XTREME SOLUTIONS

be anything.

EN

beMatrix®

The leading system for easy and sustainable event building.

Easy and sustainable event building

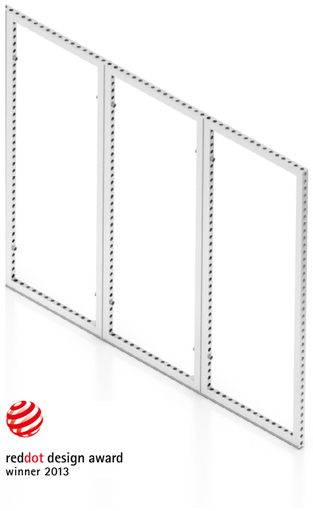
beMatrix is the true heir and Belgian manufacturer of the original frame system with big holes. beMatrix is helping to drive the exhibit and event industry toward products that are easy to use and sustainable.

Our mission is to be the leading system for easy and sustainable event building.
The beMatrix system offers exhibit and event builders endless possibilities for tradeshow booths, indoor and outdoor events, and pop-ups.

A sustainable step forward: frames with ECO+ finish.
beMatrix introduced the ECO frame as an ecological alternative to the anodized frame. Anodizing is a chemical surface treatment that is harmful to the environment. We invented a brushing technique with the same look as anodization, but without environmental risks.

Do you want more information on our efforts to minimise our impact on the environment? Read our **Sustainability Charter** at www.beMatrix.com.

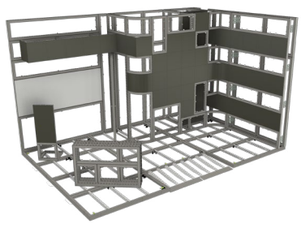
b62®



reddot design award
winner 2013

All dimensions of the b62® frame system are based on a perfect **62 × 62 mm matrix.** The width, length and height of the builds are always in multiples of 62.

The 62 mm matrix delivers the ultimate **modularity** with countless configuration options.



Why beMatrix?

Fast & easy design and construction

Faster and easier than assembling a traditional profile-based system, beMatrix is lightweight and requires no tools!

High return on investment

The same frame can be used for walls, ceilings, and floors. Since assembly is quick and easy, labor costs can be reduced.

Sustainable system

Frames can be reused over and over again. They are also recyclable without any loss of quality.

International network

There is always someone to assist you in the beMatrix network. beMatrix operates worldwide.

Local service and stock close to you

We have rental and service centers worldwide to support you with rental equipment, training or build-up support.

01 Product principles

1

b62

The 62 mm grid assures a perfect fit in any direction. Create any shape imaginable.

2

Toolless

Hardly any tools are needed. The system is fast to build with.

3

Modular yet customizable

Our system is a unique blend a modular frame system that accepts custom elements.

4

ECO surface treatment

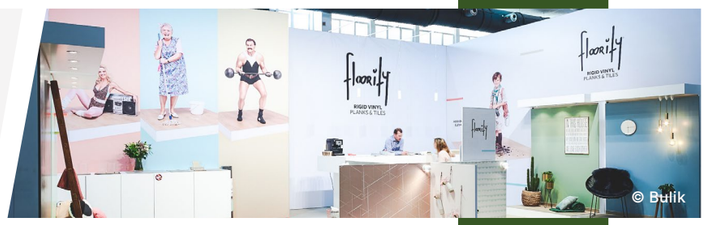
Brushing process that does not harm the environment.

8

Keep the body, change the skin

Endlessly reusable, just change the graphics!

7



beMatrify, our DNA

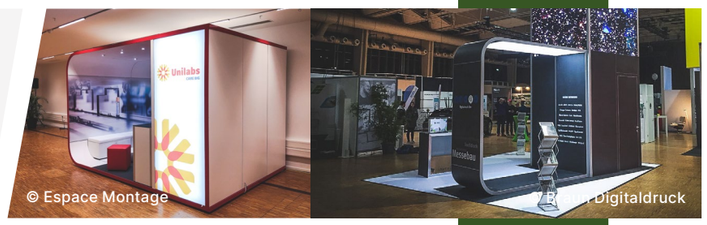
Easy to finish (panels/textile)

6

Welded frames

Lighter, stronger and faster to assemble than standard frames.

5



360°

Use the frame for walls, ceilings, and floors.

Spaces

02

In the world of live events and exhibitions, we've noticed the desire of our clients to build bigger. These types of designs **demand more load bearing capacity on the structures**. Let's take a look at the different beMatrix options to build small, medium or large spans in a safe and efficient way.

Small spans

For small and limited spans you're all set using the **b62 frames** combined with the **corner profile square 62**.

Medium spans

For medium spans that **do not carry heavy items** like LEDskin® (not load bearing), we recommend using **beConstruct**, our newest construction profile.

Large spans

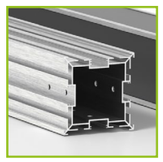
Want to take your build a step further? Is your design **load bearing**? Then **beTruss** is your solution for large spans. You can even add LEDskin® tiles to beTruss.

be-construct

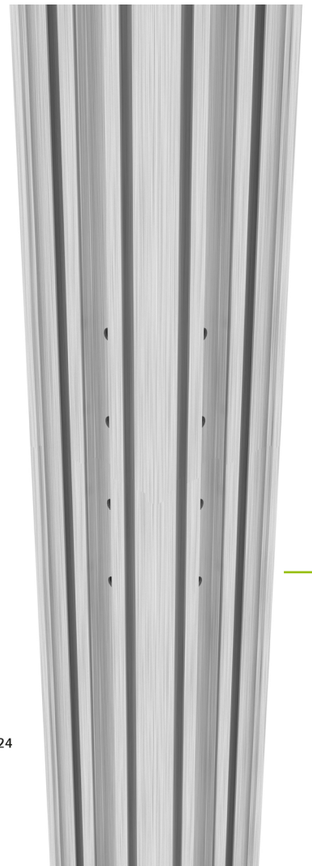
03

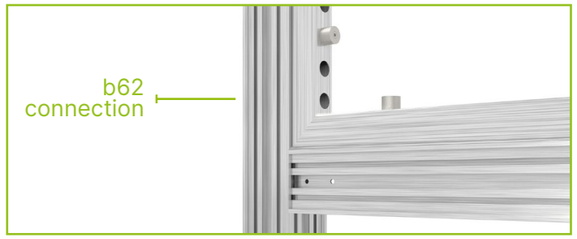
Non-load bearing designs with beConstruct

beConstruct is our new construction profile that **lets you build large and open non-load bearing designs**. beConstruct is the perfect solution for designs that need more than frames without the load-bearing capacity of beTruss. With dimensions of **124 mm by 124 mm** beConstruct fits perfectly within the beMatrix system (where width, length and height are always multiples of 62).



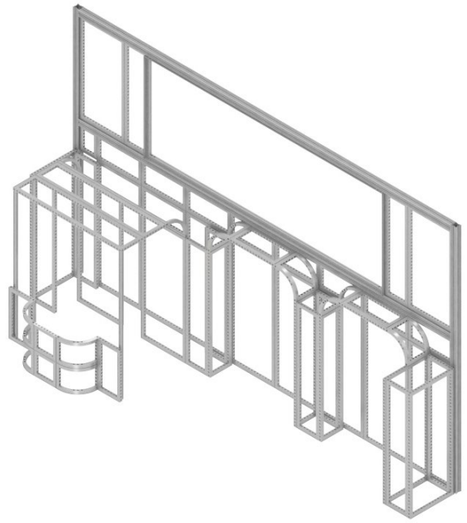
Our new beConstruct construction profile is **lighter to build with** compared to Double Deck's poles & beams. This means faster build times and reduced labor costs. You can build in both 90° (=corners) and in 180° (=extensions) directions. Use the D30 slot connector to hang b62 frames on it. The **migration between beConstruct and b62 frames** opens many design opportunities in the exhibit and event industry.

