

heroyal IB Unique

Insulation box system



Insulation box system

The efficient system technology from heroal sets itself apart with first-class materials, technical perfection in all details and a wide variety of design options. These are impressive advantages. heroal has been a reliable partner for architects, developers and fabricators for decades, with innovative solutions made of aluminium and aluminium composites for building shells.

Planners value the variety of possible designs, developers can realise their individual wishes with a reliable system and our partners benefit from economical, efficient heroal system solutions.

The heroal IB Unique insulation box system is unique in function, processing and logistics thanks to its Super Z folding installation technology: It combines the best insulation values with fast and simple installation and space-optimised, secure transport. With these properties, the insulation box system slots perfectly into the heroal product range.





heroal IB Unique

Page 04

The Super-Z insulation material assembly

Advantages of the heroal system

Page 05

Unique function, processing and logistics

Designoptions

Page 06

Flexible and high performance in every way

Versions and accessories

Page 10

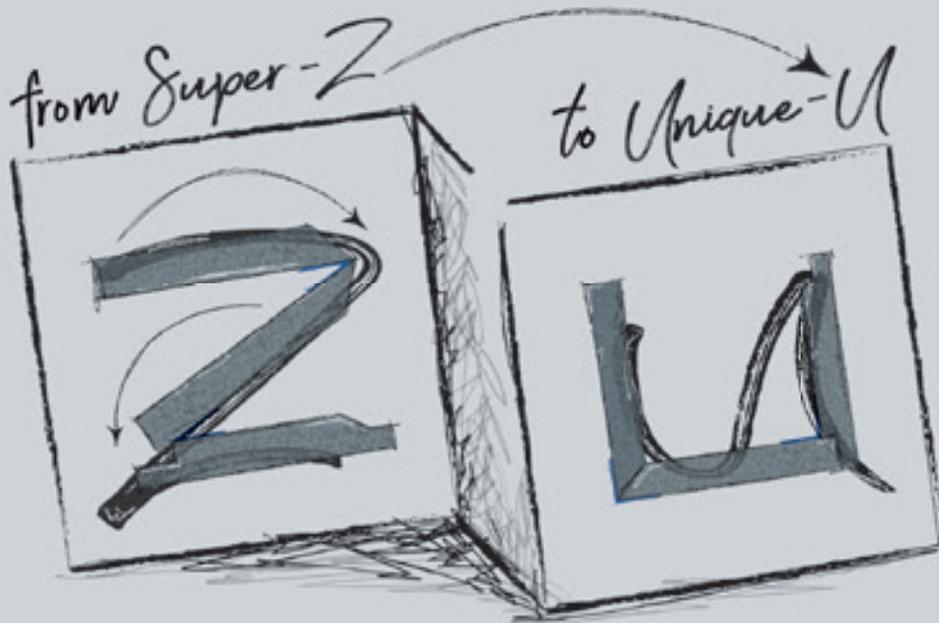
System measurements and system properties

Page 14

Service

Page 15

Super Z-Folding Installation Technology



heroal IB Unique

The Super-Z insulation material assembly

heroal already fulfils the insulation requirements of tomorrow – the insulation box system heroal IB Unique is therefore setting the benchmark. The insulation material assembly Super-Z forms the core of this system; it is available in various versions.

The pre-fabricated assemblies are available with different box sizes and material combinations and also offer a range of extras and expansion options. This allows the desired insulation values to be achieved in a wide range of application cases.

Tear-resistant and particularly strong adhesive tape creates a firm connection between the insulation profiles and ensures a wind-tight seal. The tape also acts as a hinge to open up the insulation material assemblies: just one step from Super-Z to Unique-U.

Roller shutter builders and suppliers of ready-made shutters can easily cut the insulation material assemblies to size using simple tools or a hot wire. Elements can be accurately processed. Remnants can also be used for this purpose - this not only minimises waste, but also improves the sustainability balance.

The advantages of the heroal system

Unique function, processing and logistics

heroal IB Unique achieves the best insulation values in efficient and low energy houses above and beyond the passive house standard. As part of the various performance classes, even the basic box achieves very good insulation values which are further improved with additional measures.

Fabricators also benefit from the simple, fast and safe installation. The insulation box system can be integrated into a number of wall structures, can be installed in all standard window and door systems and enables various shading systems to be used – from the classic roller shutter with integrated insect protection to the modern sun screen.

