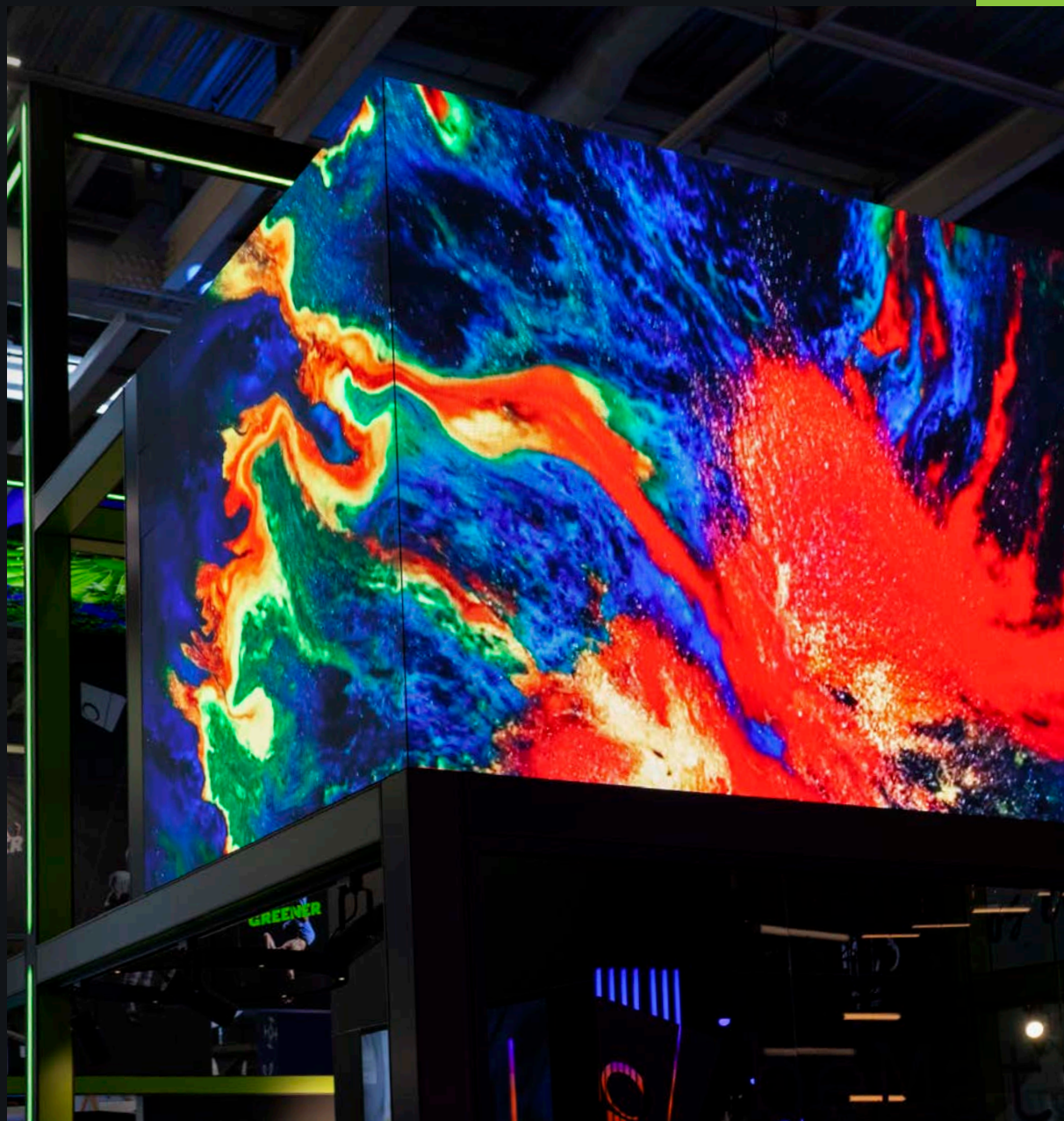


# LEDSKIN®

be anything.

EN



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Back in 2017, beMatrix was the first to develop a method to **integrate a LED wall into an existing modular frame system**: LEDskin®. A top product for the construction and finish of exhibition stands in which frame and infill blend into a single digital communication solution for dynamic content.

The beMatrix LEDskin® was awarded with several prestigious prizes, confirming the innovative character of this LED solution.



