

# heroal Roller Shutter Systems



# Especially Stable and Energy Efficient: heroal Roller Shutter Systems

Superior materials, technically compatible solutions down to every detail and a wide spectrum of design options characterise heroal's efficient system technology. These are persuasive advantages. With its innovative solutions made of aluminum and aluminum composite materials for the building envelope, heroal has been the reliable partner for architects, builders and contractors for decades.

Planners appreciate the wide spectrum of design options, builders can implement their individual requirements with a reliable system and our partners profit from the economical and efficient heroal system solutions.

heroal roller shutters offer unique advantages for each product: composed of aluminum, they have a long service life and guarantee a high level of burglar resistance. Premium surface quality and high stability enable opening widths, which cannot be achieved with other materials – with high wind resistance. Energy efficiency is also noticeable. A wide spectrum of colors in permanently stable shades leaves plenty of room for custom designing.





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# **Energy Savings**

The roller shutter saves heating energy and enhances passive air-conditioning. On cold nights, energy loss is significantly reduced by the air cushion between the window and the roller shutter. In the summer, automatically controlled roller shutters ensure that the air-conditioner does not need to be put into operation.

# Soundproofing

heroal roller shutter systems ensure optimized soundproofing with the system being composed of double-walled aluminium or stainless steel and a medium or high-density foam fill.

# heroal Roller Shutter Slats

### Highly Stable and Energy Efficient

heroal roller shutter slats made of aluminum are the best choice when it comes to durability, economy and functionality. This is because heroal roller shutter systems achieve the best results not only in terms of burglar resistance, but also visibility protection and soundproofing, wind load resistance and hail resistance.

This is how the systems achieve, for example, the highest resistance class in the hail resistance test. The curtain, guide rail and the front box were tested. They remain in a visually and mechanically perfect condition even when hit by hail. heroal roller shutter systems are also real energy savers: on cold nights, the air cushion between windows and closed roller shutters allows energy savings of up to 56 percent.

Only the best materials are used to ensure optimum weather resistance. The high-quality surface coating with the heroal 2-layer thick coating as well as the shape and type selection make the heroal roller shutter systems an exclusive design element.

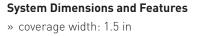
### **Product Overview**

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### Minimum Space Requirement Due to Small Barrel Diameter



The very tight winding and the small barrel diameter (Ø 6.2 in at a curtain height of 98.4 in) are the advantages of heroal RS 37. This is achieved by using the thinnest slat in the heroal range (only 0.3 in nominal thickness) – a perfect solution for structural requirements on very small box sizes.



- » max. width | height: 9.8 ft | 11.5 ft
- » max. area: 66.7 ft<sup>2</sup>
- » finished curtain weight: 0.7 lbs/ft<sup>2</sup>
- » wind load values up to 35.0 mp/h for element widths up to 8.5 ft
- » optimized noise improvement by +10 dB
- » especially sturdy thanks to high wall thicknesses and medium-density foam
- » hail class 4
- » potential improvement of heat transfer coefficient by up to 42 percent

#### **Configuration Options and Design**

- » highly weather-resistant surface coating with thick 2-layered lacquer
- » wide selection of colors



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heroal RS 37

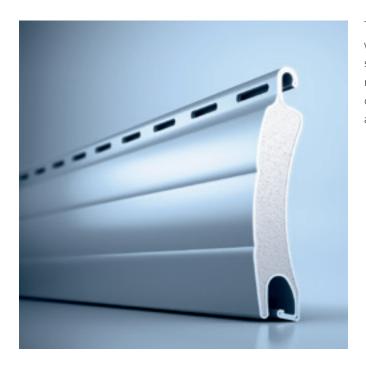
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### heroal RS 37 RC 2

### Security Roller Shutter Slat with a Rated Burglar Protection Class RC 2



The high-density foam gives the slim slat heroal RS 37 RC 2 with a weight of  $1.8 \text{ lbs}/\text{ft}^2$  its extreme bending strength and stability. With a coverage width of 1.5 in and a nominal thickness of 0.4 in, the slat is tested and approved up to resistance class RC 2 according to DIN 1627. The heroal RS 37 RC 2 is also certified to withstand hail class 7.

