

Efficiency, functionality, large openings and subtle looks

Sliding systems heroyal S 42

heroyal

Sliding systems

Top-quality materials, technical perfection down to the smallest detail and a wide variety of design options distinguish the efficient system technology available from heroal. These are benefits that speak for themselves.

For decades, heroal has been the reliable partner of architects, building constructors and processors thanks to its innovative solutions made of aluminium and aluminium composite materials for the building shell.

Planners appreciate the variety of design options, building constructors can realise their individual wishes with a reliable system and our partners benefit from the economical and efficient heroal system solutions.

As with all innovative heroal systems, the high-quality heroal S 42 sliding systems combine a long service life and superb functionality with top-quality design and numerous design options for large opening elements. They fulfil all criteria for sustainable, energy-efficient building and always satisfy the most stringent requirements.

heroal also represents innovation with this system: the heroal central joint and compound technology complement the outstanding performance properties.

Discover the variety of sliding systems!



heroal S 42

Efficient and functional

page 4

heroal S 42 HF

Transparent and frame-free

page 6

90° corner solution

Architecturally eye-catching

page 8

heroal S 42 UD

Accessible system solutions

page 10

Types of openings and design options

page 12

heroal S 42

Wide range of design possibilities

page 13

Production technology

heroal corner angle, casement connection and compound technology

page 15

heroal SF

Sliding fittings

page 16

System properties and performance features

page 18

Service

page 19

heroal S 42

Efficient and functional



The heroal S 42 sliding system sets the standard in terms of heat insulation, sustainability, economy and processing. One reason for this is the system's innovative construction details.

A range of technologies are used with the heroal S 42 sliding system: the benefits and strengths of heroal's compound, corner angle, connection and fitting technologies are combined to best effect within this system.

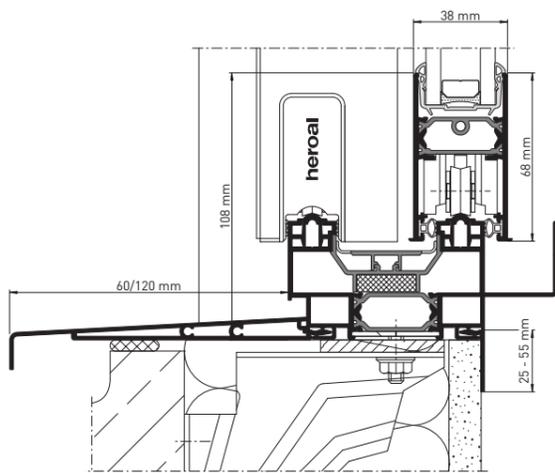
The impeccable attention to detail and the high level of efficiency and functionality enable the provision of flawless double hung sashes and sliding doors for private and commercial buildings. heroal S 42 opens up new large dimensions and guarantees maximum transparency.

System properties

- » Installation depths: frame 72/79 mm, casement 38/42 mm, casement bars 38 mm
- » View widths: frame from 48 mm, casement from 68 mm, casement bars 68 mm
- » Max. casement leaf height: 2600 mm
- » Max. casement leaf width: 2500 mm
- » Max. thickness of infill panel/glass: 24-28 mm
- » Max. casement weights: 80/160 kg
- » Locks: 1- to 3-way, can be lockable
- » Heat insulation: $U_w \geq 1.4 \text{ W/m}^2\text{K}$
- » Air permeability: class 4
- » Tightness against driving rain: 8A
- » Wind load resistance: B2
- » Soundproofing: up to 37 dB

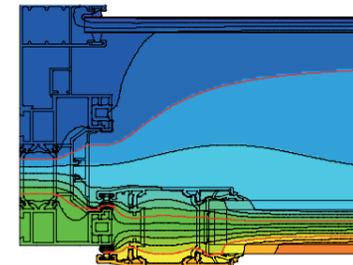
Design options

- » Opening types: 2- or 3-track with up to 6 sliding casements
- » 90° corner design for inner and outer corners
- » Element couplings possible with heroal W 72
- » Combination with heroal W 65 and heroal W 72 as insert frame
- » Accessible threshold design with concealed, controlled drainage via drainage system
- » Compatible with the heroal C 50 curtain wall system and the heroal IS insect screen system
- » Variety of surface designs, including for interior and exterior element side
- » Colour design in high-quality hwr powder coating

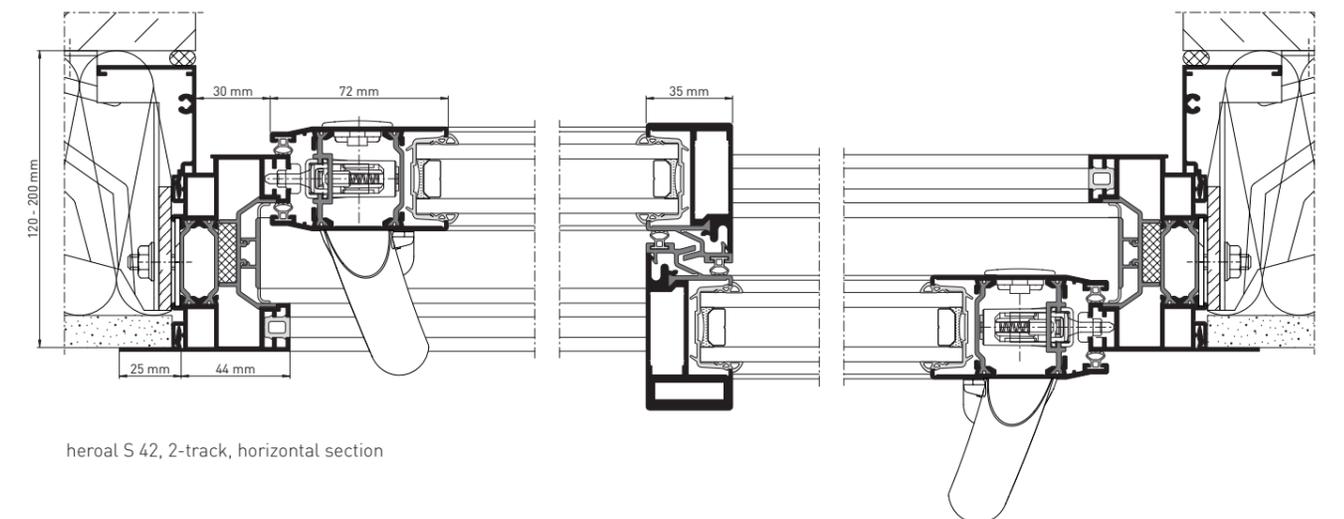


heroal S 42, 2-track, lower structural attachment

Window, 2-track, 4.6 x 2.3 m; $U_i = 3.0 \text{ W/m}^2\text{K}$; $A_g/A_w = 0.849$													Light transmittance [%]	Total (solar) energy transmittance [%]	
							Areal thermal resistance U_w [$\text{W/m}^2\text{K}$]					$Sw_{0,4}$		Sw_1	
Thickness of infill panel/glass [mm]	U_g	T_L	g	RW	RW, p	...	Aluminium 0,111	Highgrade steel 0,063	TGI Spacer 0,046	Swiss-pacer V 0,034	Swiss-pacer U 0,031				
4/16/4 = 24	1.0	0.71	0.50	[29]	[26]	...	1.5	1.4	1.4	1.4	1.3	0.61	0.43	0.45	
6/16/4 = 26		0.70	0.49	[32]	[29]	...						0.60	0.43	0.44	
8/16/4 = 28		0.70	0.48	[34]	[31]	...						0.60	0.42	0.43	
4/16/4 = 24	1.1	0.80	0.63	[29]	[26]	...	1.6	1.5	1.5	1.4	1.4	0.68	0.55	0.56	
6/16/4 = 26		0.79	0.61	[32]	[29]	...						0.68	0.53	0.54	
8/16/4 = 28		0.78	0.59	[34]	[31]	...						0.67	0.51	0.52	