When it comes to logistics, too, there is nothing left to be desired. The unique Super-Z folding installation technology not only optimises space and makes safe transportation possible, the compact design of the Super-Z assembly also reduces the storage space required.

The insulation box system therefore combines various advantages which benefit planners, processors, installers and end customers. heroal IB Unique – **SIMPLY BETTER. INSULATED.**



Logistics

- » Space-optimised and secure transport
- » Space-saving and stable storage



Processing

- » Easy, fast and safe to install
- » Can be used in a variety of wall structures
- » Can be installed in numerous window and door systems
- » A variety of shading systems can be integrated



Function

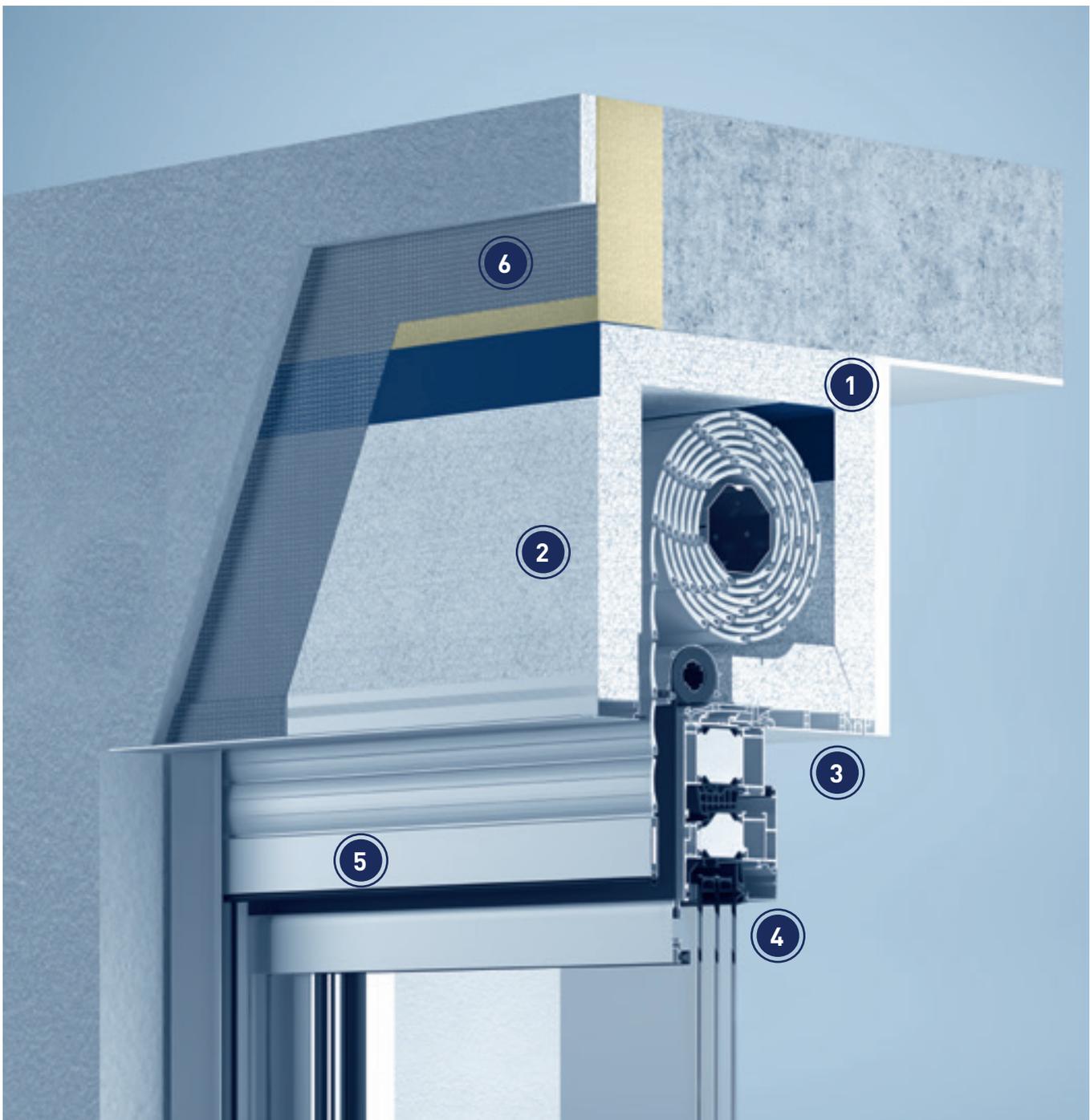
- » Flexible platform
- » Best insulation values
- » Suitable above and beyond the passive house standard