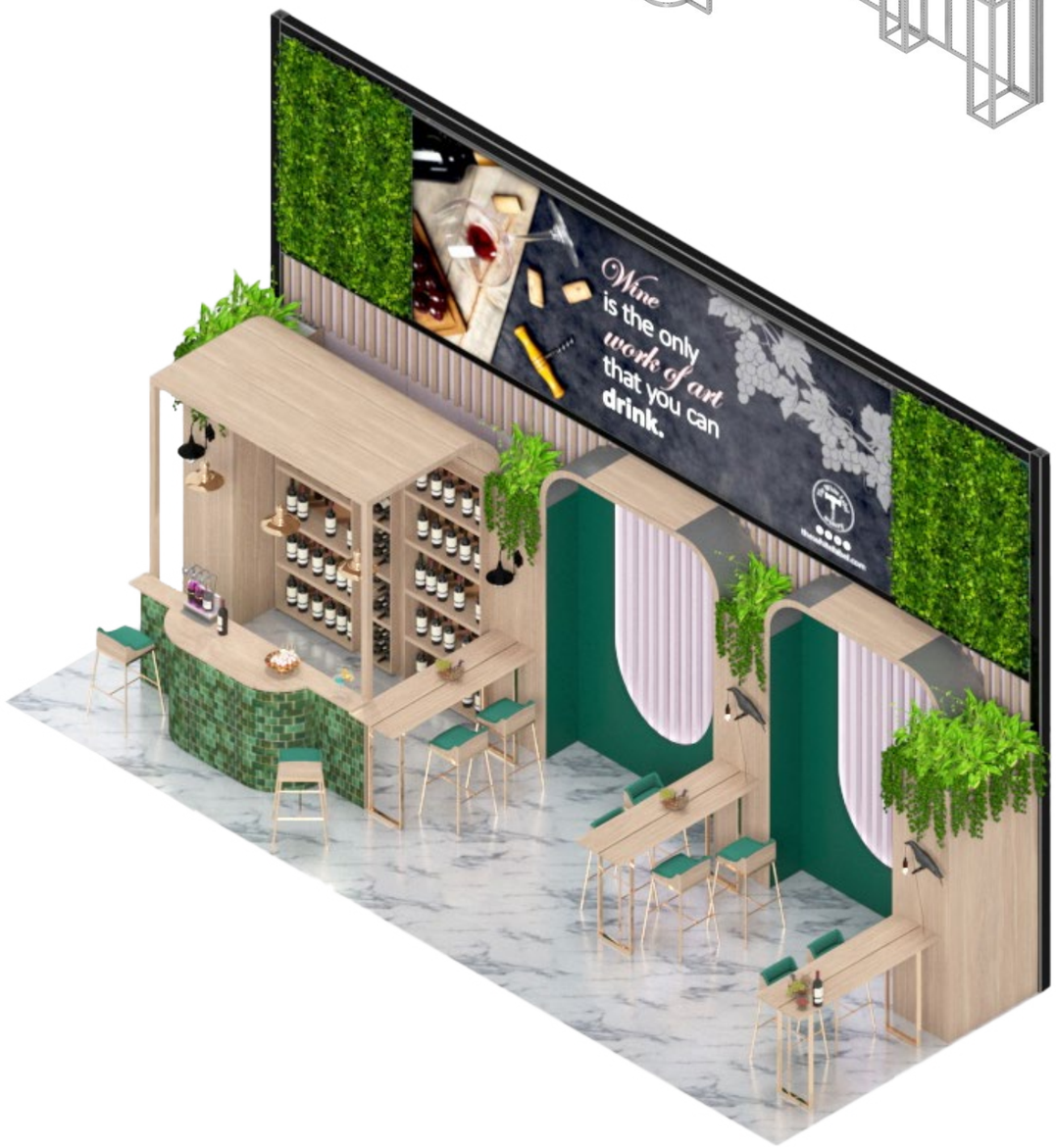




180° connection

reddot winner 2024



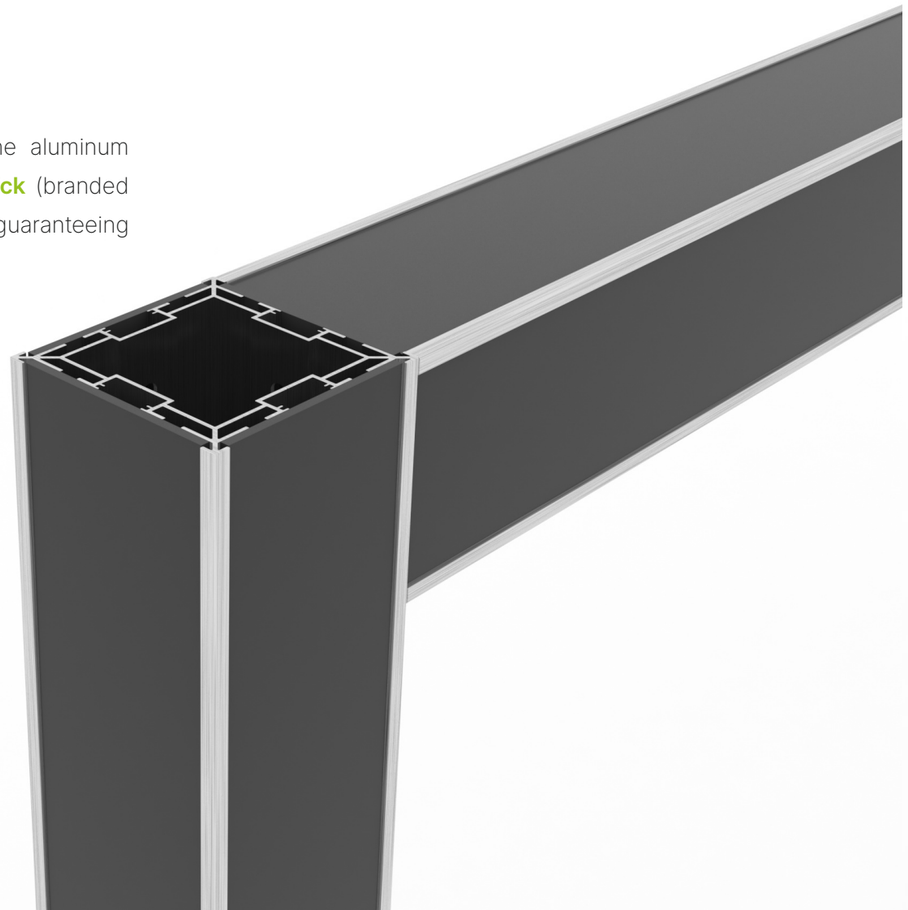


Adding lighting to your design is a piece of cake. The cross section of the beConstruct profile includes a notch to slide a **Track Light Profile** into it. Even better: there's a channel on the inside where you can hide the cables!

With lighting, you can get as creative as you want! Here is a tip: Stand out in the exhibition hall by **mounting a LED strip in the construction profile** to accentuate the poles and emphasize the straight lines of your booth.

Additional beMatrix connectors make it possible to **add different lighting solutions** such as the SAM Light and the BIG SAM Light. Thanks to the M8 hammer nut you can also attach a **124d lightbox** to your design.

Finish the 4 sides of the aluminum profile by using **3mm thick** (branded or non-branded) **panels**, guaranteeing you a sleek result!



Load tables available on request.

beConstruct is available for purchase and for rent through our Global Rental Network!