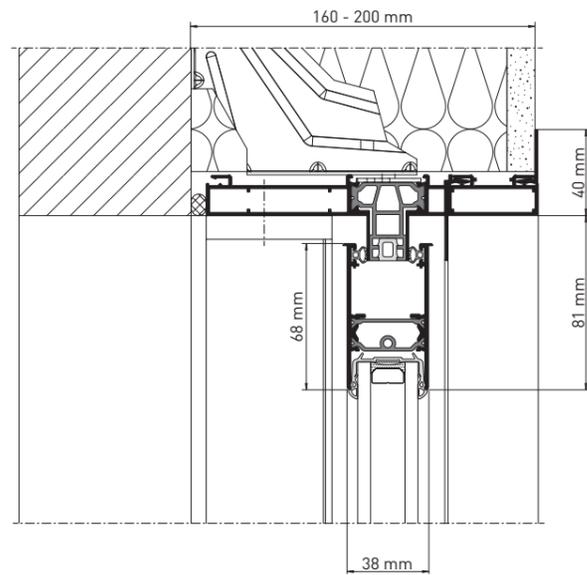
Temporary protection from roller shutters [U_{wf}, U_{jn}]											
heroal Roller shutter slat	ΔR	$U_{wf} - U_{jn}$ Window incl. Roller shutters [$\text{W/m}^2\text{K}$]	U_w -value of the sliding element [$\text{W/m}^2\text{K}$]								
			2.0	1.8	1.6	1.5	1.4	1.3	1.2	1.1	1.0
RS 41	0.19	U_{wf}	1.4	1.3	1.2	1.2	1.1	1.0	0.98	0.91	0.84
		U_{jn}	1.7	1.6	1.4	1.3	1.3	1.2	1.1	1.0	0.92



heroal S 42, 2-track, horizontal section

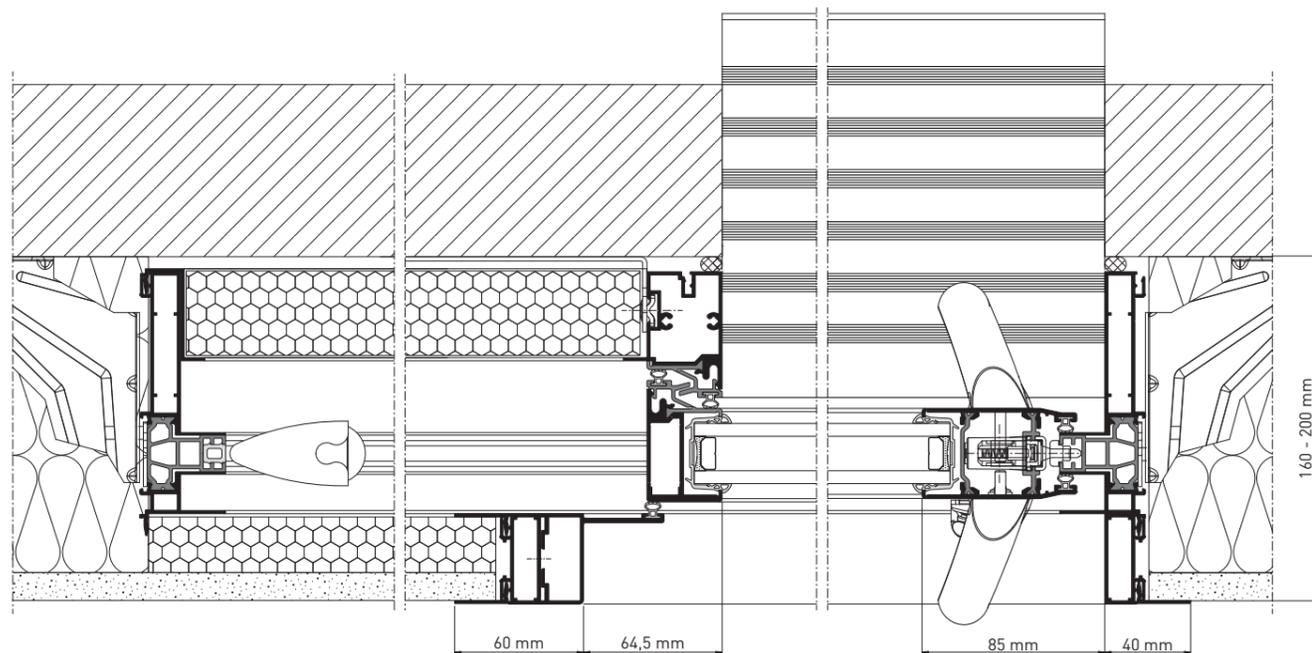
heroal S 42 HF

Transparent and frame-free

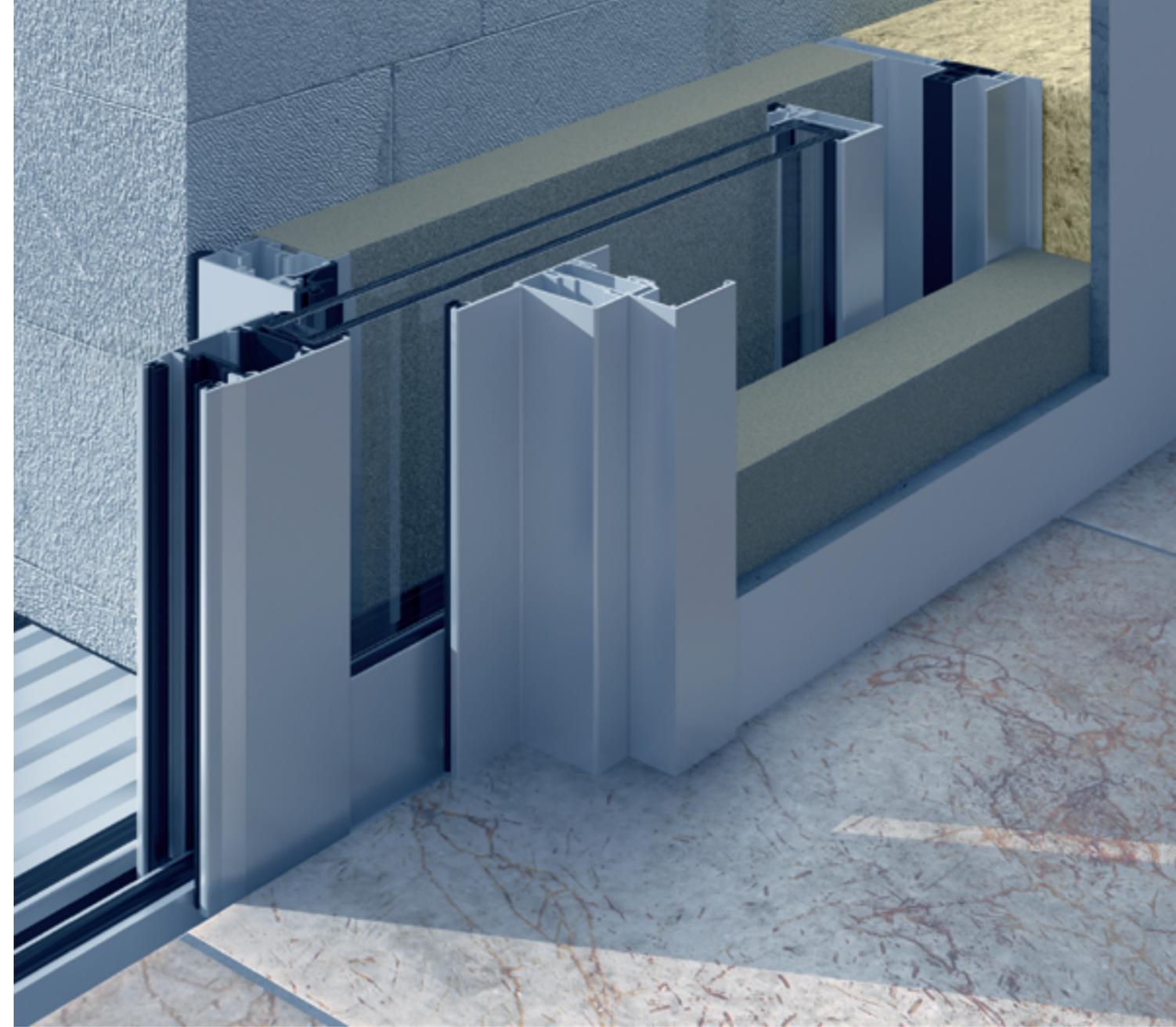


heroal S 42 HF, vertical section

heroal S 42 HF opens up new large dimensions and guarantees maximum transparency with its unique innovative frame construction integrated into the masonry. The sliding casements completely disappear into a double-insulated pocket in the wall, creating a unique spatial experience with maximum transparency.



