



heroal D 72

Front door system



Door system

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 realize their individual wishes with a reliable system and our partners benefit from the economical and efficient heroal system solutions.

The heroal D 72 system offers functional versatility with many conventional types of opening, satisfies the highest heat insulation standards and meets the maximum static requirements. The tried-and-tested heroal system allows all conventional types of openings, including automatic door systems and burglar-resistant doors – also with the emergency exit door function – to be implemented.

Discover the variety of the heroal D 72 door systems!





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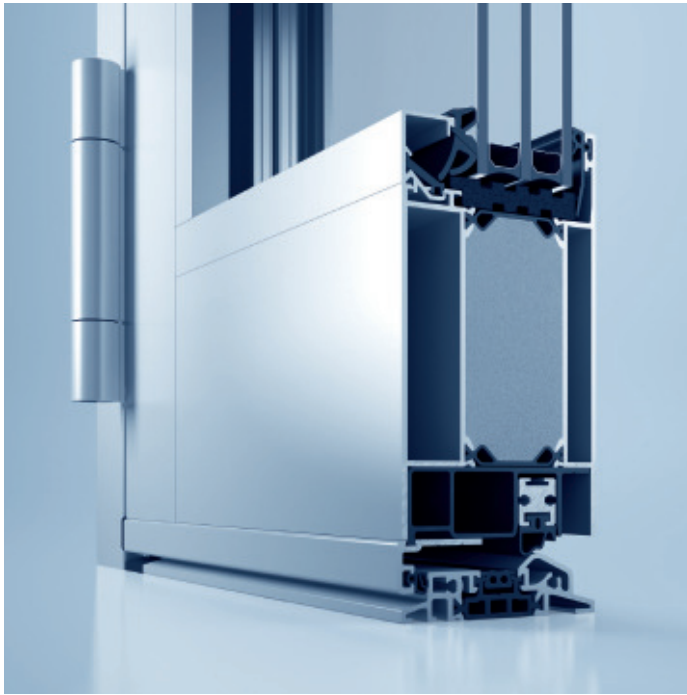
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Front door system with exceptional quality and features



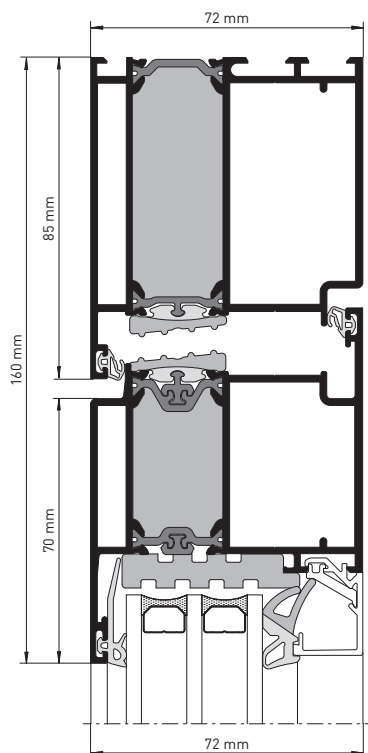
heroal offers exceptional system diversity with the heroal D 72 front door system. The best materials, highest functionality, sophisticated design options and maximum flexibility are the solid foundation for individual pieces that are always customised and manufactured exclusively. heroal front door systems offer the greatest possible variety for a multitude of infill types and elaborate system solutions for all installation situations in new builds and renovations, whether exclusive and modern or timelessly elegant with a modern or traditional appearance. In addition to the numerous design options, high burglary resistance up to RC 3 is guaranteed as standard.

System dimensions and performance features

- » Installation depth: 72/82 mm
- » Variable view widths: frame 50 – 250 mm, casement 70 – 124 mm, cross bars 74 – 254 mm
- » Max. thickness of infill panel/glass: frame up to 54 mm, casement up to 68 mm (glass) and 72 mm (infill panel)
- » Air permeability: class 4
- » Tightness against driving rain: 5A
- » Heat insulation: $U_D \geq 1.0 \text{ W/m}^2\text{K}$
- » Soundproofing class: 1 – 3
- » Complies with all requirements of the current EnEV 2014 (German energy conservation requirements)
- » Certification for burglary resistance up to resistance class RC 3 for profile, fitting and infill technologies
- » Highly insulated 3-chamber profile system
- » Patented, warp-resistant profile compound

