

XTREME SOLUTIONS

BETRUISS

be anything.

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beTruss

Patented design

b310, beMatrix DNA

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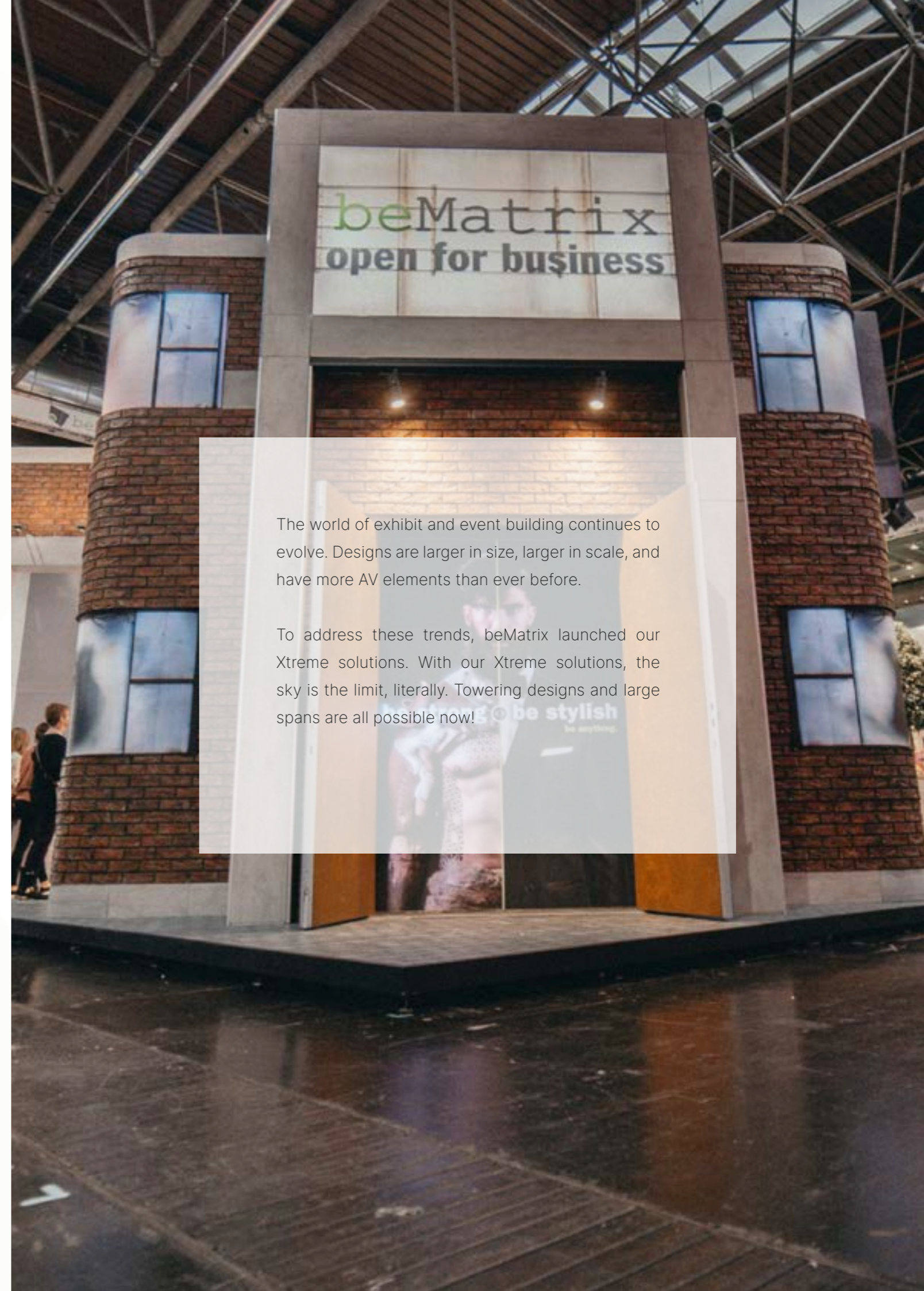
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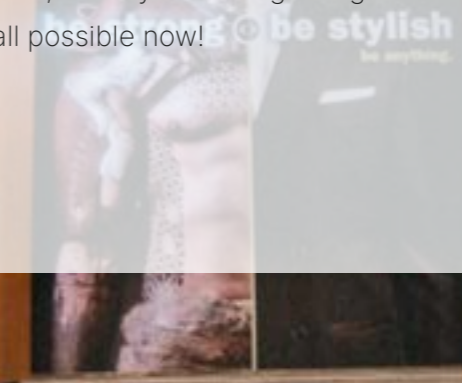
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beMatrix
open for business