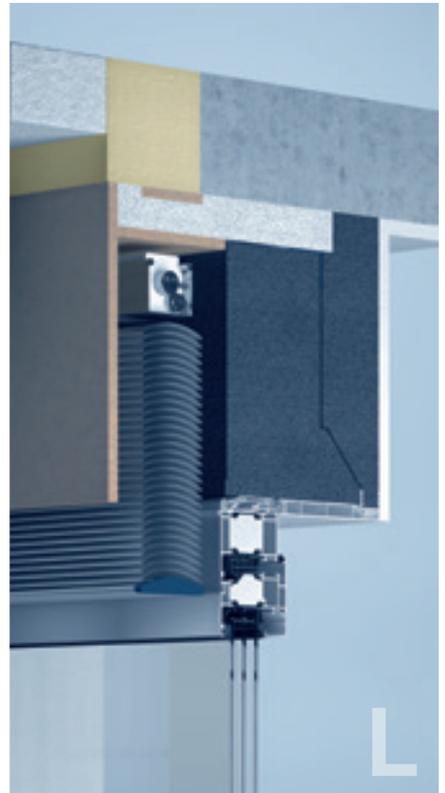
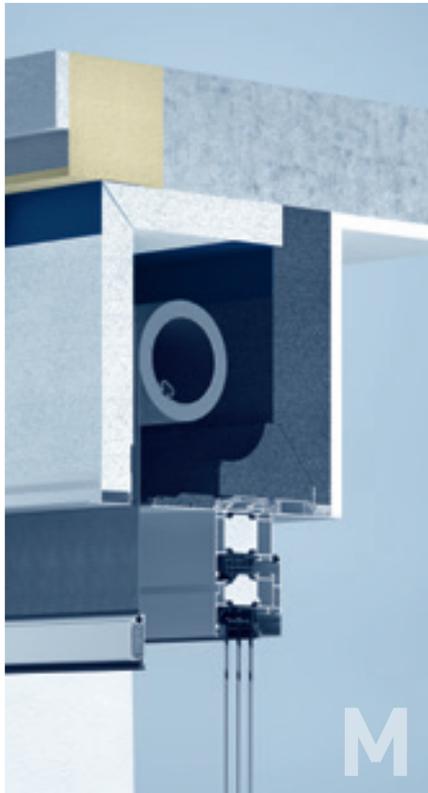
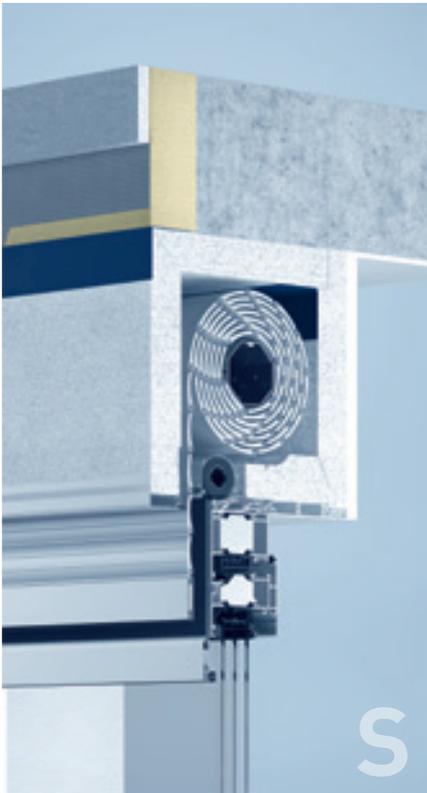
The design options

Flexible and high performance in every way

No matter if it's about the application options, the performance classes or the system compatibility, heroal IB Unique flexibly fulfils the requirements and wishes.

The various box sizes, versions and shading systems give planners and processors plenty of design scope.





1

The sizes

heroal IB Unique is available in three standard sizes (details given in height x depth):

- » Size S: 265 x 265 mm
- » Size M: 300 x 305 mm
- » Size L: 300 x 365 mm

Additional sizes are possible using a false edge in height and depth. The insulation box's interior offers space for wound systems up to a barrel diameter of 218 mm and for Venetian blind systems up to a package height of 238 mm.