Design options

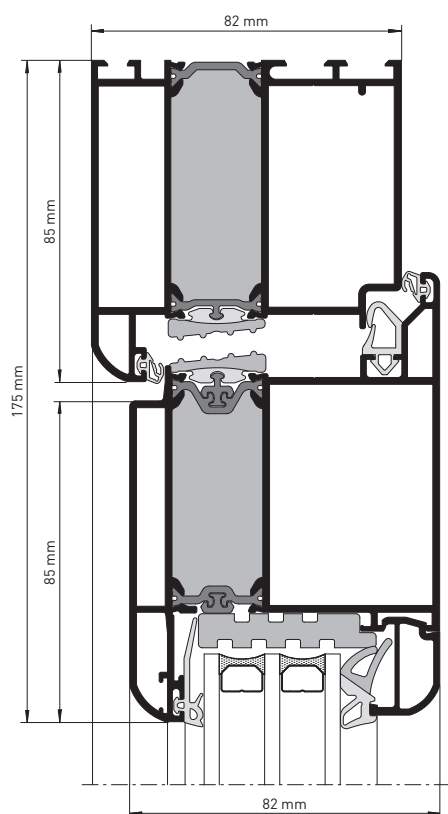
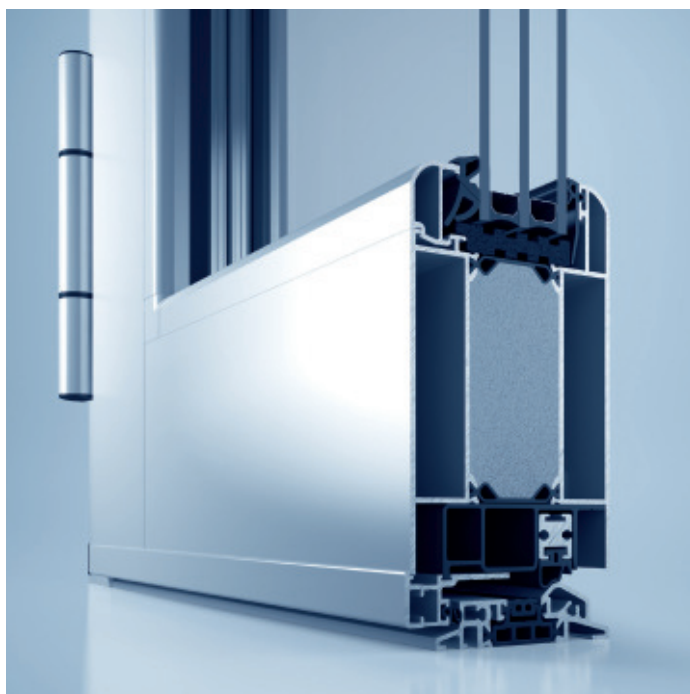
- » Opening types: single- and multi-part elements with side section and fanlights
- » Single- and multi-part form elements with side section or fanlight as semicircular, segmental or three-centre arches
- » Framed HT casement frame with base and single-sided casement-enclosing infill
- » System-compatible window system: heroal W 72
- » Can be integrated in the heroal C 50 HI curtain wall system for entrance façades
- » Colour design with high-quality heroal hwr powder coating



heroal D 72, section diagram

bheroal D 72 RL

Door system with rounded outer contour



The heroal D 72 RL door system with harmonious roundline contour offers functional versatility, a range of design options and outstanding heat insulation and static values.

The system is the ideal solution for heavily used entrance areas and for the renovation of old buildings and listed buildings in residential and commercial construction projects.

bSystem dimensions and performance features

- » Installation depth: 82/82 mm
- » Variable view widths: frame 60 – 154 mm, casement 70 – 124 mm, cross bars 74 – 94 mm
- » Max. thickness of infill panel/glass: frame up to 54 mm, casement up to 68 mm (glass) and 72 mm (infill panel)
- » Air permeability: class 4
- » Tightness against driving rain: 4A
- » Heat insulation: $U_D \geq 1.0 \text{ W/m}^2\text{K}$
- » Soundproofing class: 1 – 3
- » Complies with all requirements of the current EnEV 2014 (German energy conservation requirements)
- » Certification for burglary resistance up to resistance class RC 3 for profile, fitting and infill technologies
- » Highly insulated 3-chamber profile system
- » Patented, warp-resistant profile compound

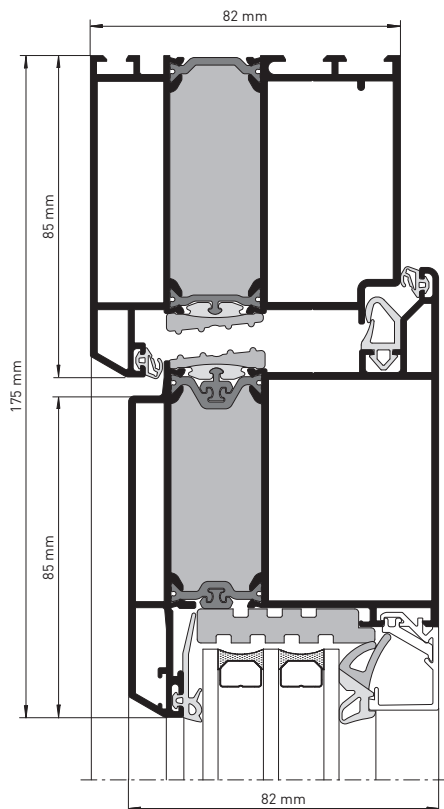
bDesign options

- » Opening types: single- and multi-part elements with side section and fanlights
- » Single- and multi-part form elements with side section or fanlight as semicircular, segmental or three-centre arches
- » Framed HT casement frame with base and single-sided casement-enclosing infill
- » Profile-compatible door system: heroal D 72
- » System-compatible window system: heroal W 72 RL
- » Can be integrated in the heroal C 50 HI curtain wall system for entrance façades
- » Colour design with high-quality heroal hwr powder coating

heroal D 72 RL, section diagram

heroal D 72 CL

Door system with slanted outer contour



The heroal D 72 CL front door system with elegant classicline contour offers functional versatility, a range of design options and outstanding heat insulation and static values. It can be used with all conventional opening types.