The world of exhibit and event building continues to evolve. Designs are larger in size, larger in scale, and have more AV elements than ever before.

To address these trends, beMatrix launched our Xtreme solutions. With our Xtreme solutions, the sky is the limit, literally. Towering designs and large spans are all possible now!





boetruss

Patented design

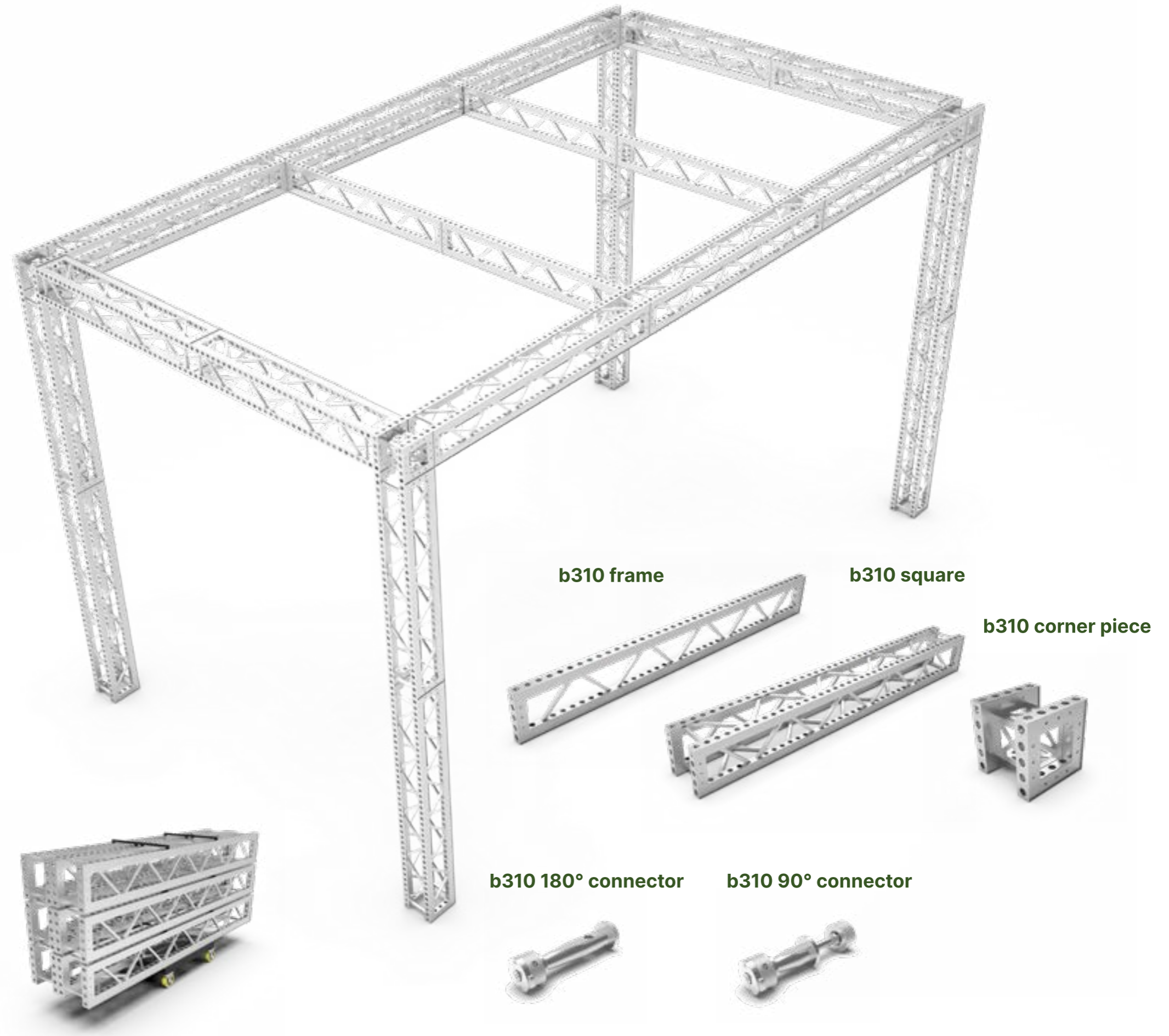