heroal S 42 HF, horizontal section



System properties

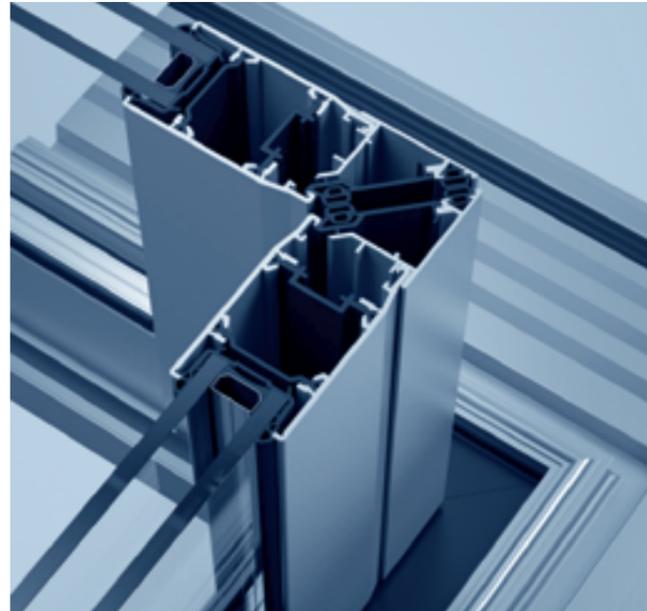
- » Installation depths: frame 113 mm, casement 38/42 mm, casement bars 38 mm
- » View widths: frame concealed, casement from 68 mm, casement bar 68 mm
- » Max. casement leaf height: 2600 mm
- » Max. casement leaf width: 2500 mm
- » Max. thickness of infill panel/glass: 24–28 mm
- » Max. casement weights: 80/160 kg
- » Locks: 1- to 3-way, can be lockable

Design options

- » Types of opening as monorail (1-track) with 1 to 2 sliding casements
- » 90° corner design with 1 to 2 sliding casements
- » Accessible threshold design with concealed, controlled drainage via drainage system
- » Cladding profiles for insulation zone superstructure of 160–200 mm
- » Variety of surface designs, including for interior and exterior element side
- » Colour design in high-quality hwr powder coating

heroal S 42

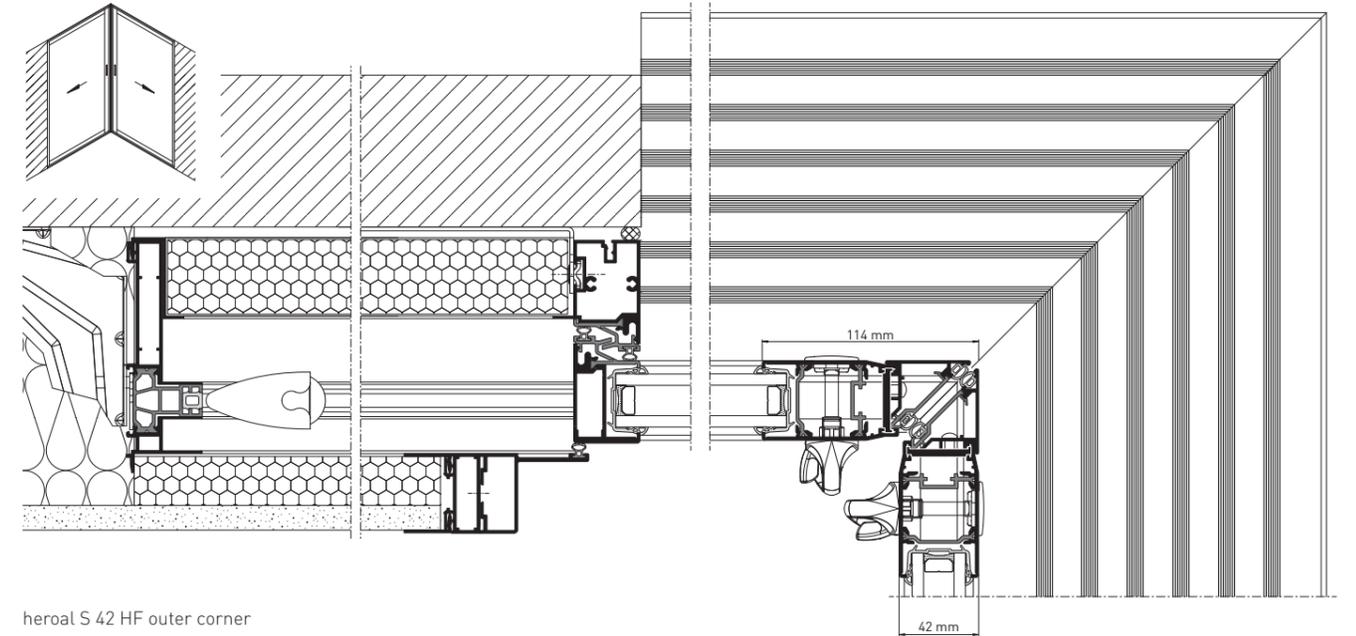
Architecturally eye-catching 90° corner solution



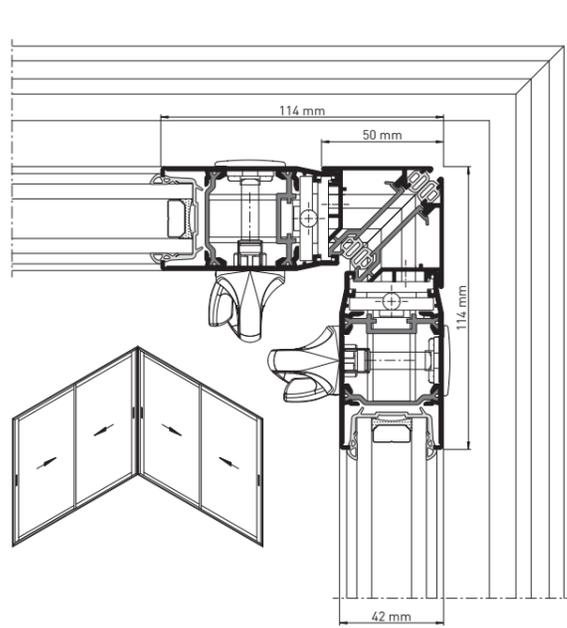
heroal S 42 enables sliding doors with large openings in the corner area thanks to the 90° corner solution. The innovative and sophisticated design option of the heroal S 42 sliding system completely satisfies the increasing demand for more transparency in architecture.

