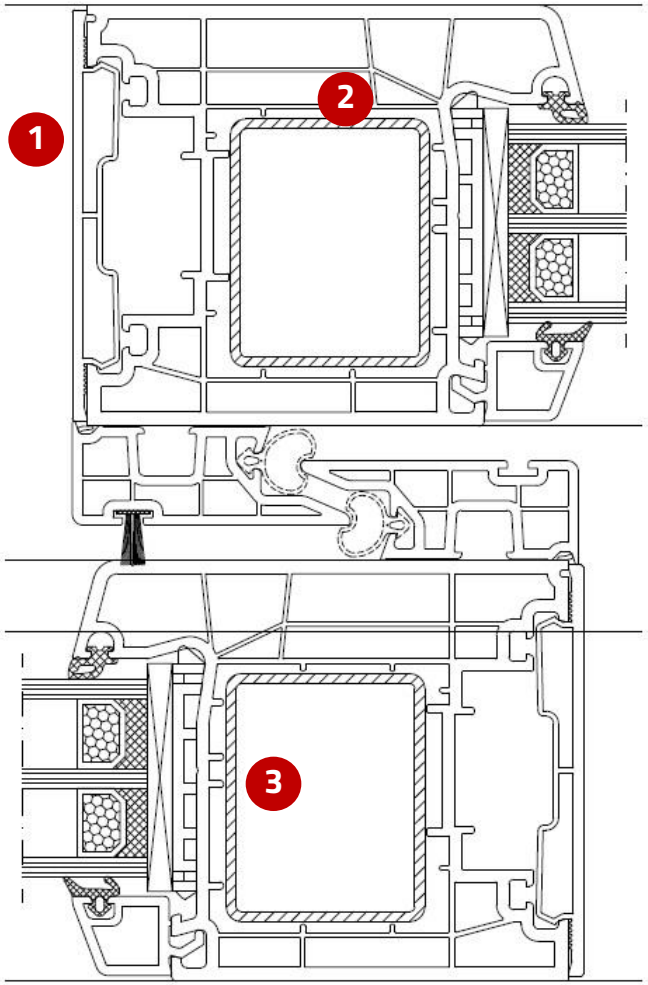
1. Sash profile can also be used as 100 mm frame
2. Integrated sealing
3. Additional sealing can be inserted
4. Cover profile can also be used for sashes with interlock
5. Cover profile can be used for concealed mounting; an additional gasket is no longer necessary.