b310, beMatrix DNA

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

As with the rest of our b62 frame system, all dimensions of beTruss are based on 62mm matrix. This means **your existing beMatrix frames can be easily used with beTruss**, and connected with our specially designed load bearing connector.

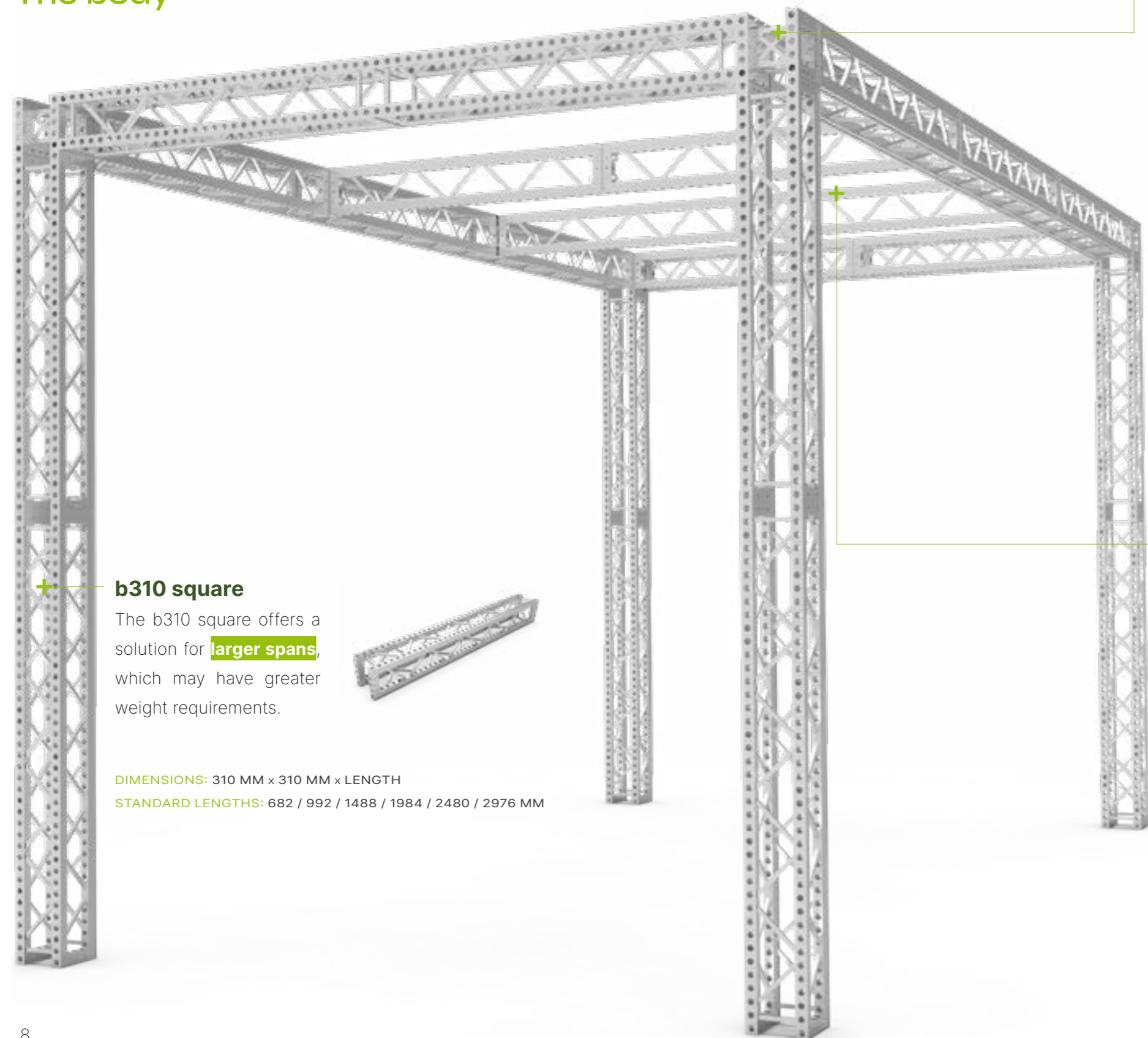
beTruss has the same modular beMatrix DNA and all its benefits:

