heroal rs hybrid
Innovative Sun Protection
Future-Oriented Sun Protection Technology

First-class materials, technical perfection down to the last detail and a vast range of design options all make the efficient system technology from heroal a cut above the rest. The advantages of heroal’s products are evident. For decades now, heroal has been a reliable partner to architects, builders and processors with its innovative solutions for cladding made from aluminium and aluminium composite materials.

Architects appreciate the wide variety of design options, builders can realise their individual ideas with a reliable system and our partners profit from economical and efficient heroal system solutions.

heroal rs hybrid combines in a unique way the system advantages of the roller shutter with sun protection. For completely darkening rooms, it offers the visual effect of textile sun protection, in addition to the virtually noiseless running of a vertical awning, and the reliability and wind load resistance of an aluminium roller shutter.

The multitude of advantages offered by the heroal rs hybrid mean that processors are able to access more business fields. The small winding diameter facilitates assembly in small scale front mounted panel systems and space saving integration into the external thermal insulation composite systems (ETICS) – using the special insulation box variant which also meets passive house standards. Quiet running and excellent sound absorption make the heroal rs hybrid especially suitable for use in noise sensitive areas. Here, hotels, hospitals, nursing facilities and administrative buildings offer new revenue potential for heroal partners.
heroal rs hybrid in passive house insulation box

Highly insulated for system-optimised energy efficiency

The heroal attachment box made of insulating material is the ideal solution for installation in the external thermal insulation composite systems (ETICS) of passive houses. The insulation box with a guide thermally separated from the window system achieves, at an insulating thickness of only 300 mm (variable) an excellent \( U_{\text{b}} \) value of up to 0.157 W/(m\(^2\)K) according to DIN 4108-2, and can be completely integrated into the external thermal insulation composite systems (ETICS) of a passive house. The 80 mm inspection opening on the outside allows for easy system maintenance.

The highly insulated system solution, heroal rs hybrid in the insulation box for passive houses, also offers optimised, energy efficient solutions for façade restorations meeting the highest requirements of residential and property construction.

System dimensions and system properties

» Maximum width / height 2,500 mm / 2,400 mm
» Maximum area: 6 m\(^2\)
» Minimum insulating thickness: 300 mm
» Isothermal characteristics of the structure, window and insulation are barely impacted
» Guide thermally separated from the window system
» \( U_{\text{b}} \) value up to 0.157 W/(m\(^2\)K) according to DIN 4108-2
» Textile and insulation box: fire protection class B1
» Meets soundproof class 4 with 42 dB according to ISO 10140-2
» Highly insulated for system-optimised energy efficiency
» Can be completely integrated into the external thermal insulation composite systems (ETICS) of passive houses

Design and variants

» Adjustable to every wall thickness
» Withstands outside influences for long periods, even when unplastered
» Maintenance friendly 80 mm inspection opening on the outside

Cross section: heroal rs hybrid in insulation box for passive houses
This insulation box system can be used with a minimum insulation thickness of 100 mm. At the same time the system provides the option of responding to greater insulating depths. The attachment insulation box can be entirely integrated into the external thermal insulation composite systems (ETICS), and has a maintenance friendly 80 mm inspection opening on the outside.

Thanks to the Uₜₐ value of up to 0.235 W/(m²K) according to DIN 4108-2, and the guide being thermally separated from the window system, heroal rs hybrid in the attachment insulation box offers energy saving solutions for private building contractors as well as for the most varied requirements in the construction of buildings and residential property.

**System dimensions and system properties**

- Maximum width / height: 2,500 mm / 2,400 mm
- Maximum area: 6 m²
- Minimum insulating thickness: 100 mm
- Isothermal characteristics of the structure, window and insulation are barely impacted
- Uₜₐ value up to 0.235 W/(m²K) according to DIN 4108-2
- Guide thermally separated from the window system
- Textile and insulation box: fire protection class B1
- Meets soundproof class 4 with 42 dB according to ISO 10140-2
- Completely integrated into the external thermal insulation composite systems (ETICS)

**Design and variants**

- Adjustable to every wall thickness
- Withstands outside influences for long periods, even when unplastered
- Maintenance friendly 80 mm inspection opening on the outside

Cross section: heroal rs hybrid in attachment insulation box
The box system made from insulating material, specially designed for renovation, guarantees perfect RAL-compliant assembly in combination with windows that are installed in the insulating zone. With its minimum insulation thickness of 250 mm (variable), the heroal insulation box can be completely integrated into the external thermal insulation composite systems (ETICS). The 100 mm inspection opening on the outside allows for simple and convenient system maintenance.