#### System Dimensions and Features

- » coverage width: 1.5 in
- » max. width | height: 13.8 ft | 13.1 ft
- » max. area: 113.0 ft<sup>2</sup>
- » finished curtain weight: 1.8 lbs/ft<sup>2</sup>
- » wind load values up to 57.0 mp/h for element widths up to 8.5 ft
- » burglar resistance: RC 2
- » optimized noise insulation: +10 dB
- » particularly sturdy thanks to greatest wall thickness and high-density foam
- » hail class 7
- » potential improvement of heat transfer coefficient by up to 41 percent

#### **Configuration Options and Design**

» highly weather-resistant surface with heroal 2-layer thick coating



heroal RS 37 RC 2

Scale 1:1

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# heroal RS 37 RC 3

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heroal RS 37 RC 3

Scale 1:1

### Stainless Steel Slat with Extreme Resistance



The roller shutter slat heroal RS 37 RC 3 is a roll-formed stainless steel slat, which is extremely stable and resilient. Filled with a durable high-density foam, heroal systems with stainless steel roller shutter slats achieve the resistance class RC 3 for burglar protection – tested and approved according to DIN 1627. Combined with the achievement of the max. hail protection class, the RS 37 RC 3 is the perfect product for ultimate protection.

#### System Dimensions and Features

- » coverage width: 1.5 in
- » max. width | height: 16.4 ft | 13.1 ft
- » max. area: 129.2 ft<sup>2</sup>
- » finished curtain weight: 3.2 lbs/ft<sup>2</sup>
- » wind load values up to 70.0 mp/h for element widths up to 9.8 ft
- » enhanced anti-burglar protection: RC 3
- » optimized noise insulation: +10 dB
- » exceptional stability due to stainless steel with especially high wall thickness and high-density foam
- » hail class 7
- » potential improvement of heat transfer coefficient by up to 56 percent

#### **Configuration Options and Design**

» high-quality stainless steel look



### The Roller Shutter for High Wind Loads



The heroal RS 38 is a safe roller shutter solution, especially for regions with high wind loads. Excellent wind load values – up to 45.0 mp/h for element widths up to 8.5 ft – are the result of the high stability of this roller shutter slat.

#### System Dimensions and Features

- » coverage width: 1.5 in
- » max. width | height: 12.1 ft | 12.5 ft
- » max. area: 86.1 ft<sup>2</sup>
- » finished curtain weight: 0.9 lbs/ft<sup>2</sup>
- » wind load values up to 45.0 mp/h for element widths up to 8.5 ft
- » optimized noise insulation: +10 dB
- » high stability due to very high wall thickness and medium-density foam
- » hail class 4
- » potential improvement of heat transfer coefficient by up to 42 percent

#### **Configuration Options and Design**

- » highly weather-resistant surface coating with thick 2-layered lacquer
- » wide selection of colors



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heroal RS 38

Scale 1:1

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### Tightly Wound Slats with Large Coverage Width



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heroal RS 41

Scale 1:1

The heroal RS 41 winds very tightly with a large coverage width (1.6 in) and low nominal thickness (0.3 in) and is most suitable for use in small roller shutter boxes ( $\emptyset$  6.7 in barrel diameter at a curtain height of 8.2 ft). The very stable roller shutter slat with low weight (0.8 lbs/ft<sup>2</sup>) meets wind load values up to 45.0 mp/h for element widths up to 9.5 ft.