2

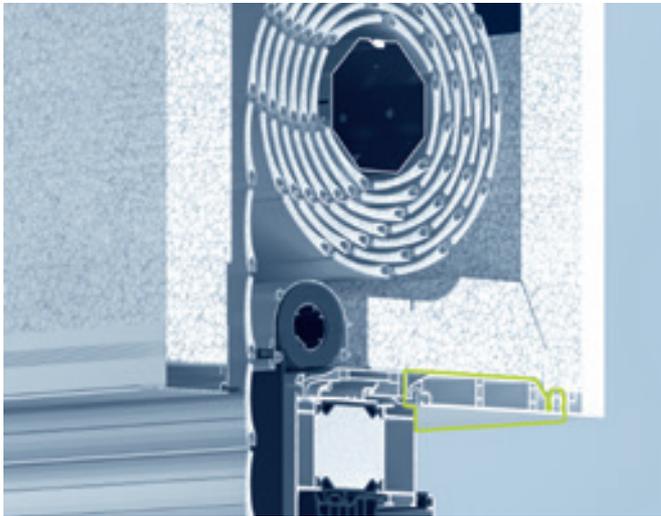
The performance classes

The insulating material is crucial when it comes to performance classes. Styrofoam or a sophisticated Styrofoam-Neopor material combination ensure optimum insulation values for heroal IB Unique. U_{sb} values up to 0.41 W/m²K are achieved, which can be further improved in the platform using additional modules.

The following versions are available:

- » U: boxes made of 100% EPS 035 = Styrofoam
- » U DLX: boxes made of EPS 035 + 032 = Styrofoam + Neopor

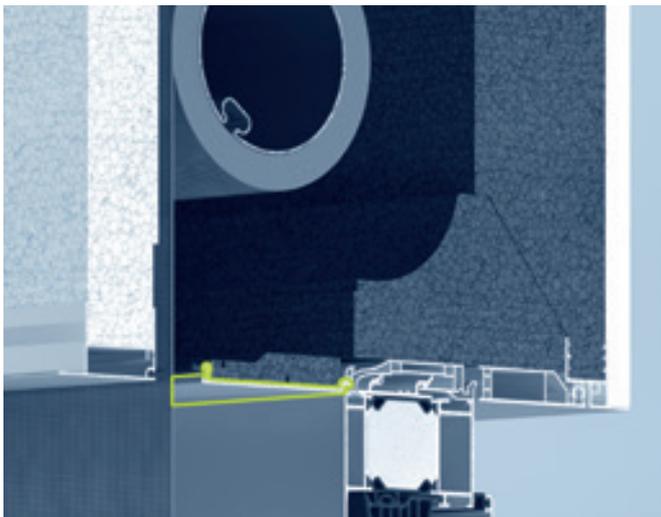
With fire protection class B1, they also fulfil the requirements of flame-retardant material.



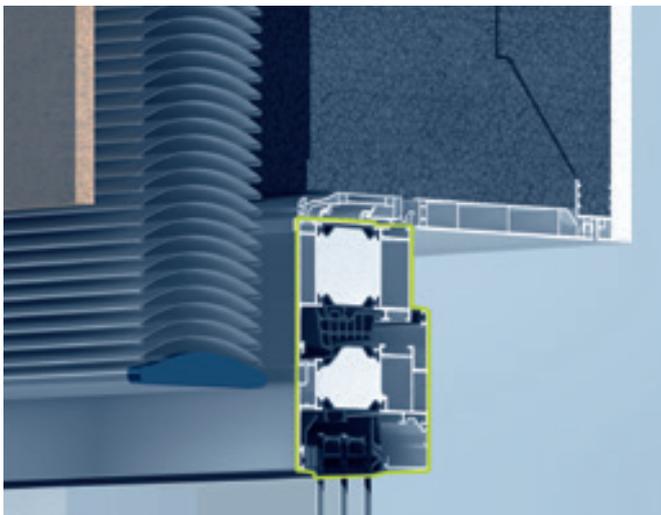
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The types of revision

The interior revision made of plastic is installed without the need for tools. The inspection panel can be clipped and swivelled, making it particularly maintenance-friendly.