04 beTruss

Patented design

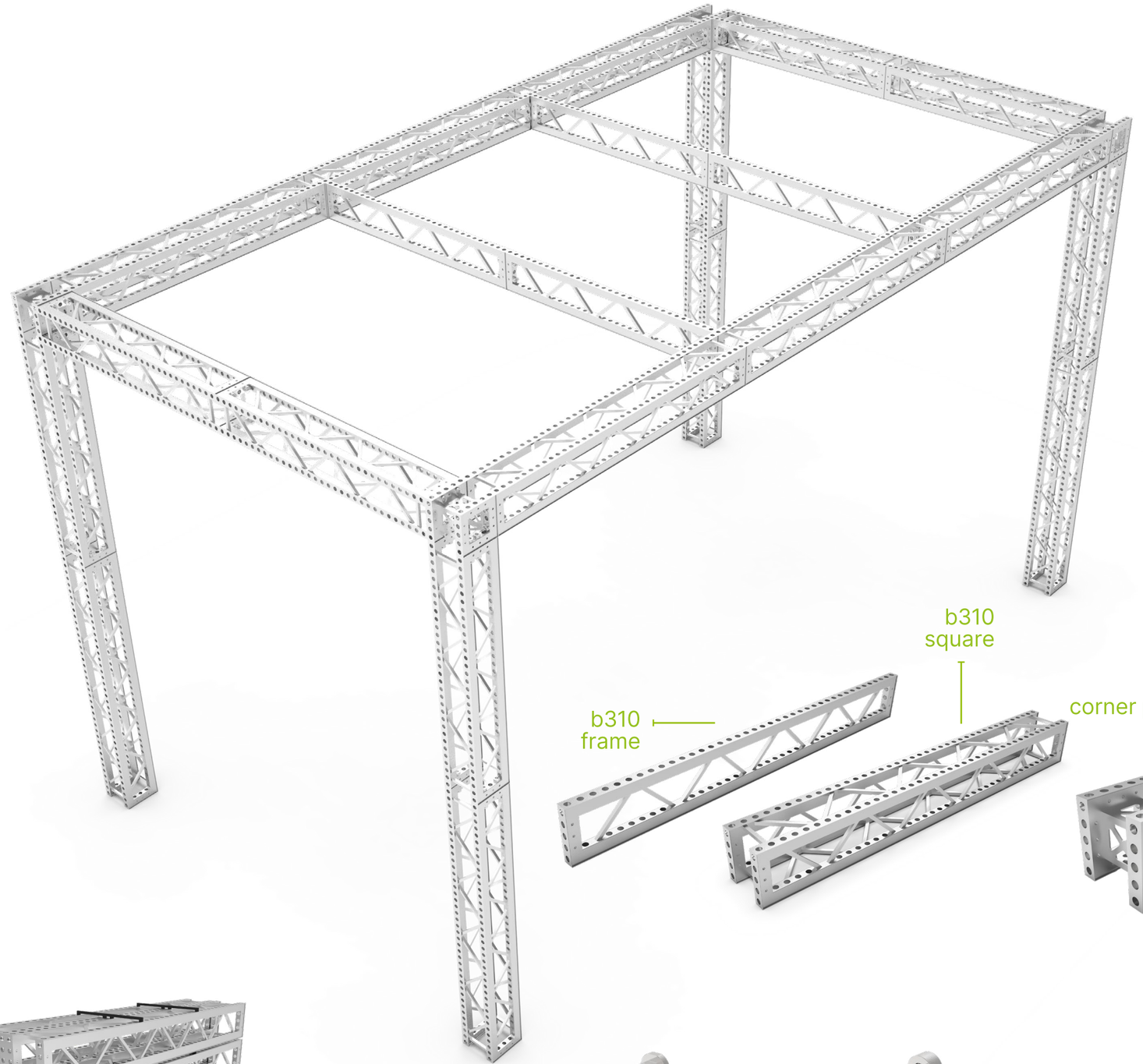
b310, beMatrix DNA

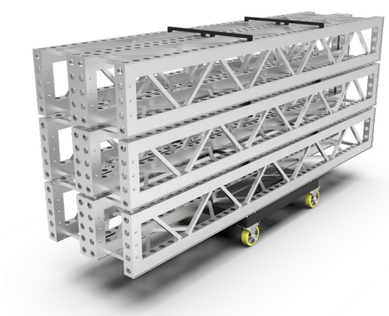
beTruss allows you to **build designs of any size**, no matter how big, with one single (exhibit construction) system. No more worrying about mounting points! Now, you can build your load bearing design with ease, and in no time at all.

As with the b62 frame system, all beTruss dimensions are based on a **62 × 62 mm matrix**., This means that beTruss perfectly integrates with your existing beMatrix frames.

beTruss has the same **modular beMatrix DNA** and all its benefits:

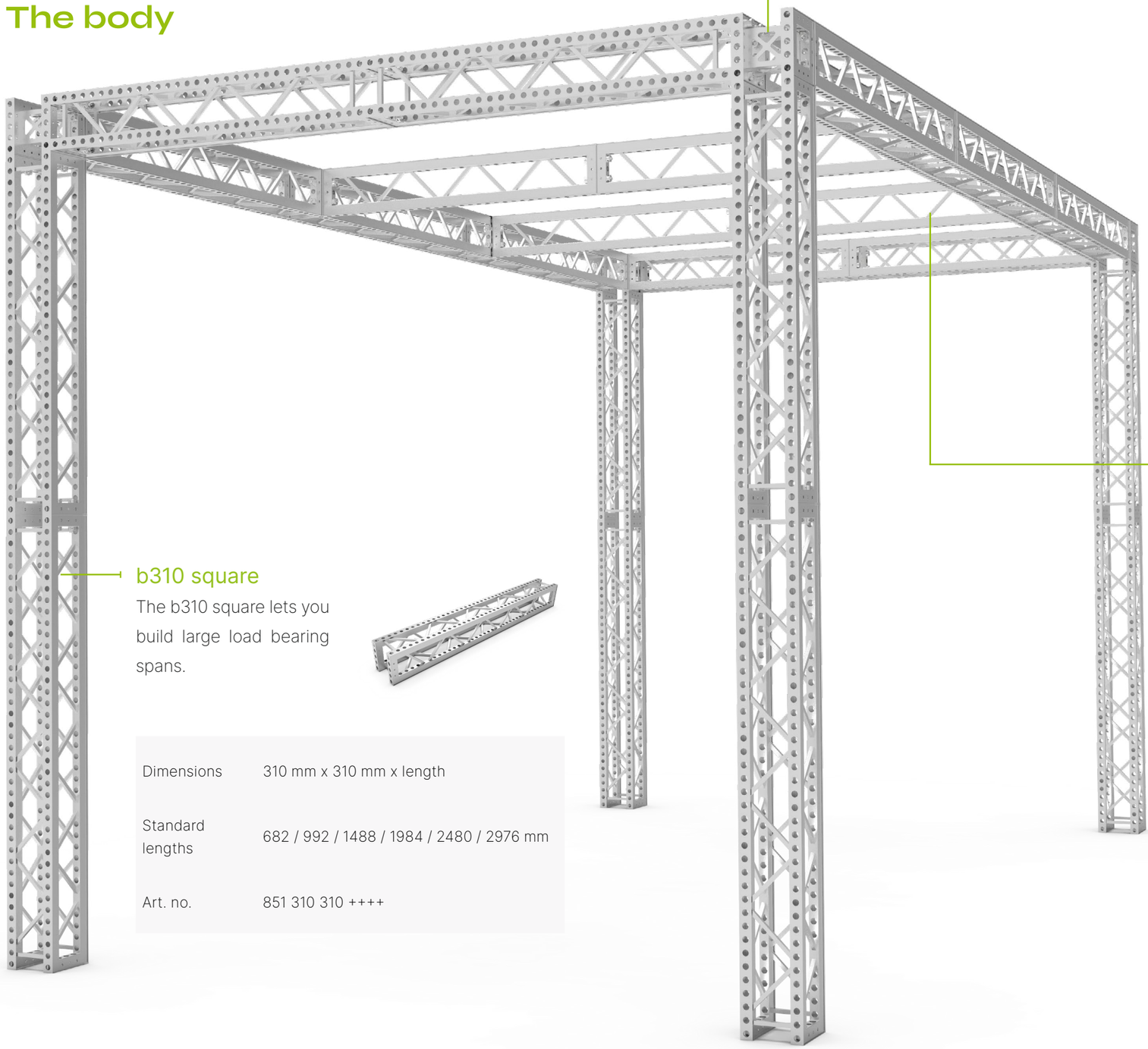
- 62 mm dimensions and D30 holes, enable a perfect integration with the existing beMatrix system (frames, LEDskin®, lightboxes, etc.).
- Both hard panels and textile infills can be attached to beTruss, allowing the enti-re design to have a custom finish.
- Assembly is fast and simple, since you will only need one system to set up the entire structure.