PATENTED DESIGN

# LEDskin®

## Animation, motion and great feeling

LEDskin® transforms your beMatrix stand into a real **hotspot**, full of animation and motion, so your stand becomes a true **experience**. With LEDskin®, beMatrix once again revolutionises stand building. From now on – and in the blink of an eye – you can combine LED cabinets and frames to create an impressive video wall, which can be seamlessly **integrated** into your new or existing beMatrix stand. No more individual screens, which in fact in many cases are more of a disruptive element than added value in a sleek stand design. Also, you are no longer limited to the maximum (standard) dimensions of individual screens. Instead, you can turn the whole thing into a totally seamless video wall.



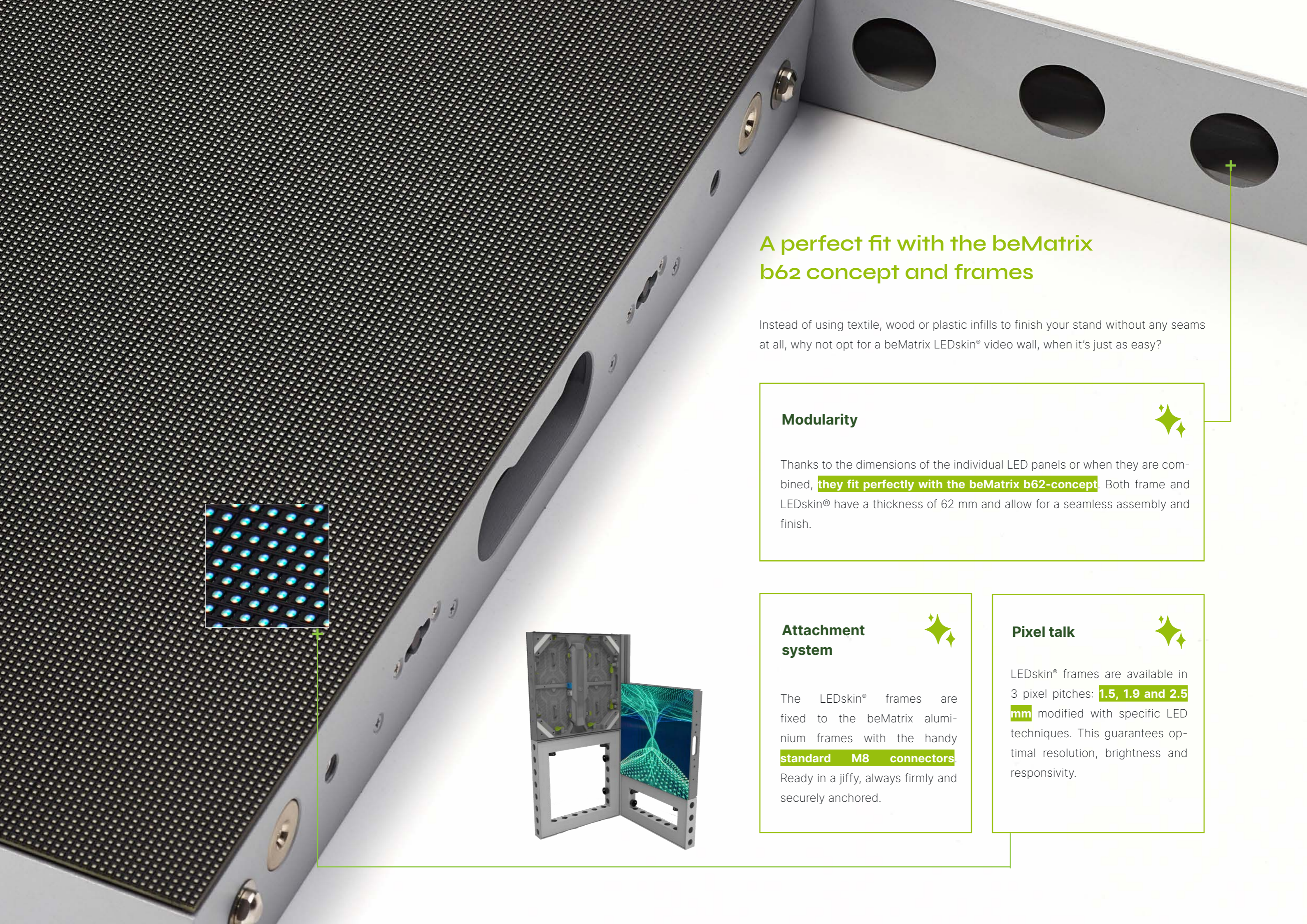
Discover the impact of LEDskin® on the beMatrix [YouTube channel](#).