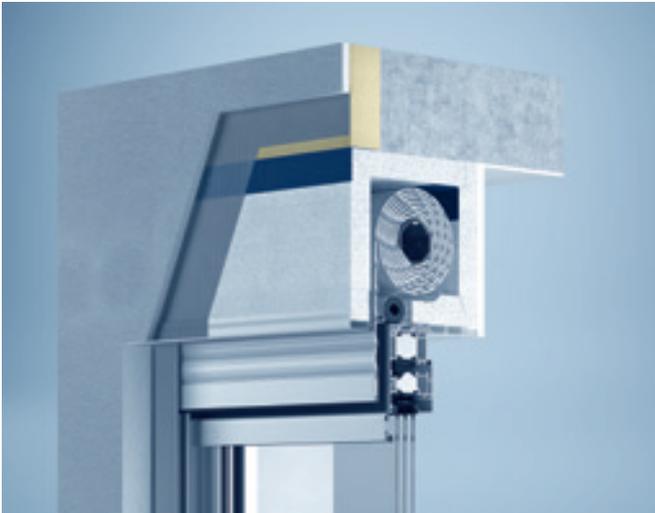
The outer revision made of aluminium is securely screwed and has additional insulation. It gives particularly good sound and heat insulation. The heroal hwr powder coating of the aluminium profile achieves the optimal weather resistance at this point.



4

The window and door systems

The insulation box system can be installed on all standard window and door systems with installation depths of 65 to 92 mm. Special applications, such as lifting-sliding systems are also covered. heroal IB Unique enables a range of universal and specific adaptations. Reinforcer and static consoles increase the stability and load transference for large elements.



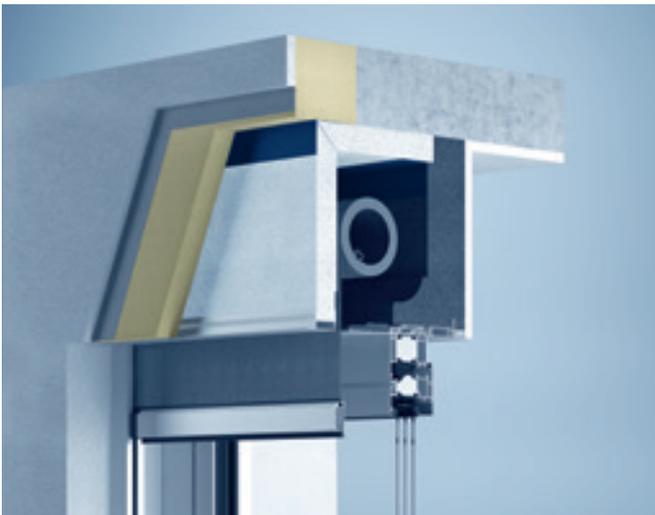
Roller shutter with insect screen in the plaster

5

The shading systems

heroal IB also offers a wide range of options for shading.

- » Roller shutters with mini and standard slats combined with insect screen
- » Textile sun protection
- » Venetian blinds combined with insect screen



Textile sun protection in a thermal insulation composite system

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The structural attachments

The insulation box system heroal IB Unique can be quickly and easily installed into the various structural attachments – no matter whether in the plaster in monolithic version, in the thermal insulation composite system or in cladding such as brickwork.