#### System Dimensions and Features

- » coverage width: 1.6 in
- » max. width | height: 11.5 ft | 11.5 ft
- » max. area: 75.3 ft<sup>2</sup>
- » finished curtain weight: 0.8 lbs/ft<sup>2</sup>
- » wind load values up to 45.0 mp/h for element widths up to 8.2 ft
- » optimized noise insulation: +10 dB
- » especially sturdy thanks to high wall thicknesses and medium-density foam
- » hail class 4
- » potential improvement of heat transfer coefficient by up to 43 percent

#### **Configuration Options and Design**

- » highly weather-resistant surface coating with thick 2-layered lacquer
- » wide selection of colors

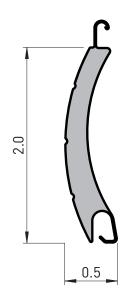


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### The Stable Roller Shutter Slat for Small Roller Shutter Casings



The heroal RS 52 is distinguished by the stability of the roller shutter slats of the 50 series. With a nominal thickness of 0.5 in and the medium-density foam, the slat achieves excellent wind load resistance values – wind load values up to 57.0 mp/h for element widths up to 10.5 ft. It is ideally suited for use in small roller shutter boxes.



heroal RS 52 Scale 1:1

#### System Dimensions and Features

- » coverage width: 2.0 in
- » max. width | height: 14.8 ft | 12.5 ft
- » max. area: 96.9 ft<sup>2</sup>
- » finished curtain weight: 0.8 lbs/ft<sup>2</sup>
- » wind load values up to 57.0 mp/h for element widths up to 10.5 ft
- » optimized noise insulation: +10 dB
- » high stability due to very high wall thickness and medium-density foam
- » hail class 5
- » potential improvement of heat transfer coefficient by up to 43 percent

#### **Configuration Options and Design**

- » highly weather-resistant surface coating with thick 2-layered lacquer
- » wide selection of colors

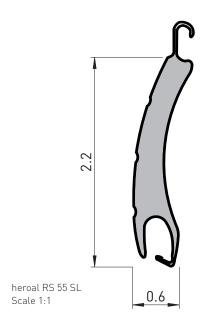


# heroal RS 55 SL

High Stability and Versatile Use



As the most stable standard slat, the heroal RS 55 SL meets the requirements of BVRS guideline TR 111 for increased burglar protection and achieves excellent wind load values up to 70.0 mp/h for element widths up to 9.2 ft.



#### System Dimensions and Features

- » coverage width: 2.2 in
- » max. width | height: 16.4 ft | 13.1 ft
- » max. area: 129.2 ft<sup>2</sup>
- » finished curtain weight: 1.0 lbs/ft<sup>2</sup>
- » wind load values up to 70.0 mp/h for element widths up to 9.2 ft
- » enhanced anti-burglar protection according to BVRS guideline TR 111
- » optimized noise insulation: +10 dB
- » especially sturdy thanks to high wall thicknesses and medium-density foam
- » hail class 5
- » potential improvement of heat transfer coefficient by up to 43 percent

#### **Configuration Options and Design**

- » versatile use as roller shutter or gate
- » highly weather-resistant surface coating with heroal 2-layer thick coating
- » wide selection of colors

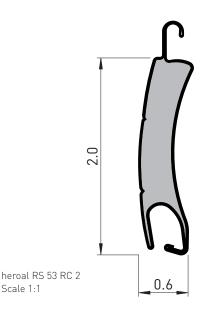


### heroal RS 53 RC 2

### Highly Stable and Safe



The extremely flexible standard security slats with a nominal thickness of 0.6 in and a high-density foam are designed for the construction of security roller shutters according to DIN 1627 up to resistance class 2 / RC 2. The heroal RS 53 RC 2 achieves excellent wind load values up to 70.0 mp/h for element widths up to 10.5 ft. The heroal RS 53 RC 2 is also awarded the hail class 7.