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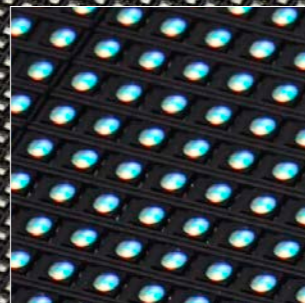
## A perfect fit with the beMatrix b62 concept and frames

Instead of using textile, wood or plastic infills to finish your stand without any seams at all, why not opt for a beMatrix LEDskin® video wall, when it's just as easy?

### Modularity



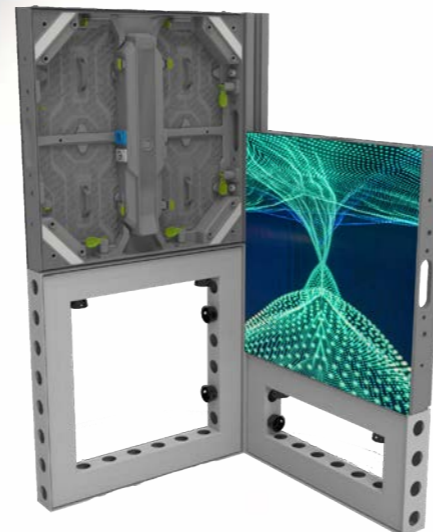
Thanks to the dimensions of the individual LED panels or when they are combined, **they fit perfectly with the beMatrix b62-concept**. Both frame and LEDskin® have a thickness of 62 mm and allow for a seamless assembly and finish.



### Attachment system



The LEDskin® frames are fixed to the beMatrix aluminium frames with the handy **standard M8 connectors**. Ready in a jiffy, always firmly and securely anchored.



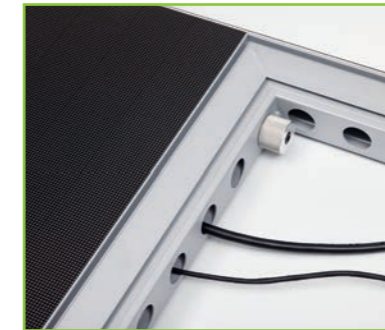
### Pixel talk



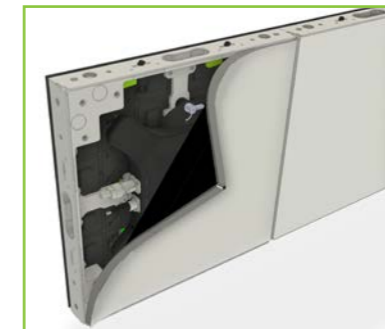
LEDskin® frames are available in 3 pixel pitches: **1.5, 1.9 and 2.5 mm** modified with specific LED techniques. This guarantees optimal resolution, brightness and responsivity.



Aligned using precision **pin lock systems** whilst manual connectors ensure a strong bound between the different systems and tiles.



The holes in the beMatrix frame also serve as a cable duct and connection spot, so you no longer need to worry about unsightly cable spaghetti at the back.



LEDskin® frames can easily be finished at the back using textile or panels (**patented design**), which can be easily attached using silicon edges or hook and loop tape.



The sides of the LEDskin® can be finished with the existing cover profiles.



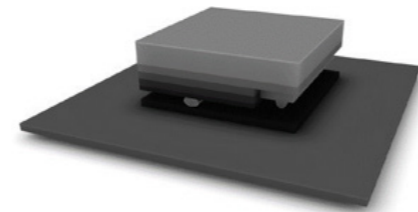
The tiles can be **fully maintained**. Led modules and power supply units are accessible and can be removed from front and back. A dedicated beMatrix tool is available.

## LEDskin® P1.5

beMatrix and Unilumin have created a high quality LEDskin® cabinet. The LED modules are available in pixel pitch 1.5 mm with **COB Flip Chip** LED technology. More integration options are available such as to the beConstruct profile thanks to its **robust design**. A big game changer, as it is the first LED cabinet of this type that is available in the rental business.

### Chip on Board technology

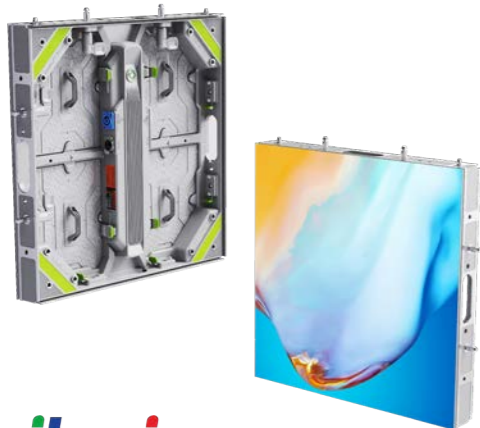
The COB (Chip on Board) technology is new in the rental market where many **individual RGB LED chips are mounted on a thermally efficient substrate** placed below a uniform contrast enhancing and physical protective layerstack. This technology has a much more durable LED surface continuously contributing to the hassle-free setup that all beMatrix products have.



