
SIXTY82™
2023/24
The New Original

The New Original

Give people the tools, and they will build incredible stuff.

That is what it is about, and what it has always been about. We started this journey way back in 1982, creating the worlds first modular aluminium trussing system. That invention, and everything that has followed, has been driven by recognising the needs and demands of a fledgling industry that has since become a global phenomenon – the live events.
For us, this means facilitating the build and rebuild of literally thousands of structures every year, and the according stories of excitement, emotion and joy that are so fundamentally human. So for us that defines it, the need to innovate, to enable and ultimately to continue working towards our end goal: to help you build incredible stuff.

Some history. And the future.

Our founding shareholders all share a connection, back in the early days of the phenomenon that is aluminium trussing. Pioneers and visionaries, together responsible for countless innovations that have framed the landscape of todays marketplace. A casual discussion in Leeds, UK, brought together a few of those bright minds, separated by the passing of time. They started with a simple question – how would we do this better? Cappuccino's were consumed, and some thoughts were sparked, with the kind of spark that is hard to extinguish. A simple conclusion; what was missing, was passion, and simplicity of purpose that comes with that. Oh, and the right team, a combination of all the experience and lessons learned, with young, dynamic people to drive the future forward. And so the formula for SIXTY82 was discovered...

Bringing together over 100 years of entertainment industry leadership of our shareholders, the company is a British, Dutch and French alliance designed specifically to bring a fresh view in to the market. Headquartered in Drachten, Netherlands, SIXTY82 has every component required to change the way that lightweight structural systems are used. All over again.

Simplicity. By definition, in purchase, in use and in support.

By Definition. In order to do great work, tools need to be a facilitator, not a distraction. They need to work intuitively, be easy to understand yet far reaching in their capability. We call this wide platform modular engineering; behind that we have the strongest technical team in the industry. Their aim is to rationalise products by improving them; reducing inventory, save time and diminish the carbon footprint.

In Purchase. This means that we will have a razor sharp catalogue that is capable of supporting every build: nothing else. In turn, the experience and knowledge of our dedicated SIXTY82 sales centres will work to ensure rapid availability of every component. We fully understand that non delivery could mean no show.

In Use. With form following function and a restless drive to reduce waste, excess and complexity, our products will be better to work with. From our improved load performance and high production accuracy to the world-first RFID integration. We are producing products that are both easier and more reliable in use. This leaves room for imagination and creativity and ensures that your end result will be better than ever before.

In Support. We have learnt over the years that our products can only perform with the right level of support. To that end, we have the strongest technical team in the industry, who are here for you if you need any help, from the start of the project to the very end. They are inspired by working every day to ensure that our partners push the boundaries to do incredible things.

Technical Innovation

Technical innovation is at the heart of what we do. This year, we are delighted to launch with a number of world firsts in the trussing and staging industry. Our commitment is to support our technical team deliver innovations and new product launches every season – all designed into a modular roadmap to allow you to efficiently scale your investment – and build incredible things.

RFID Ready

Together with our partners we have combined multiple new technologies into a borderless product management platform. Our RFID system will allow seamless tracking of products, both physically and in terms of technical and origination data. This will give you the confidence that you are using the right products in the right way, every single time.

TÜV Approved

SIXTY82 is employing some leading figures in the field of temporary demountable structures. These people have been involved since the beginning of this century in developing standards in Europe. Accordingly, all of our products are calculated, independently approved and assessed to the latest standards. Furthermore, as the technical pioneer of many industry leading technologies, SIXTY82 designs its products with integration in mind. This means that technically challenging constructions can be achieved with the same simplicity and peace of mind as the use of individual products.

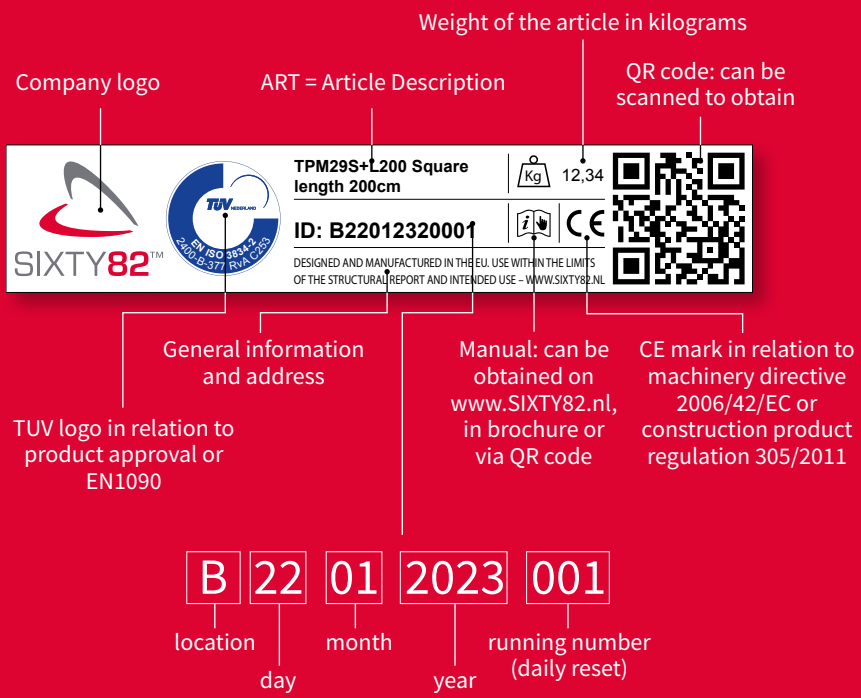
Clear technical information, available anywhere

With the SIXTY82 app, and our roadmap for RFID integration, we will provide a single support platform which will guide you through the use of our products. This means that you can easily retrieve load, construction and compliance information wherever you are, in a simple and intuitive way. The platform will continuously be updated with new innovated functionalities such as our SIXTYView and the 3D visualiser, as we develop new technologies driven by our users.

Platform Simplicity

Our promise. Every product will provide solid, reliable service with a simplicity of application. You will get great advice and find a clearer and more focused product range. This means that you will need less different parts in order to achieve more; saving time, space and costs.

Product **Personality**



In this environment, it is vital that you know both the origin and the capabilities of every product that you work with. However, product specifications, traceability and user data have long been a cumbersome for companies and individuals working in this industry. Until now. We believe that simple, accurate information is a cornerstone of safe building. Accordingly we are proud to launch a suite of tools which centralise data and facilitate easy reference, either physically or digitally, at all times. Our Product Personality system, gives a unique identification to every product and links data about its specific manufacturing process, and TUV certifications. This is unified by an online database of component information and user manuals, and tied to each individual SIXTYTag. Meaning you have multiple ways to get all of the up to date information of the product and its use, anywhere and any time.

SIXTY**Tag**

The functionality of our Product Personality system is further enhanced with the SIXTYTag – which is standard on every section of trussing that we produce. This unique development of RFID technology combines a special tag with specific extrusion and mounting design. As a result it is optimised to maximise reading accuracy. It is used within SIXTY82 for the management of stock and designed to facilitate open integration with other systems, enabling the growth of digital asset tracking. We have a roadmap for the development of this unique technology with enhanced functionalities such as EN inspection management and global stock with real-time availability.

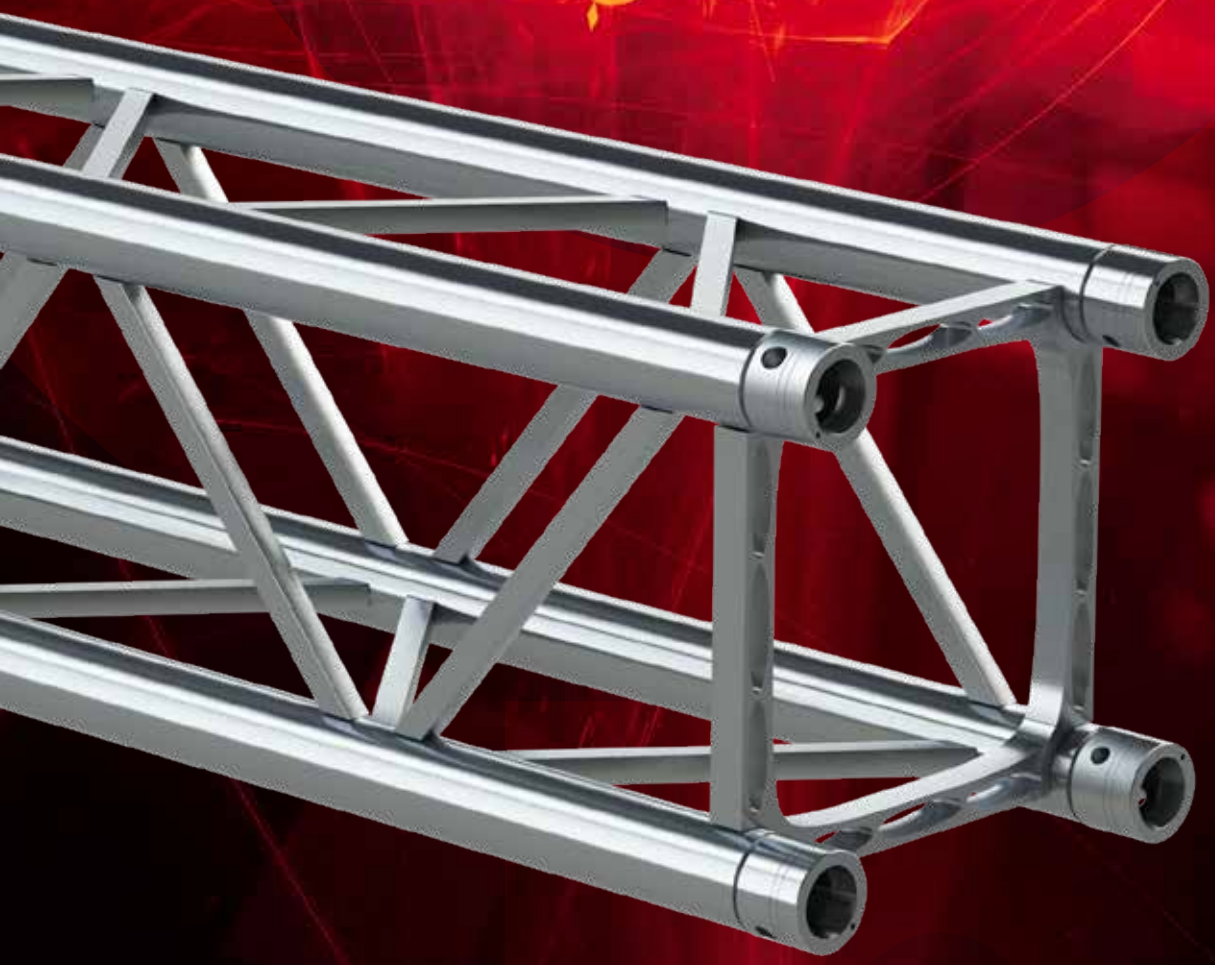
Photogrpher: Ca Greenwood

Content

SIXTY82™

[TPM]

TRUSS SERIES



WORLDWIDE PATENT

WE MADE IT FROM ONE PIECE

A **REVOLUTIONARY** DESIGN

Introducing the TPM Truss Series by SIXTY82 – the most revolutionary aluminum truss on the market!
Our team at SIXTY82 has spent countless hours researching and developing the perfect aluminum truss, and we are thrilled to finally unveil the TPM Truss Series.

What sets our truss apart from all others is its strength.
We've designed it to be up to 25% stronger, ensuring that your structures will be able to withstand even the most demanding conditions.
And our truss is more than just strong – it's also versatile. It can be used for a wide range of applications, from small events and exhibitions to large-scale concerts and festivals. And with its sleek, modern design, it will add a touch of sophistication to any setting.

Don't just take our word for it – try the TPM Truss Series for yourself and experience the difference.
We're confident that once you do, you'll never go back to using any other truss.

UP TO **25% STRONGER**

BOUNCE AND **SMASH PROOF**

PERFECT FIT

100% INTER**CHANGEABLE**

EASY TO PLACE **LIGHTING FIXTURES** BECAUSE OF END FRAMES

REDESIGNING THE STANDARD

At Sixty82 we have set our self the challenge to re-invent the most used truss type, the M29 Series. The goal was to create an evolution on the standard truss, with beneficial properties over the current M29 Series, while remaining fully interchangeable with the current series.

To achieve these unique properties, we have put countless hours in researching the best solutions. There have been two main innovations to achieve the improved properties.

1

Re-designed diagonal braces

The improved design of the diagonal braces helps to increase the strength and stability of the truss system. By optimizing the shape and dimensions, the diagonal braces are able to provide better support and withstand higher forces. This helps to improve the overall strength and performance of the truss, making it more effective at supporting heavy loads.

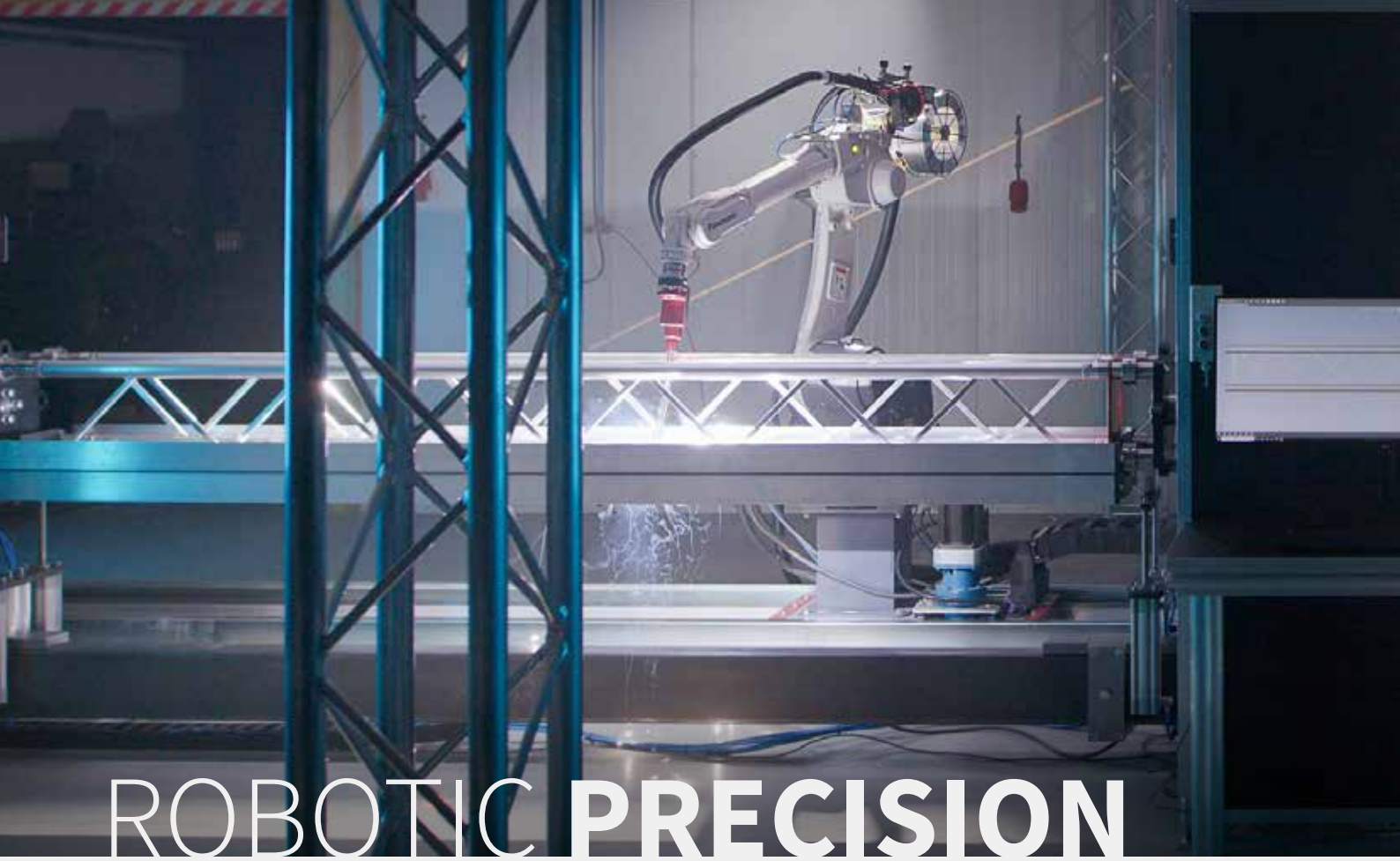
2

Extruded end frame

The use of the extruded end frame contributes to the improved strength and performance of the truss system. By using extruded end frames, the TPM Truss is able to withstand more load without deforming or failing.

In addition to the improved strength, the TPM Truss Series is 100% square and has a perfect fit. This is because the extruded end frames are more precise and uniform in shape, which allows them to more easily and securely attach to other truss components. This can help to improve the stability and strength of the overall truss system, and reduce the risk of failure due to poor connections.

Finally, the removal of the end diagonal allows the inside of the truss to be used for storage and makes it very easy to place uplighters in the truss without the end diagonals interfering.



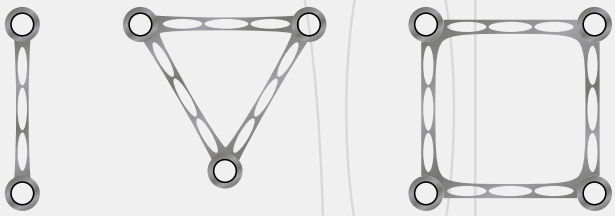
ROBOTIC **PRECISION**

But It's more than just robotizing

At our company, we have gone above and beyond to optimize the production of our TPM truss. Instead of simply robotizing the existing design, as many others do, we have taken a holistic approach to improving our production process. We have not only implemented advanced robotics technology, but we have also adapted the design of the truss to fit the robotized production process as perfectly as possible.

This unique approach has allowed us to achieve maximum output and produce a top-quality product. Our commitment to innovation and optimization has helped us offer some of the shortest lead times in the market, making us a reliable and efficient choice for our customers. We have a team of highly skilled professionals in-house who have the knowledge and expertise to design and maintain both the truss and the robot installation, ensuring that we are always producing the best possible product.

MAXIMUM OUTPUT AND PRODUCE A TOP-QUALITY PRODUCT



TPM Spigot

An additional key improvement we have made to our TPM truss sytem is the change in alloy for the truss spigots. By switching to a stronger alloy, we have been able to increase the strength of the truss.
The new spigot is easily distinguishable from the old spigot because of the changed recessed identification line. These new spigots, along with other optimizations in our production process, have allowed us to offer a product that is up to 25% stronger and more reliable than ever before.