#### System Dimensions and Features

- » coverage width: 2.0 in
- » max. width | height: 18.0 ft | 13.1 ft
- » max. area: 177.6 ft<sup>2</sup>
- » finished curtain weight: 2.2 lbs/ft<sup>2</sup>
- » wind load values up to 70.0 mp/h for element widths up to 10.5 ft
- » enhanced anti-burglar protection: RC 2
- » optimized noise insulation: +10 dB
- » extremely sturdy due to exceptional wall thicknesses and high-density foam
- » hail class 7
- » potential improvement of heat transfer coefficient by up to 42 percent
- » hurricane protection system Cat. D

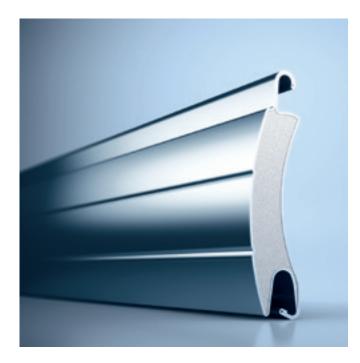
#### **Configuration Options and Design**

» highly weather-resistant surface coating with heroal 2-layer thick coating

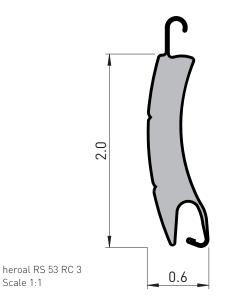


# heroal RS 53 RC 3

### Stainless Steel Slat with Extreme Resistance



The heroal RS 53 RC 3, which is roll-formed from a special stainless steel alloy and is filled with a highly resilient, highdensity foam, meets the highest security standards: Wind load values up to 70.0 mp/h for element widths up to 13.1 ft as well as enhanced burglar protection up to RC 3 according to DIN 1627. The heroal RS 53 RC 3 achieves the maximum hail class 7, at which there is no visual or mechanical damage.



#### System Dimensions and Features

- » coverage width: 2.0 in
- » max. width | height: 19.7 ft | 13.1 ft
- » max. area: 193.8 ft<sup>2</sup>
- » finished curtain weight: 3.9 lbs/ft<sup>2</sup>
- » wind load values up to 70.0 mp/h for element widths up to 13.1 ft
- » enhanced anti-burglar protection: RC 3
- » optimized noise insulation: +10 dB
- » hail class 7
- » maximum stability due to stainless steel with highest wall thickness and high-density foam
- » potential improvement of heat transfer coefficient by up to 56 percent
- » hurricane protection system Cat. E

#### **Configuration Options and Design**

» high-quality stainless steel look



# System Dimensions and Features: Comparison Tables

Design	Aluminum		Stainless steel	
Designation	heroal RS 37	heroal RS 37 RC 2	heroal RS 37 RC 3	heroal RS 38
3D Rendering				
2D Rendering				
Coverage width   Nominal thickness (in)	1.5   0.3	1.5   0.4	1.5   0.4	1.5   0.4
Max. width   height (ft)	9.8   11.5	13.8   13.1	16.4   13.1	12.1   12.5
Max. area (ft²)	66.7	113.0	129.2	86.1
Weight (lbs/ft²)	0.7	1.8	3.2	0.9
With   Without light slits	•   •	•   •	-   •	•   •
Wind load resistance (mp/h)	35.0	57.0	70.0	45.0
Improved sound insulation (dB)	+10	+10	+10	+10
Foam (medium   high density)	•   -	-   •	-   •	•   -
Hail class	4	7	7	4
Burglar protection (RC)	-	RC 2	RC 3	-
U-Value improvement (up to)	42%	41 %	56 %	42%

	Aluminum			Stainless steel
heroal RS 41	heroal RS 52	heroal RS 55 SL	heroal RS 53 RC 2	heroal RS 53 RC 3
91	0.5	53 0.6	50 0.6	50
1.6   0.3	2.0   0.5	2.2   0.6	2.0   0.6	2.0   0.6
11.5   11.5	14.8   12.5	16.4   13.1	18.0   13.1	19.7   13.1
75.3	96.9	129.2	177.6	193.8
0.8	0.8	1.0	2.2	3.9
•   •	•   •	•   •	•   •	-   •
45.0	57.0	70.0	70.0	70.0
+10	+10	+10	+10	+10
•   -	•   -	•   -	-   •	-   •
4	5	5	7	7
-	-	SL	RC 2	RC 3
43%	43 %	43 %	42%	56 %







Architects, clients and processors particularly value the successful combination of design and function in heroal roller shutters: The projecting screening systems offer a multitude of roll-formed and extruded casing solutions. These can be coordinated with the colors of windows and curtain walls thanks to the broad heroal color palette.