### A full-on sustainable solution

The LED cabinets and the displayed content can be used a multiple of times as opposed to most printed products which have a limited lifespan. This reduces resource consumption.

LEDskin® also saves on transportation and investment thanks to our expanding rental model where you can **collaborate through the bePartner network**. Our LEDskin® bePartners have LEDskin® stock and years of experience in the audiovisual sector. They can help you with perfectly integrating our LEDskin® into your beMatrix stand and assist in setting up striking content.



### Core specifications

- Powered by Unilumin
- Original beMatrix b62 frame compliant
- State of the art COB (FC) technology: robust cabinet
- 320 × 320 HxV pixels highest resolution
- Cool and power efficient design
- Brightness 600 Nits, contrast ≥ 10 000/1
- Size 496 × 496 × 62 mm
- Extremely lightweight 6.1 kg cabinet
- Fast and easy installation
- This new technology and LED cabinet is **patented**.

**Unilumin**



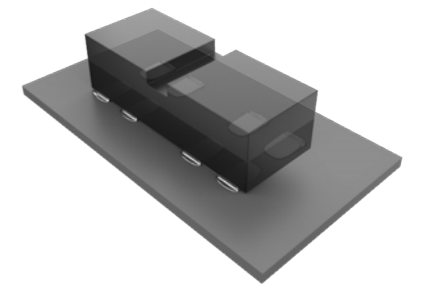


## LEDskin® P2.5

A new generation of LEDskin® is launched at the beginning of 2024 with a new design language, improved display specifications and more integration options. This LED cabinet, powered by Infiled, has a pixel pitch of 2.5 to improve the displayed image quality. At the same time, we improved the **strength and robustness** of the LED surface using **IMD 2 in 1** LED technology.

### Integrated Matrix Device LED technology

This new LED cabinet uses IMD (Integrated Matrix Device) 2 in 1 technology. **Two groups RGB diodes are gathered in a small unit** called IMD. This new generation of LED packaging technology that meets the current market demand in terms of both image quality and durability.



### Tech talk

This new LEDskin® P2.5 cabinet gives you a higher reliability thanks to its improved **anti-collision performance**. This latest developed state of the art IMD 2 in 1 LED technology offers a much more improved color and brightness consistency over a wide viewing angle. Benefits and qualities give you once more a stunning beMatrix creative solution.

LEDskin® also saves on transportation and investment thanks to our expanding rental model where you can **collaborate through the bePartner network**. Our LEDskin® bePartners have a minimum of LEDskin® stock and years of experience in the audiovisual sector. They can help you with perfectly integrating our LEDskin® into your beMatrix stand and assist in setting up striking content.

### Core specifications

- Powered by Infiled
- Original beMatrix b62 frame compliant
- IMD 2.5 MT2 technology: high colour consistency
- 192 × 192 HxV pixels high resolution
- Brightness 1200 Nits, contrast ≥ 5000/1
- Size 496 × 496 × 62 mm
- Lightweight 7.5 kg cabinet
- Fast and easy installation
- This new technology and LED cabinet is **patented**.