- 62 mm dimensions and D30 holes, enabling a perfect integration with the existing beMatrix range (frames, LEDskin®, lightboxes, etc).
- Both panels and textile can be attached to the b310 range, allowing the entire design to get the same finish.
- Faster and easier build-up.



Structure

The body



+ b310 square

The b310 square offers a solution for **larger spans**, which may have greater weight requirements.



DIMENSIONS: 310 MM x 310 MM x LENGTH

STANDARD LENGTHS: 682 / 992 / 1488 / 1984 / 2480 / 2976 MM

b310 corner piece

Corners and cross connections are made using the b310 corner piece. The connection to the corner piece is made by two **toolless connectors** for large or small holes.

DIMENSIONS: 310 MM x 310 MM x 310 MM



b310
180° connector



b310
90° connector

b310 frame

The b310 frame is designed to provide necessary bearing capacity to your design, while remaining within 62 x 62 matrix of the beMatrix system.



DIMENSIONS: 62 MM x 310 MM x LENGTH

STANDARD LENGTHS: 682 / 992 / 1488 / 1984 / 2480 / 2976 MM

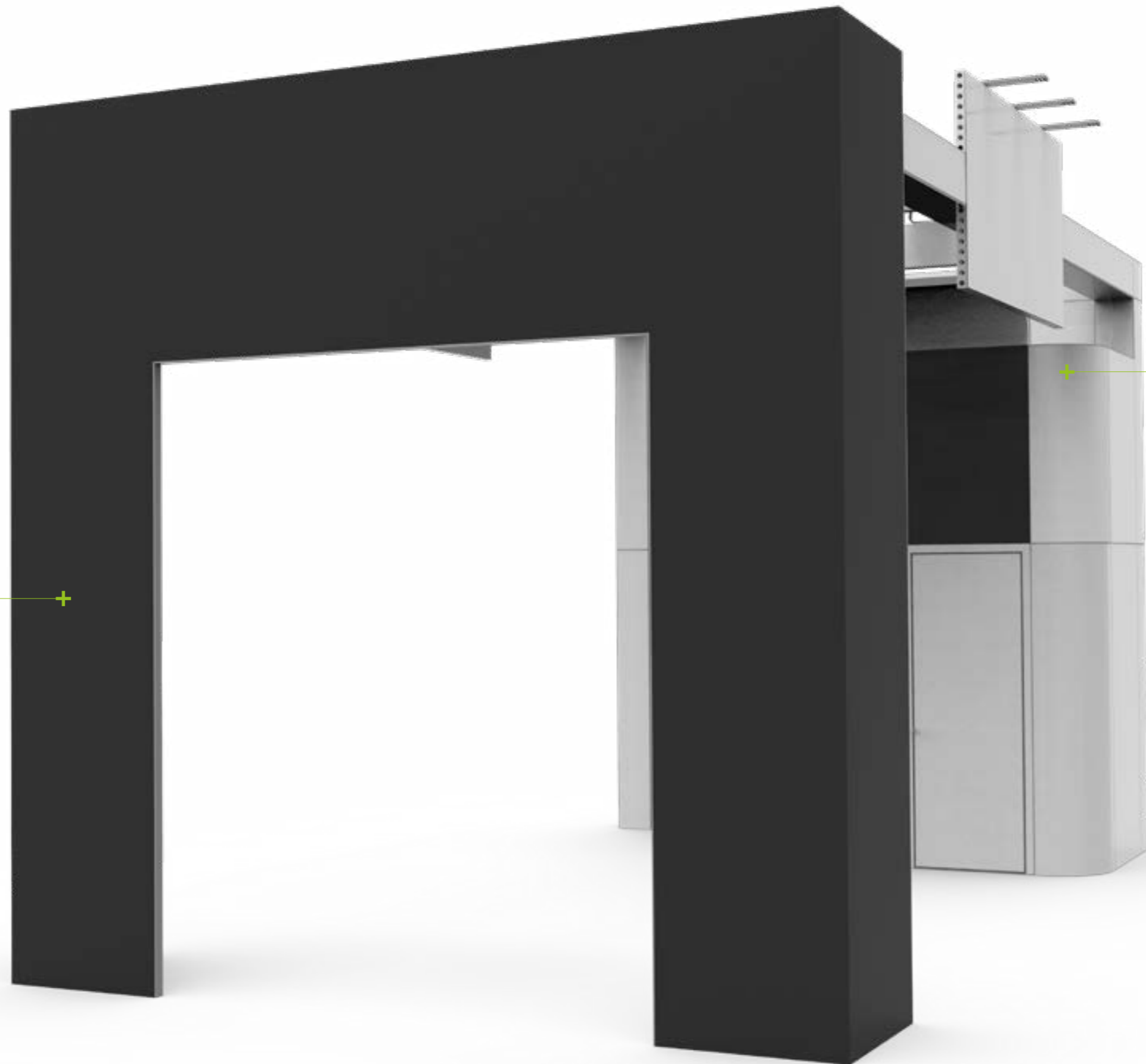


b310 180° connector with
automatic locking system

The skin

LEDskin®

beTruss is compatible with the full beMatrix range. This includes LEDskin® which can be perfectly integrated into the structure



Panel

The b310 range can be finished with hard panel infills.



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.



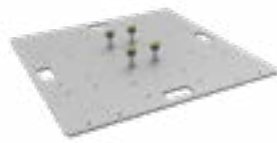
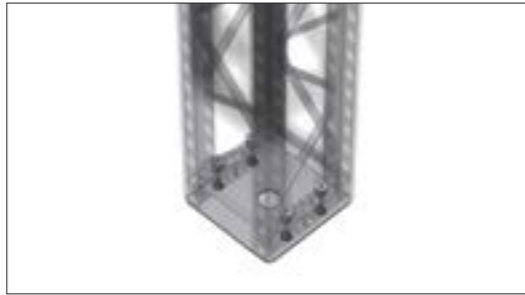
The add-ons

Baseplate

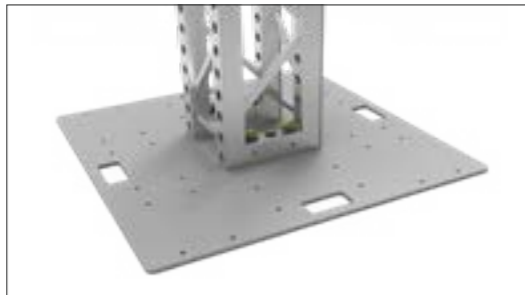
Baseplates are available to add additional stability to the structure.



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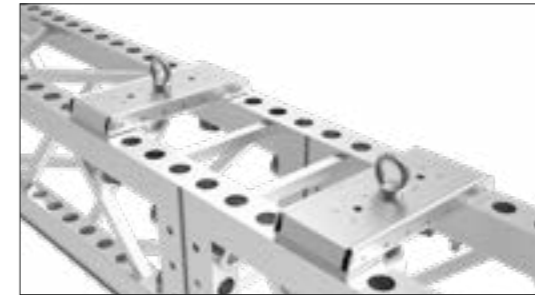


Hanging bracket

Suspension tool to hang the b310 square if necessary.