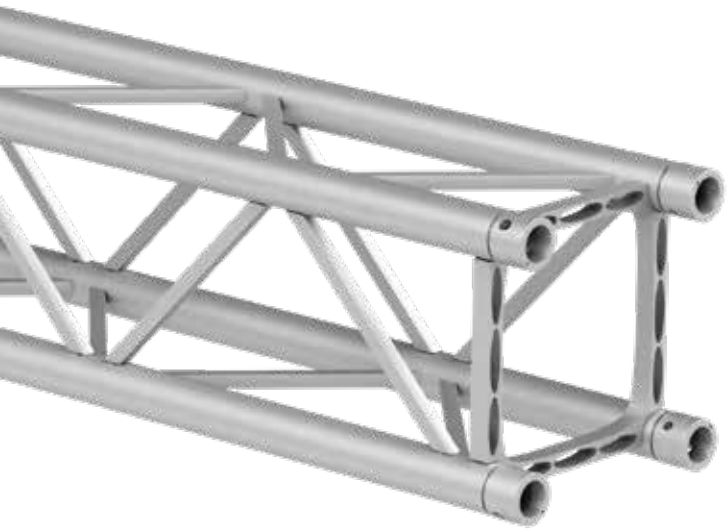
202058 Spigot Model TPM03
202059 Spigot TPM04 M8 Thread

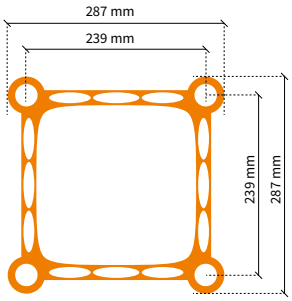
INTERCHANGEABLE

With 100% backwards interchangeability, the TPM truss can be seamlessly integrated into any M29 series setup without any problems. In cases where both truss types are used, customers can simply use the loading tables of the M29 truss for safe and reliable operation.

This backwards interchangeability means that our customers can enjoy all the benefits of the new TPM truss without having to worry about compatibility issues. It's the perfect solution for anyone looking to expand their M29 series and take advantage of the latest innovations in truss technology.

SEAMLESSLY INTEGRATED INTO ANY M29 SERIES





6.4 kg/m

RFID READY

M

P.142

ALU/BLACK

Square - TPM29S

Code	Length
128501	21 cm
128502	25 cm
128503	29 cm
128504	50 cm
128505	71 cm
128515	75 cm
128506	100 cm
128507	150 cm
128508	200 cm
128509	250 cm
128510	300 cm
128512	400 cm

Load table TPM29S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	2455.0	3	1227.5	4	818.3	4	613.7	4	1227.5	4
4.0	1399.4	13	972.3	17	779.7	16	610.9	17	610.9	17
6.0	985.9	30	695.2	38	526.7	35	419.7	38	377.0	37
8.0	755.7	53	541.1	68	397.4	63	320.2	68	209.5	66
10.0	607.9	83	440.0	106	316.5	98	256.8	106	132.0	103
12.0	504.2	119	368.0	152	260.6	141	212.7	152	89.9	149
14.0	426.7	162	313.8	207	219.4	192	179.8	207	64.5	202
16.0	366.2	212	271.1	270	187.6	251	154.3	270	48.1	264
20.0	276.5	330	207.5	422	140.8	392	116.6	422	28.7	413

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	1231.8	1	2460.8	0.01
1.0	1230.4	12	1227.5	0.09
1.5	880.0	43	816.4	0.30
2.0	698.0	10.8	610.9	0.71
2.5	577.2	21.9	410.9	1.17
3.0	491.0	38.7	290.3	1.73
3.5	426.3	62.4	219.3	2.43
4.0	375.8	94	171.2	3.27

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1783.4	1	914.4	0.1	980.8	0.5
4.0	1703.4	6	903.6	0.5	487.5	3.9
6.0	1184.9	14	653.0	1.2	283.0	11.4
8.0	927.6	25	513.3	2.3	163.7	20.9
10.0	756.1	41	419.5	3.7	107.9	33.6
12.0	632.6	59	351.7	5.3	75.8	49.0
14.0	538.7	79	299.9	7.2	55.6	66.7
16.0	464.4	102	258.9	9.3	42.2	86.2
20.0	352.7	151	197.0	13.8	25.8	144.7

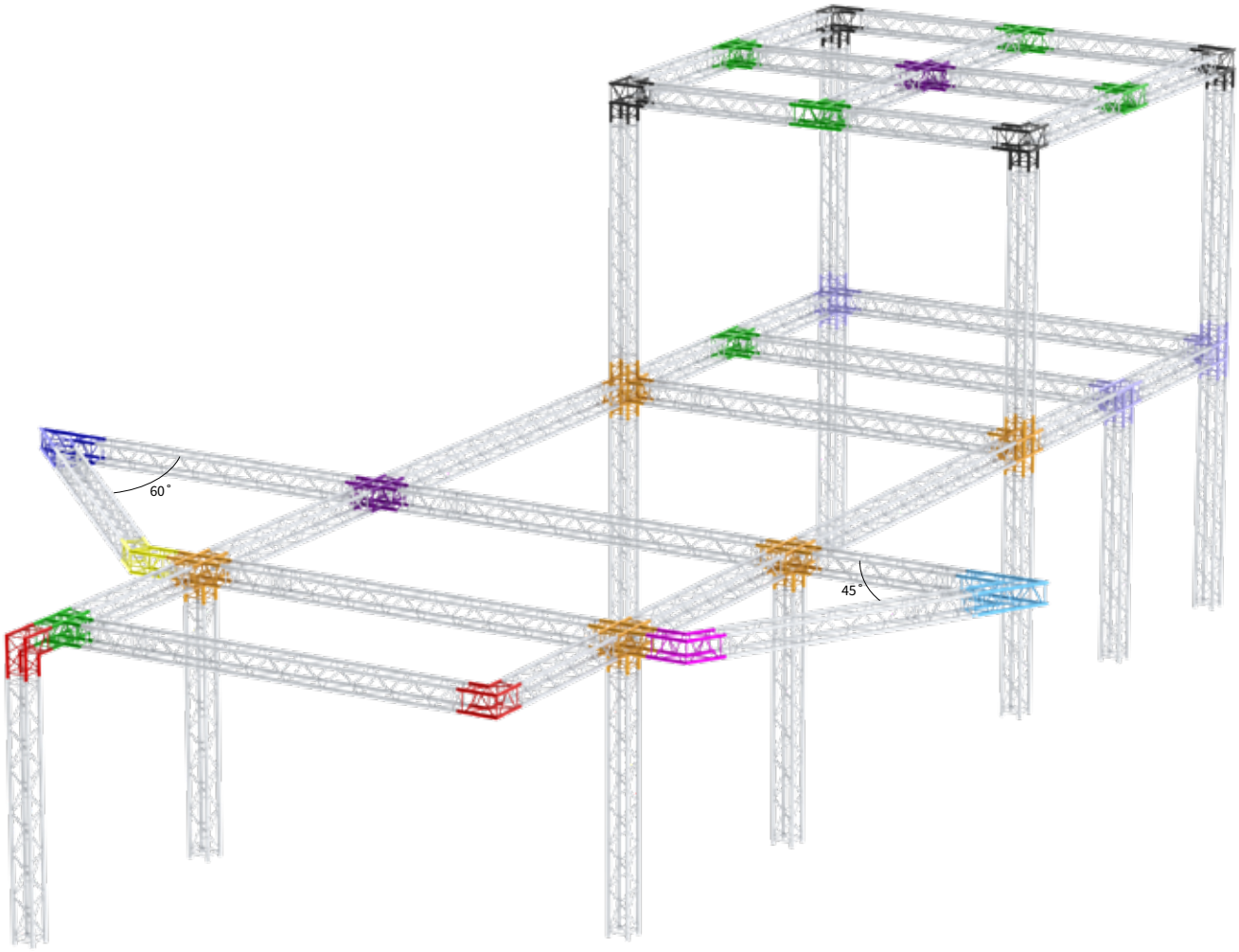
Find complete loading tables on SIXTY82.nl

All loading data is based on calculations per EN 17115:2018 and the following assumptions:

- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright or supported from top chord and loaded from bottom chord.
- Truss spans can be assembled from elements of different length.
- Loading data is only applicable when trusses are solely assembled with TPM03/04 (42CrMo4) spigots.
- Interaction of bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss structures need an individual structural calculation, please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

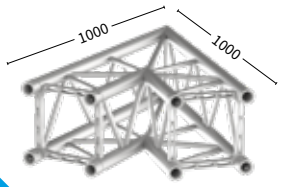
Corners Square

48.3 x 3 mm

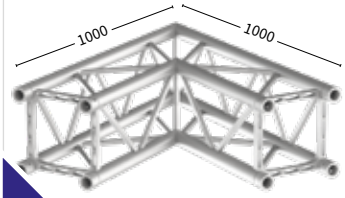


2way

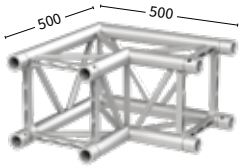
TPM29S-C201 45°
129501 9.7 kg



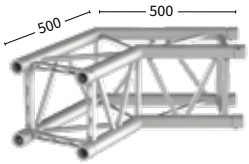
TPM29S-C202 60°
129502 10.6 kg



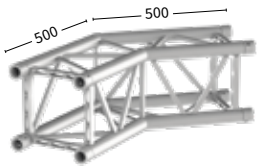
TPM29S-C203 90°
129503 5.9 kg



TPM29S-C204 120°
129504 6.6 kg

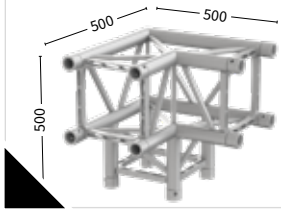


TPM29S-C205 135°
129505 7 kg

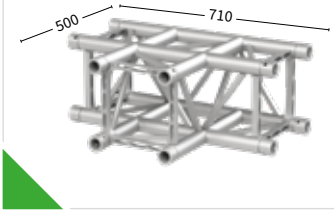


3way

TPM29S-C312 — 90°
129506 — 8 kg

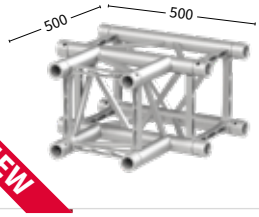


TPM29S-C317 — T JOINT
129507 — 8.9 kg



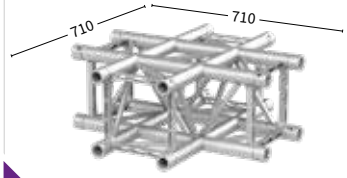
TPM29S-C350 — T JOINT
129511 — kg

NEW

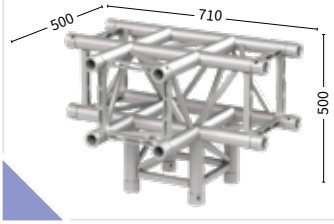


4way

TPM29S-C416 — CROSS
129508 — 11 kg

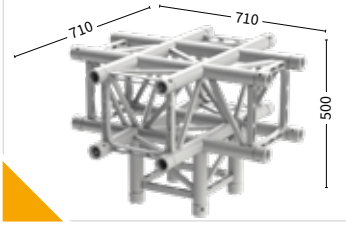


TPM29S-C420 — T JOINT
129509 — 11 kg



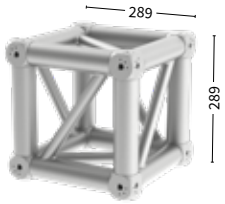
5way

TPM29S-C524 — CROSS
129510 — 13.1 kg



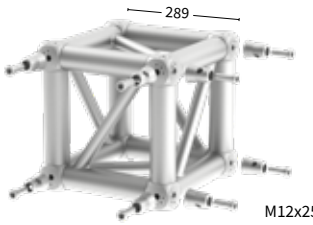
BOX

BOX CORNER — M29S
199002 — 8.5 kg



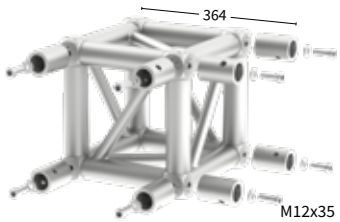
With locator pin

HALF CONNECTOR — M52S
202008 — 0.14 kg



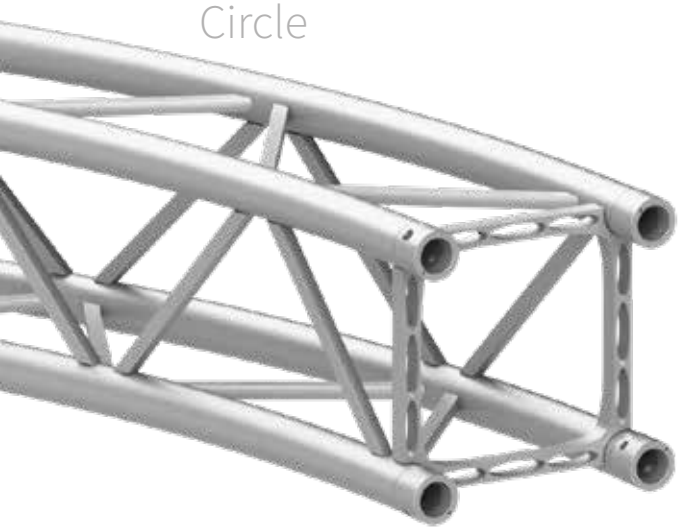
M12x25
(817008)

RECEIVER — M51
202009 — 0.28 kg



M12x35
(817006 + 817005)

Circle



6.4 kg/m

M

ALU/BLACK

RFID READY

TPM29S Circle part

Code	∅ Diameter	Angle	Parts/Circle
130501	2 m	90	4
130502	3 m	90	4
130503	4 m	90	4
130504	5 m	90	4
130505	6 m	45	8
130506	8 m	45	8
130507	10 m	30	12
130508	10 m	45	8


SIXTY82™
NEW ORIGINAL

Length

Corners

Circle

Accessories

M29L **Length** Ladder

48.3 x 3 mm

3 kg/m

M

ALU/BLACK

RFID READY

P.142

Ladder - M29L

Code	Length
121001	21 cm
121002	25 cm
121003	50 cm
121004	71 cm
121005	100 cm
121007	200 cm
121009	300 cm
121011	400 cm

Load table single span, supported sideways every 1 meter at top chord M29L

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	976.5	4	488.3	5	325.5	4	244.1	5	488.3	5
3.0	779.0	8	486.9	10	324.6	10	243.5	10	324.6	10
4.0	625.0	15	422.3	19	323.7	17	242.8	19	242.8	18
5.0	520.9	23	357.8	29	286.7	27	223.8	29	193.7	28
6.0	445.7	33	309.8	42	241.9	39	190.6	42	161.0	41
8.0	343.8	58	243.0	74	183.1	69	146.2	74	96.0	73
10.0	277.6	91	198.5	116	146.2	108	117.6	116	60.9	114
11.0	252.3	110	181.3	140	132.3	131	106.8	140	50.0	137
12.0	230.7	131	166.5	167	120.5	155	97.5	167	41.7	164

Load table single span, supported sideways every 2 meter at top chord M29L

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	389.0	1	291.8	1	194.5	1	162.1	1	389.0	1
3.0	257.1	2	192.8	3	128.5	2	107.1	3	171.4	2
4.0	190.5	4	142.8	5	95.2	4	79.4	5	95.2	4
5.0	149.9	6	112.4	7	75.0	7	62.5	7	60.0	7
6.0	122.5	8	91.9	10	61.2	9	51.0	10	40.8	10
8.0	87.1	14	65.3	18	43.6	17	36.3	18	21.8	18
10.0	64.8	22	48.6	28	32.4	26	27.0	28	13.0	28
11.0	56.4	27	42.3	34	28.2	32	23.5	34	10.2	33
12.0	49.1	32	36.8	41	24.5	38	20.5	41	8.2	40

Load table free span M29L

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	**kg**	**mm**	**kg**	**mm**	**kg**	**mm**	**kg**	**mm**	**kg/m**	**mm**
1.0	979.2	1	489.6	1	326.4	1	244.8	1	979.2	1
2.0	389.0	1	291.8	1	194.5	1	162.1	1	389.0	1
3.0	234.0	2	176.0	2	117.0	2	98.0	2	156.0	2
4.0	146.0	3	110.0	3	73.0	3	61.0	3	73.0	3
5.0	90.0	3	68.0	4	45.0	4	38.0	4	36.0	4

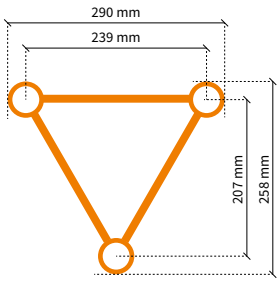
Find complete loading tables on **SIXTY82.nl**

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

M29TX **Length** Triangle

51 x 2 mm



4 kg/m

RFID READY

M

P.142

ALU/BLACK

Triangle - M29TX

Code	Length
112001	21 cm
112002	25 cm
112003	29 cm
112004	50 cm
112005	71 cm
112006	100 cm
112007	150 cm
112008	200 cm
112009	250 cm
112010	300 cm
112012	400 cm

Load table M29TX

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	813.0	3	557.0	4	449.0	4	349.7	4	847.0	4
4.0	444.8	12	317.5	16	234.6	15	188.6	16	248.1	16
6.0	302.2	28	219.5	36	156.6	33	127.5	36	108.4	35
8.0	225.4	50	165.6	64	115.7	59	94.9	64	59.5	62
10.0	176.6	78	130.9	99	90.1	92	74.3	99	36.8	97
12.0	142.3	112	106.4	143	72.3	133	59.9	143	24.5	140
14.0	116.5	152	87.9	194	59.1	181	49.1	194	17.1	190
16.0	96.2	199	73.3	254	48.6	236	40.6	254	12.3	248
20.0	65.4	311	49.8	397	32.9	369	27.7	397	6.6	388

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	708.0	0	1697.3	0
1.0	406.0	1	706.1	2
1.5	287.6	5	338.2	4
2.0	221.8	11	201.0	8
2.5	179.8	22	132.7	12
3.0	150.5	39	93.7	18
3.5	128.8	62	69.4	25
4.0	112.0	92	53.2	34

Multiple supported span

Span	CPL	Deflection	2 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	953.3	1	530.5	1	676.9	1
4.0	545.4	6	301.6	5	191.9	5
6.0	379.6	14	210.9	13	90.7	12
8.0	286.5	25	159.6	23	51.9	21
10.0	226.1	39	126.2	36	33.0	33
12.0	183.0	55	102.3	50	22.3	47
14.0	150.3	71	84.1	65	15.8	61
16.0	124.3	88	69.6	80	11.5	75
20.0	84.7	117	47.4	107	6.3	117

Find complete loading tables on **SIXTY82.nl**

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- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
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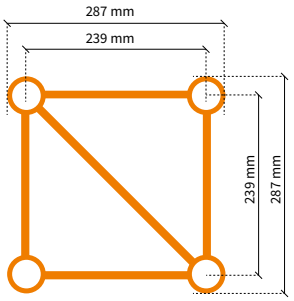
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.