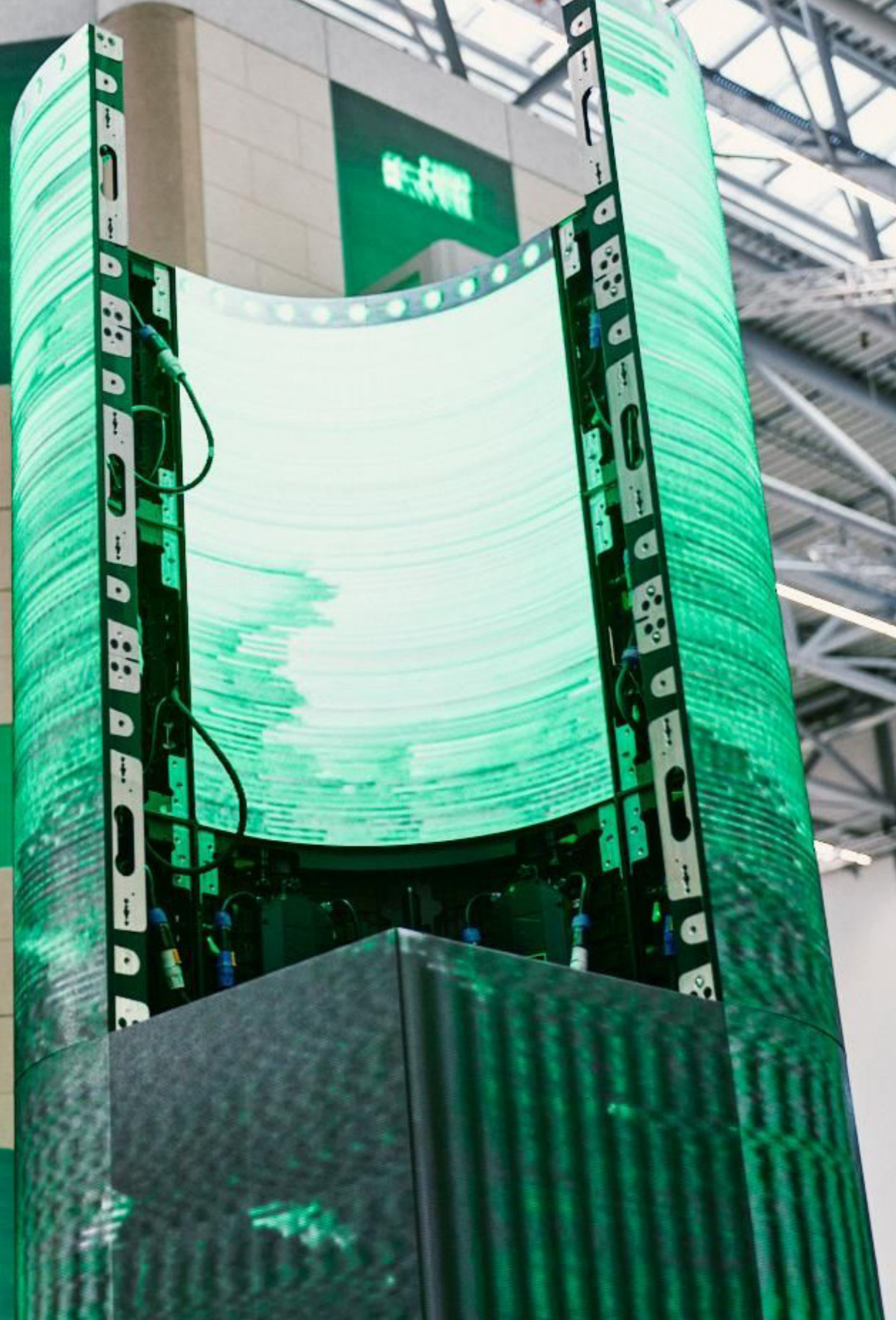


**INFILED**  
Screen your dreams

beMatrix

do you take the red or blue pill?

1993





## Very user friendly

You don't need to be a wizard to use LEDskin®. Our LED wall is plug & play: **you only need to mount the tiles, plug it in and connect to your video device/computer.**

To manage the LEDskin, we use the well-known and worldwide available **Novastar Eco system**. This device is compatible with Apple OS and Microsoft Windows software and has a low level of complexity. You can start on the spot and have content on your LEDskin® in only a few seconds.

We innovate constantly and always have the latest updates of the Novastar available for you in our product range. beMatrix is your one-stop-shop, as we are always by your side with new innovations, technical training and support.



For optimal handling we kept all LED panels as light as possible. Integrated grips and handles are provided.



A new Flightcase has been developed with the main goals of fast, safe, handy and full LEDskin® protection. Thanks to the **in-case protection**, no physical contact is possible between LEDs and Flightcase. This flightcase fits 8 LEDskin® tiles (2 m²) and all cables needed.