Structure

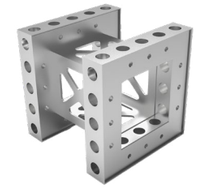
The body

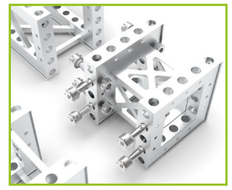


b310 corner piece

Corners and cross connections are made using the b310 corner piece. The corner piece is connected by means of two toolless connectors for large or small holes.

Dimensions	310 mm x 310 mm x 310 mm
Art. no.	852 310 310 310





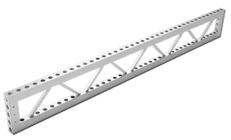
b310
180° connector

b310
90° connector

b310 frame

The b310 frame is designed to provide the necessary load bearing capacity to the structure.

Dimensions	62 mm x 310 mm x length
Standard lengths	682 / 992 / 1488 / 1984 / 2480 / 2976 mm
Art. no.	850 62 310 ++++



b310 square

The b310 square lets you build large load bearing spans.

Dimensions	310 mm x 310 mm x length
Standard lengths	682 / 992 / 1488 / 1984 / 2480 / 2976 mm
Art. no.	851 310 310 ++++

b310 180°
connector
with automatic
locking system

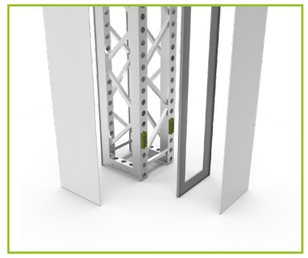
The skin

LEDskin®

beTruss is compatible with the full beMatrix range. It is therefore no surprise that LEDskin® can perfectly be integrated into the structure.

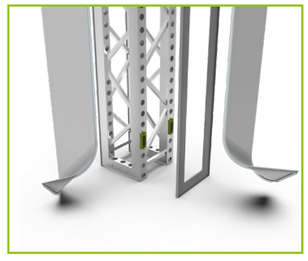
Panel

The b310 range can be finished with 3mm thick panels.

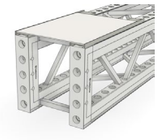


Seamless textile

For a seamless result, you can cover the sides with textile.



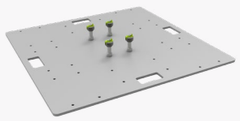
The b310 square & b310 corner piece can be fully finished with panels and textile by using the perfect cover on 2 of the 4 sides.



The add-ons

Baseplate
(use to compensate height difference)

Art. no. 901 28 0706

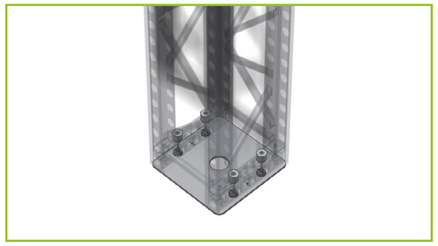


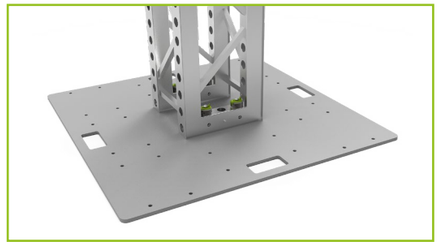
Baseplate
(use as a standalone for extra stability)

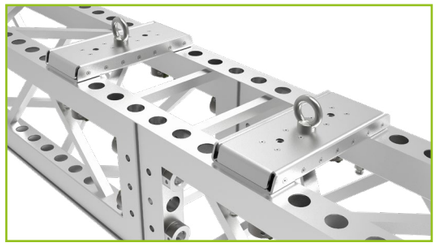
Art. no. 901 28 0707

Hanging bracket
(b310 square)

Art. no. 901 28 0704

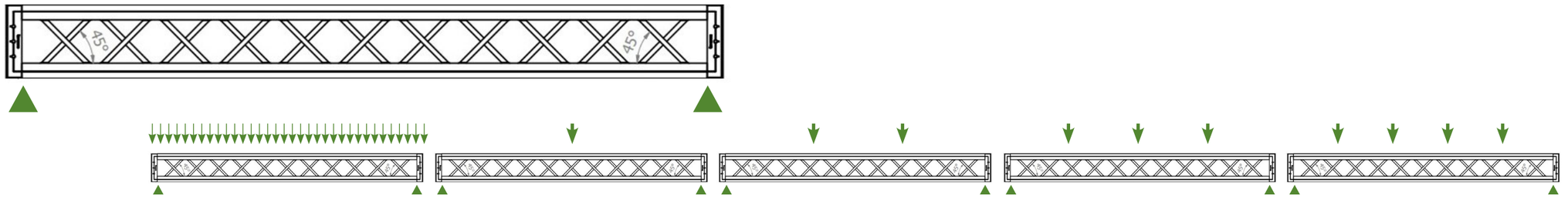






Target load tables

b310 square, direction 1



SPAN (m)	UDL (kg/m)	Deflection (mm)	CPL (kg)	Deflection (mm)	TPL (kg)	Deflection (mm)	QPL (kg)	Deflection (mm)	FPL (kg)	Deflection (mm)
3	385.0	2.43	923.3	3.56	560.1	3.27	385.0	3.27	288.7	3.07
4	286.9	7.08	808.1	7.45	505.9	7.76	382.5	8.04	286.9	7.95
5	228.1	11.73	703.1	11.34	455.4	12.24	347.6	12.80	272.6	12.83
6	188.9	16.37	608.2	15.23	408.8	16.72	306.1	17.57	243.6	17.70
7	160.6	24.33	523.6	20.84	365.8	24.41	268.6	24.84	216.9	25.49
8	120.2	32.29	449.2	26.45	326.7	32.09	235.2	32.12	192.4	33.28
9	93.0	40.25	**384.9**	**32.06**	291.3	39.78	205.8	39.39	170.3	41.07
10	74.0	50.85	330.9	39.67	259.6	50.32	180.4	48.96	150.5	51.20
11	60.2	61.45	287.0	47.28	231.8	60.86	159.1	58.53	132.9	61.34
12	48.8	72.06	253.3	54.89	207.7	71.40	141.8	68.09	117.7	71.48
13	41.9	86.74	229.8	68.92	187.3	85.57	128.6	83.68	104.8	84.50
14	35.6	101.4	216.6	82.95	170.7	99.75	119.3	99.26	94.1	97.53
15	30.7	116.1	213.5	96.98	157.9	113.9	114.1	114.8	85.8	110.6

Excluding frequent Use factor (0.85)

UDL: Uniform distributed load / CPL: Center point load / TPL: Tripple point load / QPL: Quarter point load / FPL: Fifthpoint load

- Loading table only valid for static loads
- Loading table only valid for single spans with support at both ends.
- The self weight of the truss is already taken into account
- Loading table are calculated according and in compliance with to European standard (Eurocode EN1990)
- Loading table excluding frequent use factor
- Truss spans can be assembled from different truss lengths
- Loading table & defelections are based on good assembled and aligned connectors
- All static stsytems other than single spans need an individual structural calculation.
  Please contact a structural engineer or beMatrix for assistance.

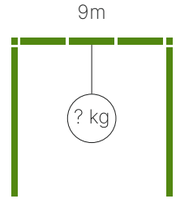
Example

What is the maximum weight & deflection in the middle of the beTruss at a span of 9m?