Thanks to the guide being thermally separated from the window system and a $U_{\text{wb}}$ value of up to 0.289 W/(m²K) according to DIN 4108-2, the heroal rs hybrid in the renovation insulation box offers energy efficient solutions for different requirements in the construction of buildings and residential properties.

**System dimensions and system properties**
- Maximum width / height: 2,500 mm / 2,400 mm
- Maximum area: 6 m²
- Minimum insulation thickness of 250 mm
- $U_{\text{wb}}$ value up to 0.289 W/(m²K) according to DIN 4108-2
- Guide thermally separated from the window system
- Textile and insulation box: fire protection class B1
- Meets soundproof class 4 with 45 dB according to ISO 10140-2
- Can be completely integrated into the external thermal insulation composite systems (ETICS)
- Isothermal characteristics of the structure, window and insulation are barely impacted

**Design and variants**
- Box system made from insulating material for RAL-compliant assembly
- Withstands outside influences for long periods, even when unplastered
- Simple maintenance through 100 mm inspection opening on the outside
heroal rs hybrid in front mounted panel system - version I

The stable and secure porch box solution

The space-saving porch box allows optimum integration in almost every environment. The system is most suitable for installation in and on window reveal. Many of the same parts are used in production as in the existing systems. Even with large blinds the heroal blind system distinguishes itself through its particularly quiet operation. This simply requires installation of a sliding barrel system. The high-quality heroal hwr powder coating ensures that the systems have abrasion resistance and colour uniformity. As always, the porch box allows simple and convenient system maintenance.

System dimensions and system properties

» Maximum width / height: 2,400 mm / 2,700 mm
» Maximum area: 6 m²
» Box heights ranging from 125 to 150 mm
» May be installed in the window soffit
» Extremely weather resistant surfaces
» Wind-stable S-locking into guide rails

Design and variants

» High-quality, heroal highly weather resistant powder coating
» Inspection opening on the outside
» Wide spectrum of colours
» Optimum colour stability and gloss retention
» Box designs 45° and 90°
heroal rs hybrid in front mounted panel system – version II

Ideal solution for installation in the reveals of a window

Thanks to its high quality, heroal highly weather resistant powder coating, the heroal front mounted panel system made of extruded aluminium profiles has extremely weather resistant surfaces with optimum colour stability and retention of gloss. The spacesaving front mounted panel system – for a minimum height of just 100 mm – with special L-guide loop is ideally suited for fitting in the window soffit and has an inspection opening on the outside. As a result, the extruded heroal front mounted panel system with highly heroal weather resistant powder coating available in a variety of colours is the perfect system solution for retrofitting or renovation.

System dimensions and system properties
» Maximum width / height: 2,400 mm / 2,700 mm
» Maximum area: 6 m²
» Box heights ranging from 100 to 150 mm
» May be installed in the window soffit
» Extremely weather resistant surfaces
» Wind-stable S-locking into guide rails

Design and variants
» High-quality, heroal highly weather resistant powder coating
» Inspection opening on the outside
» Wide spectrum of colours
» Optimum colour stability and gloss retention
» Box designs 45° and 90°
heroal rs hybrid in flush mounted system FMB 90°
Perfectly maintains existing façade appearance

With its completely invisible integration into the external thermal insulation composite systems (ETICS), or the window soffit, the flush mounted system, FMB 90°, is the ideal solution for installing a heroal rs hybrid into an existing façade architecture without changing it visually. A large selection of plaster support profiles ensure safe installation into all exterior insulation and finishing systems. The special two-part guide rail guarantees simple and secure fitting into the window soffit. The minimum thickness of the outside insulation depends on the exact position of the window.