## Freedom of form

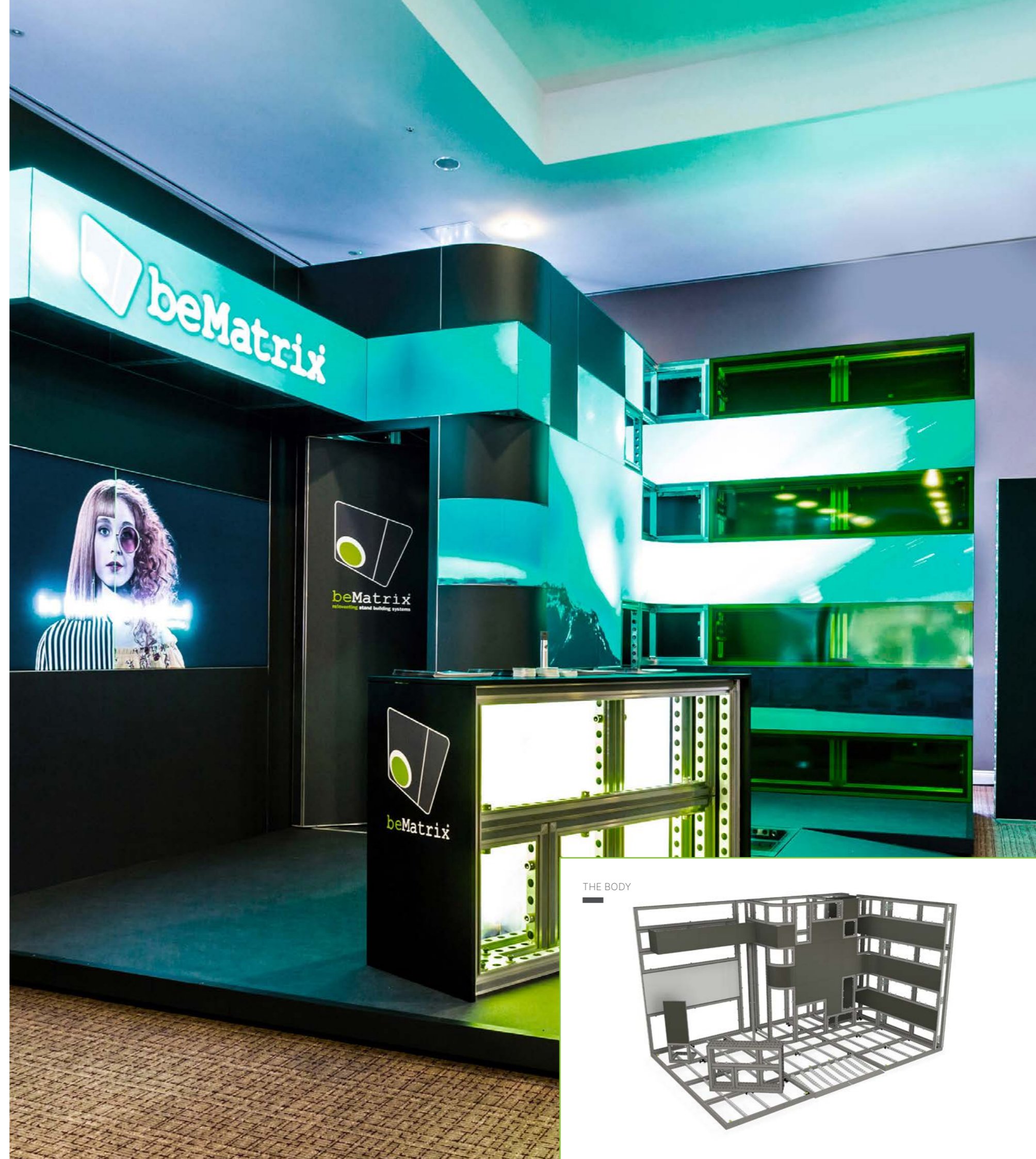
The creative ways in which you can use LEDskin® are almost endless and allow you to play with shapes. Think outside of your conventional rectangular LED screen, but more like a stand in LED mosaics or rectangular shapes that fade into a dynamic edge. Moreover, thanks to LEDskin® **you don't need to shy away from corners or curves**, you can create the perfect inner or outer corner and curved shapes. LEDskin® offers you maximum freedom in design.

### Inner and outer corners

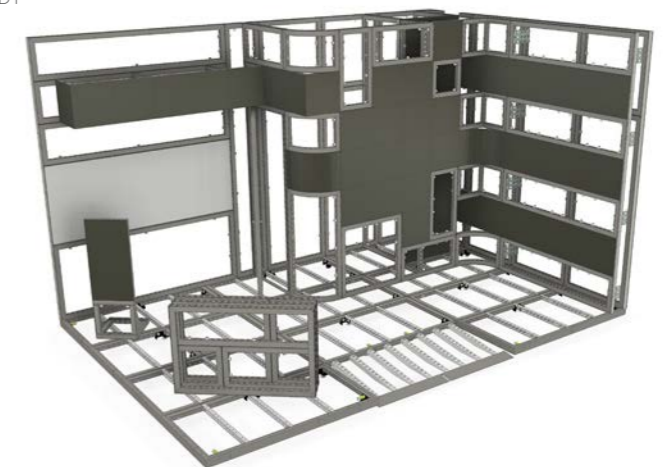
By combining the LEDskin® frames with the beMatrix corner profile, an inner corner is easily created. beMatrix created a molded frame, in which LED modules with pixel pitch 1.5, 1.9 and 2.5 can be attached to create an outer corner.