System dimensions and performance features

- » Installation depth: 82/82 mm
- » Variable view widths: frame 60 – 154 mm, casement 70 – 104 mm, cross bars 74 – 94 mm
- » Max. thickness of infill panel/glass: frame up to 54 mm, casement up to 68 mm (glass) and 72 mm (infill panel)
- » Air permeability: class 4
- » Tightness against driving rain: 4A
- » Heat insulation: $U_D \geq 1.0 \text{ W/m}^2\text{K}$
- » Soundproofing class: 1 – 3
- » Complies with all requirements of the current EnEV 2014 (German energy conservation requirements)
- » Certification for burglary resistance up to resistance class RC 3 for profile, fitting and infill technologies
- » Highly insulated 3-chamber profile system
- » Patented, warp-resistant profile compound

Design options

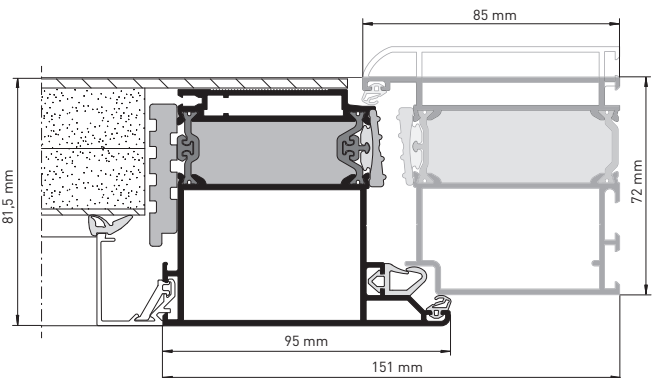
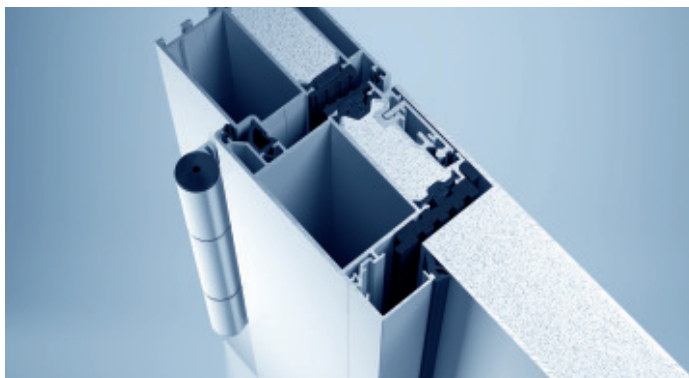
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- » Can be integrated in the heroal C 50 HI curtain wall system for entrance façades
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heroal D 72

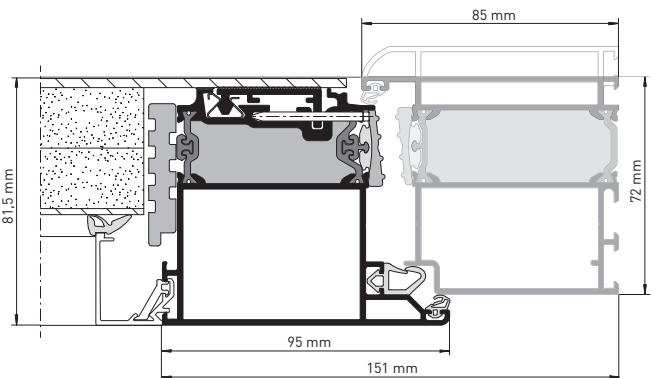
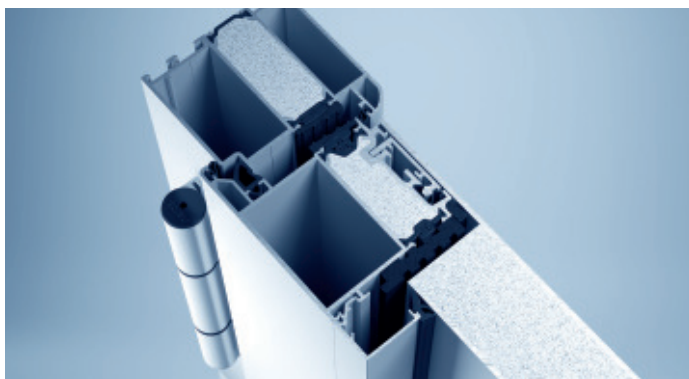
Casement and design options

Design diversity is one of the main features of the heroal D 72 front door system. Numerous design options can be produced, ranging from tailor-made infills to one-sided exterior casement-enclosing. heroal provides the possibility for all casement-enclosing filling options to be realised as a systematic flush or offset installation on the exterior. The innovative tested attachment technology with reversible infill panel securing device promises