Design options

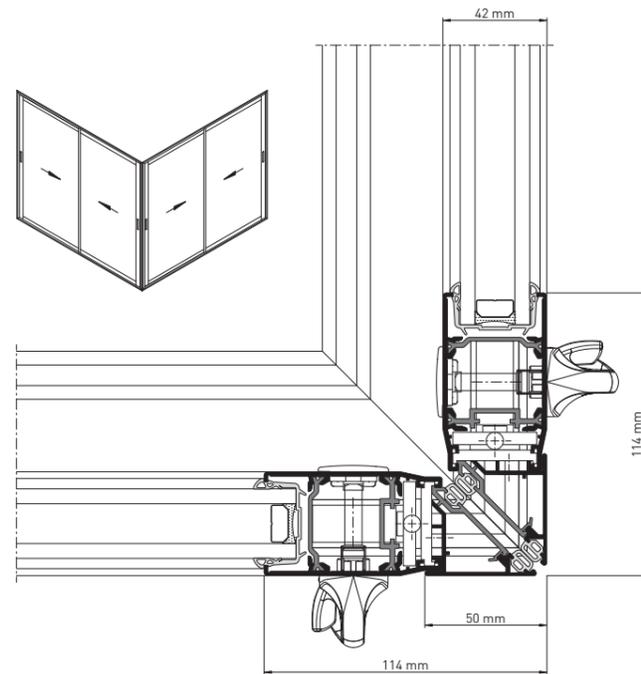
- » Opening types:
 - 1-track (heroal S 42 HF) with 1 to 2 sliding casements
 - 2-track with up to 4 sliding casements
- » Can be designed for inner or outer corners
- » Accessible threshold design with concealed, controlled drainage via drainage system
- » Variety of surface designs for interior and exterior element side
- » Colour design in high-quality hwr powder coating



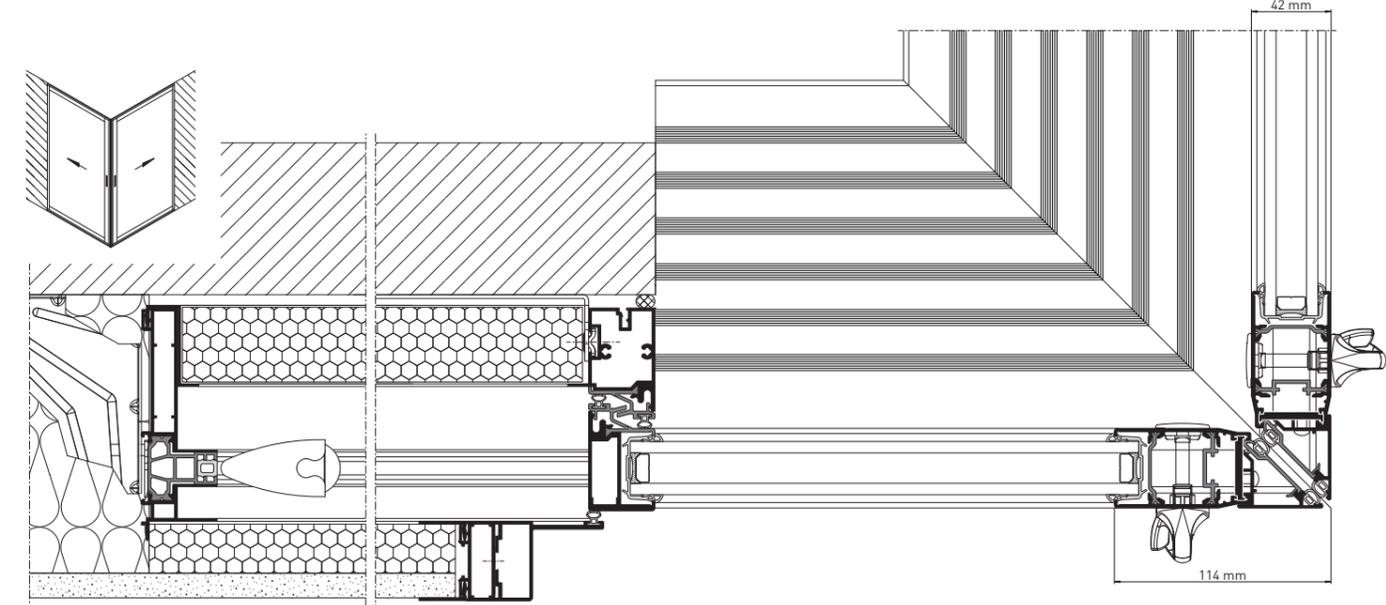
heroal S 42 HF outer corner



heroal S 42 outer corner



heroal S 42 inner corner



heroal S 42 HF inner corner

heroal S 42 UD

Accessible system solutions

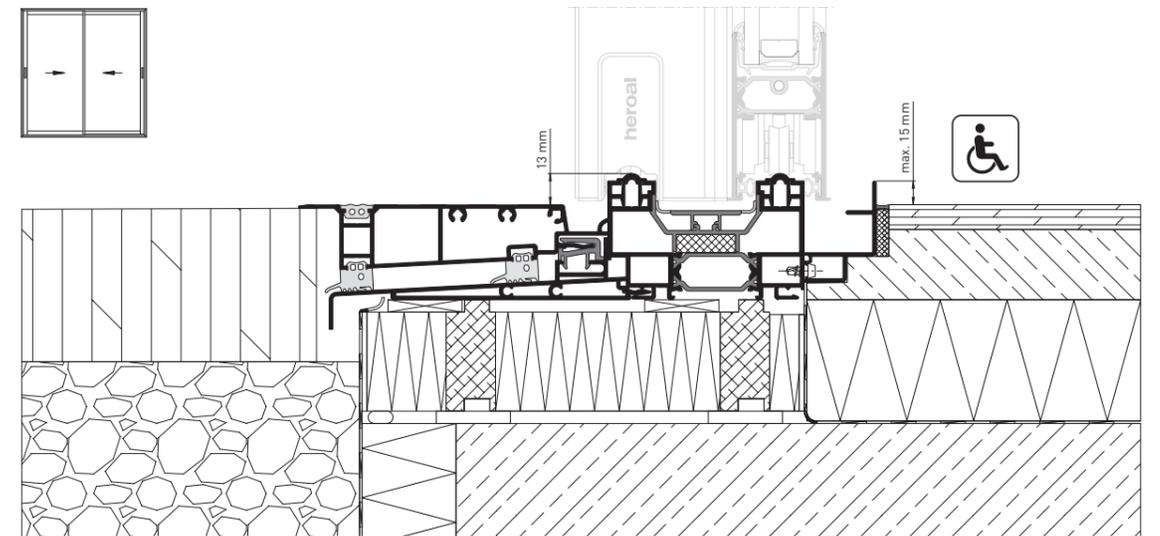
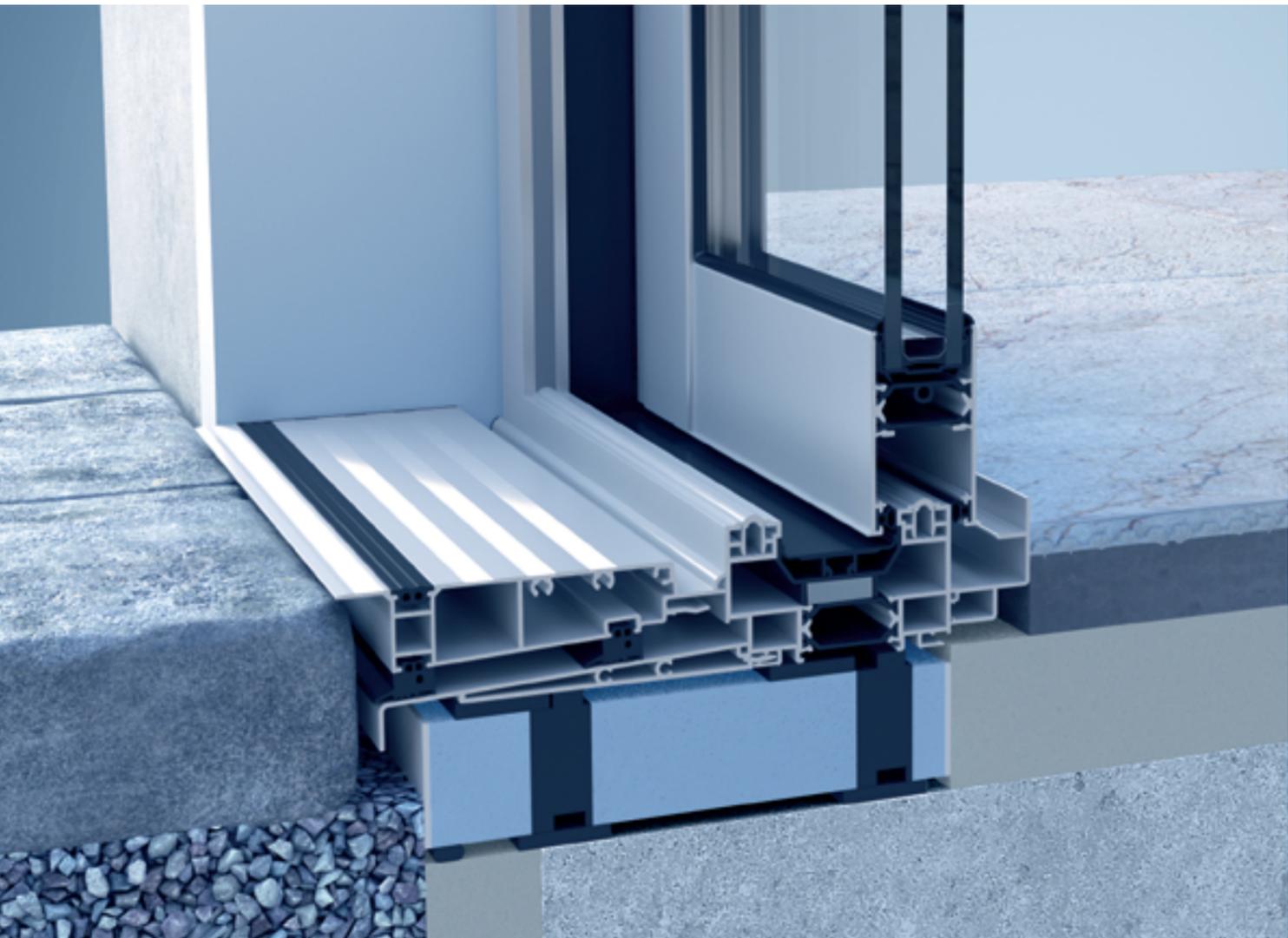
heroal S 42 UD enables accessible, large-area sliding elements for more comfortable living. Level thresholds to access patios, balconies and conservatories offer safety and freedom of movement.