### Curves

With the curved LED modules and convex or concave LEDskin® frames, you can even integrate curves that perfectly fit into the aluminium frame system. These are available in pixel pitch 2.5.



THE BODY





## LEDskin® information

PIXEL PITCHES	1.5 MM COB	1.9 MM 4IN1	2.5 MM IMD 2IN1
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### Straight LED frames

Number of LEDskin® modules per cabinet	4 pcs	4 pcs	4 pcs
LEDskin® module resolution	180 × 180 pixels	128 × 128 pixels	96 × 96 pixels
LEDskin® module dimensions	248 × 248 mm	248 × 248 mm	248 × 248 mm
LEDskin® cabinet resolution	320 × 320 pixels	256 × 256 pixels	192 × 192 pixels
LEDskin® cabinet dimensions	496 × 496 × 62 mm	496 × 496 × 62 mm	496 × 496 × 62 mm
Pixel density	416.233 pixels/m <sup>2</sup>	266.389 pixels/m <sup>2</sup>	149.844 pixels/m <sup>2</sup>
Cabinet weight	6,1 kg	7,9 kg	7,5 kg

### Curved LED frames - concave - R430

Number of LEDskin® modules per cabinet	-	-	4 pcs (2 left – 2 right)
LEDskin® module resolution	-	-	138 × 96 pixels
LEDskin® module dimensions	-	-	356 × 248 mm
LEDskin® cabinet resolution	-	-	276 × 192 pixels
LEDskin® cabinet dimensions	-	-	496 × 496 × 496 mm
Pixel density	-	-	149.844 pixels/m <sup>2</sup>

### Curved LED frames - convex - R430

Number of LEDskin® modules per cabinet	-	-	4 pcs (2 left – 2 right)
LEDskin® module resolution	-	-	156 × 96 pixels
LEDskin® module dimensions	-	-	402.6 × 248 mm
LEDskin® cabinet resolution	-	-	312 × 192 pixels
LEDskin® cabinet dimensions	-	-	496 × 496 × 496 mm
Pixel density	-	-	149.844 pixels/m <sup>2</sup>