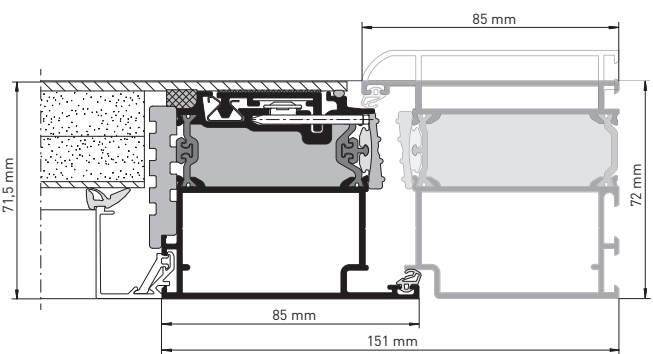
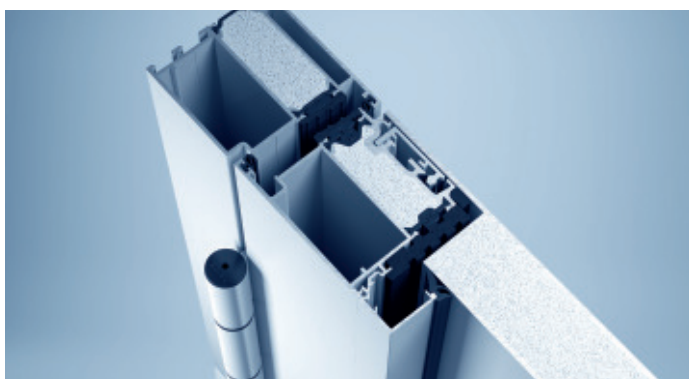
to save time and give creative freedom. The heroal door system D 72 offers almost unlimited design freedom even in indoor areas with flush casement or surface offset appearance. Three sealing levels and an additional insulating level in the rebate area guarantee outstanding performance features.