6.3 kg/m

RFID READY

M

P.142

ALU/BLACK

Square - M29S

Code	Length
128001	21 cm
128002	25 cm
128003	29 cm
128004	50 cm
128005	71 cm
128015	75 cm
128006	100 cm
128007	150 cm
128008	200 cm
128009	250 cm
128010	300 cm
128012	400 cm

Load table M29S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	1952.5	4	976.3	5	650.8	4	488.1	5	976.3	5
4.0	1308.4	15	941.5	19	647.1	17	485.3	19	485.3	18
6.0	921.5	33	649.9	42	492.3	39	392.3	42	321.6	41
8.0	705.9	58	505.5	74	371.2	69	299.1	74	195.7	73
10.0	567.4	91	410.7	116	295.3	108	239.7	116	123.2	114
12.0	470.1	131	343.2	167	243.0	155	198.3	167	83.8	164
14.0	397.3	178	292.3	228	204.3	211	167.5	228	60.1	223
16.0	340.4	233	252.2	297	174.3	276	143.4	297	44.7	291
20.0	256.0	364	192.3	464	130.3	431	107.9	464	26.5	454

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	980.5	0	1958.2	0
1.0	979.1	1	976.3	1
1.5	839.6	5	649.0	3
2.0	652.5	12	485.3	7
2.5	539.5	24	387.1	13
3.0	458.8	43	276.5	19
3.5	398.2	69	204.9	27
4.0	351.0	103	159.9	36

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1418.0	1	726.0	1	779.9	0
4.0	1407.7	6	715.4	5	387.1	4
6.0	1109.9	15	625.5	14	256.2	12
8.0	866.3	28	479.4	25	153.7	23
10.0	705.5	45	391.5	40	100.7	37
12.0	589.6	64	327.8	58	70.6	54
14.0	501.4	87	279.2	79	51.8	73
16.0	431.5	112	240.6	101	39.2	94
20.0	326.3	165	182.2	150	23.9	158

Find complete loading tables on **SIXTY82.nl**

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
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- Triangle trusses solely used apex-up, apex-down.
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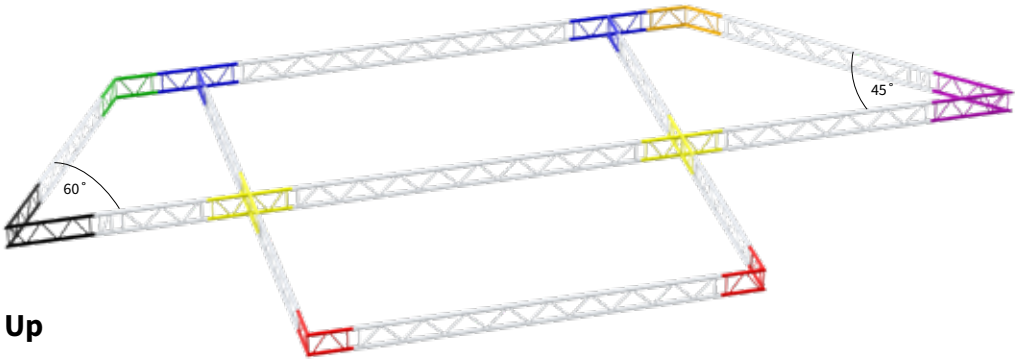
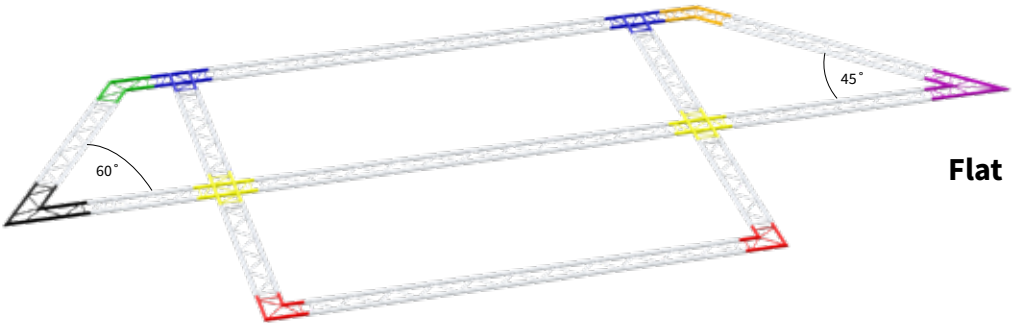
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

Corners Ladder

48.3 x 3 mm



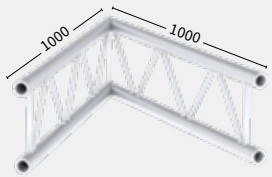
Up



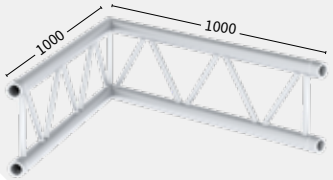
Flat

2way
up

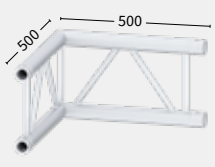
M29L-C201U	45°
122001	5.35 kg



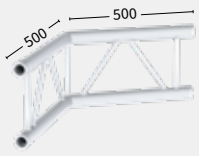
M29L-C202U	60°
122002	5.43 kg



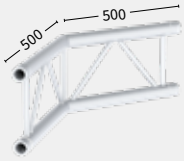
M29L-C203U	90°
122003	2.92 kg



M29L-C204U	120°
122004	2.96 kg



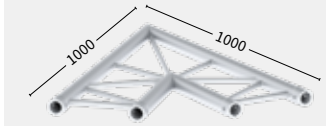
M29L-C205U	135°
122005	2.99 kg



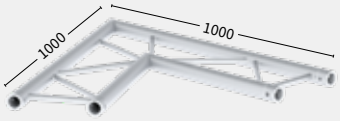
All measurements are in mm

2way flat

M29L-C201F — 45°
123001 — 3.88 kg

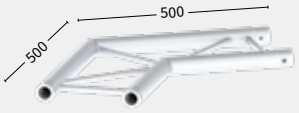


M29L-C202F — 60°
123002 — 4.28 kg

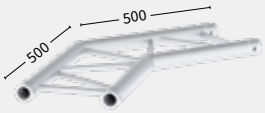


M29L-C203F — 90°
123003 — 2.28 kg

M29L-C204F — 120°
123004 — 2.56 kg

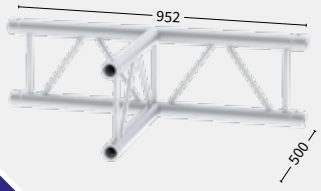


M29L-C205F — 135°
123005 — 2.75 kg

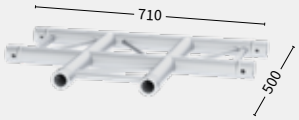


3way

M29L-C317U — T JOINT
122006 — 4.3 kg

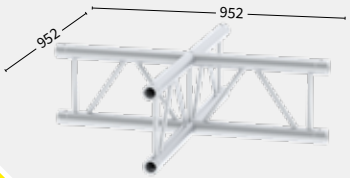


M29L-C317F — T JOINT
123006 — 3.51 kg

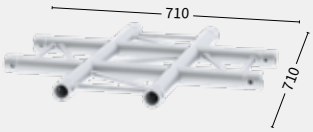


4way

M29L-C416U — CROSS
122007 — 5.73 kg



M29L-C416F — CROSS
123007 — 4.68 kg



Box

BOX CORNER M29L
199003 — 1.1 kg

With locator pin

HALF CONNECTOR — M52S
202008 — 0.14 kg

M12x25 (817008)

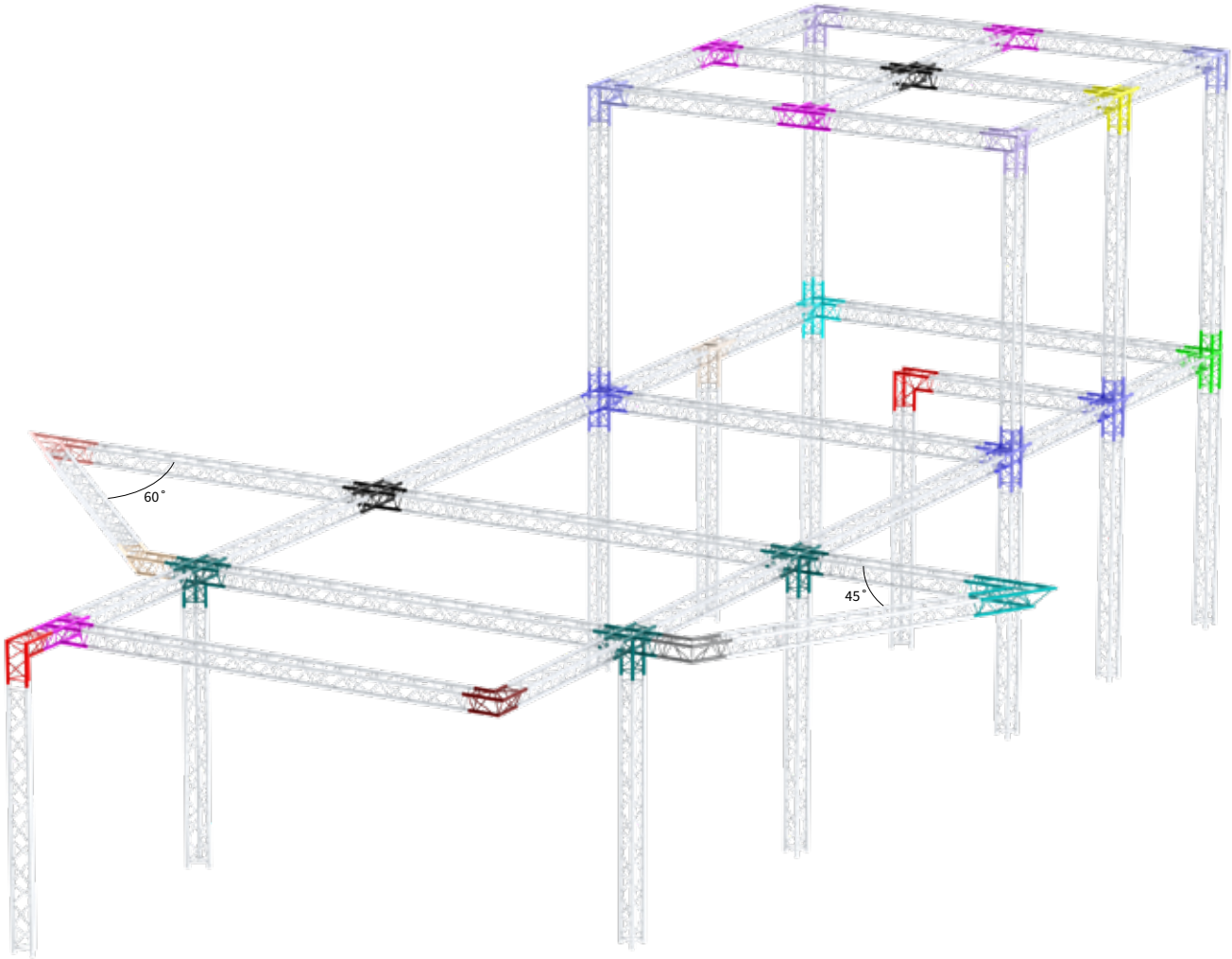
RECEIVER — M51
202009 — 0.28 kg

M12x35 (817006 + 817005)