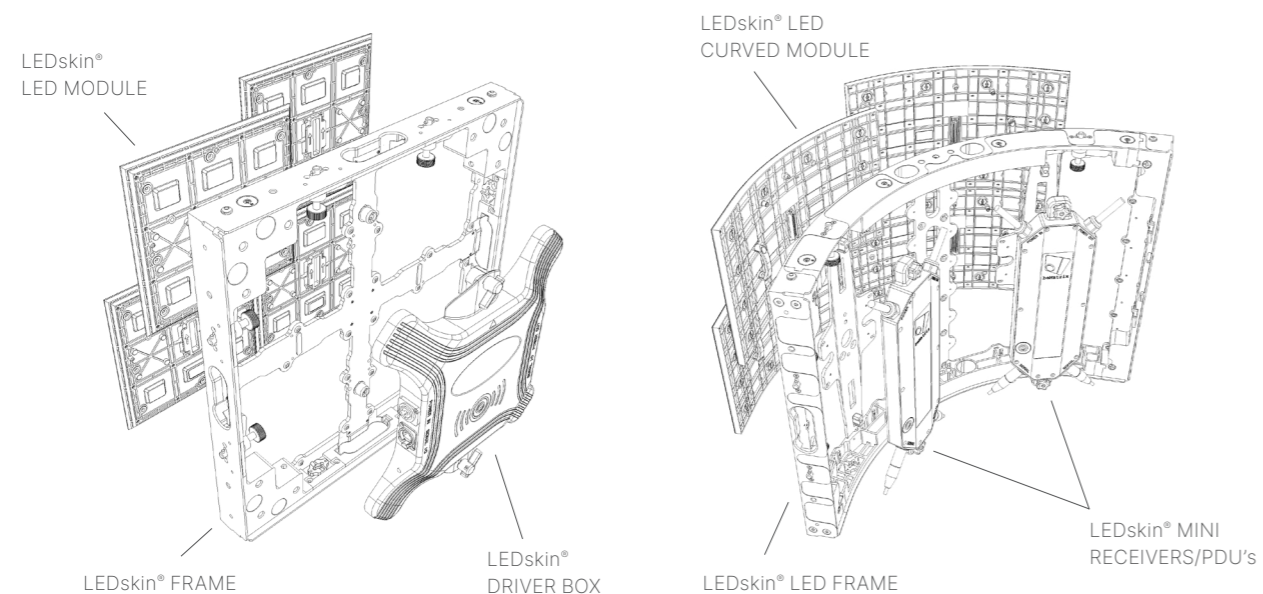
### Mechanical and optical ratings

Surface flatness	Gap ≤ 0,12 mm	Gap ≤ 0,15 mm	Gap ≤ 0,20 mm
Brightness	600 nits	800 nits	1.200 nits
View angle	170°/170°	160°/160°	170°/170°
Optimal viewing distance	≥ 1,5 m	≥ 1,9 m	≥ 2,5 m
Brightness adjustment	0-100% 100 steps	0-100% 100 steps	0-100% 100 steps
Contrast ratio	≥ 1:10.000	≥ 1:5000	≥ 1:5000
LED technology	COB FC	IMD 4 in 1	IMD 2 in 1
Color technology	EBL+	CBSF	CBSF
Refresh rate (Hz)	3840	3840	3840
Mask	No	No	Yes
LED Push off force		10kg AVG	4,3kg AVG

### Power supply

Max. power consumption / cabinet	140 W	150 W	144 W
Average power consumption / cabinet	25 W	50 W	30 W
Platform	Novastar	Novastar	Novastar
Receiver card	A10s-Pro	A8s-N	A8s-N
Operating life	100.000 hours	100.000 hours	100.000 hours

## Technical specifications



## The 8 beMatrix principles



### Quality guaranteed

All beMatrix frames are manufactured in-house, so we are in control of every step in the production process. Continuous optimisation and innovation initiatives ensure the system always complies with the market's demands.



### Top finishing

The beMatrix stand building system comes with a large range of tools and accessories to finish your stand exactly the way you envisage it. With the infills, you can even hide the entire frame system so it becomes invisible to the eye. Thanks to our 'seamless' concept, not one seam will be noticeable.

### Freedom to design

A beMatrix stand combines the benefits of a modular system with the possibilities of made-to-measure solutions. Almost any shape, contour and construction is conceivable and can easily be created. One single frame allows you to create all different kinds of stand concepts.



### Lightweight

The aluminium frame system is lightweight, hence very ergonomic and eco-friendly: no need for the stand builder to carry around heavy structures, while the transport weight and CO2 emissions remain low.



### Fast

Assembly and disassembly of the beMatrix system takes hardly any time. Its weight, simplicity and tool free assembly save loads of time, leaving you space to focus on the finishing details of your stand. Isn't that what makes you stand out most at a fair?

### Long life cycle

The system is extremely sturdy, making it endlessly reusable. Wear and tear won't shorten its life cycle, since the frame is not visible to the eye once the entire stand is set up.

### Ecologically sound

Because of its low weight, long life cycle and modular character, the beMatrix frame system is the eco-friendliest system today. Moreover, it is made out of untreated aluminium, so 100% recyclable and reusable without any quality losses.

### International network

The bePartner network brings together real ambassadors of the beMatrix frame system, each with their own expertise: stand building, textile printing, LEDskin®, Double Deck... A creative cross-pollination offering you as our client nothing but benefits.



## bePartners at your service

### **bePartner LEDskin®**

Our LEDskin® bePartners all stock a minimum amount of LEDskin® and have years of expertise in the audiovisual industry. They are more than happy to help you perfectly integrate LEDskin® in your beMatrix stand.

### **bePartner printed textiles**

Printing customised textiles takes real precision. Our bePartners for printed textiles have proven they totally master this specialised skill and guarantee perfect service, time and again.

### **bePartner build**

Our bePartners build have a large stock of frames and accessories, integrate our latest innovations, are able to think outside the box and consider optimal service to be of paramount importance.

### **bePartner LEDskin® content**

Do you already have LEDskin® available, but are you still looking for a partner to help you with content? Our content partners will advise and assist you, from content creation up to and including optimal display quality on your LEDskin® system.

### **bePartner printed panels**

Printing infill panels for our beMatrix frames might seem simple, but this specialised job really has to be executed in a very precise way. Our bePartners for printed panels have already proven they totally master this specialised skill and guarantee excellent service, time and again.



**be strong**  **be stylish**  
**be anything.**

**Come say hi**

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