One-sided casement enclosing



One-sided casement enclosing, reversible

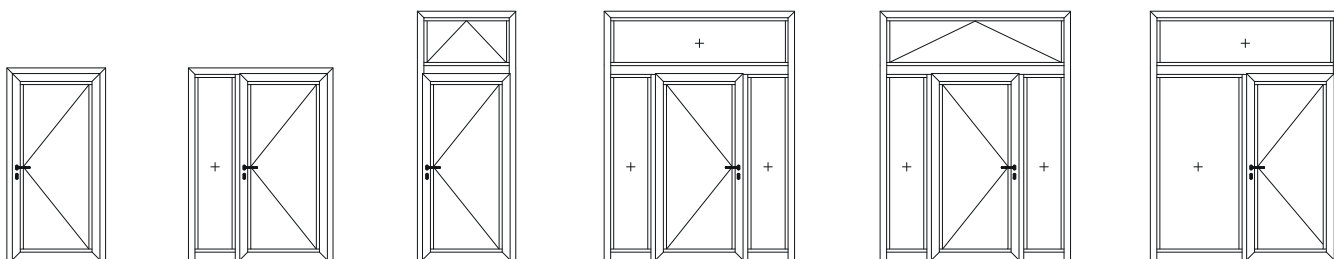


One-sided casement enclosing, reversible

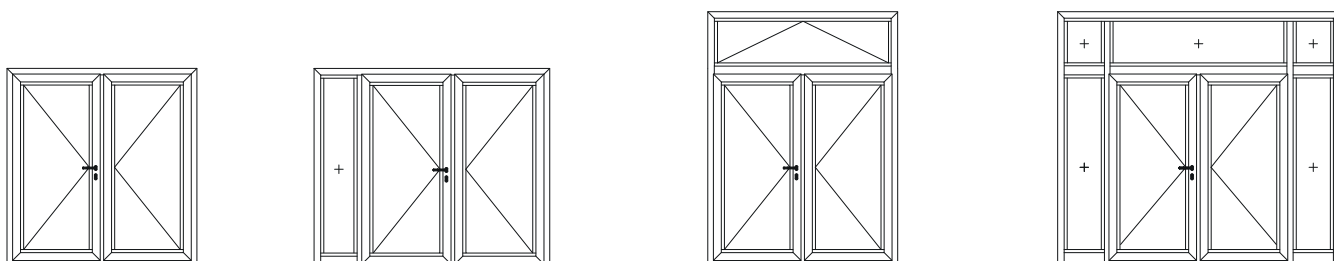
heroal D 72

Types of front door openings

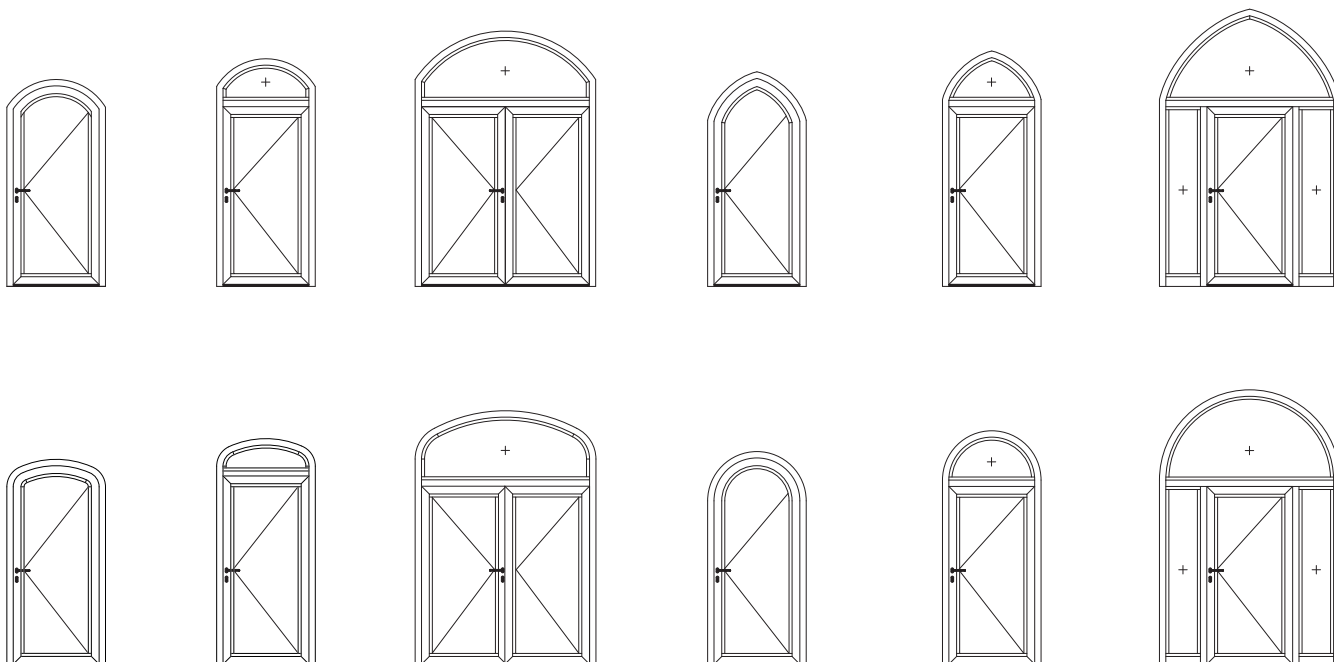
Single-casement elements with side section and fanlights



Double-casement elements with side section and fanlights



Single- and double-casement form elements



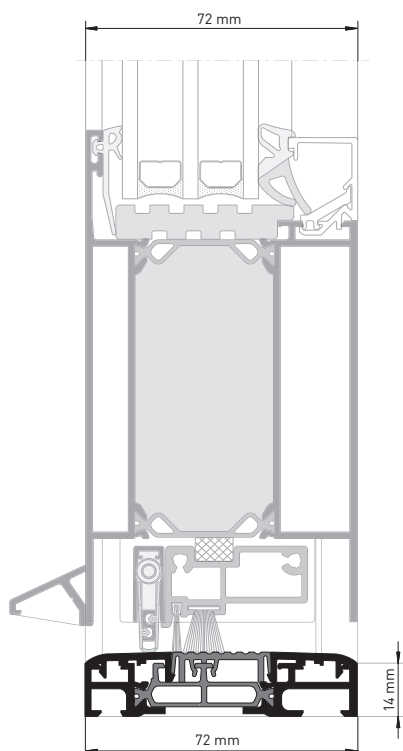
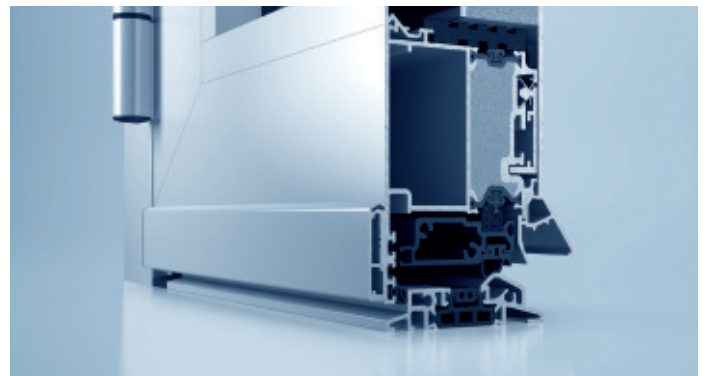


bheroal threshold solutions

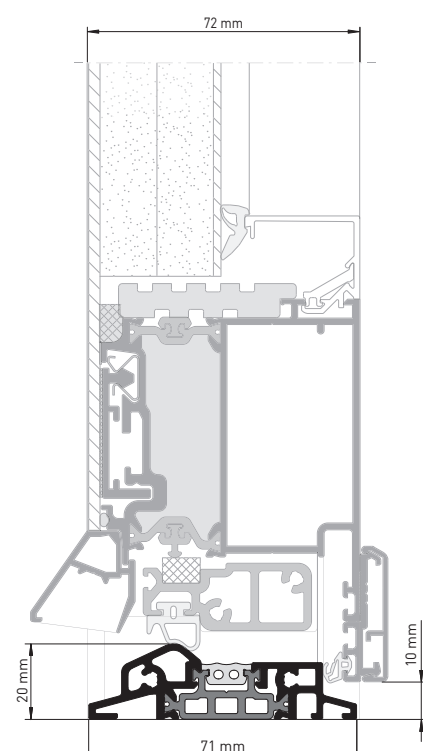
bheroal D 72 threshold layouts for all requirements and example applications

Perfection lies in the detail. The universally suitable bheroal threshold solutions for front doors can be used regardless of the type of opening, inward or outward opening, with framed case-ment frames or base profile. A comprehensive product portfolio of basic and attachment profiles also enables problem-free integration into the building in new builds and renovations. The newly developed, flexible bheroal HT flat threshold with continuous threshold design enables the implementation of accessible threshold solutions in accordance with DIN 18040-2. One

possible design is the accessible threshold and the 0-barrier, that is eligible for KfW support, with an integrated bheroal drainage system. The lowerable floor seal in combination with the option of one or two brush seals guarantees optimal tightness. The fixed threshold with two sealing levels is a key feature of classic front door solutions for single- and multi-part elements.