Lift-and-slide door 85 mm

3 | Technical details / benefits

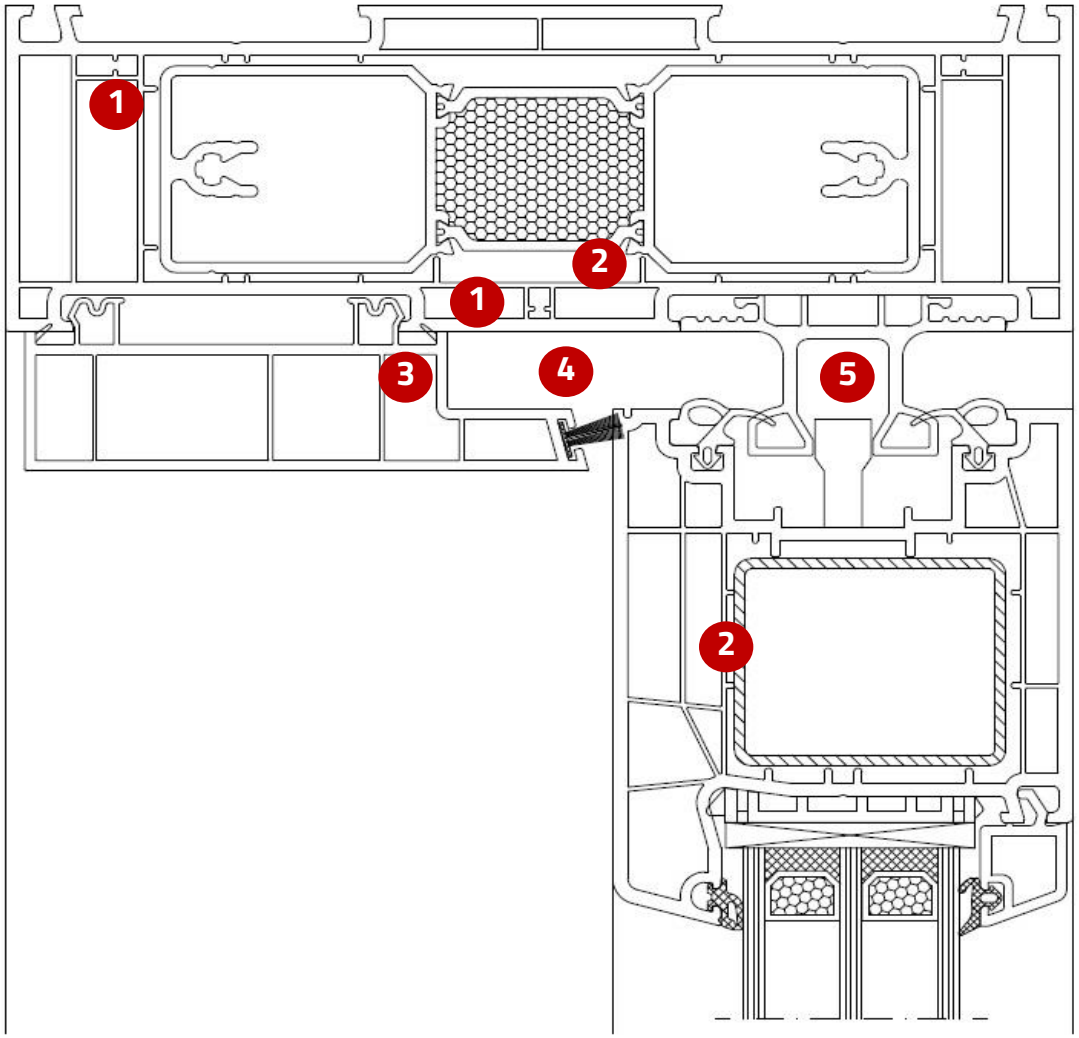
1. Same cover profile for sash and frame
2. Sash is “reversible”
   > can also be glazed from the outside
3. According to structural requirements / required thermal insulation a larger or smaller reinforcement can be inserted