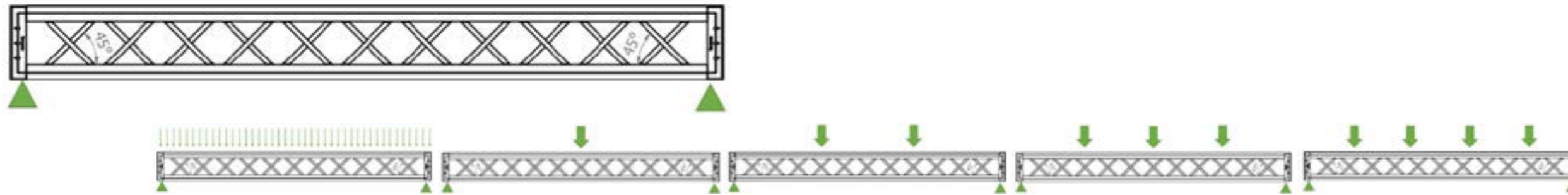


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Target load tables

b310 square, direction 1



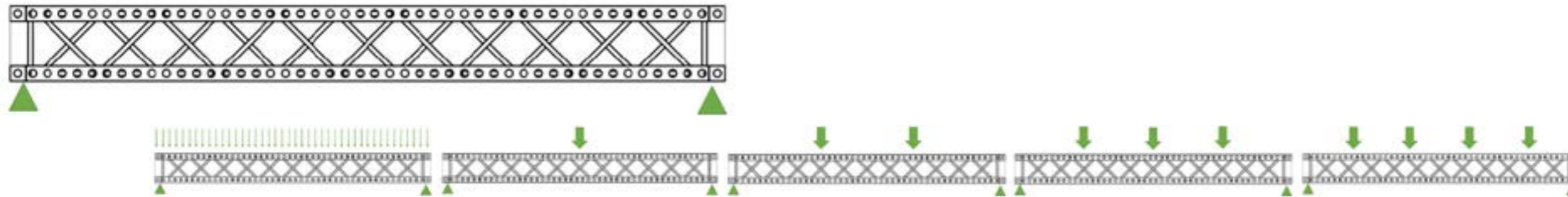
SPAN (m)	UDL (kg/m)	Deflection (mm)	CPL (kg)	Deflection (mm)	TPL (kg)	Deflection (mm)	QPL (kg)	Deflection (mm)	FPL (kg)	Deflection (mm)
3	385	0.25	923.3	0.37	560.1	0.34	385	0.35	288.7	0.33
4	286.9	0.74	808.1	0.8	505.9	0.85	382.5	0.9	286.9	0.91
5	228.1	1.23	703.1	1.23	455.4	1.36	347.6	1.46	272.6	1.49
6	188.9	1.72	608.2	1.65	408.8	1.86	306.1	2.02	243.6	2.08
7	160.6	2.6	523.6	2.36	365.8	2.86	268.6	3.04	216.9	3.24
8	120.2	3.48	449.2	3.07	326.7	3.86	235.2	4.07	192.4	4.4
9	93	4.36	384.9	3.78	291.3	4.86	205.8	5.1	170.3	5.56
10	74	5.68	330.9	4.9	259.6	6.52	180.4	6.93	150.5	7.63
11	60.2	6.99	287	6.03	231.8	8.18	159.1	8.76	132.9	9.69
12	49.8	8.3	253.3	7.15	207.7	9.84	141.8	10.58	117.7	11.76
13	41.9	10.31	229.8	9.52	187.3	12.68	128.6	13.96	104.8	15.36
14	35.6	12.32	216.6	11.89	170.7	15.51	119.3	17.34	94.1	18.96
15	30.7	14.33	213.5	14.26	157.9	18.34	114.1	20.72	85.8	22.57

Excluding frequent use factor (0.85)