HT flat threshold with lowerable floor seal



HT threshold with stop seal

heroal D 72

Manufacturing technology

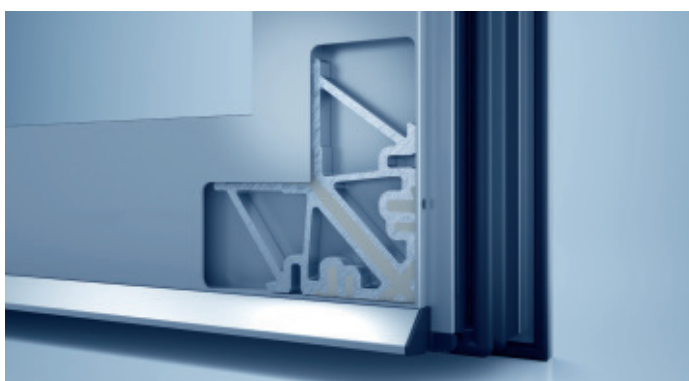


Sustainable and innovative reversible infill panel attachment

With its heroal D 72 door system, heroal is providing an innovative infill panel attachment for aluminium materials.

This variant offers the possibility of fixing the prefabricated infill panel in the casement by means of joints.

As a result, it has been possible to harmonise the typically opposing features of proven security and the customary convenience. Due to the different possibilities provided by the heroal infill panel attachments, maximum casement leaf sizes can be manufactured. Processors are offered many benefits as the heroal D 72 door system can be extended thanks to a profile design for this type of infill panel attachment. Easy installation even at the construction site, reversibility for design modifications and the time-saving processing of the entire system are just a few aspects of the new design.



heroal corner angle technology

The innovative heroal sealant injection method guarantees an optimum seal for the element mitre with less material, with a complete four-sided sealant coating for the corner cleating set. Door production is guaranteed to be efficient and therefore time-saving thanks to the heroal corner cleating set technology with the optimised manufacturing processes for corner angle fitting. The optimal, guided sealant distribution along with the innovative corner angle technology enable considerable material savings. There are special heroal tool solutions, adapted to a variety of production batch sizes for efficient and cost-effective unit assembly.



heroal T-connector technology

Optimised and thus time-saving door assemblies are made possible by the heroal T-connector technology. The new and innovative heroal sealant injection has been developed for the best possible sealing of T-connections/joints. It ensures a high level of system reliability as a result of closed-cell sponge piping for rebate sealing. The innovative sealant injection provides the best possible sealing of T-connections/joints with just a small amount of sealant.

heroal fitting technology



In addition to thermal insulation, functionality and security are important performance features for door systems. While a window has an operating life of 10 to 25 years, a house and/or entrance door remains in the building for significantly longer. Therefore, flexible, adaptable usability and the appearance of front doors are of particular importance.

The heroal DF fitting technology guarantees the highest level of flexibility and follows the universal design approach, which can be individually tailored to the requirements of the user at any time and furthermore is distinguished by intuitive handling and user-friendliness. The heroal door fittings are compatible with the latest technologies such as keyless entry and Bluetooth, which also increase ease of use.

The program is rounded off with visually appealing and high-quality hinge fitting technology. Rollers and supported hinge variants as well as the option of a concealed hinge variant made of aluminium and high-grade steel are suitable for door casement weights up to 250 kg.

Accessibly designed door sills, some fitted with integrated height adjustment, can be used in all heroal door systems. They ease accessibility and increase the standard of living in everyday use.

Tested heroal door variants fulfil the requirements of burglar protection up to resistance class RC 3.

heroal compound technology



Thanks to three innovative production stages, the heroal D 72 door system offers effective protection against the bi-metal effect. This is when large temperature differences between the interior and exterior cause deformations on the casement frame.

Step 1: The patented, warp-resistant profile compound from heroal is used to help avoid the huge influence that the difference in temperature can have on the function and appearance of the door elements. It protects the profile against the damaging shear forces. This compound consists of a tightly rolled thermal break and a slide-in spring.

Step 2: First the HT casement frame is cut, milled and drilled. Before the casement is pressed or nailed, the slide-in springs are removed from the casement profiles. The thermal break is then split into sub-areas of the casement profile using a specially developed tool.

Step 3: The slide-in springs are inserted again. The profile compound remains partially intact, and potential shear forces cannot be applied to the multi-point locking or the closing cylinder. In the event of transversal shear pull forces in the area where the compound has been separated, for example during a break-in attempt, the slide-in spring allows the profile to behave like a profile with a conventional compound.