All measurements are in mm

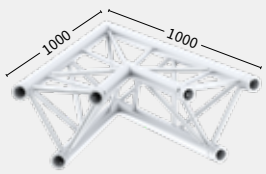
Corners Triangle

48.3 x 3 mm

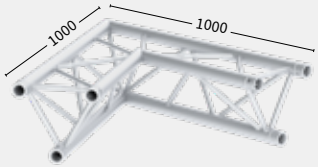


2way

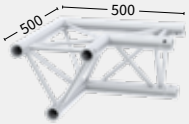
M29T-C201 45°
126001 6.43 kg



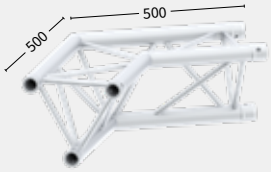
M29T-C202 60°
126002 7.11 kg



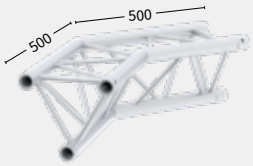
M29T-C203 90°
126003 3.79 kg



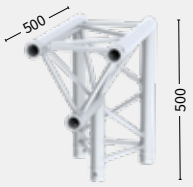
M29T-C204 120°
126004 4.32 kg



M29T-C205 135°
126005 4.63 kg



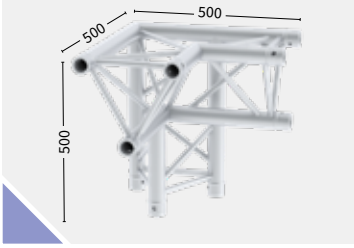
M29T-C207V 90°
126006 4.23 kg



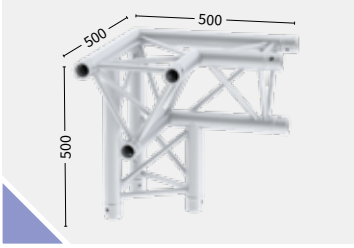
All measurements are in mm

3way

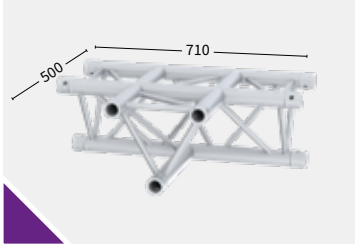
M29T-C312R — 90°
126007 — 5.75 kg



M29T-C313L — 90°
126008 — 5.75 kg



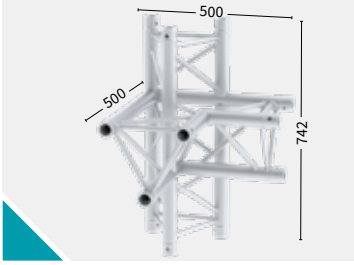
M29T-C317 — T JOINT
126009 — 5.71 kg



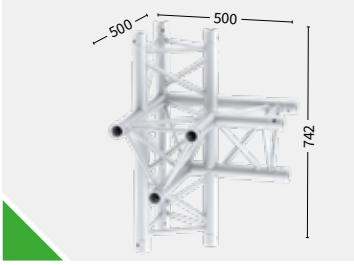
M29T-C318V — T JOINT
126010 — 6.35 kg

4way

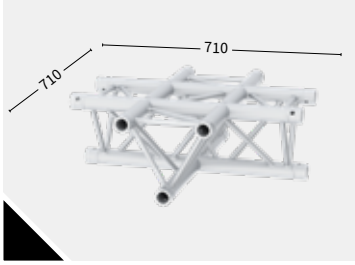
M29T-C414R — 90°
126011 — 7.47 kg



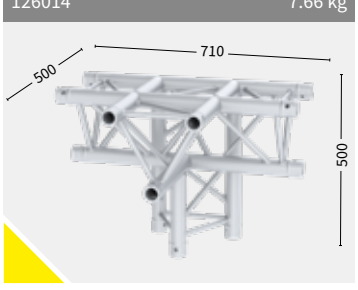
M29T-C415L — 90°
126012 — 7.47 kg



M29T-C416 — CROSS
126013 — 7.17 kg

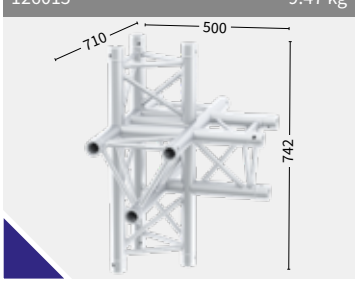


M29T-C420 — T JOINT
126014 — 7.66 kg

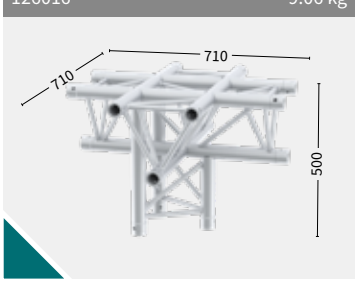


5way

M29T-C521 — T JOINT
126015 — 9.47 kg



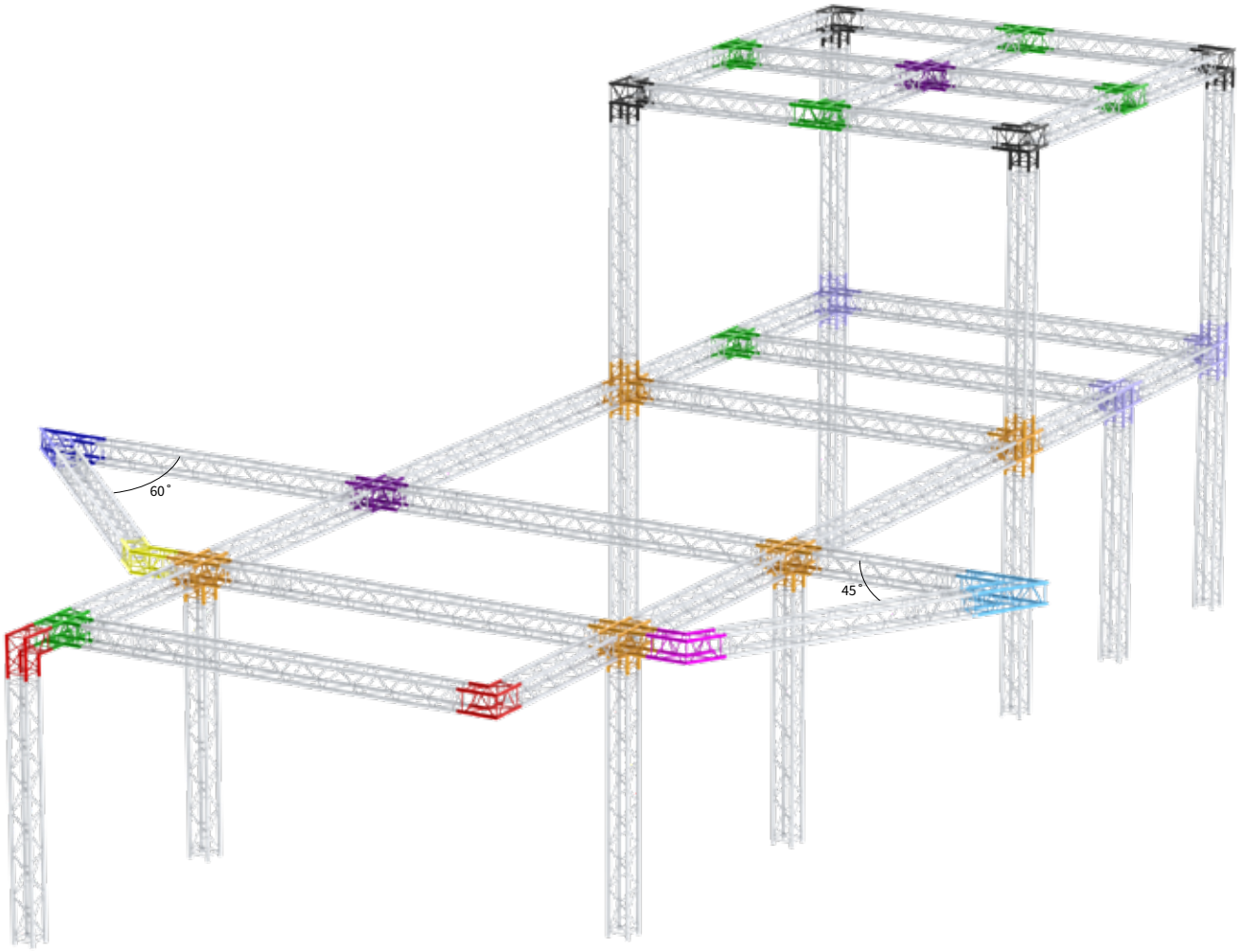
M29T-C524 — CROSS
126016 — 9.06 kg



All measurements are in mm

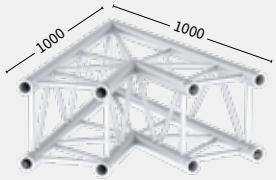
Corners Square

48.3 x 3 mm

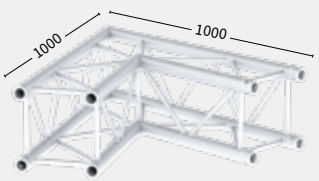


2way

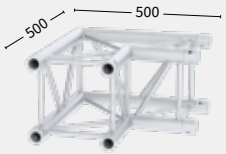
M29S-C201 45°
129001 8.72 kg



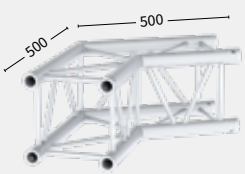
M29S-C202 60°
129002 9.61 kg



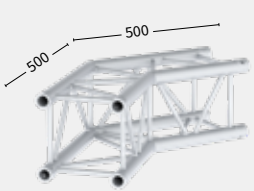
M29S-C203 90°
129003 5.13 kg



M29S-C204 120°
129004 5.83 kg



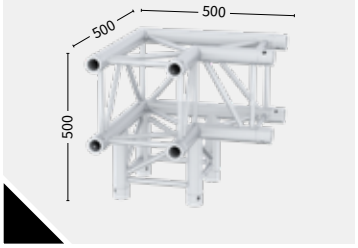
M29S-C205 135°
129005 6.21 kg



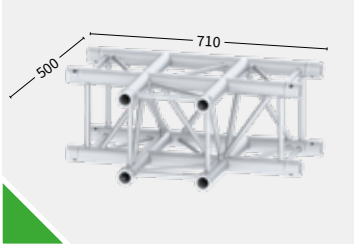
All measurements are in mm

3way

M29S-C312 — **90°**
129006 — 6.91 kg

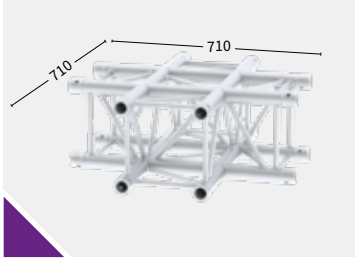


M29S-C317 — **T JOINT**
129007 — 7.82 kg

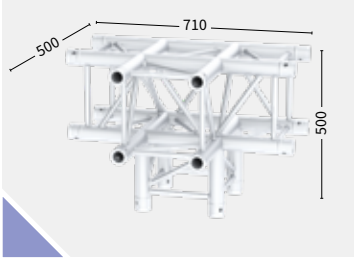


4way

M29S-C416 — **CROSS**
129008 — 9.59 kg

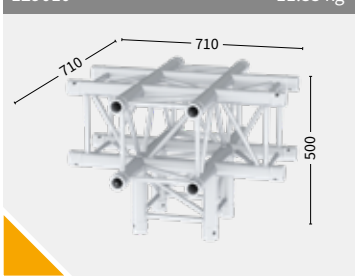


M29S-C420 — **T JOINT**
129009 — 9.57 kg



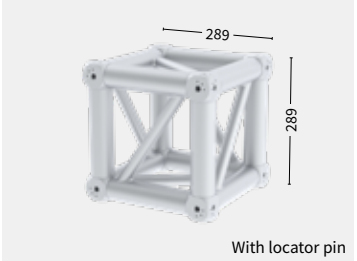
5way

M29S-C524 — **CROSS**
129010 — 11.33 kg



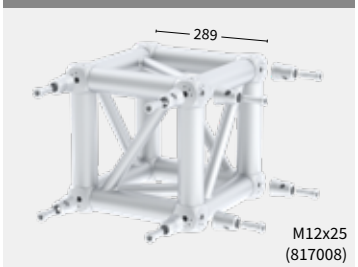
BOX

BOX CORNER M29S
199002 — 8.5 kg



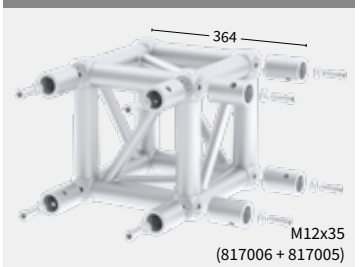
With locator pin

HALF CONNECTOR — **M52S**
202008 — 0.14 kg



M12x25
(817008)

RECEIVER — **M51**
202009 — 0.28 kg



M12x35
(817006 + 817005)

All measurements are in mm

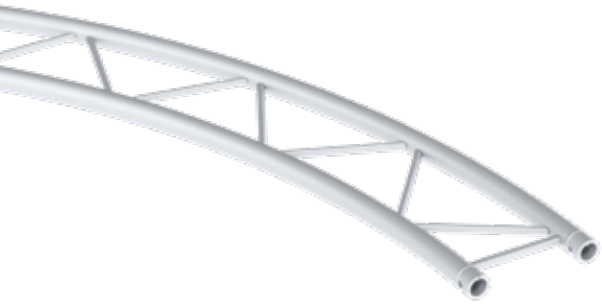
Circles

48,3 x 3 mm

3 kg/m
M
ALU/BLACK
RFID READY
P.142

M29L Circle part - up

Code	∅ Diameter	Angle	Parts/Circle
124001	2 m	90	4
124002	3 m	90	4
124003	4 m	90	4
124004	5 m	90	4



3 kg/m
M
ALU/BLACK
RFID READY
P.142

M29L Circle part - flat

Code	∅ Diameter	Angle	Parts/Circle
124005	2 m	90	4
124006	3 m	90	4
124007	4 m	90	4
124008	5 m	90	4

5 kg/m
M
ALU/BLACK
RFID READY
P.142

M29T Circle part

Code	∅ Diameter	Angle	Parts/Circle
127001	2 m	90	4
127002	3 m	90	4
127003	4 m	90	4
127004	5 m	90	4
127005	6 m	45	8
127006	8 m	45	8
127007	10 m	30	12
127008	10 m	45	8

6.3 kg/m
M
ALU/BLACK
RFID READY
P.142

M29S Circle part

Code	∅ Diameter	Angle	Parts/Circle
130001	2 m	90	4
130002	3 m	90	4
130003	4 m	90	4
130004	5 m	90	4
130005	6 m	45	8
130006	8 m	45	8
130007	10 m	30	12
130008	10 m	45	8

- Subject to tolerance, because product is 100% handmade.

Accessories

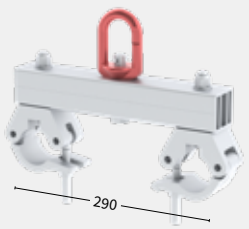
BASE PLATE M29T
211003 — 1.01 kg

M49 + M12x20
(202007 + 817003)

BASE PLATE M29S
211004 — 1.65 kg

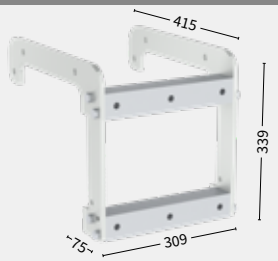
M49 + M12x20
(202007 + 817003)

LIFTING BRACKET M29S
212001 — 2.55 kg

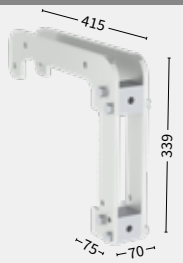


WLL 1000 kg

HANG-ON82 M29 TO M29S-T
251003 — 10.2 kg

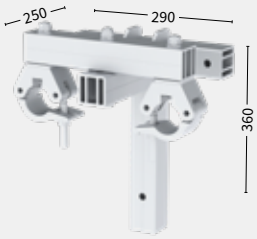


HANG-ON82 M29 TO M29L
251004 — 7.06 kg



BOOK CORNER M29S-T
198001 — 11.3 kg

WALL ADAPTER M29S-T
212006 — 4.35 kg



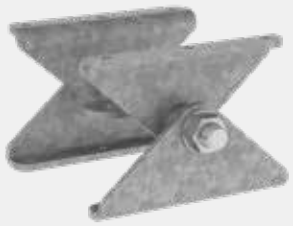
BOOK-FIX M29S-T
198004 — 4.43 kg

Also needed: 207002 Clamp
M36 tube 50mm swivel WLL 750kg

STEEL BASE M29S
211019

TRUSS HINGE TPM29S

Code	Finish
211020	Black
211021	Zinc



LIFTINGPLATE M29S-T/M39R

Code	Finish
212010	Black
212011	Zinc

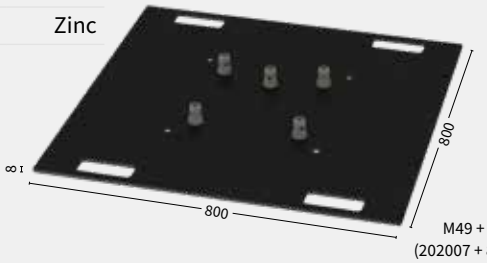
BASE PLATE STEEL M29/39S-T
35 kg

Code	Finish
211009	Black
211010	Zinc

M49 + M12x25
(202007 + 817049)

BASE PLATE STEEL M29/M39S-T
41 kg

Code	Finish
211011	Black
211012	Zinc



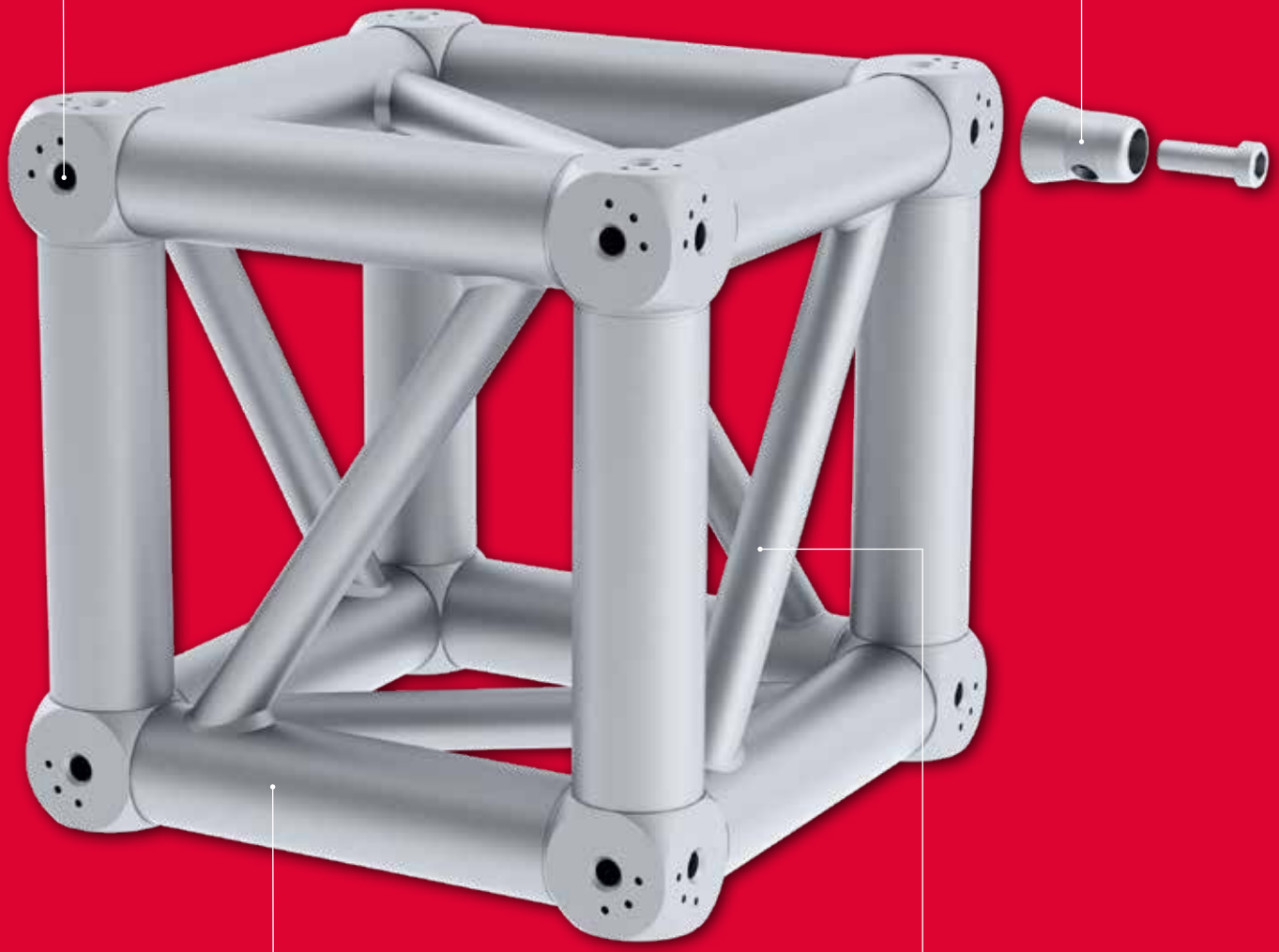
M49 + M12x25
(202007 + 817049)

All measurements are in mm

BOX corner
invention evolved

Locator pin design and special male connector will allow much easier user configuration of box corners.

Higher shear force capacity due to lower eccentricity when using male connectors.



Less components giving increased user simplicity and better value.

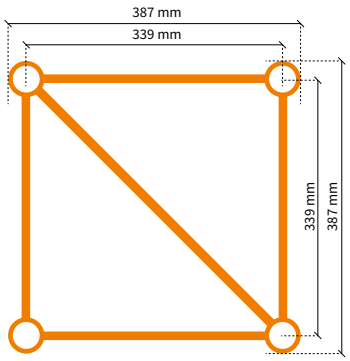
High allowable bending moment due to bigger diagonal.

Length

Corners

Circle

M39S **Length** Square



48.3 x 3 mm

6.9 kg/m

RFID READY

M

P.142

ALU/BLACK

Square - M39S

Code	Length
138001	21 cm
138002	25 cm
138004	50 cm
138005	81 cm
138006	100 cm
138008	200 cm
138010	300 cm
138012	400 cm

Load table M39S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	2512.6	3	1256.3	3	837.5	3	628.1	3	1256.3	3
4.0	1726.7	10	1227.7	13	833.4	12	625.0	13	625.0	13
6.0	1244.2	23	858.9	30	681.0	28	534.7	30	414.6	29
8.0	967.3	41	680.2	53	518.5	49	412.2	53	279.4	52
10.0	786.3	65	560.1	83	415.9	77	333.7	83	176.6	81
12.0	658.1	93	473.4	119	344.8	110	278.6	119	120.7	116
14.0	561.7	127	407.5	162	292.3	150	237.4	162	87.0	158
16.0	486.3	166	355.3	211	251.6	196	205.3	211	65.2	207
20.0	374.3	259	277.2	330	192.2	307	157.9	330	39.5	323

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	1260.9	0	2518.8	0
1.0	1259.4	1	1256.3	1
1.5	1107.4	3	835.4	2
2.0	861.1	8	625.0	4
2.5	721.3	16	498.8	8
3.0	619.5	29	365.4	13
3.5	541.9	47	270.9	18
4.0	480.8	71	212.0	24

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1825.1	0	935.5	0	1003.8	0
4.0	1813.8	4	923.8	3	498.8	2
6.0	1477.6	10	825.5	9	330.5	8
8.0	1154.3	19	635.7	17	204.7	15
10.0	954.6	30	527.5	27	134.0	25
12.0	808.2	44	447.7	40	95.5	36
14.0	695.7	60	386.1	55	70.9	50
16.0	606.0	79	336.8	71	54.4	66
20.0	470.3	119	262.0	108	34.1	112

Find complete loading tables on **SIXTY82.nl**

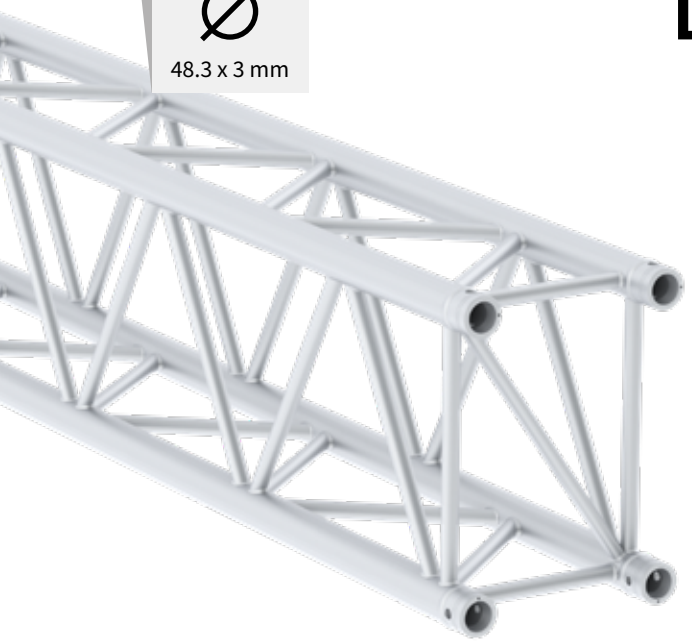
All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

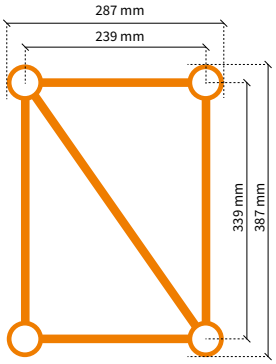
- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

Length Rectangle

M39R

48.3 x 3 mm





6.9 kg/m

RFID READY

M

P.142

ALU/BLACK

Rectangle - M39R

Code	Length
141001	21 cm
141002	25 cm
141004	50 cm
141005	71 cm
141006	100 cm
141008	200 cm
141010	300 cm
141012	400 cm

Load table M39R

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	2512.6	3	1256.3	3	837.5	3	628.1	3	1256.3	3
4.0	1726.7	10	1227.7	13	833.4	12	625.0	13	625.0	13
6.0	1244.2	23	858.9	30	681.0	28	534.7	30	414.6	29
8.0	967.3	41	680.2	53	518.5	49	412.2	53	279.4	52
10.0	786.3	65	560.1	83	415.9	77	333.7	83	176.6	81
12.0	658.1	93	473.4	119	344.8	110	278.6	119	120.7	116
14.0	561.7	127	407.5	162	292.3	150	237.4	162	87.0	158
16.0	486.3	166	355.3	211	251.6	196	205.3	211	65.2	207
20.0	374.3	259	277.2	330	192.2	307	157.9	330	39.5	323

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	1260.9	0	2518.8	0
1.0	1259.4	1	1256.3	1
1.5	1107.4	3	835.4	2
2.0	861.1	8	625.0	4
2.5	721.3	16	498.8	8
3.0	619.5	29	365.4	13
3.5	541.9	47	270.9	18
4.0	480.8	71	212.0	24

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1825.1	0	935.5	0	1003.8	0
4.0	1813.8	4	923.8	3	498.8	2
6.0	1477.6	10	825.5	9	330.5	8
8.0	1154.3	19	635.7	17	204.7	15
10.0	954.6	30	527.5	27	134.0	25
12.0	808.2	44	447.7	40	95.5	36
14.0	695.7	60	386.1	55	70.9	50
16.0	606.0	79	336.8	71	54.4	66
20.0	470.3	119	262.0	108	34.1	112

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- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
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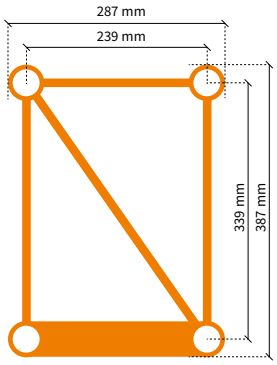
- Higher loading can be allowed depending on the truss configuration.