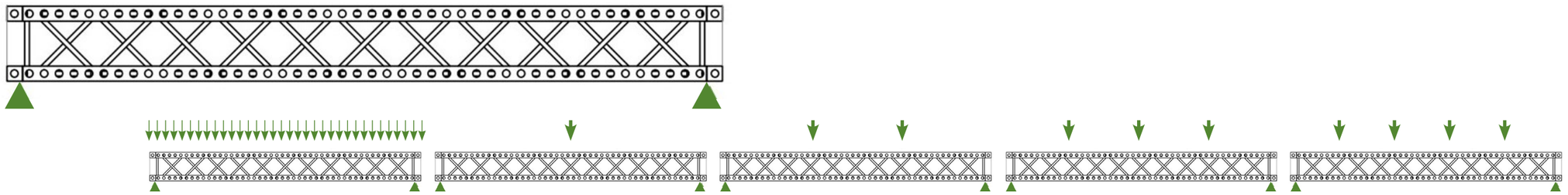
= 384,9kg x safety factor 0,85

= 327,2kg with a deflection of 32,06mm

Less deflection thanks to the use of beTruss.



b310 square, direction 2



SPAN (m)	UDL (kg/m)	Deflection (mm)	CPL (kg)	Deflection (mm)	TPL (kg)	Deflection (mm)	QPL (kg)	Deflection (mm)	FPL (kg)	Deflection (mm)
3	149.7	1.17	419.3	1.93	218.2	1.58	149.7	1.61	112.2	1.54
4	110.4	3.12	335.7	3.46	194.5	3.58	147.3	3.90	110.4	4.04
5	86.9	5.07	268.0	4.98	172.4	5.59	132.5	6.19	103.9	6.53
6	71.2	7.01	213.8	6.50	151.8	7.59	114.7	8.49	91.4	9.03
7	60.0	10.82	170.9	8.82	132.7	11.45	98.4	12.48	79.8	13.49
8	47.1	14.63	137.4	11.14	115.1	15.30	83.7	16.48	69.1	17.94
9	35.9	18.43	111.3	13.46	99.0	19.16	70.7	20.48	59.3	22.40
10	27.2	22.60	90.9	17.39	84.4	25.08	59.2	27.02	50.4	29.68
11	20.7	26.78	74.5	21.32	71.3	31.01	49.4	33.57	42.5	36.97
12	16.0	30.95	60.9	25.25	59.7	36.94	41.2	40.11	35.4	44.25
13	12.6	37.01	48.6	30.69	49.6	45.64	34.5	50.39	29.3	54.48
14	10.0	43.08	36.6	36.12	41.0	54.35	29.5	60.67	24.0	64.70
15	8.0	49.15	23.7	41.56	33.9	63.05	26.2	70.96	19.7	74.93

Excluding frequent Use factor (0.85)

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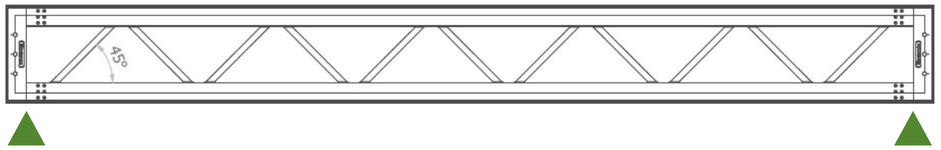
b310 frame



span (m)	UDL (kg/m)	deflection (mm)	cpl (kg)	deflection (mm)
1	716.7	0.5	716.7	1.0
2	356.8	1.2	453.7	1.5
3	138.3	1.8	245.8	1.9
4	70.5	2.9	159.2	2.9
5	41.7	4.1	113.6	3.8
6	27.2	5.2	86.2	4.8
7	19.0	7.2	68.3	6.4
8	13.9	9.2	55.8	8.1
9	10.5	11.2	46.7	9.8
10	8.2	14.8	39.8	12.9
11	6.6	18.4	34.6	15.9
12	5.4	22.0	30.3	19.0

Excluding frequent Use factor (0.85)

UDL: Uniform distributed load / CPL: Center point load

- Loading table only valid for static loads
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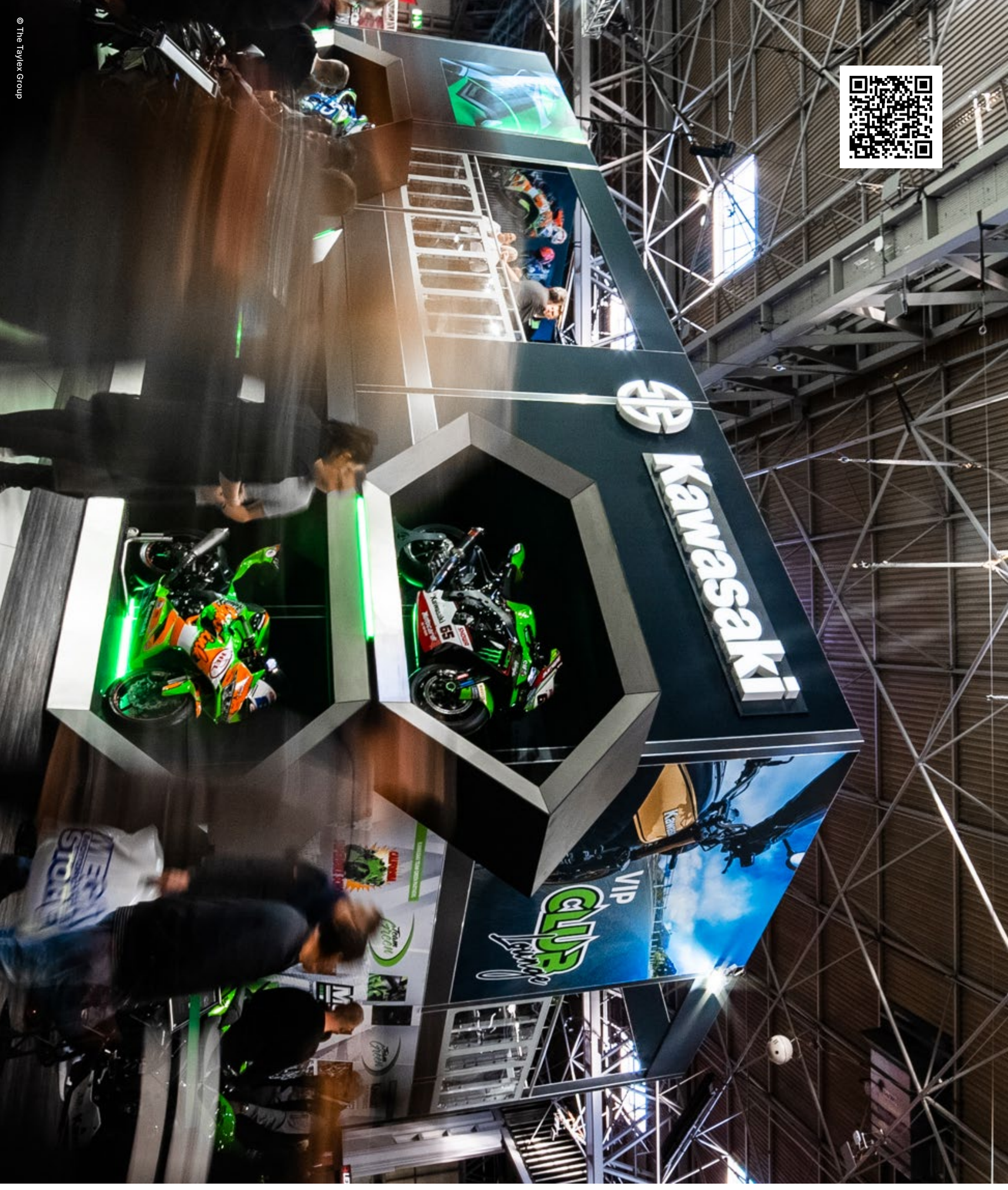
beMatrix
making live communication easier
OUTDOOR_EXPO.
Location des
Pop-Out
vides
ou
avec
aménagements
extérieurs et
intérieurs
Contact:
outdoor-expo.eu
hello@outdoor-expo.eu
Première mondiale
Pop-Out
Le premier module
pop-up gonflable
entièrement
personnalisable et customisé
avec
Be Matrix