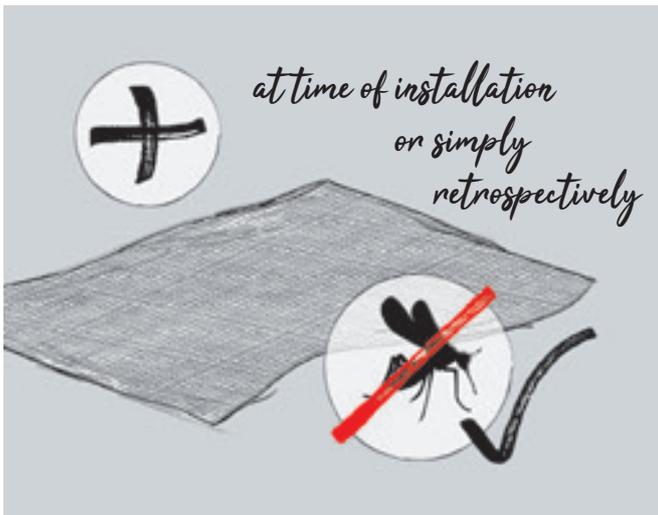
Venetian blinds in brickwork

Variants and accessories



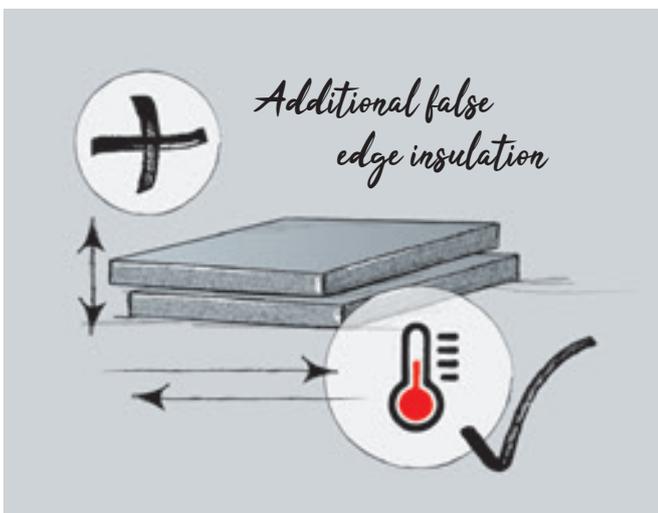
Removal of joint and wind loads

It can be necessary to use strengthening profiles and static consoles for wide elements to remove joint and wind loads. The precise element size, the required wind resistance class, the window or door system used and the integrated shading system are the crucial parameters on which the additional statics measures depend.



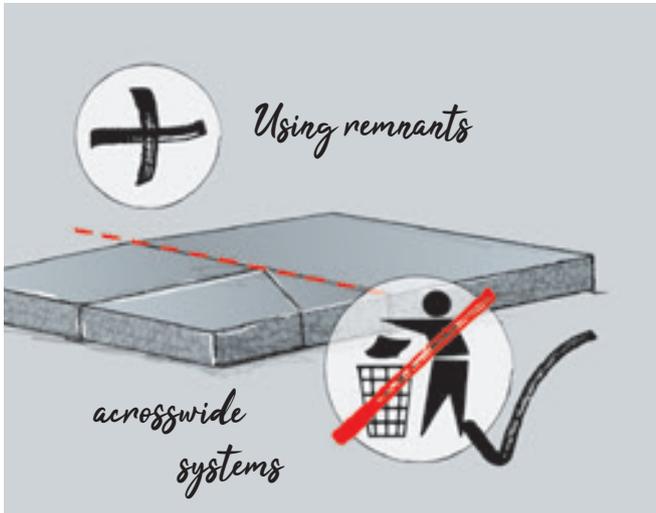
Integrated and retrofitted insect screens

The insect screen can be installed directly during installation of the insulation box, meaning that it is installed with the roller shutter or Venetian blind system, saving space and material. However, retrospective integration is also possible – without the need for adapting basic components such as head ends and guide entries.



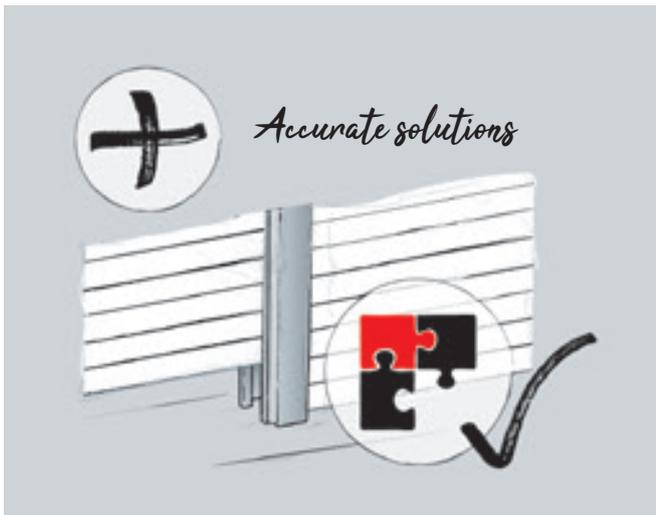
Maximising heat insulation

In order to achieve maximum heat insulation, the basic box can be given a false edge in the height and depth. In specified wall thicknesses, the installation can also be planned accordingly – head end insulation is also an option. With an additional insulating mat which is placed inside the box, heroal IB Unique achieves industry-leading insulation values.