The heroal threshold solutions meet the legal accessibility requirements through incorporation into the building in the correct manner. To implement accessible thresholds in the area of sliding elements while offering protection from moisture damage indoors, particular measures need to be taken.

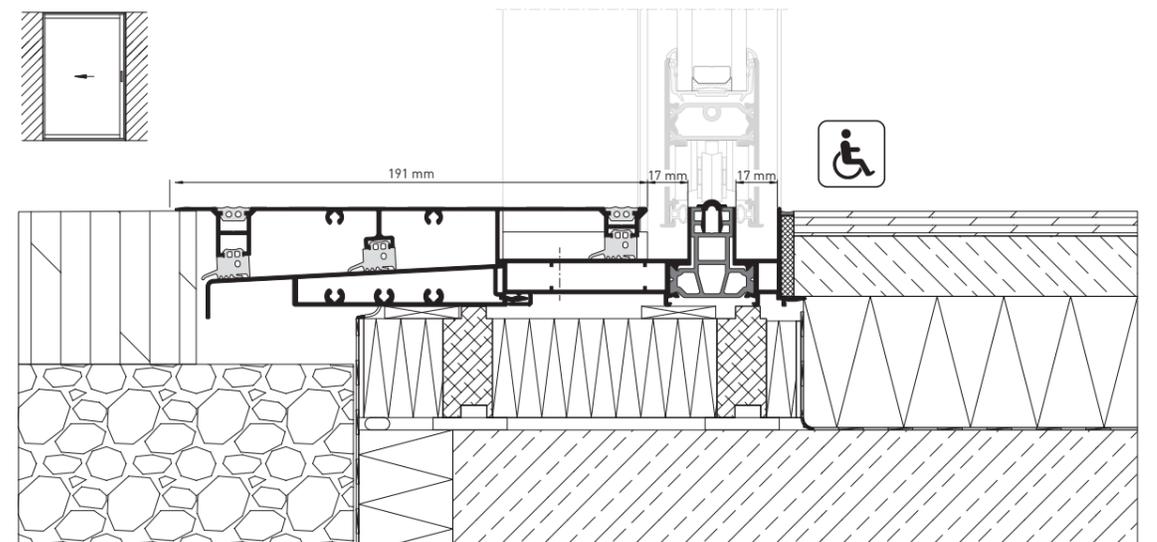
One possible solution is to use the heroal drainage system for the heroal S 42 UD sliding system. This system solution enables effortless integration of structures in new buildings as well as renovations.

Design options

- » Opening types: 1-track (heroal S 42 HF) with 1 to 2 sliding casements. 2- or 3-track with up to 6 sliding casements
- » Accessible threshold design with concealed, controlled drainage via drainage system
- » Variety of surface designs for interior and exterior element side
- » Colour design in high-quality hwr powder coating