05 Double Deck

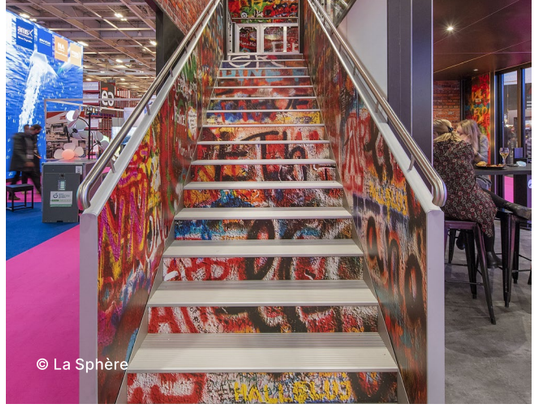
The first “system integrated” Double Deck

Double Deck, beMatrix DNA

A second floor really allows you to get everything out of your booth space. beMatrix’s Double Deck system not only increases your design’s square footage but is also **wholly compatible with existing beMatrix products** (frames, LEDskin®, lightboxes, etc.)! This compatibility gives your design a cohesive look and feel!

The Double Deck structure can be **finished with both panels and textile**, allowing you to finish your entire design.

Stability, safety as well as perfect aesthetic integration are all equally important. We will make sure your design looks impeccable and is compliant with all rules and regulations.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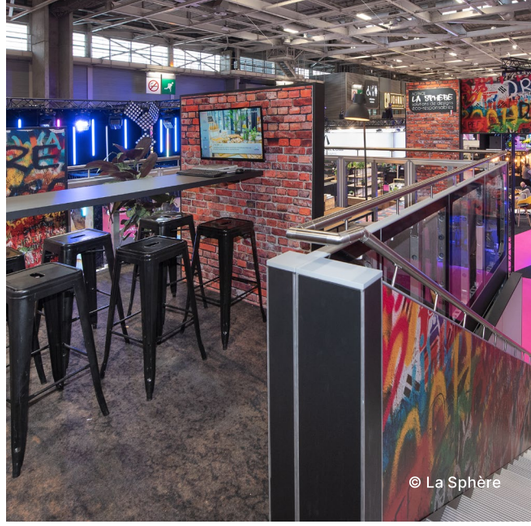
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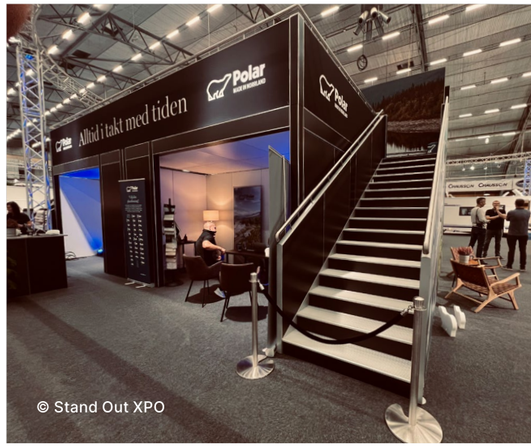

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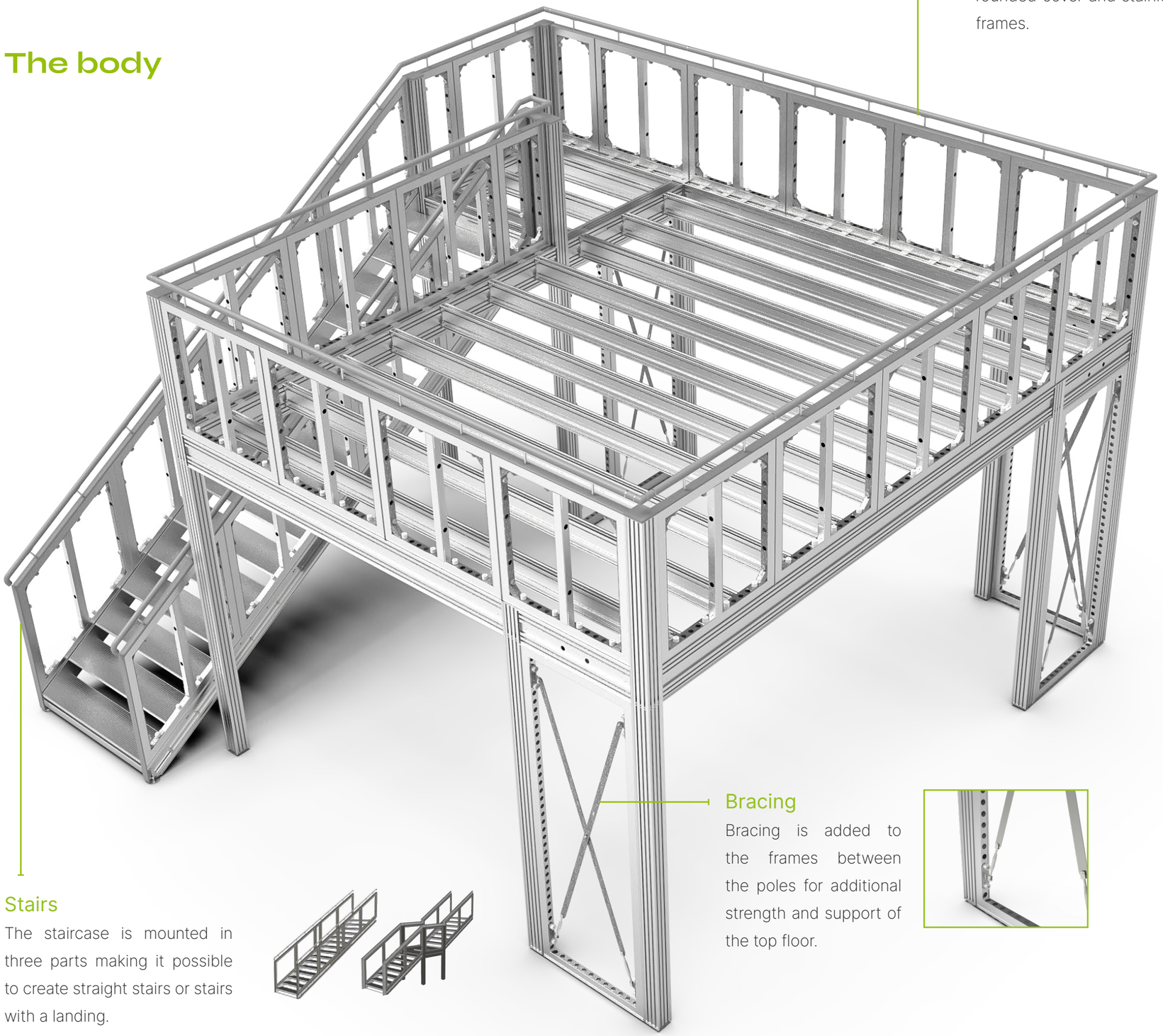
Structure

The body



Railing

Standard b62 frames are used as the railing. Reinforcement brackets are mounted in every corner of the frames for added support. A rounded cover and stainless-steel handrail are added on top of the frames.

Optional:

Spice up your Double Deck with our glass railing solution (excludes the glass itself). The glass railing solution consists of a U-profile attached with connectors. The glass is put into the U-profile.

Stairs

The staircase is mounted in three parts making it possible to create straight stairs or stairs with a landing.

Bracing

Bracing is added to the frames between the poles for additional strength and support of the top floor.

Structure

The Double Deck is created using primary & secondary beams and poles. These beams and poles are easy to connect thanks to a coupling system that helps you avoid the time-consuming fastening of nuts and bolts.