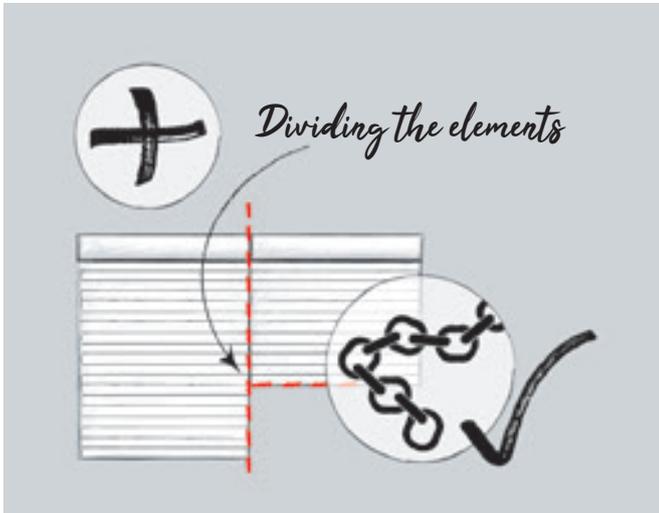
Joint connection of wide elements and remnants

For the sake of sustainability, left-over remnants, which would otherwise be disposed of, may also be used. These are particularly good for use in excess width situations, such as large sliding systems, to extend the system goods.



Guide rails

heroal presents a wide range of guide rails. In addition to the integrated insect screen, the design variants offer accurate solutions for various installation types. For example, screwed, clipped on, engaged or plastered installation are all possible.



Coupling systems

For wide window and door combinations, such as bracket systems, it can be necessary to have a separation of elements. heroal IB Unique provides this option and also a combination of different heroal systems such as the use of a divided insect screen.



Optimisation of noise insulation

Even the basic box of the heroal IB Unique exhibits good noise insulation values. If the interior of the insulation box is lined with a special soundproofing film, then the system will achieve an exceptionally high noise insulation level.



System dimensions and system properties

Size	S		M		L	
Dimensions (H x D in mm)	265 x 265		300 x 305		300 x 365	
max. barrel diameter/package height	192 / 204		205 / 238		218 / 238	
Material	Standard (U)	Deluxe (U DLX)	Standard (U)	Deluxe (U DLX)	Standard (U)	Deluxe (U DLX)
U _{sb} value	0.58	0.56	0.43	0.39	0.53	0.50
Psi value	0.10	0.10	0.08	0.07	0.12	0.11
Frsi value	0.77	0.77	0.77	0.77	0.75	0.75
Interior revision	•	•	•	•	•	•
Exterior revision	•	•	•	•	•	•
Interior revision can be clipped and swivelled	•	•	•	•	•	•
Roller shutters can be integrated	•	•	•	•	•	•
Venetian blinds can be integrated	•	•	•	•	•	•
Sun protection can be integrated	•	•	•	•	•	•
Insect screen can be integrated/retrofitted	•	•	•	•	•	•
Plaster/EIFS version	•	•	•	•	•	•
Brick version	•	•	•	•	•	•
False edge option	•	•	•	•	•	•
Static console can be installed	•	•	•	•	•	•
Option of remnant connection	•	•	•	•	•	•



heroal surfaces

Surface finishing is an integral part of heroal system components. heroal offers optimally coordinated systems for roller shutters, sun protection, roller doors, windows, doors and curtain walls. hwr powder coating from heroal offers quality finishing from in-house coating facilities. As attested by the Qualicoat seal and the company's designation as an official GSB Premium Coater, heroal leads the way in quality! In addition to powder coating, heroal also offers customers Eloxal surfaces and decorative laminates. Two-layer thick coatings from heroal are especially popular for roller shutters and roller doors. heroal delivers its entire product portfolio directly ex-works and is therefore able to guarantee its partners the shortest possible delivery times.