# An Extremely Functional Design Outstanding Energy Efficiency

Furthermore, all heroal projecting screening systems are designed to ensure that no hollow spaces and so no thermal bridges arise. This not only improves the heat insulation of the building considerably but also saves on heating energy.

# heroal Box Systems

Linear Design with Clear Contours

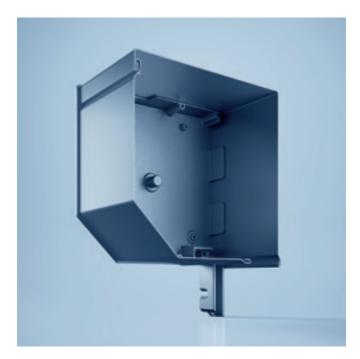
Angular heroal surface-mounted box systems ensure linear design with clear contours in every type of installation. High light incidence can be achieved by the design variants in 45° and 90° look. Their simple and quick installation in the window reveal or in front of the curtain wall makes them an ideal system for retrofitting or renovating. In addition to the roll-formed, surface-mounted box system, the series program also offers an extruded box system that provides additional stability and security.

### **Product Overview**

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### heroal FMR 45°

### Increased Incidence of Light Due to 45° Slope



With its striking, five-cornered box shape, the roll-formed surface-mounted box element heroal FMR 45° sets visual accents on the building envelope. In addition, the 45° slope on the lower front of the box causes greater incidence of light into the rooms.

#### Security

- » High stability and security of the box: Walls made of highquality aluminum alloys plus special heroal joining technology
- » Hail class 6

#### Design

- » Five-cornered surface-mounted box with a striking look
- $\,$  » Increased incidence of light due to the 45° slope
- » Versatile installation options
- » Wide selection of colors
- » Insect screen can be integrated
- » Highly weather-resistant surface finish with heroal 2-layer thick coating

# heroal FMR 90°

Linear with a Clean Contour



The rectangular, roll-formed, surface-mounted box heroal FMR 90° impresses with its clean square shape and is suitable for use in a wide range of curtain wall architectures – both in new and old buildings.

#### Security

- » High stability and security of the box: Walls made of highquality aluminum alloys plus special heroal joining technology
- » Hail class 6

#### Design

- » Rectangular surface-mounted box with clean rectangular shape
- » Versatile installation options
- » Wide selection of colors
- » Highly weather-resistant surface finish with heroal 2-layer thick coating



### heroal FME 45°

### Highly Stable with a Striking Look



The extruded box system heroal FME 45° offers a stable and safe box solution. It meets the requirements of BVRS guideline TR 111 for increased burglar protection and its shape is also absolutely dimensionally stable for large element widths. The 45° slope ensures enhanced incidence of light.

#### Security

- » Burglar-proof according to BVRS guideline TR 111
- » Maximum box stability due to walls made of high-quality aluminum alloys plus special heroal joining technology
- » Roll-up security system "Click-stop" can be integrated
- » Hail class 7

#### Design

- » Striking, extruded, surface-mounted box with 45°-slope
- » Increased incidence of light due to the inclination
- » Versatile installation options
- » Wide selection of colors
- » Insect screen can be integrated
- » Extremely weather-resistant surface due to high-quality heroal hwr powder coating

# heroal FME 90°

### Clear Form and Optimal Functions



The heroal FME 90° surface-mounted box system is a rectangular, extruded box solution with a clean, right-angled contour. It is suitable for new and old buildings alike and meets the high burglar protection standards.