Length Rectangle



6.9 kg/m

RFID READY

M

P.142

ALU/BLACK

Rectangle - M39RP

Code	Length
144001	21 cm
144002	25 cm
144004	50 cm
144005	71 cm
144006	100 cm
144008	200 cm
144010	300 cm
144012	400 cm

Load table M39RP

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	2512.6	3	1256.3	3	837.5	3	628.1	3	1256.3	3
4.0	1726.7	10	1227.7	13	833.4	12	625.0	13	625.0	13
6.0	1244.2	23	858.9	30	681.0	28	534.7	30	414.6	29
8.0	967.3	41	680.2	53	518.5	49	412.2	53	279.4	52
10.0	786.3	65	560.1	83	415.9	77	333.7	83	176.6	81
12.0	658.1	93	473.4	119	344.8	110	278.6	119	120.7	116
14.0	561.7	127	407.5	162	292.3	150	237.4	162	87.0	158
16.0	486.3	166	355.3	211	251.6	196	205.3	211	65.2	207
20.0	374.3	259	277.2	330	192.2	307	157.9	330	39.5	323

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	1260.9	0	2518.8	0
1.0	1259.4	1	1256.3	1
1.5	1107.4	3	835.4	2
2.0	861.1	8	625.0	4
2.5	721.3	16	498.8	8
3.0	619.5	29	365.4	13
3.5	541.9	47	270.9	18
4.0	480.8	71	212.0	24

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	1825.1	0	935.5	0	1003.8	0
4.0	1813.8	4	923.8	3	498.8	2
6.0	1477.6	10	825.5	9	330.5	8
8.0	1154.3	19	635.7	17	204.7	15
10.0	954.6	30	527.5	27	134.0	25
12.0	808.2	44	447.7	40	95.5	36
14.0	695.7	60	386.1	55	70.9	50
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20.0	470.3	119	262.0	108	34.1	112

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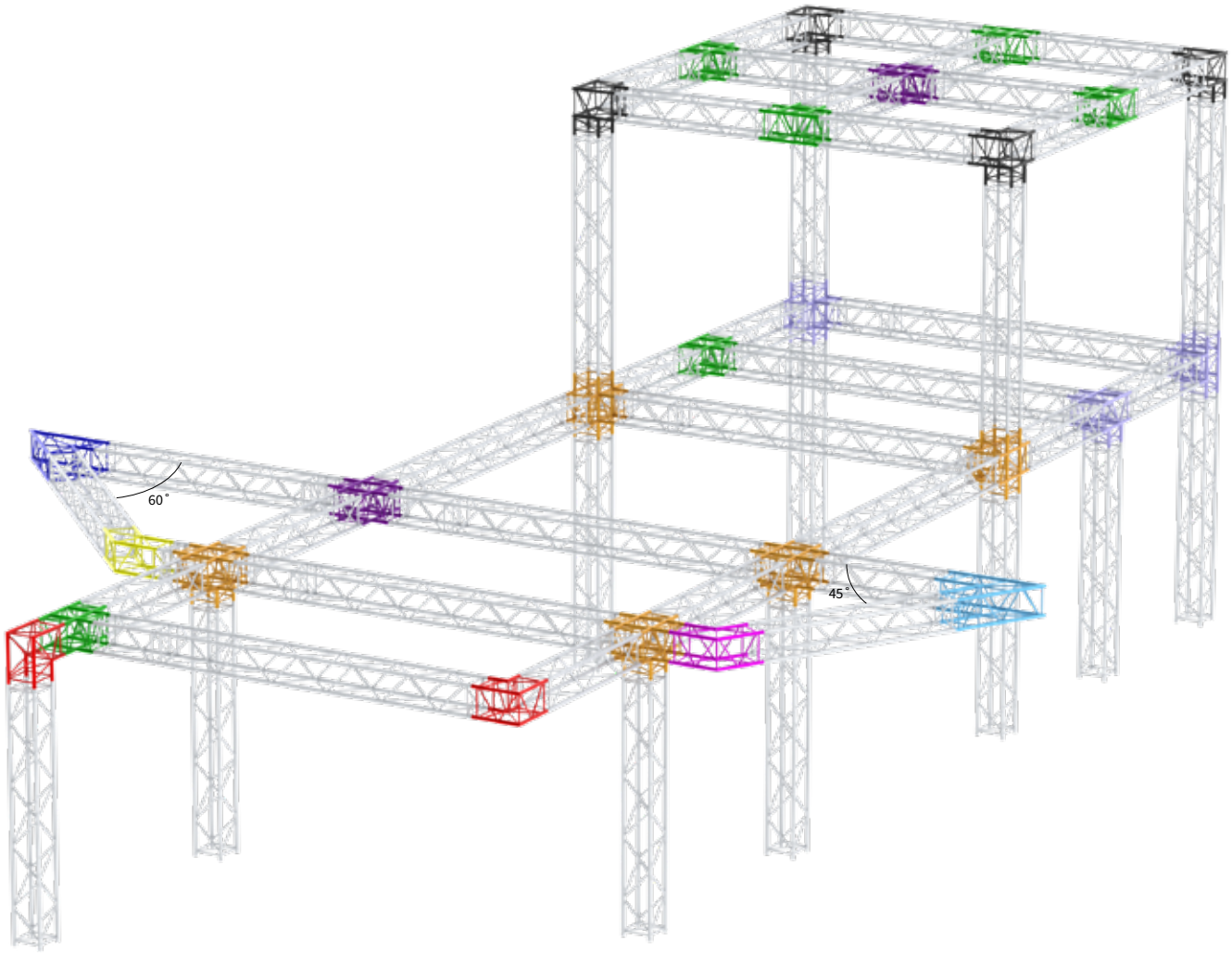
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

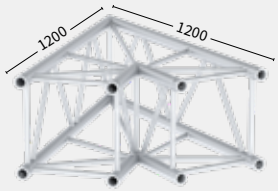
Corners Square

48.3 x 3 mm

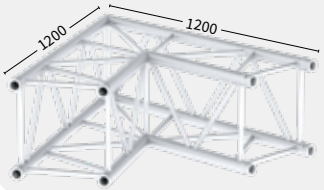


2way

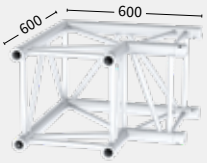
M39S-C201 45°
139001 10.23 kg



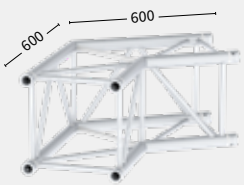
M39S-C202 60°
139002 12.02 kg



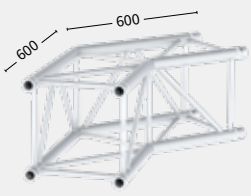
M39S-C203 90°
139003 6.51 kg



M39S-C204 120°
139004 7.16 kg



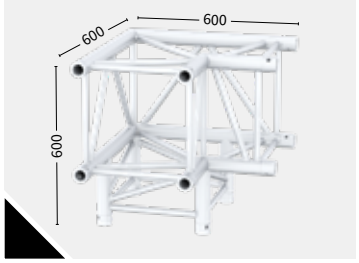
M39S-C205 135°
139005 7.5 kg



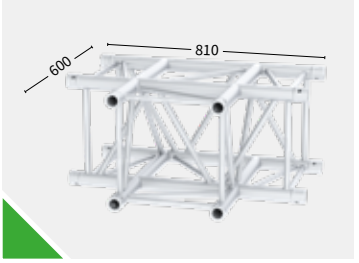
All measurements are in mm

3way

M39S-C312 — 90°
139006 — 8.61 kg

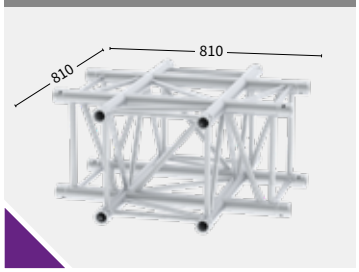


M39S-C317 — T JOINT
139007 — 9.97 kg

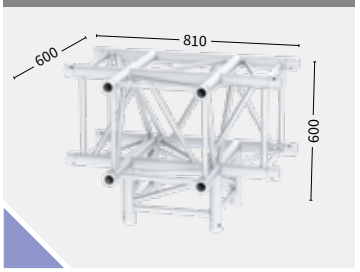


4way

M39S-C416 — CROSS
139008 — 12.07 kg

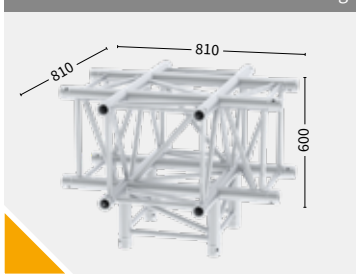


M39S-C420 — T JOINT
139009 — 12.05 kg



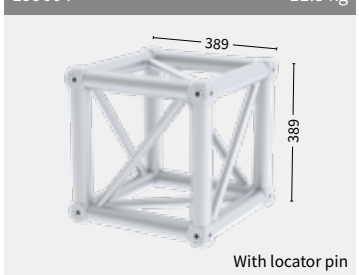
5way

M39S-C524 — CROSS
139010 — 14.23 kg



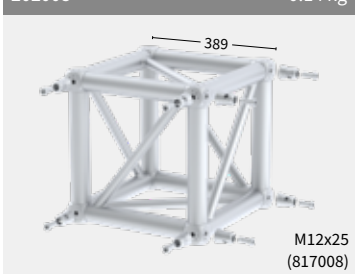
Box

BOX CORNER M39S
199004 — 11.5 kg



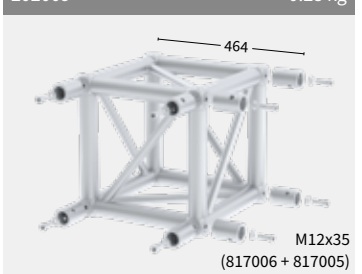
With locator pin

HALF CONNECTOR — M52S
202008 — 0.14 kg



M12x25
(817008)

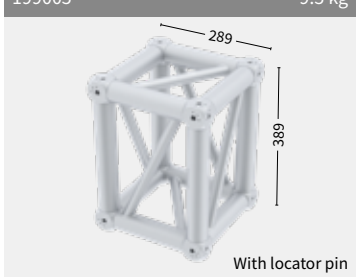
RECEIVER — M51
202009 — 0.28 kg



M12x35
(817006 + 817005)

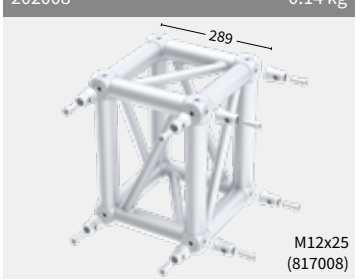
Box

BOX CORNER M39R
199005 — 9.5 kg



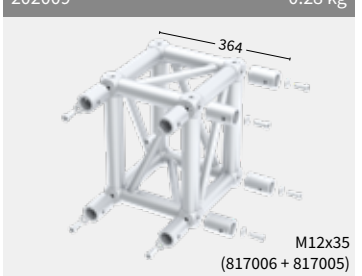
With locator pin

HALF CONNECTOR — M52S
202008 — 0.14 kg



M12x25
(817008)

RECEIVER — M51
202009 — 0.28 kg



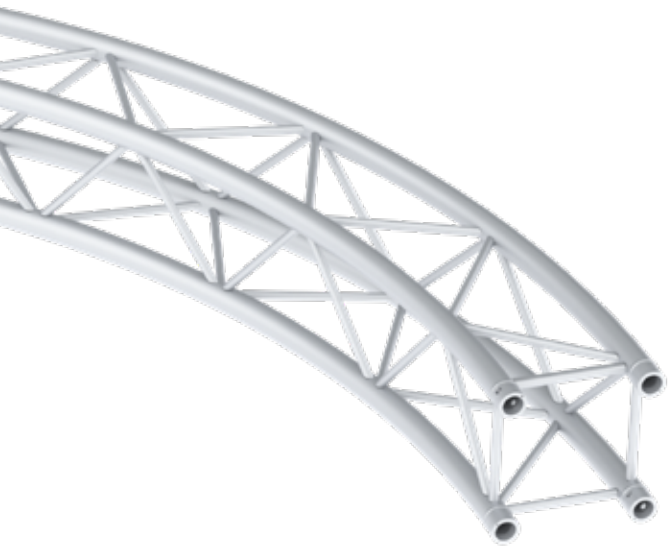
M12x35
(817006 + 817005)

All measurements are in mm

M39

Circles

48.3 x 3 mm



6.3 kg/m

M

ALU/BLACK

RFID READY

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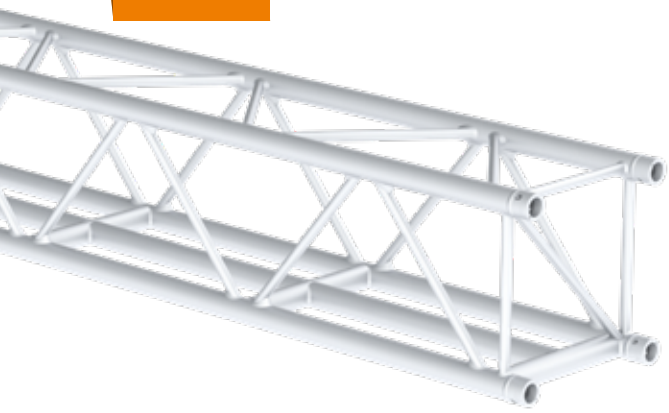
M39S Circle part

Code	∅ Diameter	Angle	Parts/Circle
140001	2 m	90	4
140002	3 m	90	4
140003	4 m	90	4
140004	5 m	90	4
140005	6 m	45	8
140006	8 m	45	8
140007	10 m	45	8
140008	10 m	30	12

- Subject to tolerance, because product is 100% handmade.

M39

Middle beam



7.9 kg/m

M

ALU/BLACK

RFID READY

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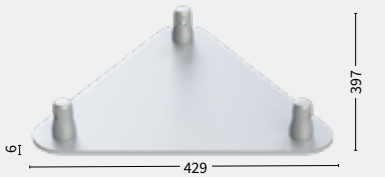
M39 Middle Beam

Code	Length
143002	100 cm
143004	200 cm
143006	300 cm

Accessories

BASE PLATE M39T
211005 — 1.63 kg

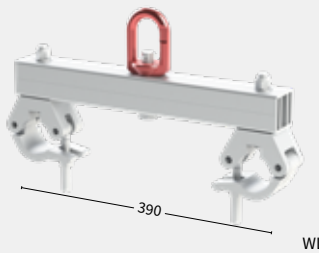


M49 + M12x20
(202007 + 817003)

BASE PLATE M39S
211006 — 2.92 kg

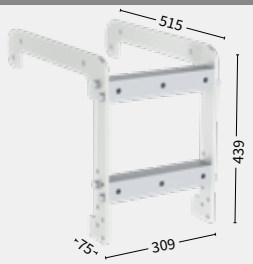
M49 + M12x20
(202007 + 817003)

LIFTING BRACKET M39S
212002 — 2.6 kg

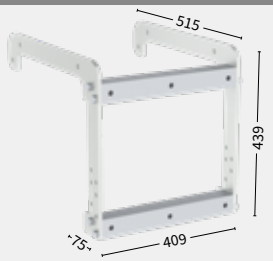


WLL 1000 kg

HANG-ON82 M39 TO M29S-T
251005 — 11.72 kg

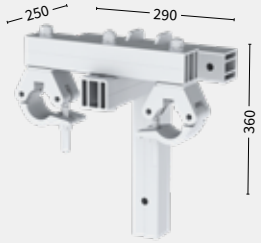


HANG-ON82 M39 TO M39S-T
251006 — 13.1 kg

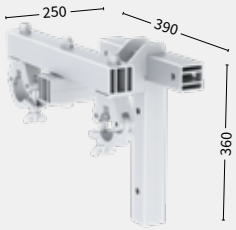


HANG-ON82 M39 TO M39L
251007 — 8.58 kg

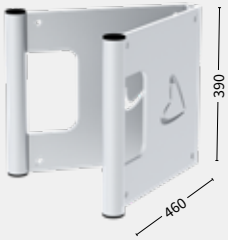
WALL ADAPTER M39R
212006 — 4.35 kg



WALL ADAPTER M39S-T
212009 — 4.65 kg



BOOK CORNER M39S-T
198005 — 24.5 kg



LIFTINGPLATE M29S-T/M39R

Code	Finish
212010	Black
212011	Zinc

BOOK-FIX M39S-T
198006 — 4.43 kg

Also needed: 207002 Clamp
M36 tube 50mm swivel WLL 750kg

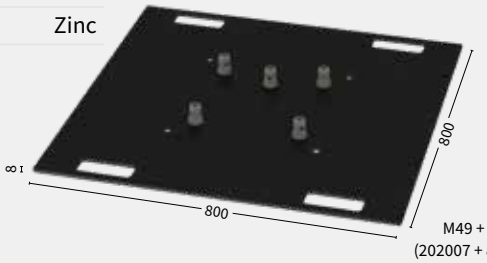
BASE PLATE STEEL M29/39S-T
35 kg

Code	Finish
211009	Black
211010	Zinc

M49 + M12x25
(202007 + 817049)

BASE PLATE STEEL M29/M39S-T
41 kg

Code	Finish
211011	Black
211012	Zinc



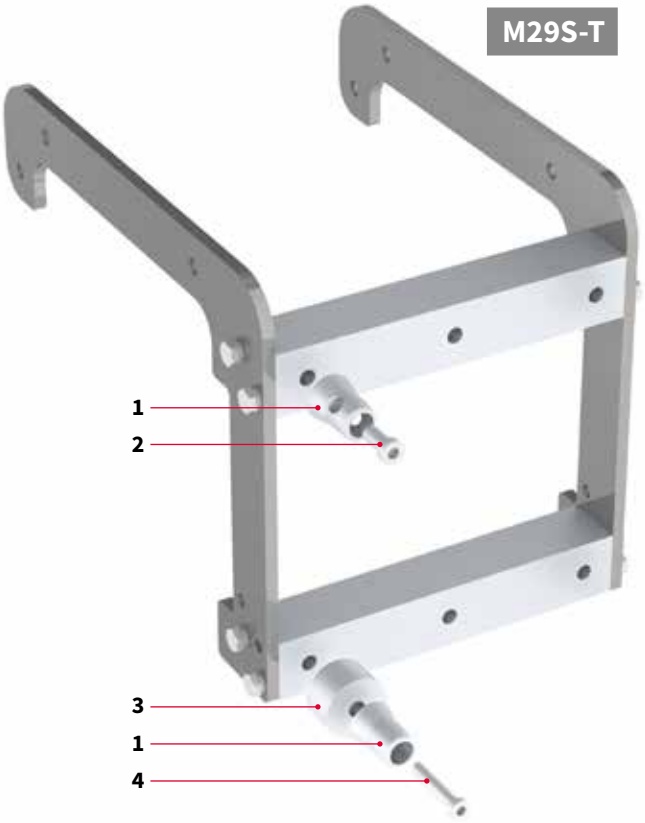
M49 + M12x25
(202007 + 817049)

All measurements are in mm

Hang-on82

WHY HANG-ON82?