Our service consistently aims to fulfil your requests

In addition to a comprehensive system portfolio with perfectly coordinated products, heroal also offers the most unique and effective service in the industry, based on a consistent focus on the requirements, requests and needs of the customer. The basis for heroal service, apart from trained employees, is the company's in-house, energy-efficient, 'made in Germany' production, characterised by unparalleled vertical integration and process security. This guarantees that fabricators, architects and developers obtain products of the highest quality for sustainable, economical and value-enhancing construction. Another crucial factor is the heroal logistics centre, with an area of approximately 40,000 m² and its own fleet of trucks. And heroal's service portfolio is further enhanced by a test-centre for roller shutters, sun protection, roller doors, windows, doors and curtain walls, which is also available for customer use and includes a test stand certified by ift Rosenheim for air, water and wind – and this in addition to the company's own highly efficient service for bending and edging profiles: something no other systems supplier in the industry offers its customers from its own production facilities.

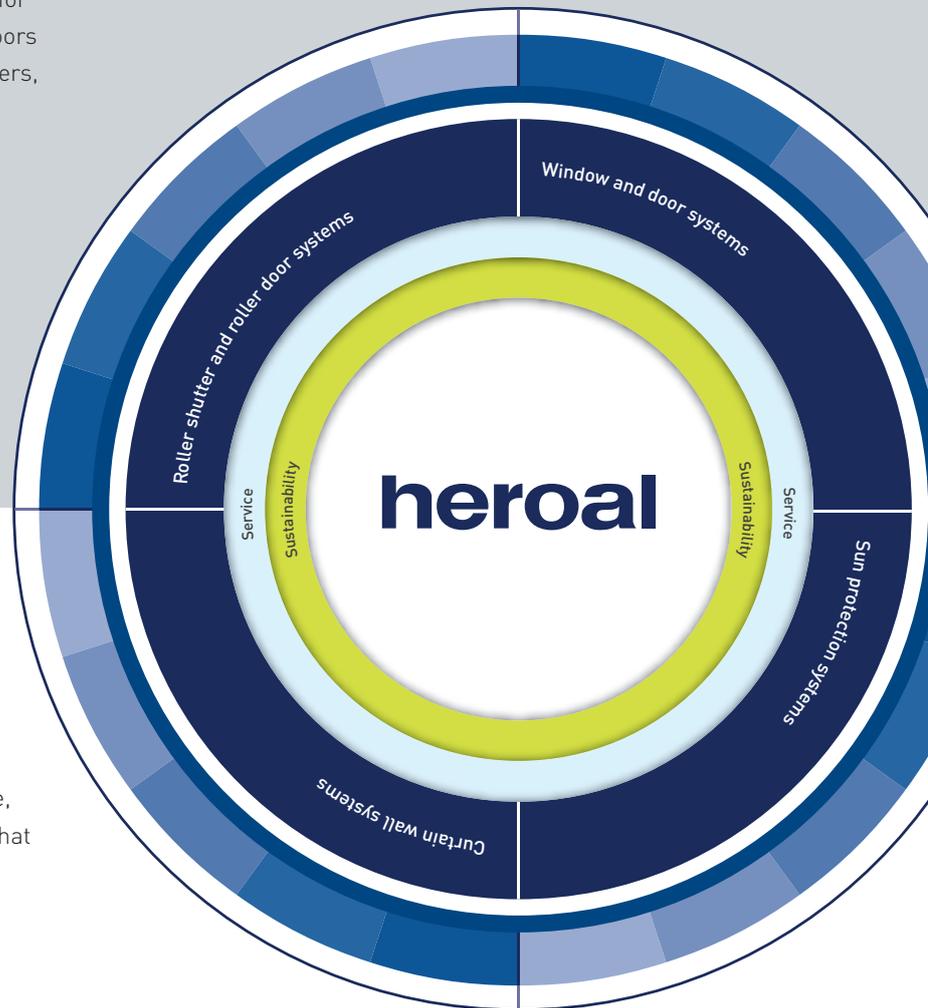


heroal – the aluminium systems supplier

As one of the leading aluminium system suppliers, heroal develops and produces optimally coordinated systems for windows, doors, curtain walls, roller shutters, roller doors and sun protection, as well as folding and sliding shutters, insect screens, terrace roofs and carports. Thanks to minimum energy consumption in manufacturing and maximum energy conservation while in use, heroal system solutions make a decisive contribution towards sustainable building, while also offering highly economical processing and increasing the value of buildings.

Innovation, service, design, sustainability

The heroal brand stands for system solutions that combine practical innovations, industry-leading service, comprehensive sustainability and high-quality design that can be integrated into any architectural concept.



Roller shutters | Sun protection | Roller doors | Windows | Doors | Curtain walls | Service

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