#### Security

- » Burglar-proof according to BVRS guideline TR 111
- » Maximum box stability due to walls made of high-quality aluminum alloys plus special heroal joining technology
- » Roll-up security system "Click-stop" can be integrated
- » Hail class 7

#### Design

- » Rectangular, extruded, surface-mounted box with clean rectangular shape
- » Versatile installation options
- » Insect screen can be integrated
- » Wide selection of colors
- » Extremely weather-resistant surface due to high-quality heroal hwr powder coating

# heroal FMS 45°

### Security Box with Enhanced Burglar Resistance up to RC 3



The extruded box system heroal FMS 45°, which meets the requirements for security roller shutters of resistance classes RC 2 and RC 3 of DIN EN 1627, offers very high protection against burglar attempts.

This is ensured, among other features, by a special security hook, which can only be opened using a special key and end claps made of resistant steel.

#### Security

- » Burglar-proof, extruded box system made of high-quality aluminum alloys: can be implemented in resistance classes RC 2 and RC 3
- » Security hook
- » Steel box caps
- » Multiple member roll-up security system
- » Hail class 7

### Design

- » Wide selection of colors
- » Extremely weather-resistant surface due to high-quality heroal hwr powder coating



# And Noise Remains Outside

heroal projecting screening systems ensure outstanding soundproofing. They are installed completely externally, which means that they consistently prevent acoustical bridges. This has a positive effect on internal spaces: People enjoy more comfortable living and can work more effectively.

# Quickly and Easily Installed

heroal makes it easy for processors to install projecting screening systems. Installation takes place in the window reveal or in front of the curtain wall on site. As the casings are on the outside, no hollow spaces can arise, meaning that thermal bridges and energy losses are avoided.

### System Dimensions and Features: Comparison Tables

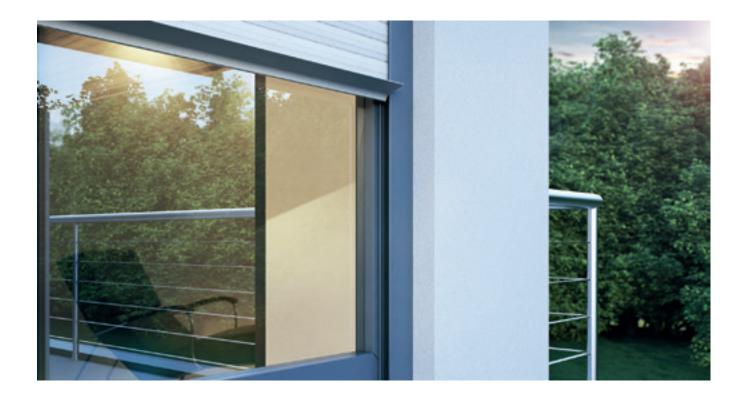
Design	Front Mounted Box Systems				
Designation	heroal FMR 45°	heroal FMR 90°	heroal FME 45°	heroal FME 90°	heroal FMS 45°
3D Rendering					
2D Rendering					
Box sizes (in)	4, 5, 6, 7, 8, 9	5, 6, 7, 8	4, 5, 6, 7, 8	5, 6, 7, 8	8
Roll-up security system can be integrated	•	•	•	•	•
Burglar protection rating (RC)*	-	-	SL	SL	RC3
Roll-formed model	•	•	-	-	-
Extruded model	-	-	•	•	•
heroal 2-layer thick coating	•	•	-	-	-
heroal hwr coating	-	-	•	•	•
Hail class	6	6	7	7	7

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### Guide Rails

### Secure Solutions for All Types of Installation



Want a particularly small guide rail? Want it installed on the masonry or in the reveal?

heroal provides a vast range of guide rails that enable wellfitting solutions to be realized for every installation situation.

#### **Diverse Colors, Extremely Stable Rails**

It is not just the extensive type selection that enables vast design freedom; the huge range of colors does, too. All guide rails have a surface with a high-quality heroal hwr powder coating – so the entire roller shutter system can be designed in the same color.

With respect to security, the guide rails also impress with their well-thought-out details: The extremely stable extruded rails made from high-quality aluminum are equipped with rolled inserts. These weather strips made from soft PVC, hard PVD or brush inserts ensure a stable curtain and quiet operation.