- **Alternative for the T-joint**
- **Flexible in use: can be used on every point in the grid**
- **Easy to use and assemble**
- **Can be used in conjunction with box corners and weld corners (spacers or special truss length needed)**
- **Can be used for ladder, triangle and square truss**
- **Natural and black finish available**
- **Load capacity 900 KG**



Spare parts

1	202008	Half connector M52S	M series
2	817008	Bolt M12x25 Low head	M series
3	251008	Hang-on82 Spacer 30 mm	M series
4	817025	Bolt M12x60 Low head	M series

Safety

1 x 251014	Hang-on82 safety
2 x 817002	Nut self locking M12 DIN985
2 x 817005	Washer M12 Spring DIN127B
2 x 817006	Bolt M12x035 DIN933

M29 to M29S-T
251003 — 10.2 kg

M29 to M29L
251004 — 7.06 kg

M39 to M29S-T
251005 — 11.72 kg

M39 to M39S-T
251006 — 13.1 kg

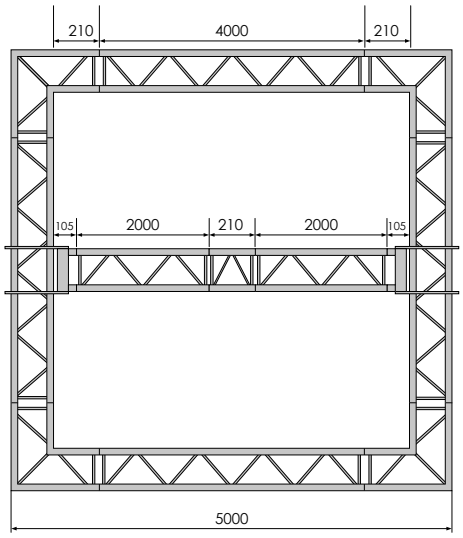
M39 to M39L
251007 — 8.58 kg

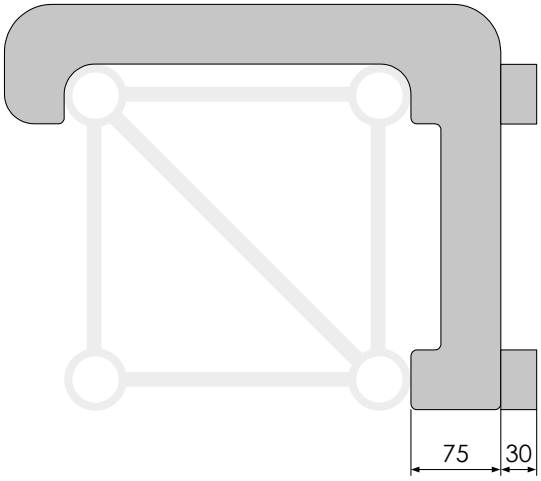
The design of this product is intellectually protected.

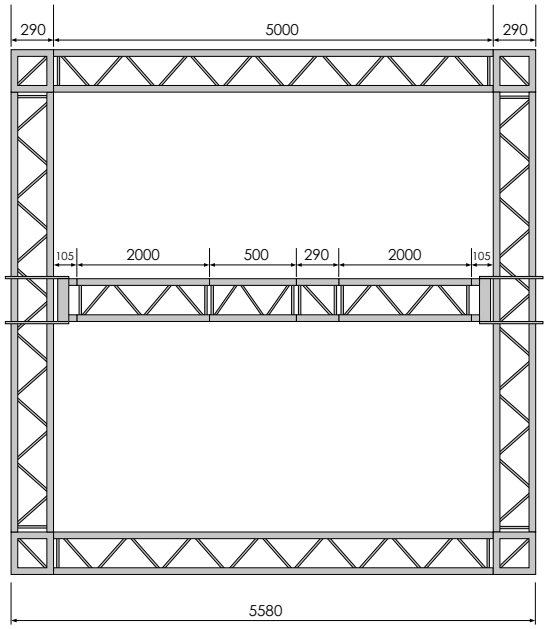
** A truss grid in which the HANG-ON82 is used must be checked by an chartered engineer on a case by case basis.*

Hang-on82 in use

1. The grid is built with **weld corners**: the hang-on needs to be assembled with 30 mm spacers, and an extra piece of 210 mm (or 710 mm) truss needs to be used in the span (spare parts 1, 3 and 4).
2. The grid is built with **box corners with M51 receivers** (75 mm): the hang-on needs to be assembled with M52S connectors, and the same length of truss can be used for the span as is used in the grid (spare parts 1 and 2).
3. The grid is built with **box corners with M52S connectors**: the hang-on needs to be assembled with spacers, and an extra piece of 290 mm truss needs to be used in the span (spare parts 1, 3 and 4).







Scan the QR-Code
to watch the Hang-on82 technical video

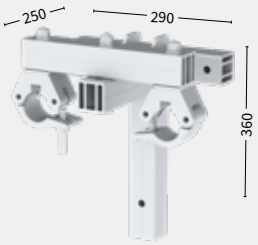
All measurements are in mm

M Wall adapter82

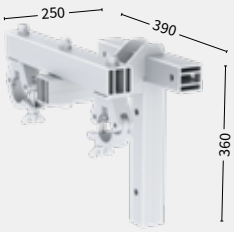
WHY WALL ADAPTER82?

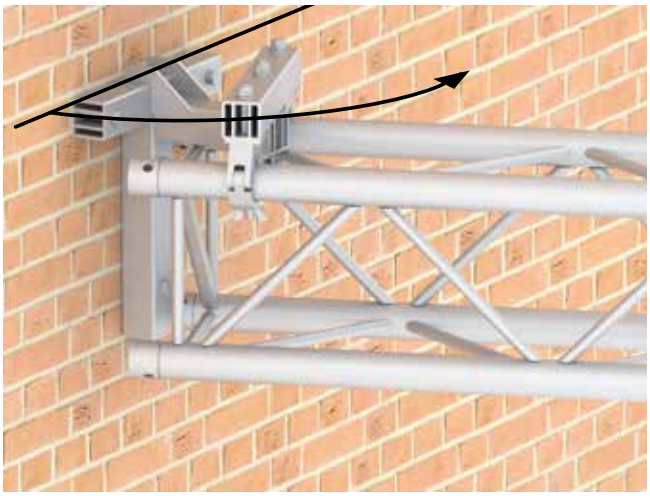
- Unique design
- The width is the same as the truss
- Adjustable position of clamps
- Can be used upright and upside down
- Suitable for triangle, square and rectangular shaped truss
- Can be positioned on an angle
- Suitable for M39R / M29S-T and M39S-T
- Load capacity 500 KG**

WALL ADAPTER M39R / M29S-T
212006 4.35 kg



WALL ADAPTER M39S-T
212009 4.65 kg



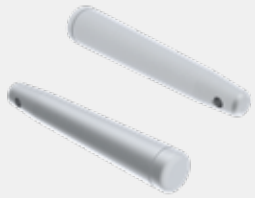


** Connection materials for the wall are not included.*

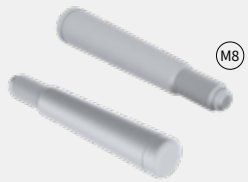
*** The individual wall to which the wall adapter will be connected need to be structurally sound to bear the loads.*

CONNECTOR M00
202001 0.15 kg

SPIGOT TPM03
202058 0.04 kg



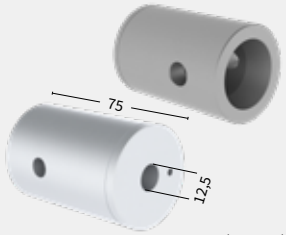
SPIGOT / THREAD TPM04
202059 0.04 kg



Nut M8 (815001)

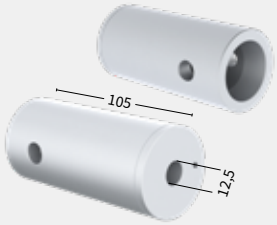
R-SPRING M05
202005

RECEIVER M51
202009 0.28 kg



Locator pin (811003)

RECEIVER M53
202026 0.36 kg

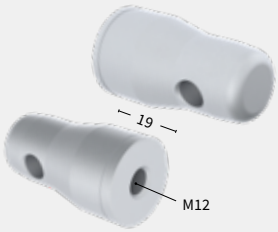


Locator pin (811003)

HALF CONNECTOR M52S
202008 0.14 kg

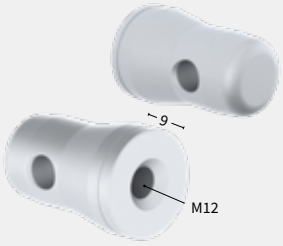
Locator pin (811003)

HALF CONNECTOR M02
202002 0.12 kg



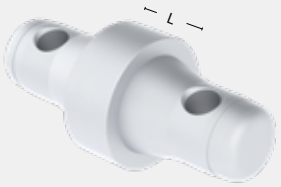
HALF CONNECTOR M50
202010 0.07 kg

HALF CONNECTOR M49
202007 0.1 kg



SPACER

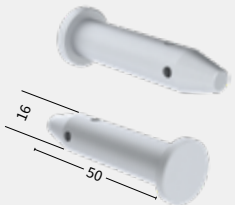
Code	Length	Weight
202011	2 mm	0.16 kg
202027	5 mm	0.18 kg
202012	10 mm	0.2 kg
202013	20 mm	0.25 kg
202014	30 mm	0.3 kg
202015	40 mm	0.36 kg
202016	50 mm	0.41 kg



HINGE MALE
202019 0.2 kg

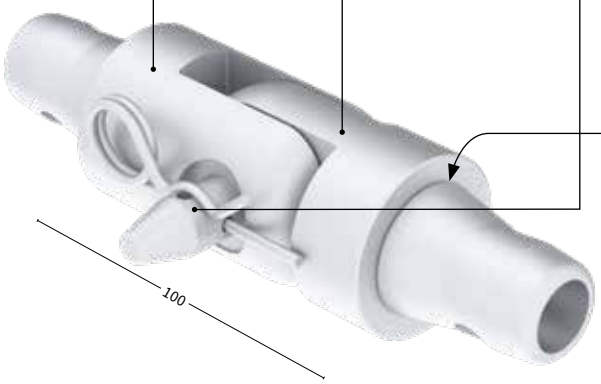
HINGE FEMALE
202018 0.28 kg

HINGE PIN
202020 0.12 kg



HANG-ON SAFE
251014 0.2 kg

COMPLETE HINGE SET
202041
M12 x 25 (817008)



LOCATOR PIN 3 x 8
811003

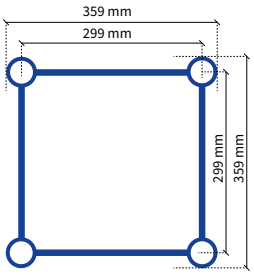
All measurements are in mm

Length

Corners

L35S **Length** Square

50 x 4 mm



12 kg/m

RFID READY

L

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ALU/BLACK

Square - L35S

Code	Length
151001	50 cm
151002	60 cm
151003	80 cm
151004	100 cm
151005	120 cm
151006	150 cm
151007	200 cm
151008	240 cm
151009	250 cm
151010	300 cm
151012	400 cm

Load table L35S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	2948.2	3	1865.9	4	1412.9	3	1146.1	4	2303.8	4
4.0	1873.0	12	1216.4	15	995.6	14	822.1	15	1146.5	15
6.0	1380.8	26	929.4	34	778.9	31	597.4	34	595.5	33
8.0	1085.3	47	747.2	60	595.8	56	465.6	60	330.3	58
10.0	886.2	73	620.1	93	477.9	87	378.1	93	207.5	91
12.0	741.7	105	525.7	134	394.9	125	315.3	134	140.8	132
14.0	630.9	143	452.0	183	332.7	170	267.5	183	100.6	179
16.0	542.6	187	392.6	239	284.0	222	229.7	239	74.5	234
20.0	408.3	292	300.8	373	211.2	347	172.6	373	43.8	365

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	2120.6	0	4618.3	0
1.0	1470.3	1	2114.9	1
1.5	1131.1	3	1163.5	2
2.0	931.9	8	730.8	5
2.5	790.6	17	501.9	8
3.0	684.8	30	372.6	13
3.5	602.4	49	287.3	18
4.0	536.4	75	228.0	25

Multiple supported span

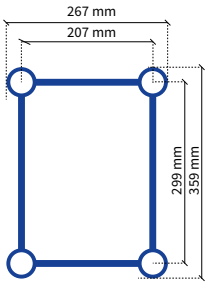
Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	2971.0	1	1586.3	1	1828.5	1
4.0	2005.9	4	1097.8	3	670.1	3
6.0	1537.5	10	837.4	9	340.7	8
8.0	1246.2	19	682.7	17	211.6	15
10.0	1038.2	31	571.1	28	143.2	25
12.0	880.9	46	486.0	41	102.5	37
14.0	756.6	62	418.5	56	76.2	51
16.0	655.2	80	363.1	73	58.2	66
20.0	497.3	119	276.5	108	35.7	112

Find complete loading tables on **SIXTY82.nl**

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

Length Rectangle



11 kg/m

RFID READY

L

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ALU/BLACK

Rectangle - L35R

Code	Length
154001	50 cm
154002	60 cm
154003	80 cm
154004	100 cm
154005	120 cm
154006	150 cm
154007	200 cm
154008	240 cm
154009	250 cm
154010	300 cm
154012	400 cm

Load table L35R

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	**kg**	**mm**	**kg**	**mm**	**kg**	**mm**	**kg**	**mm**	**kg/m**	**mm**
2.0	2948.5	3	1866.3	4	1413.3	3	1146.6	4	2305.1	4
4.0	1874.3	12	1217.2	15	996.5	14	822.7	15	1147.8	15
6.0	1383.3	26	930.9	34	780.4	31	598.6	34	596.9	33
8.0	1088.9	47	749.5	60	598.0	56	467.3	60	331.6	58
10.0	891.1	73	623.2	93	480.8	87	380.3	93	208.8	91
12.0	747.9	105	529.6	134	398.5	125	318.0	134	142.1	132
14.0	638.5	143	456.9	183	336.9	170	270.8	183	101.9	179
16.0	551.5	187	398.4	239	288.9	222	233.5	239	75.8	234
20.0	420.0	292	308.6	373	217.5	347	177.5	373	45.1	365

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	**kg**	**mm**	**kg/m**	**mm**
0.5	2121.1	0	4619.7	0
1.0	1470.9	1	2116.1	1
1.5	1132.0	3	1164.6	2
2.0	933.1	8	731.7	5
2.5	792.1	17	502.7	8
3.0	686.7	30	373.4	12
3.5	604.7	50	288.2	18
4.0	538.9	75	228.9	25

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	**kg**	**mm**	**kg**	**mm**	**kg/m**	**mm**
2.0	2972.9	1	1587.3	1	1829.9	1
4.0	2008.4	4	1099.0	3	671.1	3
6.0	1541.4	10	839.5	9	341.5	8
8.0	1251.8	19	685.7	17	212.4	15
10.0	1045.5	31	575.0	28	144.1	25
12.0	889.9	46	490.9	41	103.4	37
14.0	767.4	63	424.4	57	77.2	52
16.0	667.7	82	370.0	74	59.2	68
20.0	513.3	123	285.3	112	36.9	115

Find complete loading tables on **SIXTY82.nl**

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

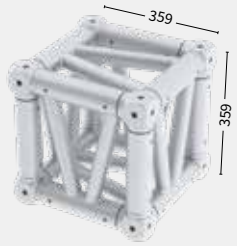
- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

L35

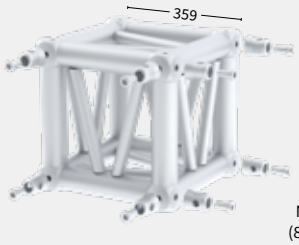
Corners

50 x 4 mm

BOX CORNER L35S
199008 — 21 kg

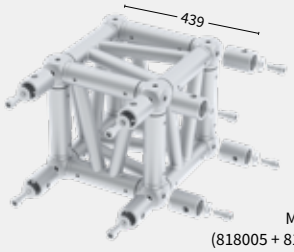


HALF CONNECTOR L52S
203024 — 0.27 kg



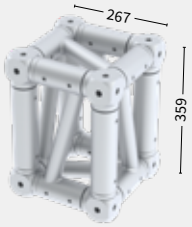
M16x30
(818035)

RECEIVER L51
203008 — 0.35 kg



M16x35
(818005 + 818006)

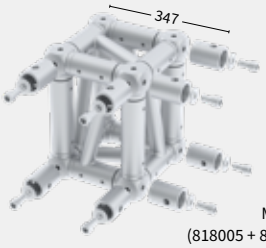
BOX CORNER L35R
199007 — 15.9 kg



HALF CONNECTOR L52S
203024 — 0.27 kg

M16x30
(818035)

RECEIVER L51
203008 — 0.35 kg



M16x35
(818005 + 818006)

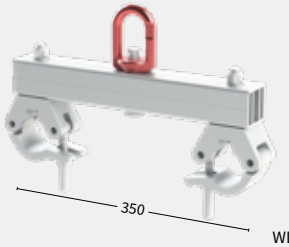
L35

Accessories

BASE PLATE L35S
211008 — 12 kg

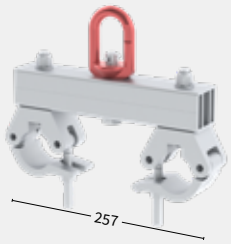
L02 + M16x40
(203002 + 818001)