Lift-and-slide door 85 mm

4 | Technical details / benefits

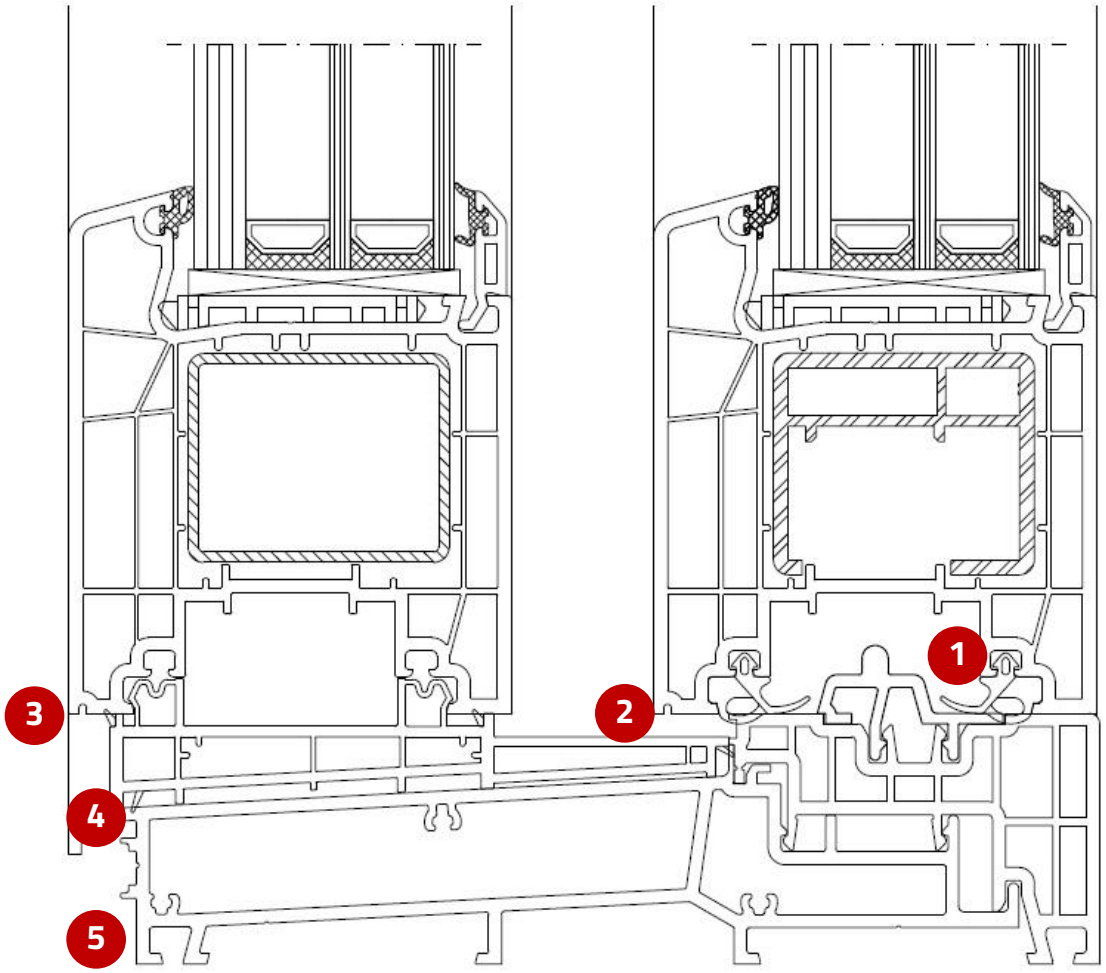
1. Screw channels also in the PVC
2. Sash reinforcement can also be used in frame (double)
3. Integrated sealing
4. Inclined seating for brush seal to make it less obtrusive
5. Guide profile with bolt
   > no glide is required
   > sliding sash can easily be removed



Lift-and-slide door 85 mm

5 | Technical details / benefits

1. Circumferential gasket
2. Recessed gasket for improved drainage
3. Concealed drainage to the bottom is possible
4. Integrated sealing
5. Fibre-reinforced plastic threshold for increased thermal insulation: a thermally broken aluminium threshold is optionally available