### **End Slats**

### Extremely Durable and Close-Fitting



The heroal end slats made from extruded aluminum fulfill several roles simultaneously: They guarantee an extremely resilient roller shutter finish and seal – underscoring the thermal protection and energy efficiency offered by heroal roller shutter systems once again.

#### With Additional Lock on Request

The end slats also score points when it comes to security. For instance, if a latch is integrated into the end slat, an additional anti-push-up device is available: If the roller shutter curtain is let down, the latch falls into a notch and thus ensures an additional lock. In addition, hollow section end slats are available that can be fitted with flat steel – this adds stability to the roller shutter.

#### A Rich Variety of Looks at All Times

The universal heroal design extends right down to the end slats: They can be designed in all colors from the vast heroal color palette. Naturally, the end slats are also finished in heroal's own coating plant in accordance with the highest quality standard.

Additional design options are made possible by the various backstop options: heroal offers a concealed backstop as well as stopping blocks and a backstop with an angled end slat.



### heroal Surfaces

Surface finishing is an integral part of heroal system components. Here, heroal offers perfectly aligned systems from the fields of roller shutters, sun protection, roller doors, windows, doors and curtain walls. The heroal hwr powder coating is based on the quality of our own coating plants. The award as an official GSB premium coater and the Qualicoat seal of approval are proof of quality leadership. In addition to powder coating, heroal offers its customers anodized surfaces and foil decors. A heroal 2-layer thick coating is used especially in the roller shutter and roller door area. heroal delivers its entire product portfolio directly ex factory, thus guaranteeing the shortest delivery times for its partners.



# Our Service Consistently Focuses on Your Requirements

In addition to its comprehensive system portfolio with perfectly matched products, heroal also offers the unique and most efficient service in the industry – based on a consistent focus on the requirements, wishes and needs of the customers. The heroal service is based on trained employees, the company's energy-efficient production "made in Germany" with a unique production depth and process reliability that guarantees fabricators, architects and builders an optimum product quality for sustainable, economical and value-added construction. This is also ensured by the heroal logistics centre with around 40,000 m<sup>2</sup> of space and its own truck fleet. The heroal service portfolio is complemented by the test center, which can also be used by customers - including the test bench for air, water and wind certified by ift Rosenheim for roller shutters, sun protection, roller doors, windows, doors and curtain walls as well as its own high-performance profile bending and folding service, which heroal offers its customers, as the only systems supplier, from in-house production.



### Icon Overview



#### Weather Resistance:

heroal products already meet tomorrow's demands today. The systems guarantee superior protection against storm and extreme weather influences.



#### Acoustics:

Due to the double-wall, foam-filled roller shutter slats, heroal systems provide a high level of sound proofing and noise reduction.



#### **Burglar Resistance:**

Increased burglar protection with no trade-off on design - that is what heroal roller shutter systems stand for. Different types of systems offers for several levels of security and burglar protection.



#### Hurricane Protection:

Provide the ultimate level of security and storm protection, whether for residential or commercial purposes.



#### Sustainability:

heroal roller shutter systems are real energy savers. They enable a comfortable room climate in hot summer months, whilst energy losses can be drastically reduced in cold winters.



#### Winding Technology:

Through its innovative slat geometry the winding mechanism leads to a tightly packed diameter offering a flexible and aesthetically pleasing solution.



#### Suface:

heroal's long lasting surface coating exceeds international quality standards.





Feeling at home means feeling safe. heroal roller shutter systems protect your home, and everything inside, from foreign eyes – and also against light and heat.

# heroal – The Aluminum Systems Supplier

As one of the leading aluminum system suppliers, heroal develops and produces perfectly coordinated systems for windows, doors, façades, roller shutters, roller doors and sun protection, complemented by louver and sliding shutters, insect protection and terrace roofs and carports. By minimizing energy consumption during production, maximizing 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 | Sun Protection | Roller Doors | Service

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Roller shutter and showing the shore of shore of the shor

Service

Window and door systems

heroal

Curtain wall systems

Sustai na bility

Service

Sun protection sistens