System dimensions and system properties: Comparison tables

System dimensions

Description		heroal D 72	heroal D 72 RL	heroal D 72 CL
Profile installation depth [mm]	Frame profiles	72	82	82
	Casement profiles	72 – 82	82	82
	Cross bar profiles	72	72 – 82	72 – 82
Profile view width [mm]	Frame profiles	50 – 250	60 – 154	60 – 154
	Casement profiles	70 – 124	70 – 124	70 – 124
	Cross bar profiles	74 – 254	74 – 94	74 – 94
Max. thickness of glass/infill panel [mm]	Frame profiles	54	54	54
	Casement profiles	68/72	68/72	68/72
	Cross bar profiles	54	54	54
Max. casement weights [kg]		180	180	180
Max. casement leaf widths [mm]		1400	1400	1400
Max. casement leaf heights:		2500	2500	2500

System properties

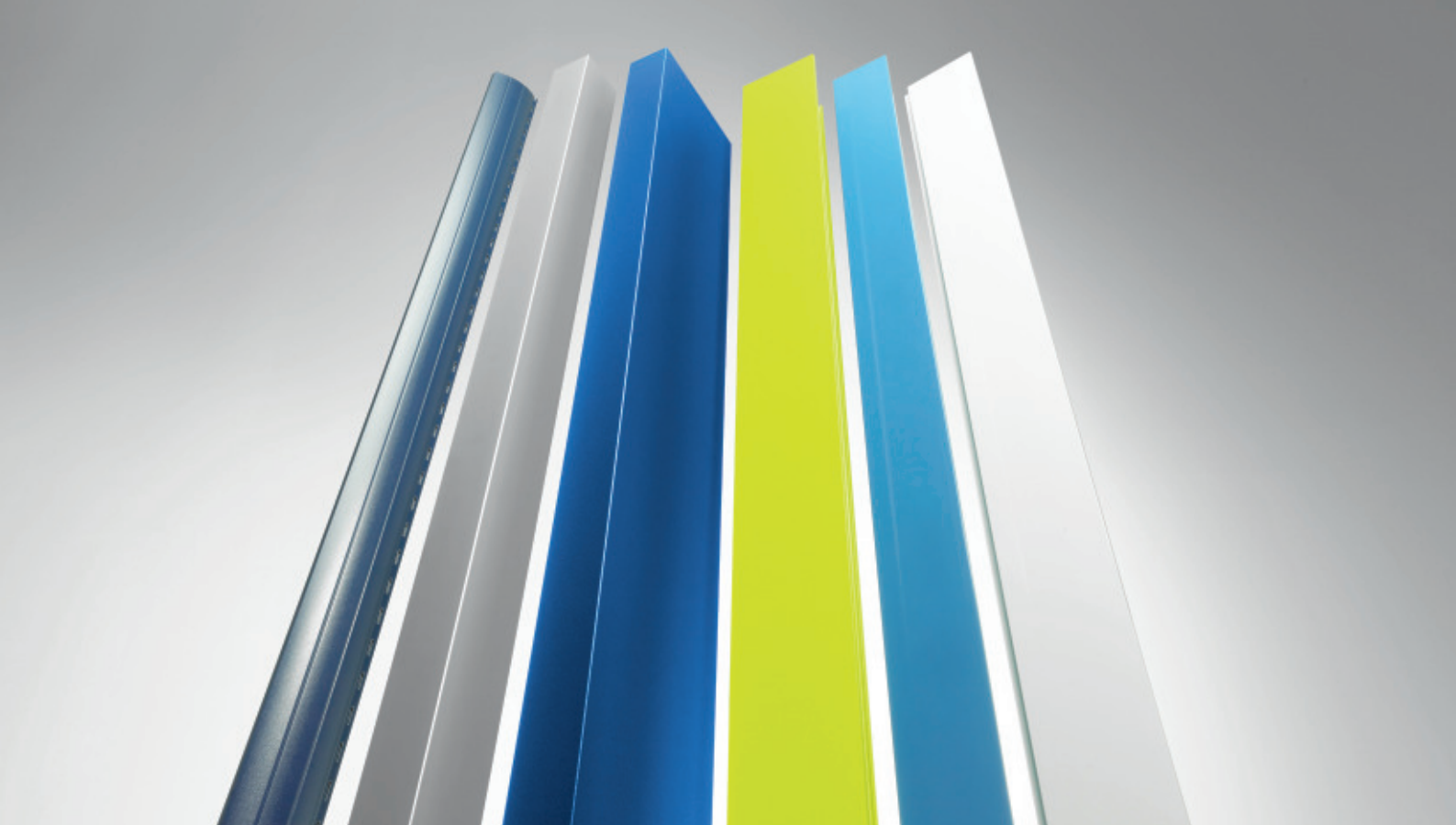
Description	heroal D 72	heroal D 72 RL	heroal D 72 CL
Heat insulation (U_f in W/m^2K)	1.7	1.7	1.7
Heat insulation (U_o in W/m^2K)*	≥ 1.0	≥ 1.0	≥ 1.0
Air permeability	4	4	4
Tightness against driving rain	5A	4A	4A
Wind load resistance	C4	C3	C3
Soundproofing class (SSK)	1-3	1-3	1-3
Burglary resistance (WK/RC)	RC 3	RC 3	RC 3
Operating forces	2	2	2
Shock resistance**	4	4	4
Mechanical durability	3	4	4
Continuous function	6/8	6	6
Climate difference test	2	–	–

* U_o value according to DIN EN 10077-1, calculated based on element size 1230 x 2180 mm

** Outward opening door elements, class 3

Opening types/door element design

Description	heroal D 72	heroal D 72 RL	heroal D 72 CL
Barrier-free elements	•	•	•
Façade insert elements	•	•	•
System-compatible heroal window system	heroal W 72	heroal W 72 RL	heroal W 72 CL
Emergency exit doors according to NE 179/1125 with CE certificate	•	–	–



heroal surfaces

Surface finishing is an integral part of heroal system components. heroal offers optimally matched systems for windows, doors, façades, as well as roller shutters, roller doors and sun protection.