Lift-and-slide door 85 mm

CHARACTERISTICS ALUMINIUM SHELL

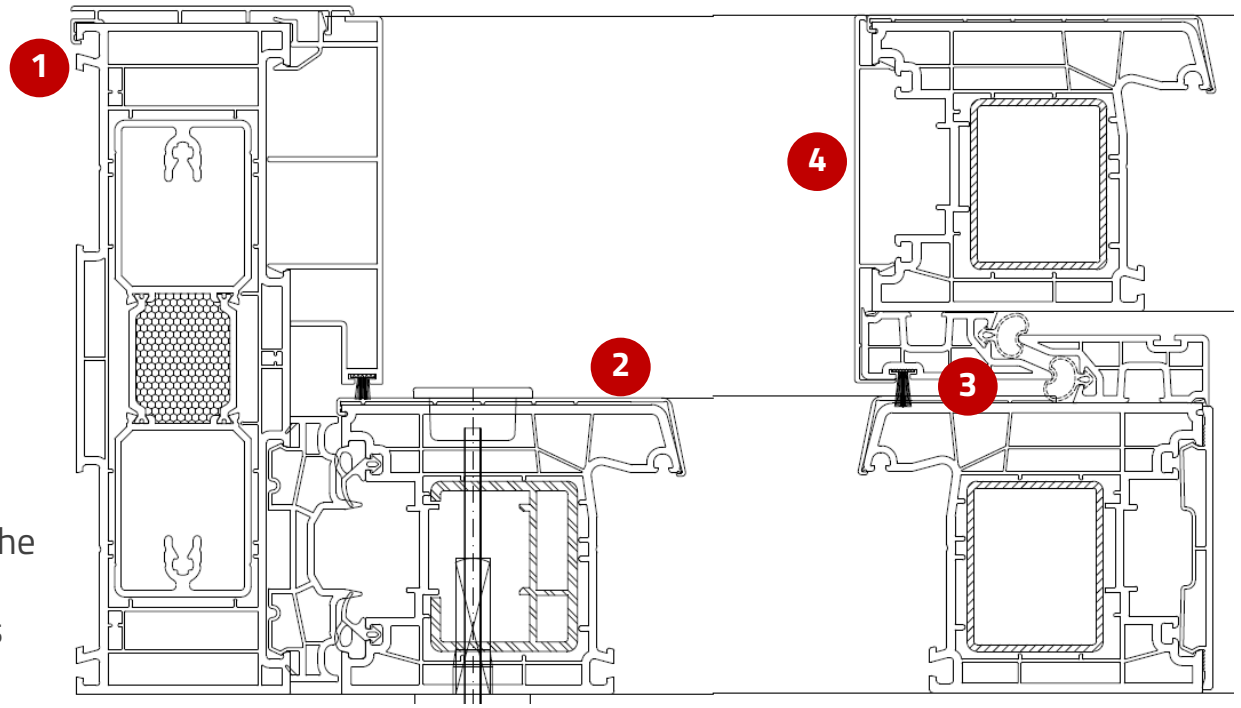
Lift-and-slide door 85 mm

1 | Technical details / benefits

Basic design:

Aluminium shells can be attached to the PVC profiles without additional clips/nipple screw being necessary
> easier and faster handling
> preiswerter

1. Groove for connecting profile to the construction
2. Recessed outline remains
3. Thermally optimized interlock prevents condensation in the interlock area
4. Cover profiles also encompass the interlock area
   > no further aluminium profile is required