UDL: Uniform distributed load / CPL: Center point load / TPL: Triple point load / QPL: Quarter point load / FPL: Fifth point 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 is calculated according and in compliance with the European standard (Eurocode EN1990)
- Loading table excluding frequent use factor
- Truss spans can be assembled from different truss lengths
- Loading table & deflections are based on good assembled and aligned connectors
- All static systems other than single spans need an individual structural calculation. Please contact a structural engineer or beMatrix® for assistance.

b310 square, direction 2



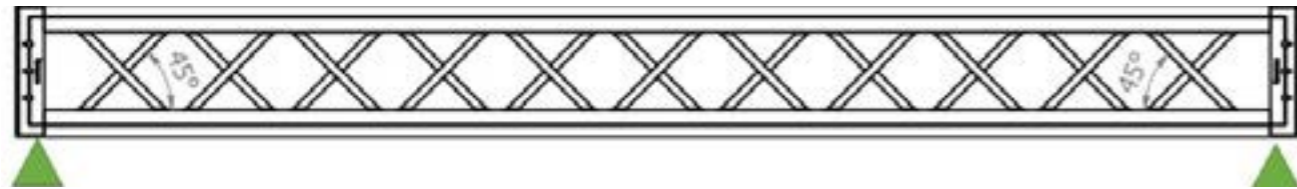
SPAN (m)	UDL (kg/m)	Deflection (mm)	CPL (kg)	Deflection (mm)	TPL (kg)	Deflection (mm)	QPL (kg)	Deflection (mm)	FPL (kg)	Deflection (mm)
3	149.7	0.12	419.3	0.2	218.2	0.17	149.7	0.17	112.2	0.17
4	110.4	0.33	335.7	0.37	194.5	0.4	147.3	0.44	110.4	0.46
5	86.9	0.53	268	0.54	172.4	0.63	132.5	0.71	103.9	0.74
6	71.2	0.74	213.8	0.71	151.8	0.86	114.7	0.98	91.4	1.03
7	60	1.16	170.9	1.02	132.7	1.38	98.4	1.56	79.8	1.74
8	47.1	1.59	137.4	1.33	115.1	1.9	83.7	2.15	69.1	2.45
9	35.9	2.02	111.3	1.63	99	2.42	70.7	2.73	59.3	3.16
10	27.2	2.54	90.9	2.2	84.4	3.37	59.2	3.91	50.4	4.58
11	20.7	3.06	74.5	2.76	71.3	4.32	49.4	5.08	42.5	6.01
12	16	3.59	60.9	3.32	59.7	5.27	41.2	6.26	35.4	7.43
13	12.6	4.45	48.6	4.37	49.6	6.99	34.5	8.64	29.3	10.21
14	10	5.31	36.6	5.41	41	8.71	29.5	11.01	24	12.99
15	8	6.17	23.7	6.45	33.9	10.43	26.2	13.39	19.7	15.77

Excluding frequent use factor (0.85)

UDL: Uniform distributed load / CPL: Center point load / TPL: Triple point load / QPL: Quarter point load / FPL: Fifth point load