PRIMARY BEAM

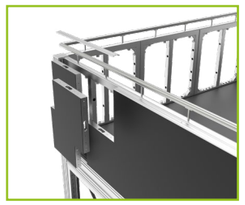
SECONDARY BEAM

POLE

The skin

Finishing the railing

The railing is set back slightly allowing you to finish with LEDskin® tiles, lightboxes, or additional frames.

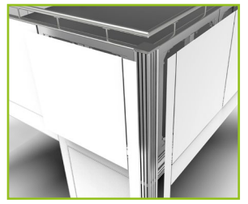


Stair

Both the railing and sides of the staircase can be finished with panels.

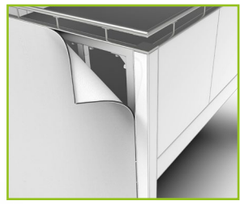
Panel

The Double Deck structure can be finished with 3mm thick panels.



Seamless textile

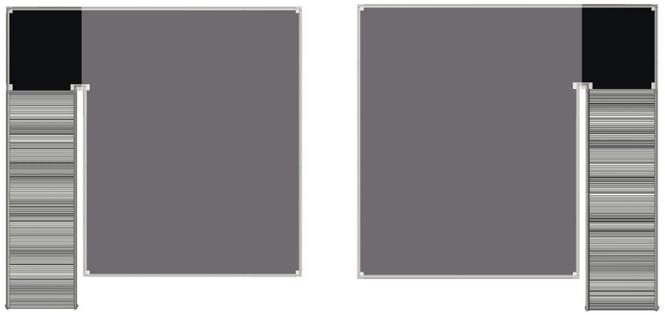
The frames of the Double Deck can be finished with textile infills for a seamless result.

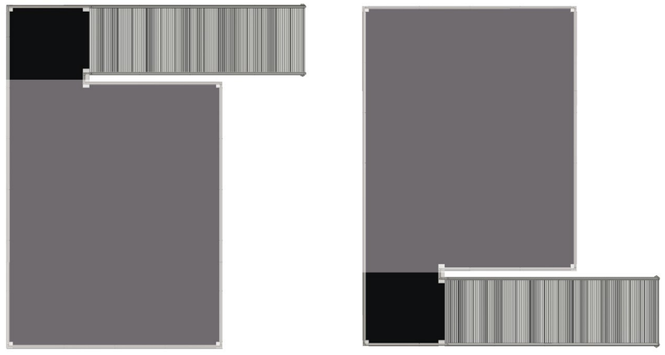


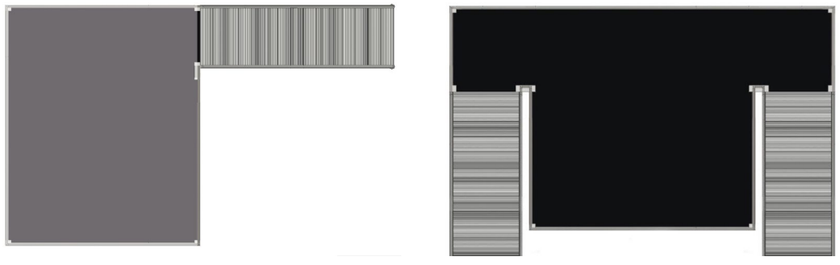
Get inspired!

The stairs

The stairs can be placed on every corner of your floor. Below you will find a visual representation of the various options.





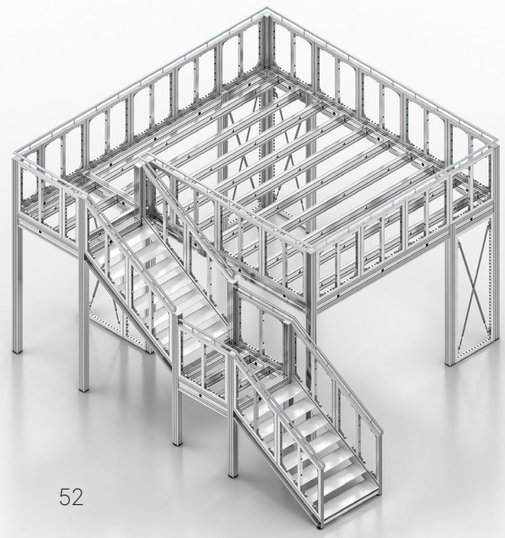


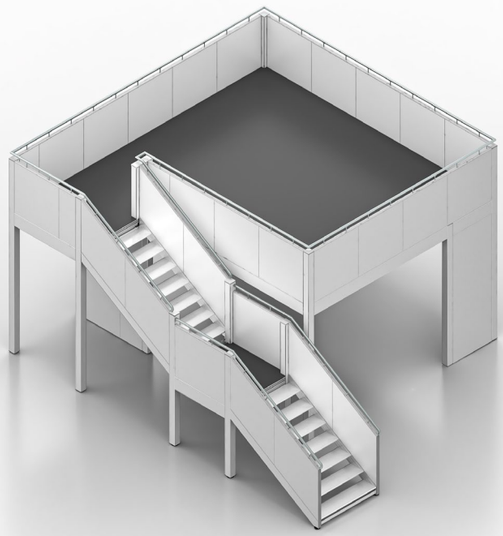
Landing platform

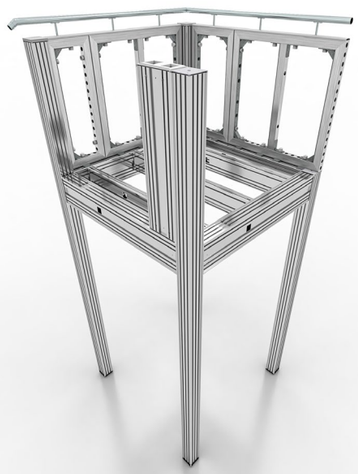
Cover the bottom of the stairs

A set of custom-made b62 frames and parts can be purchased to close the bottom of the Double Deck stairs.


beMatrix







The add-ons

Transport your Double Deck profiles with ease using these optional add-ons:

Steel cart

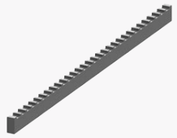
This steel cart can be used to stack the beams and poles (no staircase). For transporting the staircase we recommend using a pallet.

Double Deck cart

Profile separator & bottom support

Want to build your own case for transportation? With these separators you can!