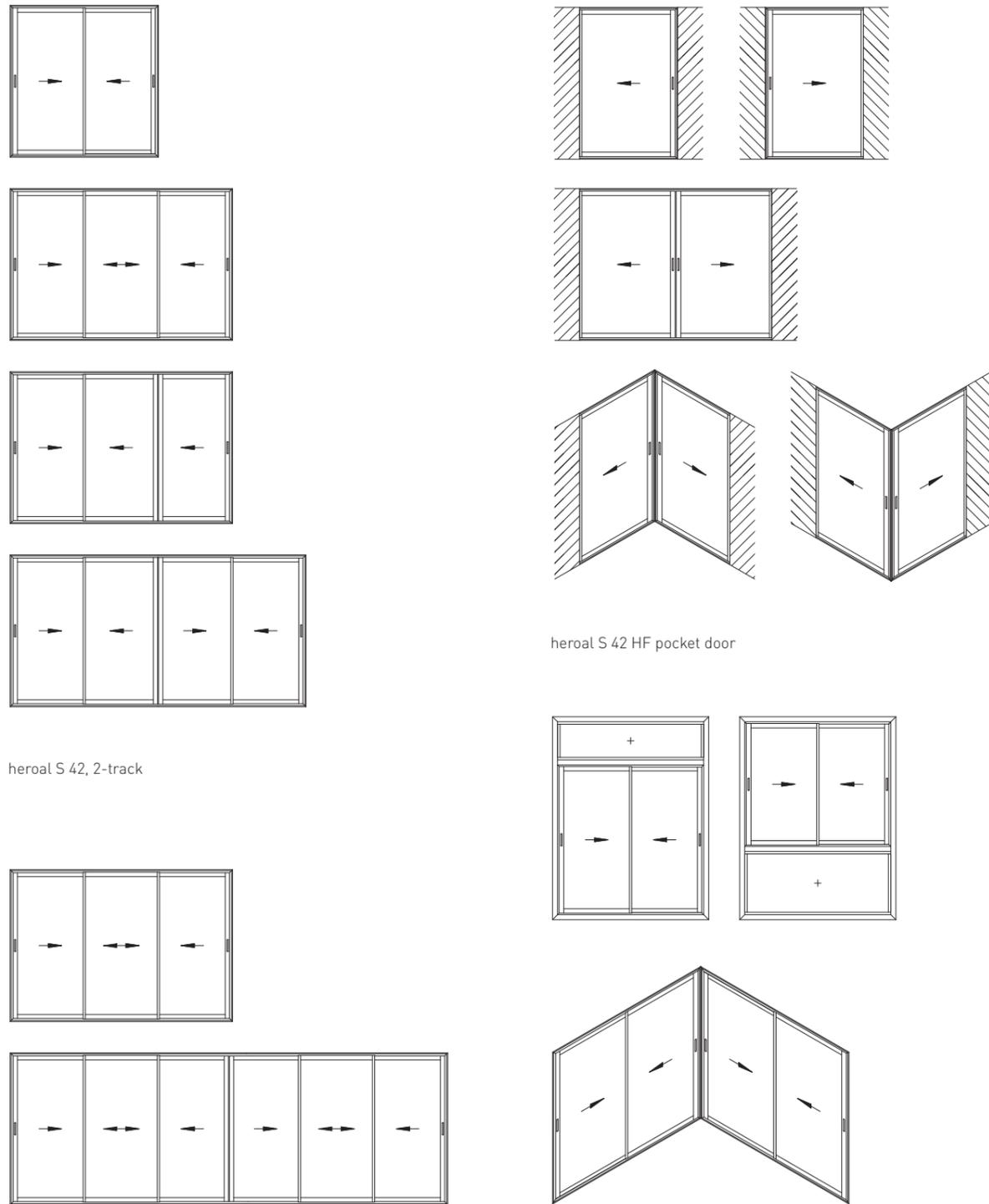
heroal S 42 UD, accessible



heroal S 42 HF, accessible

heroal S 42

Types of openings and design options



heroal S 42, 2-track

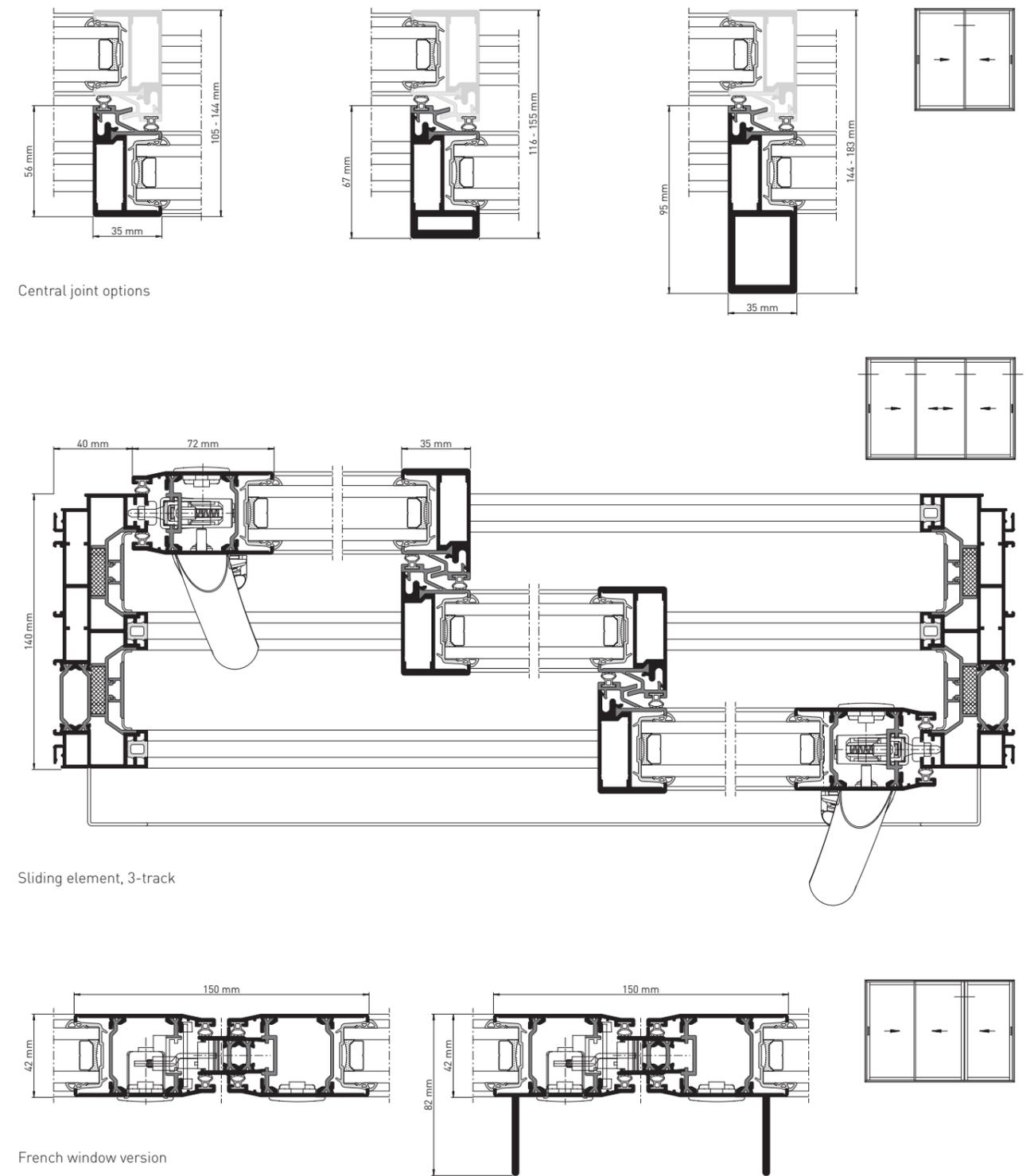
heroal S 42, 3-track

heroal S 42 HF pocket door

heroal S 42, fanlight and sublight, 90° corner solution

heroal S 42

Wide range of design possibilities



Central joint options

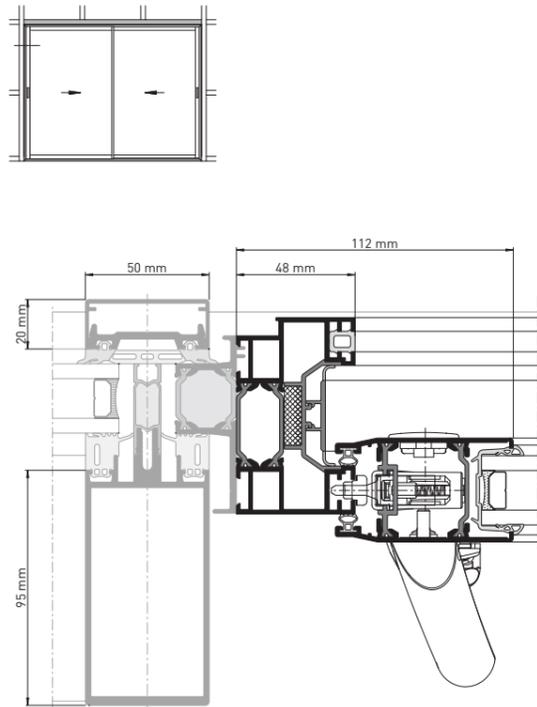
Sliding element, 3-track

French window version

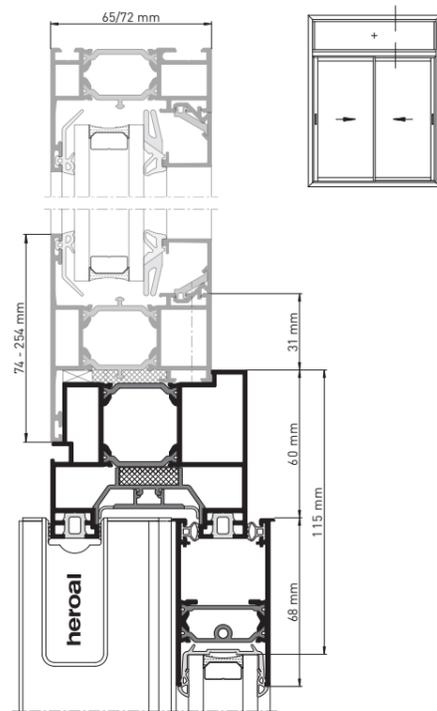
French window version with static profiles

heroal S 42

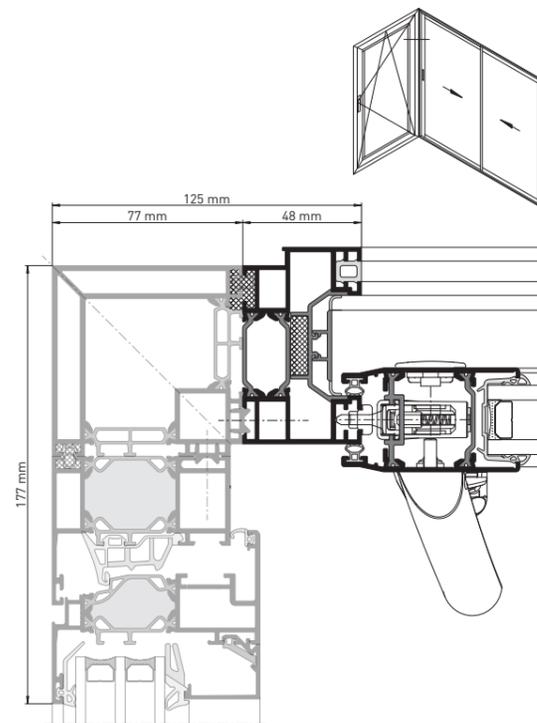
Wide range of design possibilities



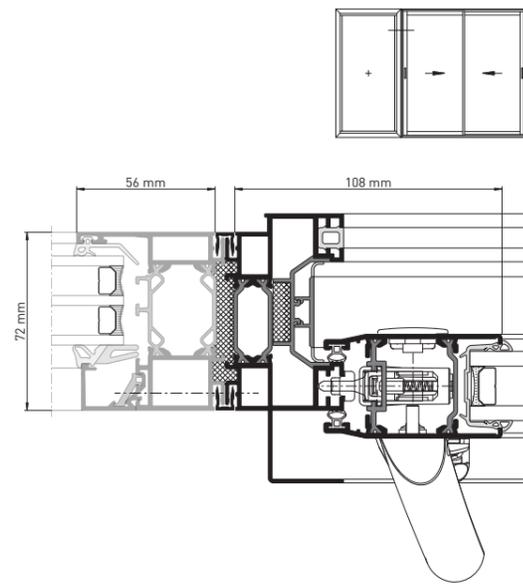
Insert element in heroal C 50 curtain wall system