The flush mounted system manufactured from extruded aluminium profiles is extremely compact with a height of 125 mm. The inspection opening of 90 mm facilitates simple, convenient system maintenance.

**System dimensions and system properties**
- Maximum width / height: 2,400 mm / 1,900 mm
- Maximum area: 4.6 m²
- Box height of 125 mm
- Secure installation thanks to a large selection of plaster support profiles
- Two-part guide rails for secure assembly in the window soffit
- Wind-stable S-locking into guide rails
- Guide thermally separated
- The minimum thickness of the outside insulation depends on the exact position of the window
- Easy-to-assemble profiled retainer between window and guide rail
- Invisible integration into the external thermal insulation composite systems (ETICS) or the window soffit.

**Design and variants**
- High-quality, heroal highly weather resistant powder coating
- 90 mm inspection opening
# System dimensions and system properties

<table>
<thead>
<tr>
<th>Description</th>
<th>Insulation box</th>
<th>Front mounted box</th>
<th>Flush-mounted box</th>
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<tr>
<td><strong>Coverage width / nominal thickness slat [mm]</strong></td>
<td>38 / 7.5</td>
<td>38 / 7.5</td>
<td>38 / 7.5</td>
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<tr>
<td><strong>Weight finished curtain [kg / m²]</strong></td>
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<td>2.5</td>
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<td><strong>Number of slats per 1 m curtain [St.]</strong></td>
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<td><strong>Height / depth insulation box [mm]</strong></td>
<td>202 [140] / 250 [178]</td>
<td>202 / 250</td>
<td>302 / 300</td>
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<tr>
<td><strong>Box sizes [mm]</strong></td>
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<td>650 / 2,300</td>
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<tr>
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<td><strong>Max. area [m²]</strong></td>
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<tr>
<td><strong>Barrel diameter [mm]</strong></td>
<td>120</td>
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<td>125</td>
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<table>
<thead>
<tr>
<th>System dimensions</th>
<th>Renovation insulation box</th>
<th>Attachment insulation box</th>
<th>Passive house insulation box</th>
<th>Variante I - FME 45°/90°</th>
<th>Variante II - FME 45°/90°</th>
<th>FMB 90°</th>
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<tr>
<td><strong>Coverage width / nominal thickness slat [mm]</strong></td>
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<tr>
<td><strong>Height / depth insulation box [mm]</strong></td>
<td>202 [140] / 250 [178]</td>
<td>202 / 250</td>
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<td>650 / 2,300</td>
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<td>700 / 2,300</td>
<td>650 / 2,400</td>
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<td><strong>Max. element height [mm]</strong></td>
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<td></td>
<td>4</td>
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<td>0.18</td>
<td>B1</td>
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<td>39</td>
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### Curtain colour overview heroal rs hybrid

<table>
<thead>
<tr>
<th>Colour</th>
<th>heroal no.</th>
<th>Approx. RAL</th>
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<tbody>
<tr>
<td>traffic white</td>
<td>17/19</td>
<td>9016</td>
</tr>
<tr>
<td>grey</td>
<td>18</td>
<td>–</td>
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<tr>
<td>natural</td>
<td>20</td>
<td>9006</td>
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<tr>
<td>charcoal grey</td>
<td>53</td>
<td>7016</td>
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</table>

Please note: For colour samples, contact heroal directly

* with element width = 2,000 mm, with 40–8k axle / profile axle
** according to DIN EN 13659, with element width = 2,000 mm, depending on guide rail
*** according to CFIA test specifications no. 2
**** according to DIN EN ISO 12567-1
***** according to DIN 4102
****** according to DIN EN ISO 10140-2
heroal surfaces

Surface finishing is an integral part of heroal system components. heroal offers optimally matched systems for roller shutters, roller doors, sun protection as well as windows, doors, façades. 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 air, water and wind 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 system house in the sector to offer such a service to its customers.
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.