Profile separator



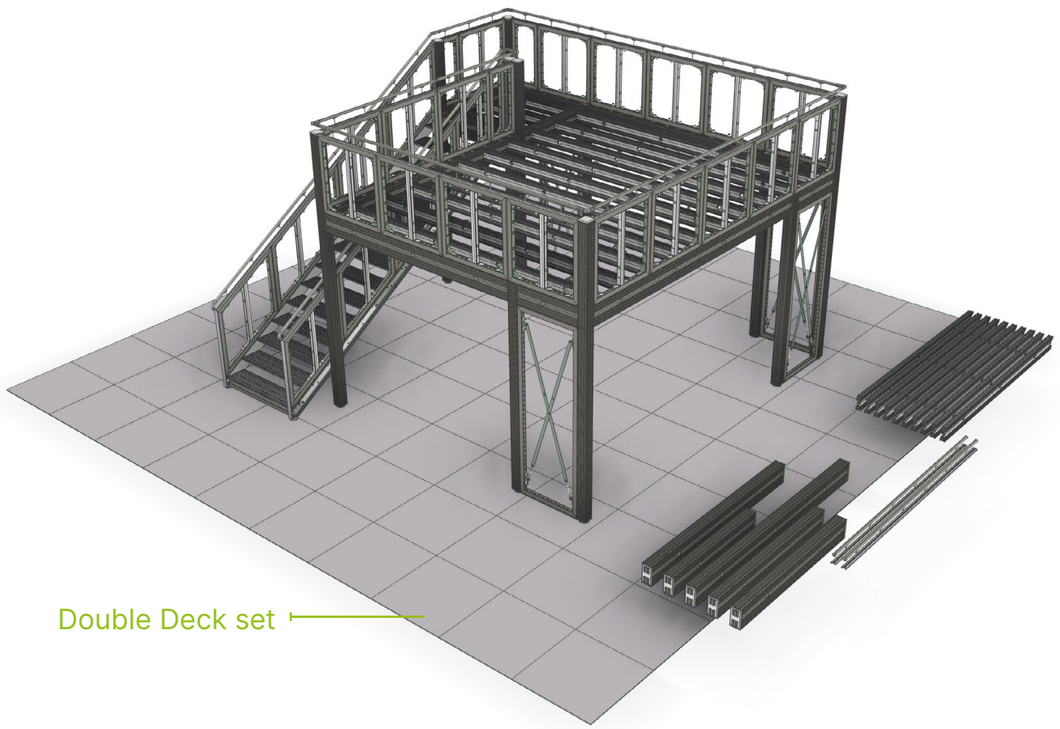
Bottom support

Finish

We do not provide a finished floor or ceiling. However, you can finish the floor using **chipboard (minimum 22 mm thick)**. You can also finish the ceiling using standard b62 frames mounted underneath. You can even close off the lower part of the Double Deck with frames to create extra meeting space.

Double Deck set

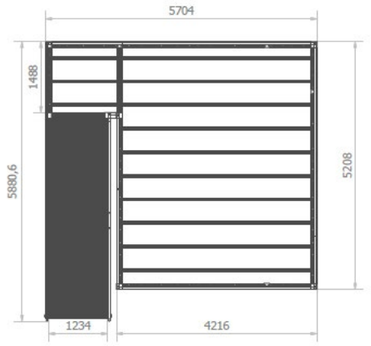
Profiles, poles, beams, floor brackets, railings and a staircase: we offer you entire sets which can be easily integrated into your design. With the **Double Deck set** you can create up to six different configurations.
Other configurations on request, please contact us for more information.



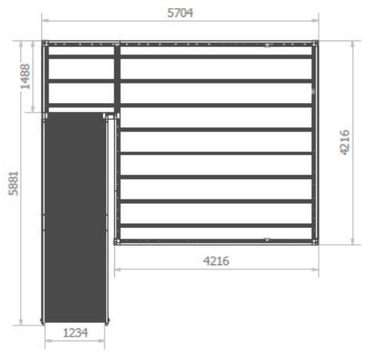
Double Deck set

Configurations

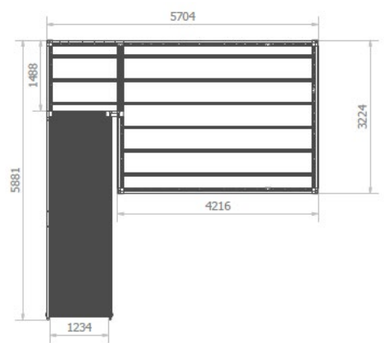
Configuration 1



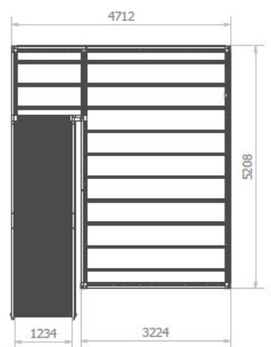
Configuration 2



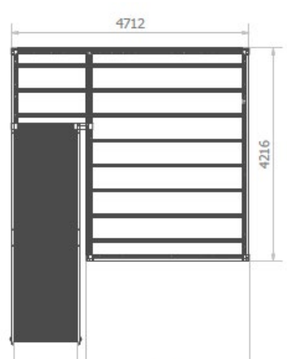
Configuration 3



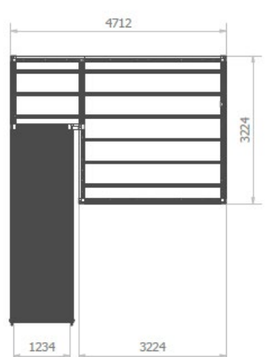
Configuration 4



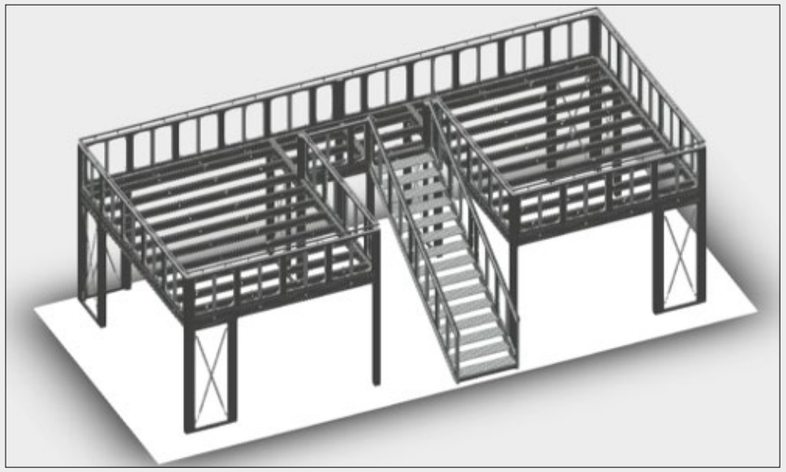
Configuration 5

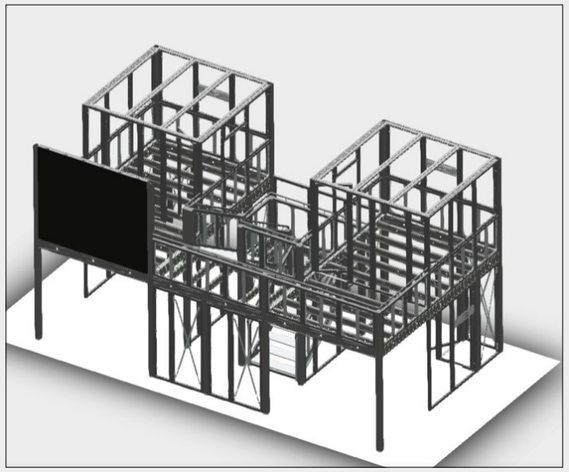


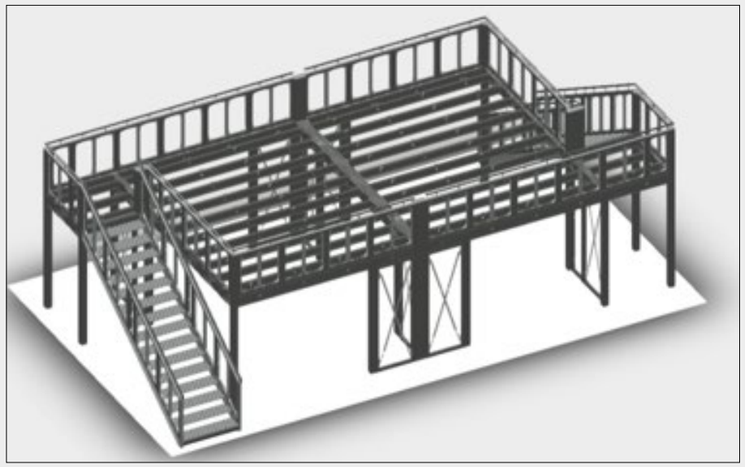
Configuration 6



Combine multiple sets for an outstanding result!







support

90


901 28 0341 ECO
4 PIN 90° D30 ECO
901 28 0342 ECO
4 PIN 180° D30 ECO
901 28 0344 C
4 PIN 60° D30 DMK

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Logistics

The beMatrix frame system is lightweight making it ergonomic and eco-friendly. This lightweight design makes it easy for the exhibit or event builder to move frames and keep CO2 emissions low during shipping or transport.

MybeMatrix

Technical leaflets & 3D files

MybeMatrix gives you access to all of our how-to's, technical leaflets, and step-by-step guides. Our full 3D library is also available!

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Scan and discover our bePartners.

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