Insert element in heroal W 65/heroal W 72 window systems



90° element coupling



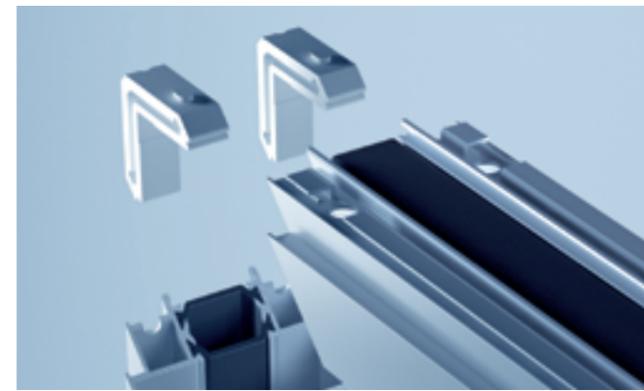
Element coupling with heroal W 72 window system

heroal S 42

Production technology

The heroal S 42 sliding system sets new standards in the fields of heat insulation, sustainability and economy. The completely new concept for an aluminium coupled design offers perfect system solutions for every range of application. heroal S 42 combines minimal energy consumption in production with maximum energy conservation throughout the entire service life.

The design advantages of this new generation of sliding systems, particularly the heroal compound, corner angle, connection and fitting technologies, result in significant time savings during production.



heroal corner angle technology

To support customised manufacturing options, alongside the heroal corner angle technology with sealant injection, heroal also offers a connection option by means of a screw-fixed corner angle in the frame. The connection technologies enable more efficient manufacturing processes that save time.



heroal casement connection technology

Thanks to the heroal design, the casement profiles can be connected by screw even more easily and faster by means of the T-joint procedure. After cutting to size, only the vertical casement profiles require processing. During the subsequent installation, the casement profiles are aligned automatically.



heroal compound technology

The new optimised profile geometry combines heroal's innovative strength and production technology in a single construction. Using this profile geometry, heroal has succeeded in providing the required static performance features across two profile cross-sections whilst ensuring optimum levels of heat insulation and minimum distortion.

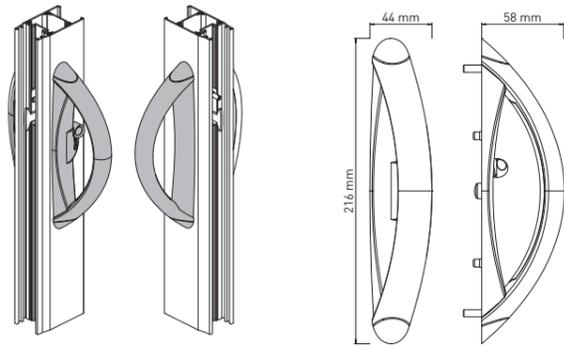
heroal SF

Sliding fittings



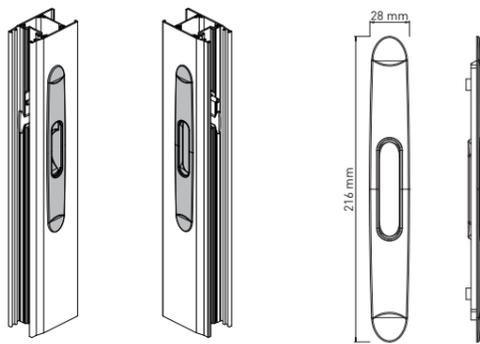
heroal "Versus" sliding fitting

- » A combination of comfort, security, aesthetics, ergonomics and colour variety
- » A simple, practical central lock that can be extended or modified to a 3-way lock
- » Locks in manual or automatic version
- » Adjustable carriage made from aluminium for long-term operation for a casement weight of up to 80 kg and 160 kg
- » Value-for-money and efficient processing and fitting assembly:
 - Outside handle recesses are clipped on
 - Inside design handle screwed together with the lock case
 - Lock case can be used for all applications. Compatible with a wide selection of handle recesses and design handles

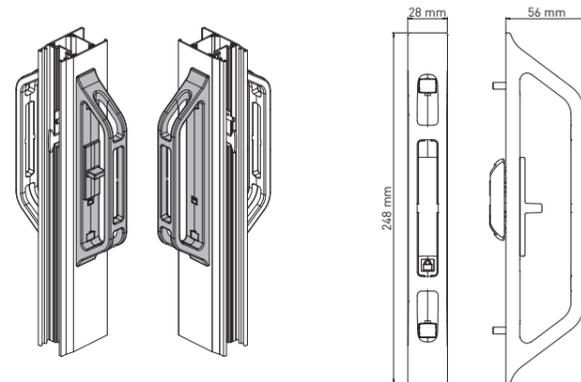


- » Considerable scope for creativity and design freedom thanks to extensive range of recess handles and design handle bars.
- » Handle options can be combined on the interior and exterior element side
- » Colour variety thanks to customised colour coating of handle bars and handle recesses

heroal handle bar



heroal handle recess



heroal "design" handle bar

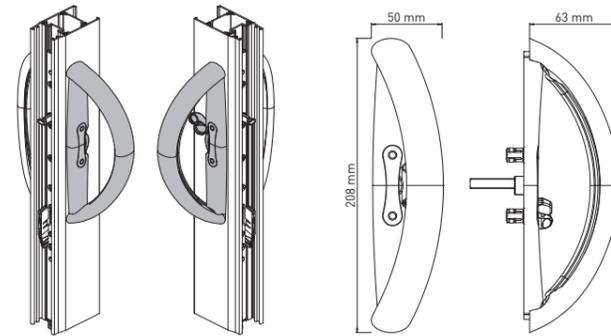
heroal SF

Sliding fittings



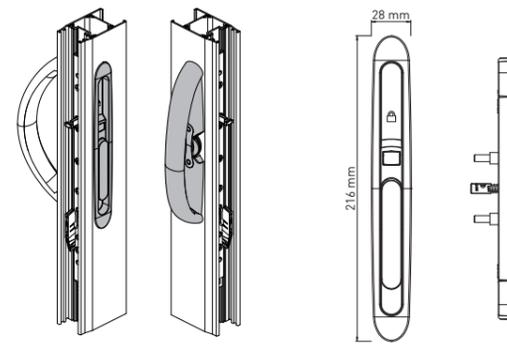
heroal "Chronos" sliding fitting

- » Design, ergonomics and flexibility combined
- » The "Chronos" sliding fitting is a locking bar system designed to meet security demands
- » Design variants as 1-, 2-, and 3-way lock with claw bolt
- » Reliably secure thanks to self-locking screws
- » Gearbox with 43 mm bolt-on axle and 7 mm square mounting
- » Affordable and efficient installation