LIFTING BRACKET L35S
212003 — 3.1 kg



WLL 1000 kg

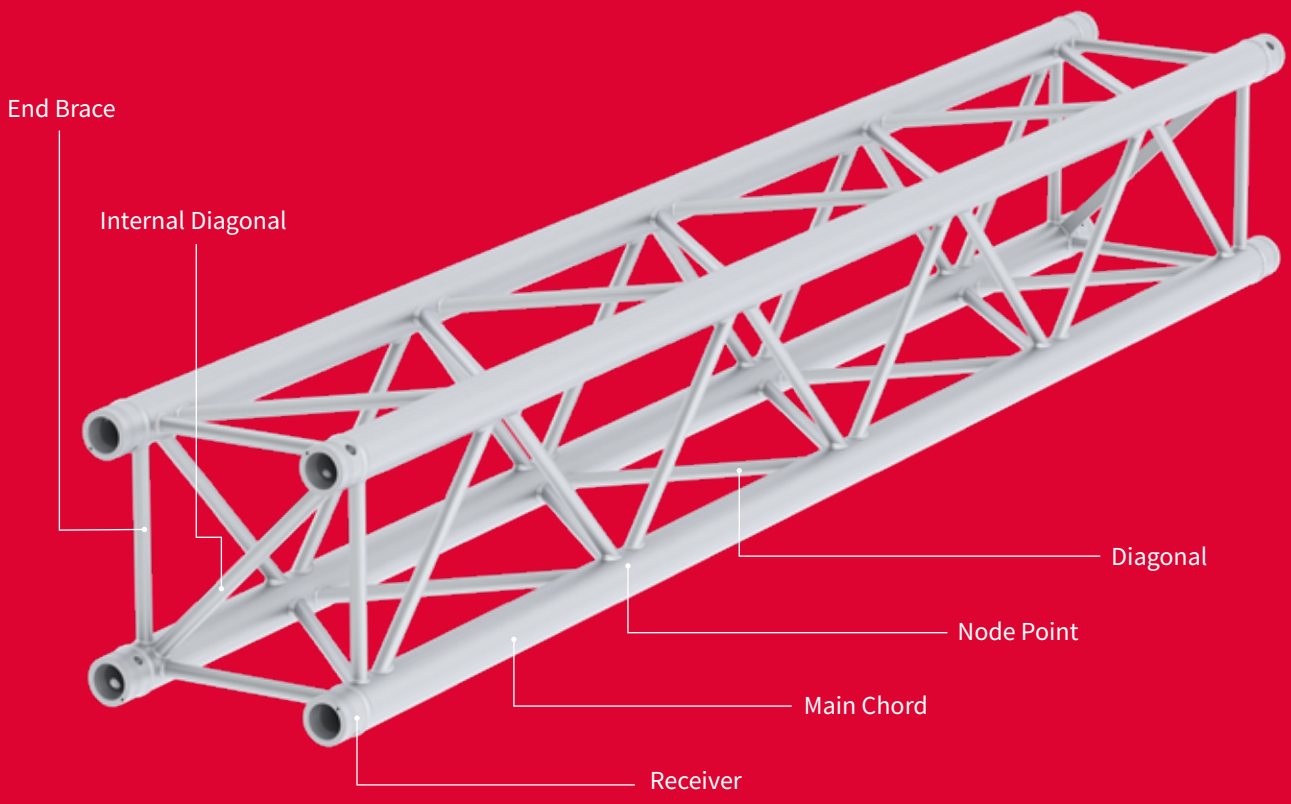
LIFTING BRACKET L35R
212004 — 2.85 kg

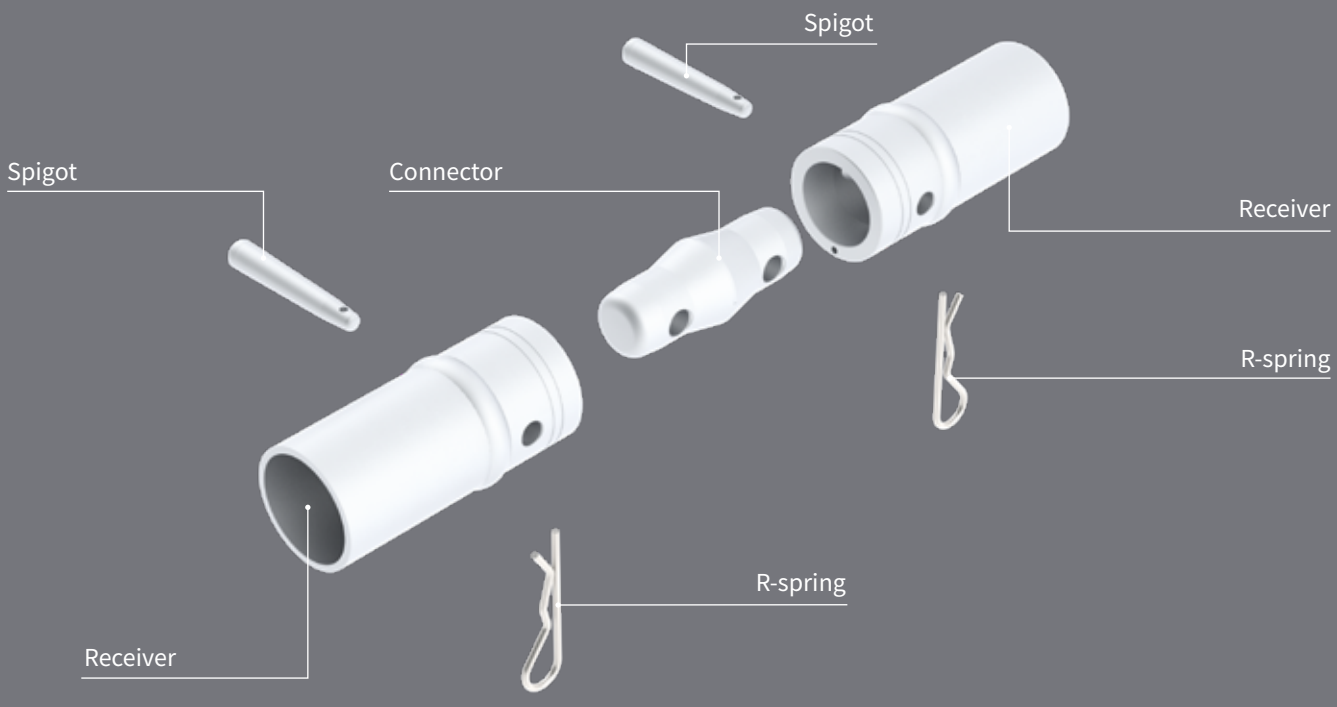


WLL 1000 kg

All measurements are in mm

Truss terminology... **what is what?**





For further information, please refer to the SIXTY82 original user manual.

Length

Corners

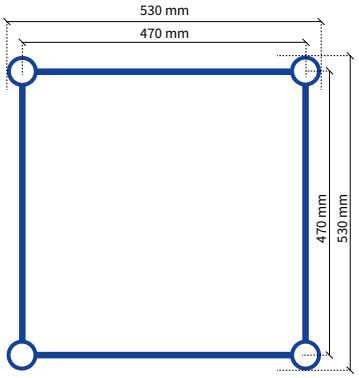
Circle

Middle Beam

Accessories

L52S **Length** Square

50 x 4 mm



15 kg/m

RFID READY

L

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ALU/BLACK

Square - L52S

Code	Length
161001	50 cm
161002	60 cm
161003	80 cm
161004	100 cm
161005	120 cm
161006	150 cm
161007	200 cm
161008	240 cm
161009	250 cm
161010	300 cm
161012	400 cm

Load table L52S

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
2.0	3735.9	2	2215.2	2	1611.5	2	1273.2	2	2827.1	2
6.0	1925.9	17	1245.2	22	1013.9	20	846.0	22	933.4	21
10.0	1296.6	47	877.7	60	725.7	56	559.1	60	329.6	59
14.0	953.6	92	663.6	117	517.3	109	407.2	117	161.6	115
18.0	731.5	152	519.7	194	389.2	180	310.7	194	92.4	190
20.0	646.0	187	463.2	239	341.1	222	273.8	239	72.3	234
22.0	571.9	227	413.7	290	300.1	269	242.1	290	57.4	283
24.0	506.8	270	369.7	345	264.4	320	214.3	345	46.1	337
26.0	448.6	317	330.1	404	232.9	376	189.6	404	37.3	396

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	2418.3	0	5497.5	0
1.0	1862.0	0	2411.9	0
1.5	1467.1	2	1406.2	1
2.0	1246.3	4	925.7	2
2.5	1082.1	9	654.0	4
3.0	954.3	17	484.6	7
3.5	851.8	28	380.2	10
4.0	767.7	44	306.4	13

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
2.0	3425.2	0	1808.2	0	2031.0	0
6.0	2016.4	5	1092.4	5	443.8	4
10.0	1443.8	18	787.8	16	193.3	14
14.0	1095.0	37	601.6	33	107.4	29
18.0	854.3	61	471.6	55	66.4	49
20.0	758.5	74	419.5	67	53.4	68
22.0	674.2	88	373.5	79	43.5	99
24.0	599.0	101	332.4	92	35.6	140
26.0	531.4	114	295.2	103	29.3	193

Find complete loading tables on **SIXTY82.nl**

All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
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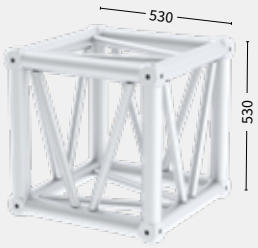
∅
50 x 4 mm

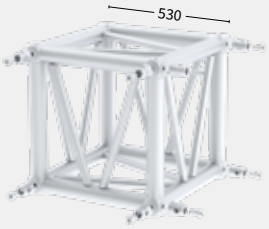
Corners

L52

BOX CORNER L52S
199009 — 27.4 kg

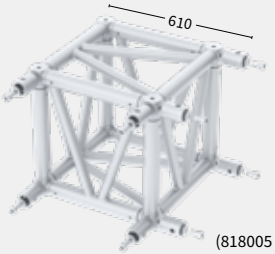


HALF CONNECTOR — **L52S**
203024 — 0.27 kg



M16x30
(818035)

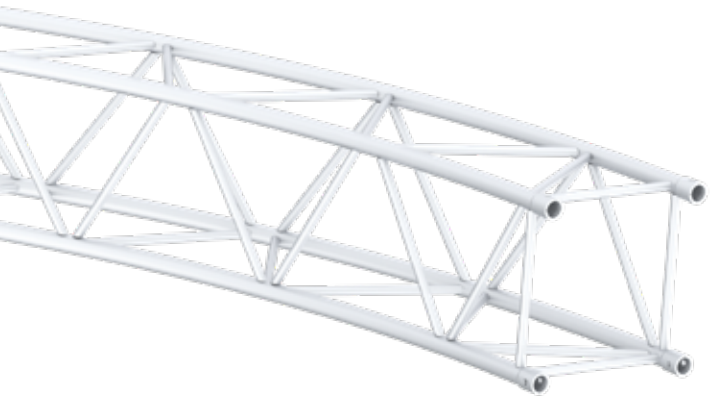
RECEIVER — **L51**
203008 — 0.35 kg



M16x35
(818005 + 818006)

Circles

L52



15 kg/m

L

ALU/BLACK

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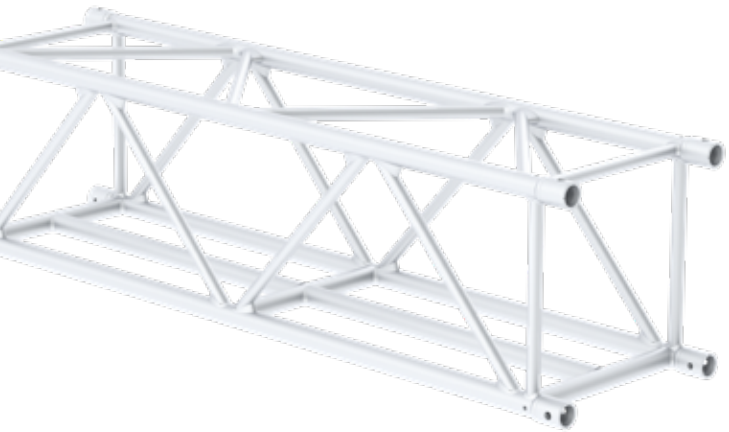
L52S Circle part

Code	∅ Diameter	Angle	Parts/Circle
163001	3 m	90	4
163002	4 m	90	4
163003	5 m	90	4
163004	6 m	90	4
163005	8 m	45	8
163006	10 m	30	12

- Subject to tolerance, because product is 100% handmade.

Middle beam

L52



12.6 kg/m

L

ALU/BLACK

RFID READY

P.142

L52 Middle Beam

Code	Length
166004	100 cm
166007	200 cm
166010	300 cm

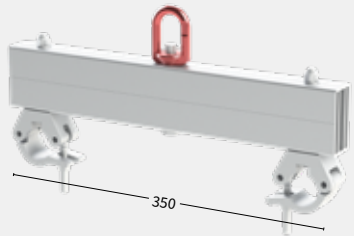
All measurements are in mm

Accessories

BASE PLATE L52S
211007 24.43 kg

L02 + M16x40
(203002 + 818001)

LIFTING BRACKET L52S
212005 4.72 kg



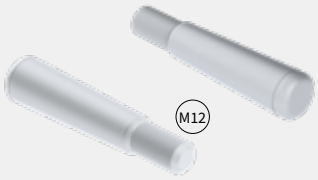
WLL 1000 kg

All measurements are in mm

CONNECTOR L00
203001 0.31 kg

SPIGOT L03
203003 0.12 kg

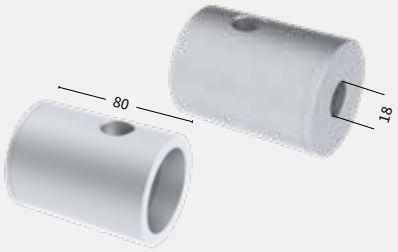
SPIGOT / THREAD L04
203004 0.12 kg



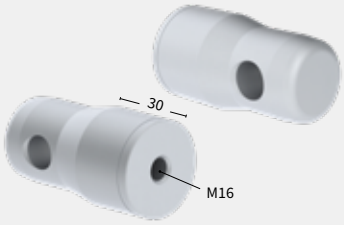
Nut M12 (817002)

R-SPRING L05
203005 0.01 kg

RECEIVER L51
203008 0.35 kg

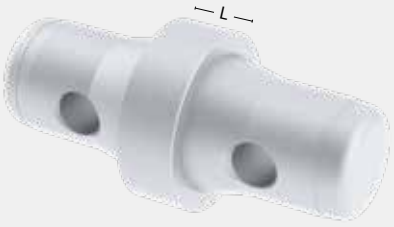


HALF CONNECTOR L02
203002 0.26 kg

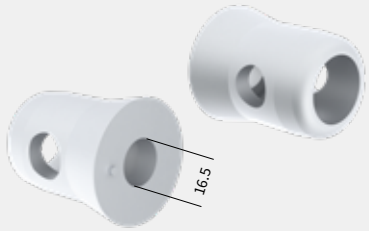


SPACER

Code	Length	Weight
203009	2 mm	0.3 kg
203010	5 mm	0.33 kg
203011	10 mm	0.36 kg
203012	20 mm	0.44 kg
203013	30 mm	0.51 kg
203014	40 mm	0.59 kg
203015	50 mm	0.67 kg



HALF CONNECTOR L52S
203024 0.27 kg



All measurements are in mm

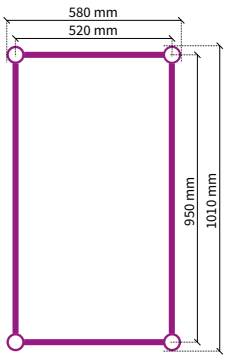
Length

Corners

Accessories

XL101R **Length** Rectangle

60 x 6 mm



25 kg/m

RFID READY

L

P.142

ALU/BLACK

Rectangle - XL101R

Code	Length
171001	80 cm
171002	100 cm
171003	120 cm
171004	200 cm
171005	240 cm
171006	250 cm
171007	300 cm
171009	400 cm
171011	480 cm

Load table XL101R

Span	CPL	Deflection	2 x load	Deflection	3 x load	Deflection	4 x load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg	mm	kg	mm	kg/m	mm
4.0	7034.6	4	4261.0	5	3139.5	4	2500.8	5	2993.4	5
12.0	3549.8	33	2322.7	42	1909.9	39	1549.9	42	808.3	41
16.0	2820.5	58	1894.7	74	1592.0	69	1218.3	74	444.8	73
20.0	2309.7	91	1582.3	116	1273.9	108	990.4	116	276.6	114
24.0	1926.6	131	1341.1	168	1044.8	156	821.8	168	185.2	164
28.0	1624.7	179	1146.9	228	869.5	212	690.4	228	130.1	223
32.0	1377.4	233	984.9	298	729.4	277	583.7	298	94.3	291
36.0	1168.6	295	846.1	377	613.3	350	494.3	377	69.8	369
40.0	987.9	364	724.2	465	514.5	432	417.4	465	52.3	455

Cantilever load

Span	1 x Load	Deflection	UDL	Deflection
m	kg	mm	kg/m	mm
0.5	5483.6	0	11737.1	0
1.0	4712.9	0	5472.8	0
1.5	4047.9	1	3382.1	0
2.0	3500.7	2	2346.6	1
2.5	3058.4	4	1736.7	2
3.0	2771.9	7	1340.4	3
3.5	2532.3	12	1066.0	4
4.0	2328.6	18	867.2	5

Multiple supported span

Span	CPL	Deflection	2 x Load	Deflection	UDL	Deflection
m	kg	mm	kg	mm	kg/m	mm
4.0	6638.8	1	3518.0	1	1991.3	1
12.0	3763.9	11	2037.5	10	409.3	8
16.0	3090.1	22	1683.6	19	257.1	17
20.0	2584.5	35	1415.0	31	175.2	28
24.0	2186.3	51	1201.7	46	125.3	53
28.0	1861.0	70	1026.1	63	92.5	98
32.0	1587.5	89	877.6	80	69.8	167
36.0	1352.0	107	749.2	97	53.3	267
40.0	1145.4	125	636.0	113	41.0	400

Find complete loading tables on **SIXTY82.nl**

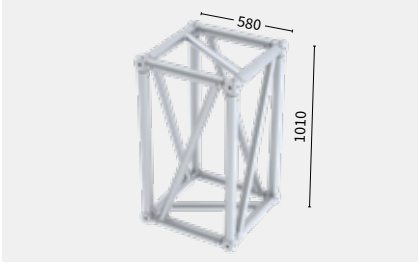
All loading data is based on calculations per EN-1999-1-1 and the following assumptions:

- Static loads only.
- Spans supported or suspended at both ends.
- Triangle trusses solely used apex-up, apex-down.
- 2 chords truss to be placed upright, supported from top chord and loaded from bottom chord.
- Truss spans can be constructed of elements of different length.
- Interaction between bending moment and shear force considered.
- Self-weight of truss is already considered.
- Assembled truss systems need an individual structural calculation. Please contact SIXTY82 or a structural engineer.
- Read the manual before use.
- Higher loading can be allowed depending on the truss configuration.

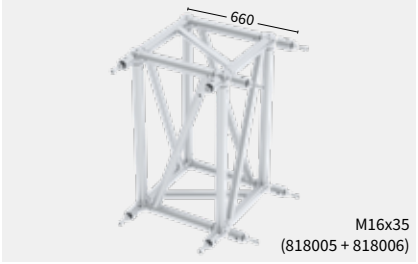
Corners Rectangle

XL

BOX CORNER XL101R
199010 — 34.5 kg



RECEIVER — **L51**
203008 — 0.35 kg

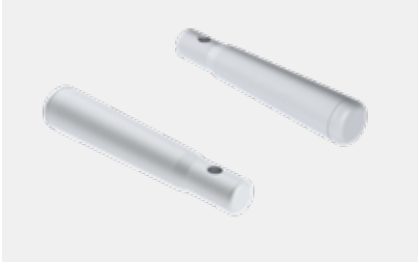


Accessories XL Series

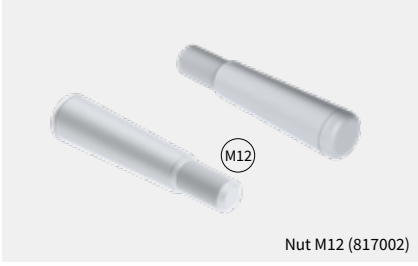
XL

CONNECTOR — **L00**
203001 — 0.31 kg

SPIGOT — **L03**
203003 — 0.12 kg

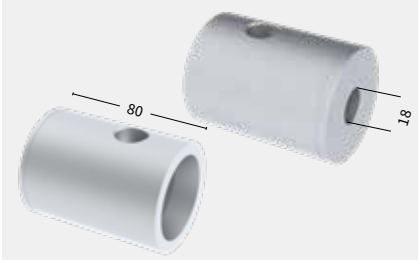


SPIGOT / THREAD — **L04**
203004 — 0.12 kg

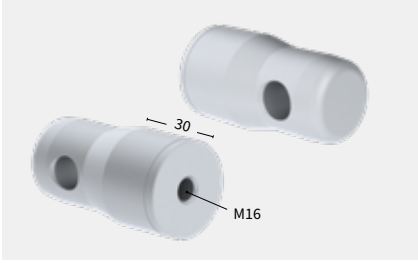


R-SPRING — **L05**
203005 — 0.01 kg

RECEIVER — **L51**
203008 — 0.35 kg

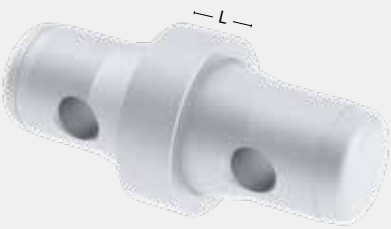


HALF CONNECTOR — **L02**
203002 — 0.26 kg

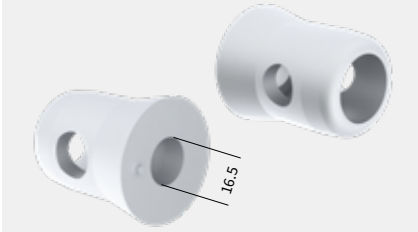


SPACER

Code	Length	Weight
203009	2 mm	0.3 kg
203010	5 mm	0.33 kg
203011	10 mm	0.36 kg
203012	20 mm	0.44 kg
203013	30 mm	0.51 kg
203014	40 mm	0.59 kg
203015	50 mm	0.67 kg



HALF CONNECTOR — **L52S**
203024 — 0.27 kg



SIXTY82™

ALPHA 82

MODULAR TRUSS SYSTEM

WORLDWIDE PATENT

Opening new doors

ALPHA82 is a brand-new patented truss system that you can configure to the job ahead. The unique ALPHA connectors can be connected to expertly designed ALPHA ladder trusses (sizes L52 and XL101) to form a 3D truss with similar strength compared to standard trusses with the same dimensions.