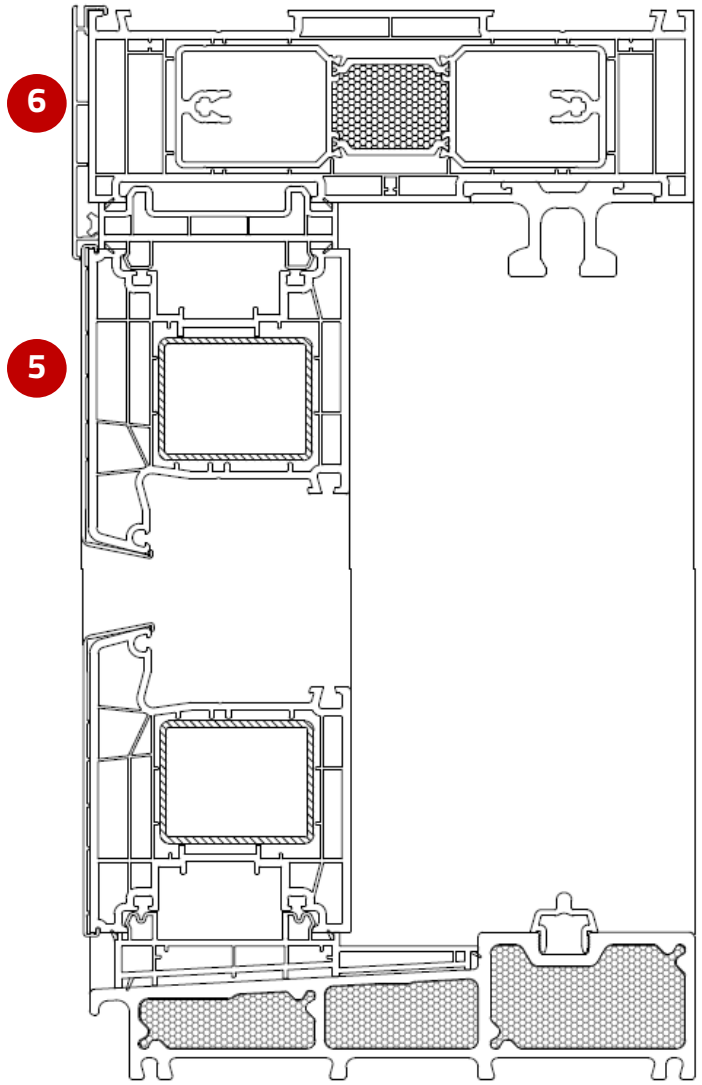


Lift-and-slide door 85 mm

2 | Technical details / benefits

5 Aluminium shell can be attached circumferentially to the fixed sash, both in butt-joint and in mitre-joint design

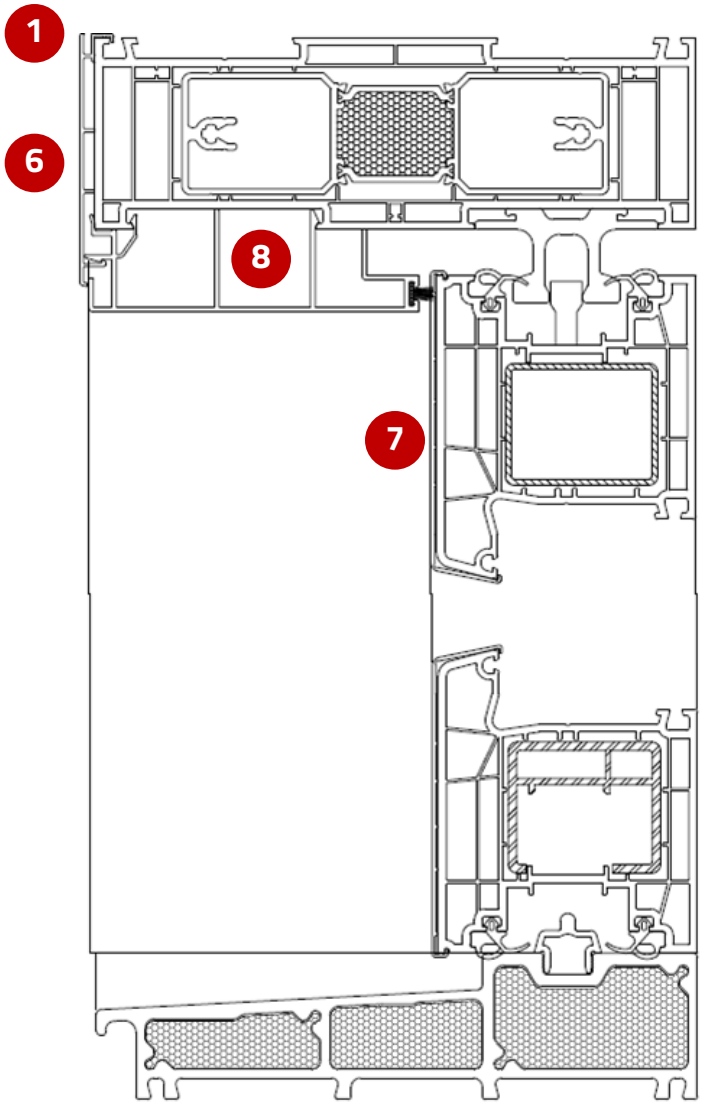
6 Frame shell can be attached circumferentially both in butt-joint and in mitre-joint design



Lift-and-slide door 85 mm

3 | Technical details / benefits

- **1** Groove for connecting profile to the construction
- **6** Frame shell can be attached circumferentially both in butt-joint and in mitre-joint design
- **7** Shell can be attached circumferentially to the sliding sash; in the interlock area, a shorter aluminium shell must be used (butt-joint and mitre-joint solution possible)
- **8** Cover profile completely made of aluminium for increased impermeability, stability and easier installation



aluplast Germany, March 2014