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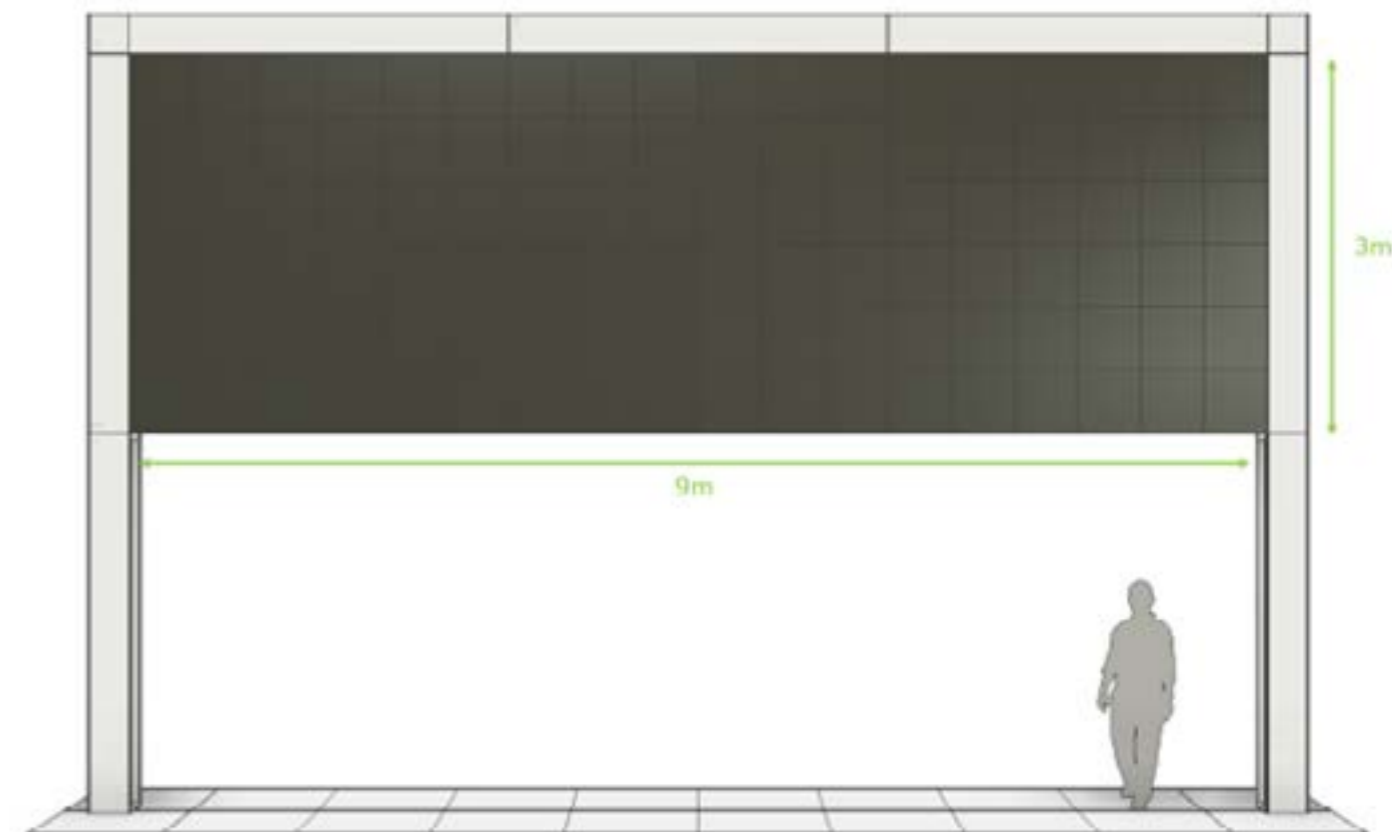
b310 frame



span (m)	UDL (kg/m)	deflection (mm)	cpl (kg)	deflection (mm)
1	716.7	0.5	716.7	1
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	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	30.3	19

Example

beTruss lets you build with less deflection!
An example: 9 M Span with max UDL = 5 MM



UDL: Uniform distributed load / CPL: Center point load

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Inspiration



The 8 beMatrix principles



Quality guaranteed

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



Top finishing

The beMatrix system comes with a large range of tools and accessories to finish your exhibit or event exactly the way you want. With 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 design built with beMatrix combines the benefits of a modular system with the possibilities of a made-to-measure solutions. Almost any shape, contour and construction is possible and can easily be created. One single frame allows you to create all different kinds of design concepts.



Lightweight

The aluminum frame system is lightweight, ergonomic and eco-friendly. With our system, your transportation costs and CO2 emissions remain low.



Fast

Assembly and disassembly of the beMatrix system takes hardly any time. Its lightweight, simplicity and tool free assembly save loads of time, leaving you space to focus on the finishing details of your design.

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 design 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 aluminum and is 100% recyclable and reusable without any quality losses.



be strong  **be stylish**
be anything.

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