With our heroal hwr powder coating, we rely on quality from our own coating plants. The award as the official GSB Premium coater and the Qualicoat quality seal underline the quality leadership! Apart from the powder coating, heroal also offers its customers Eloxal surfaces and laminations. A twin-coat thick coating is used in the roller shutter field in particular. heroal delivers its entire product portfolio directly ex-works, thus ensuring the shortest delivery times for its partners.

Our service is consistently geared to your needs

Alongside its extensive system portfolio with perfectly coordinated products, heroal also provides a service that is unique and the most efficient in the sector – founded on a consistent focus on customers' requirements, wishes and needs. The basis of heroal service – alongside the trained team of employees – is the in-house, energy-efficient production, made in Germany with an unparalleled manufacturing range and process reliability, which ensures optimum product quality for sustainable, cost-effective and value-enhancing construction for processors, architects and constructors. This is also ensured by the new heroal logistics centre, covering an area of around 40,000 m², and the company truck fleet. The heroal service portfolio is rounded off by the testing centre for roller shutters, roller doors, sun protection, windows, doors and façades, which is certified by ift Rosenheim and can also be used by customers, as well as by the efficient, in-house profile bending and edging service: heroal is the only systems supplier in the sector to offer such a service to its customers.

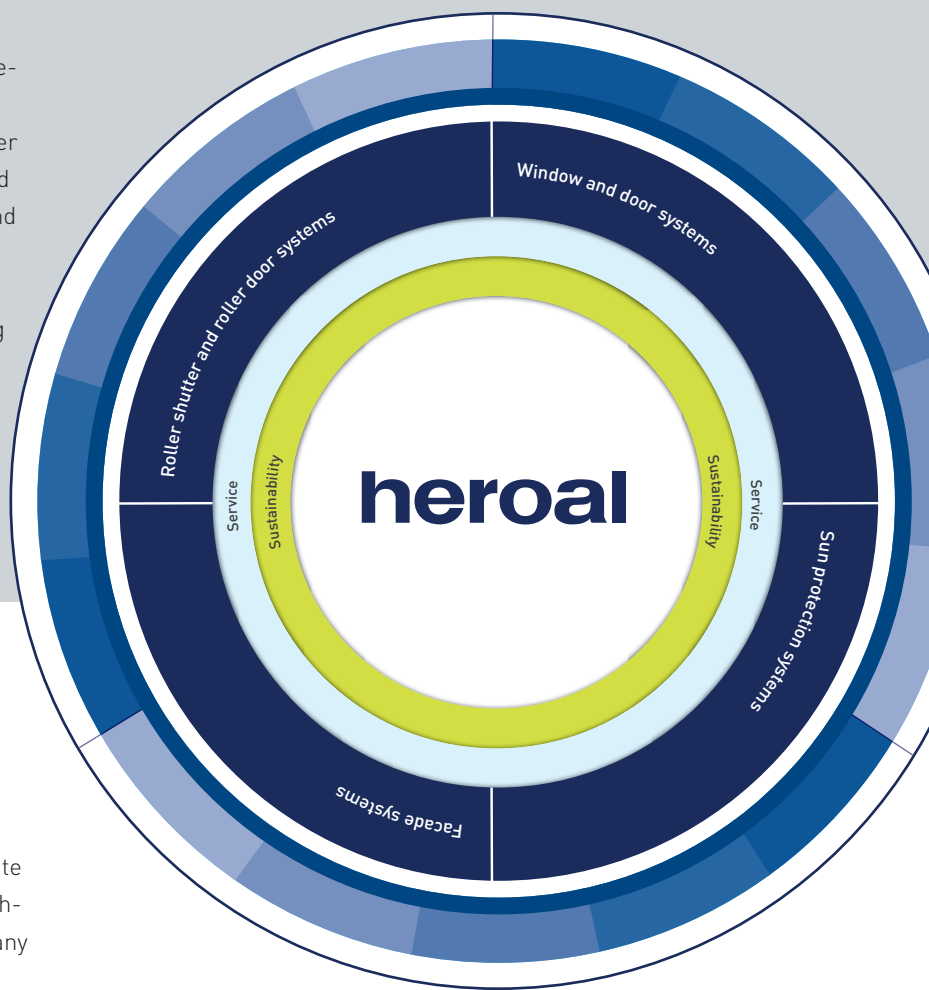


heroal – the aluminium systems supplier

As one of the leading aluminium systems suppliers, heroal develops and produces perfectly coordinated systems for windows, doors, façades, roller shutters, roller doors and sun protection, complemented by louvre and sliding shutters, insect protection and terrace roofs and carports. By minimising energy consumption during production, maximising energy conservation during usage as well as ensuring optimum profitability during system manufacturing and an increase in the value of the building, heroal system solutions make a significant contribution to sustainable construction.

Innovation, service, design, sustainability

The heroal brand represents system solutions that unite practical innovations, industry-leading service and high-quality design that can be sustainably integrated into any architecture.



Roller shutters | Roller doors | Sun protection | Windows | Doors | Façades | Service

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