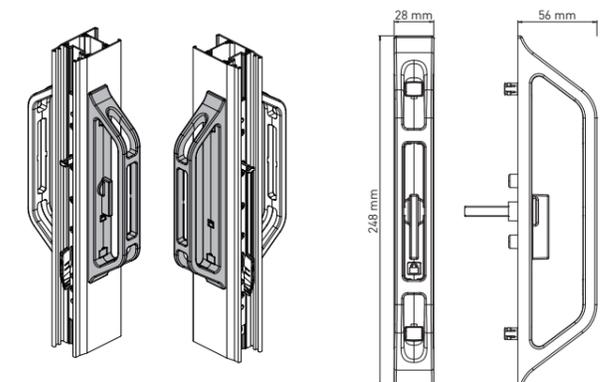


- » High level of flexibility and design freedom thanks to extensive range of handles
- » Extensive range of handle versions with choice of half-moon or design handles
- » Handle options can be combined on the interior and exterior element side
- » Colour variety thanks to customised colour coating of handle bars

heroal handle bar



heroal handle recess



heroal "design" handle bar

Diagram: exterior left handle bar, interior right handle bar
 Further handle options available for "Versus" and "Chronos" sliding fittings

System properties and performance features

System dimensions

Description		heroal S 42			heroal S 42 HF	
		2-track	3-track	French window	1-track	French window
Profile installation depth (mm)	Frame profiles	72/79	132/139	72/79 132/139	131	131
	Casement profiles	42/38	42/38	42/38	42/38	42/38
	Central joint/labyrinth	105 - 183	105 - 183	105 - 183	105	105
	Casement bars	38	38	38	38	38
Profile view widths (mm)	Frame profile	48	48	48	Concealed	Concealed
	Casement profiles	68 - 72	68 - 72	68 - 72	68 - 72	68 - 72
	Central joint/labyrinth	35	35	35	35	35
	Casement bars	68	68	68	68	68
Max. thicknesses of infill panel/glass (mm)		24 - 28	24 - 28	24 - 28	24 - 28	24 - 28
Max. casement weights (kg)		160	160	160	160	160
Max. casement leaf heights (mm)		2600	2600	2600	2600	2600

System properties

Heat insulation (W/m²K)	U _w ¹¹	≥1.3	≥1.5	≥1.4	≥1.2	≥1.2
Element size (mm)		4600 x 2300 mm	3450 x 2180 mm	4600 x 2180 mm	2.350 x 2.180 mm	4.600 x 2.180 mm
Air permeability	DIN EN 12207	4	4	4	4	4
Tightness against driving rain ³⁾	DIN EN 12208	8A	7A	6A	8A	6A
Element size (mm)		3000 x 2400 mm	3500 x 2400 mm	3500 x 2400 mm	2.350 x 2.180 mm	4.600 x 2.180 mm
Wind load resistance	DIN EN 12210	C1/B2	C2	C2	C2	C2
Soundproofing class (SSK)	EN ISO 717-1	3	3	3	3	3

Opening types/design

Max. number of moveable sliding casements		4	6	6	1	2
Accessible sliding element	DIN 18040	•	•	•	•	•
Drainage system		•	•	•	•	•
Insert elements	heroal C 50	•	•	•	-	-
	heroal W 72	•	-	-	-	-
	heroal W 65	•	-	-	-	-
	heroal W 50 C	•	-	-	-	-
	heroal CR	•	-	-	-	-
hwr powder coating	One/two colours	•	•	•	•	•
Eloxal coating		•	•	•	•	•
Decorative film		-	-	-	-	-

¹¹ U_w-value according to EN ISO 10077-1; U_g = 1.0 W/m²K; ψ_g = 0.031 W/m²K

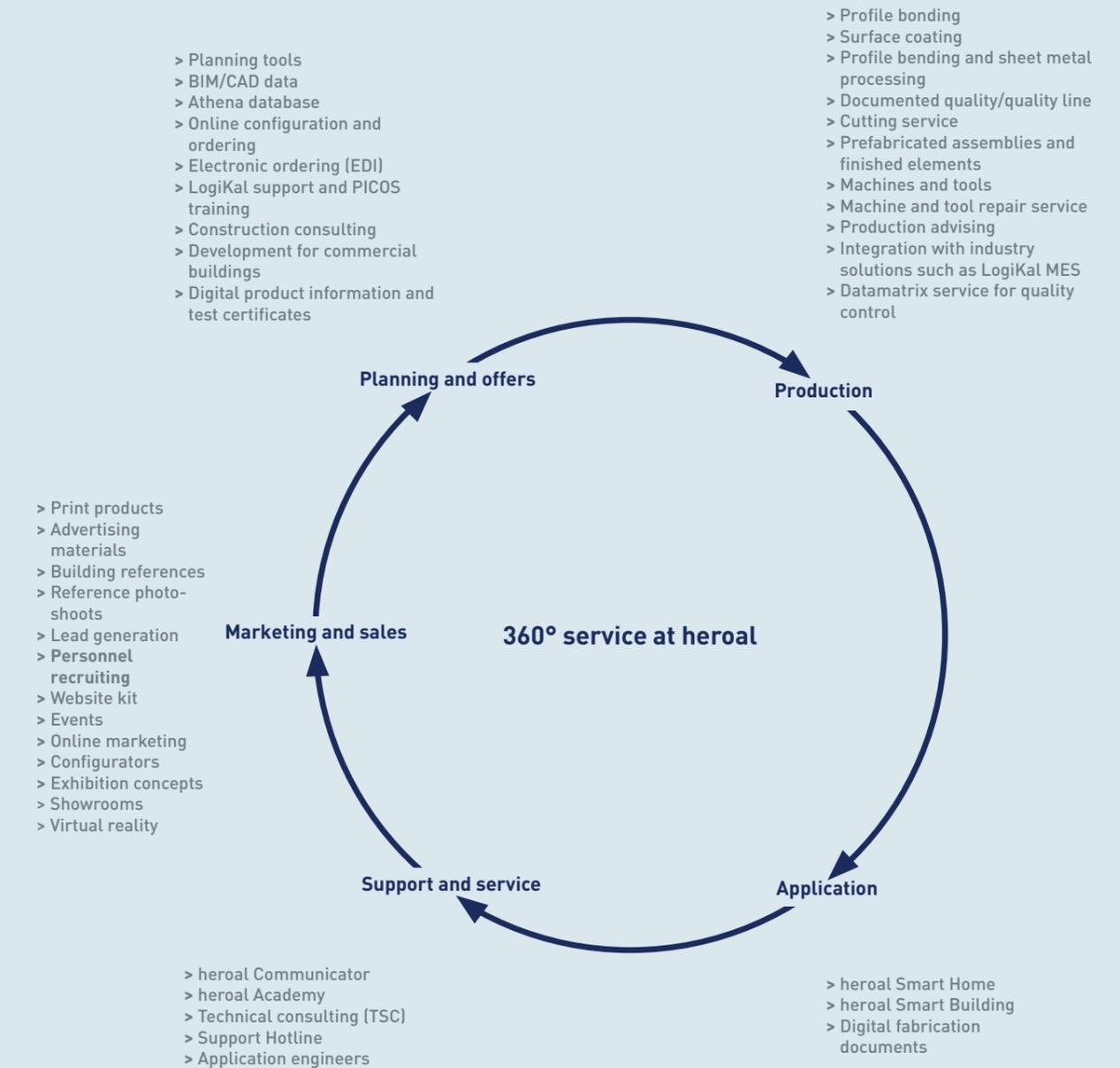
The heroal all-round service

Support across the entire process chain

Comprehensive support. Comprehensive satisfaction.

Success is when every cog is perfectly in sync to ensure that everything runs smoothly. So we have designed our service offers to provide optimum support in every aspect of your work.

From marketing through to planning and production as well as application, our comprehensive service supports you along the entire process chain.



heroal



simply better *spaces for life*

As a manufacturer of aluminium system solutions for roller shutters, sun protection, roller doors, windows, doors, sliding doors, curtain walls and patio roofs, heroal is an international market leader, supporting high-quality residential and commercial construction projects worldwide. heroal products are developed and manufactured in Germany and set themselves apart with their premium quality and exceptional performance features. As a result, the innovative system solutions contribute to greater sustainability, security, comfort and architectural freedom for both current and future building projects and impress with simple and efficient planning and fabrication by heroal specialist partners.

Roller shutters | Sun protection | Roller doors | Windows | Doors | Sliding doors | Curtain walls | Patio roofs

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