The ALPHA connector contains M12 size slots on all 4 sides enabling you to connect accessories such as lifting eyes, clamps, brackets, curtain tracks, trolley beams, braces and/or machinery.

Available in two sizes

Connectable to existing **L52S** and the **XL101R** truss
Available in 4 standard lengths:
50 cm, 100 cm, 200 cm and 300 cm.

Endless possibilities

Once delivered, you can assemble, configure, and let your creativity run free, using either our **'standard' ALPHA connector** or your own configuration to create the shape you need. You can easily adjust your 52 truss from 30 cm width up to 80 cm width with just a couple of bespoke ALPHA connectors and no further investment in truss parts. This results in a much more flexible inventory than your competitors, a lower storage cost due to less warehouse space and, ultimately, a better ROI.

L52 Single

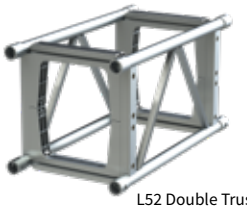
XL101 Single

I Beam

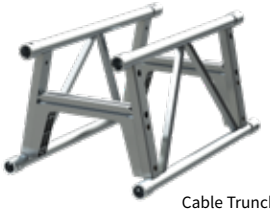
Stackable Truss

L52 Vertical Stacked

XL101 Vertical Stacked



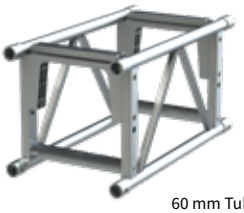
L52 Double Truss



Cable Trunck

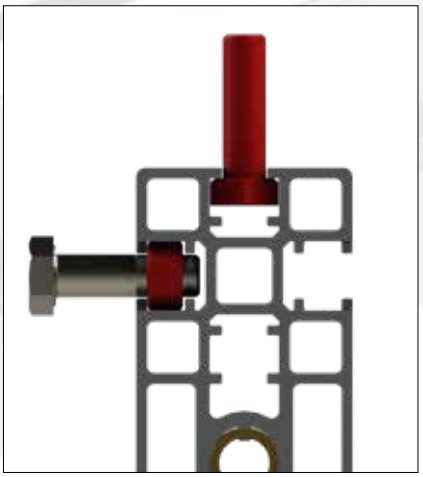
L52 Rectangle

Wheel Bracket



60 mm Tube

Stacked L52 Truss



Loading capacity of the Alpha Modular Truss System

Trusses designed from the game-changing **Alpha Modular Truss System** can have different sizes and shapes. To get an idea of the loading capacity of ALPHA trusses we highlight the **ALPHA L52S truss**. The ALPHA L52S truss has the same outer dimensions as the well-known welded L52S truss.

Depending on the ALPHA components chosen in the design of an ALPHA L52S truss, its loading capacities can exceed those of a standard L52S. Using a minimum of components for the ALPHA L52S truss may result in lower loading capacity and stability due to a reduced lateral stiffness depending on the length of a truss span, the amount of supports or the type of load. For custom configurations an ALPHA truss needs an individual structural analysis.

Loading Example:

ALPHA L52S truss with **ALPHA connectors** in the top only, has the same maximum loading capacity as an L52S single straight span or multiple supported span if:

1. The truss modules of the truss span are fully equipped with diagonals between the top chords.
2. The truss span has one diagonal per truss module and is horizontally supported at the top chords every 9 meter.
3. The truss span is horizontally supported at the top every 6 meter.
4. The truss span has equally divided hanging points at a distance of maximum 4.5 meter (multiple supported truss). Example: trusses used for trolley track systems.
5. The truss span is 9 meter long and has one diagonal between the top chords in every truss module.
6. The truss span is 6 meter long.

A reduction of the required loading can result in longer allowable spans, less components and no need for horizontal stabilisation.

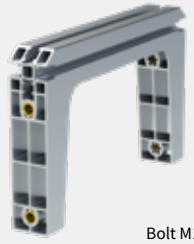
Load Capacity Bolt Channel

Type of Bolt Head of Nut	Max Load
M12 Hexagon Bolt Head	600 kg
M12 Hexagon Nut Din 934	600 kg

Values given are for vertical loads only.
Allowable loadings are based on Eurocode EN 1999.
Higher loads are possible. E.g. when square nuts or bespoke inserts are used.
The maximum load shall also be checked in relation with the length of the span of the ALPHA joint.

Technical data

AMTS CONNECTOR L52S
181001 — 2.2 kg



Bolt M16x045 DIN912

AMTS CONNECTOR L52 STACKABLE
181002 — 2.2 kg

Bolt M16x045 DIN912

AMTS CONNECTOR XL101
181003 — 2.4 kg

Bolt M16x045 DIN912

AMTS L52 LADDER

Code	Lenght	Weight
182001	50 cm	5.1 kg
182002	100 cm	7.1 kg
182003	200 cm	11.9 kg
182004	300 cm	16.7 kg

AMTS XL101 LADDER

Code	Lenght	Weight
182031	50 cm	8.5 kg
182032	100 cm	12.5 kg
182033	200 cm	21.9 kg
182034	300 cm	31.3 kg

VERTICAL CONNECTOR TUBE

Code	Type	Weight
183010	AMTS L52S	1.6 kg
183011	AMTS XL101	3.5 kg

including accessoires

DIAGONAL TRUSS
2.4 kg

Code	Type	Length
183001	AMTS L52	100 cm
183002	AMTS L52	200 cm
183003	AMTS L52	300 cm
183004	AMTS XL101	100 cm
183005	AMTS XL101	200 cm
183006	AMTS XL101	300 cm

including accessoires

CROSS TUBE 60MM

Code	Type
183012	AMTS L52S
183013	AMTS XL101

Bolt M16x045 DIN912

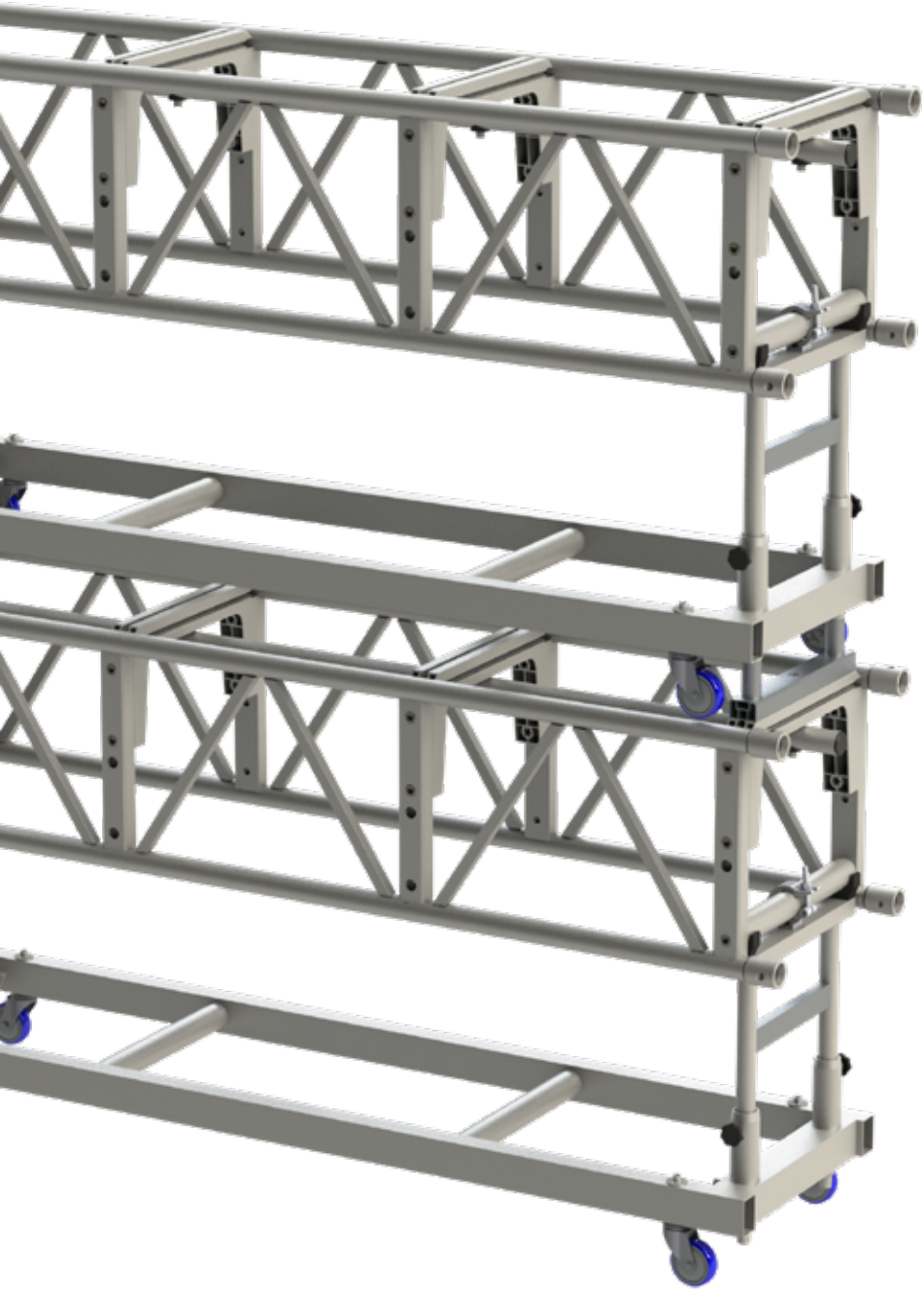
AMTS WHEEL BRACKET SINGLE
183014 — 1.9 kg

including accessoires

Scan the QR-Code
to watch the ALPHA82 video

ALPHA
Pre-rig Truss

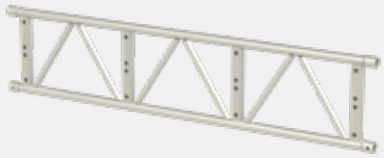
Introducing the ALPHA82 Pre-rig Truss - the latest addition to our ALPHA truss system. As a leading truss manufacturer, we understand the needs of the AV industry, which is why we've designed the ALPHA82 Pre-rig Truss to offer a convenient and efficient pre-rigged solution that can save time and effort during installation.



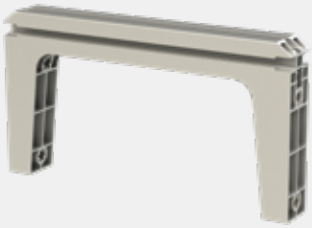
The **ALPHA82 Pre-rig Truss** is a modular truss system that can be easily configured and assembled to fit any venue or event space. The **ALPHA82 Pre-rig Truss** is designed with the **ALPHA connectors** that allow for easy attachment of various accessories, including lifting eyes, clamps, brackets, curtain tracks, trolley beams, braces, and machinery. This gives you the flexibility to add the fixtures and equipment that you need for your specific event.

To make installation even more effortless, we offer a foldable dolly that can be used to transport and set up the **ALPHA82 Pre-rig Truss**. The dolly is compact and easy to maneuver, making it ideal for events with tight deadlines or limited setup time.

AMTS Pre-Rig ladder 240cm 2
182011 14.5kg



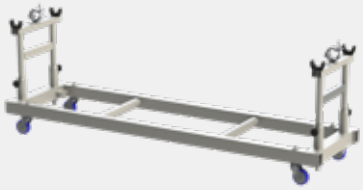
AMTS connector Pre rig 4
181005 2.5kg



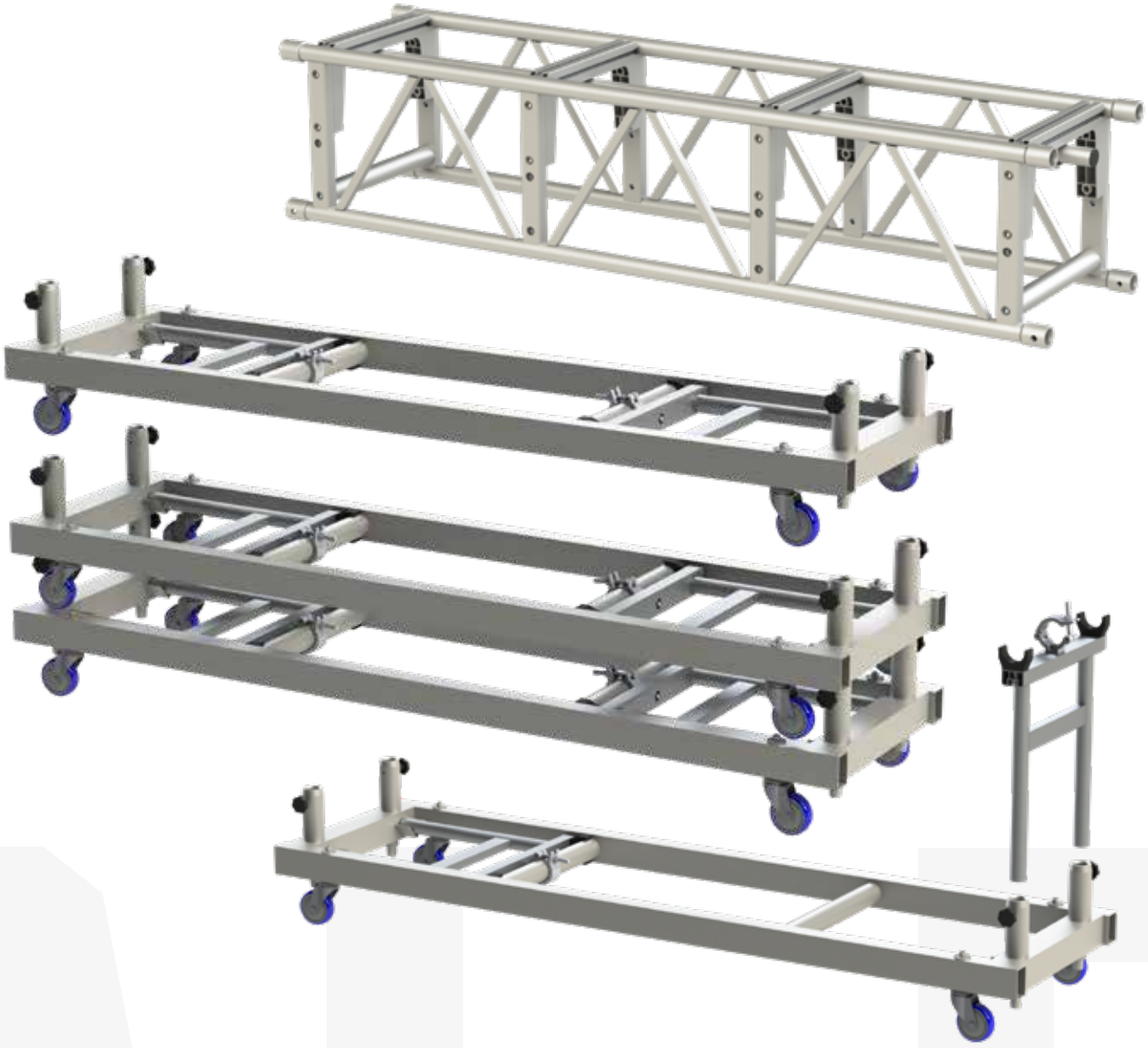
AMTS middle tube 50x4 240cm 1
183029 4.32kg

AMTS Pre-rig cross tube 60mm 2
183026 1.4kg

AMTS Pre-Rig Dolly 240cm 1
183025 27.5kg

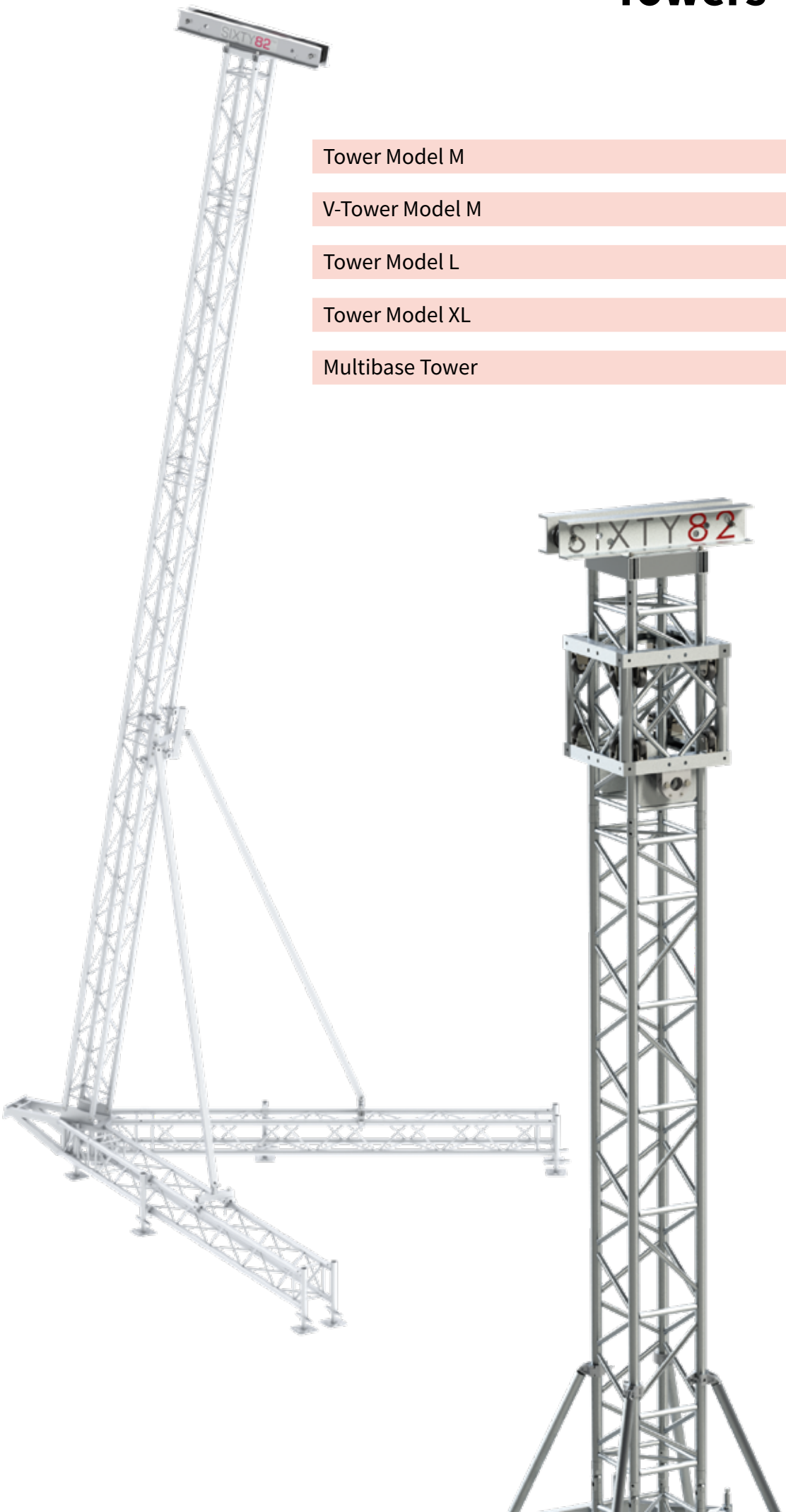


AMTS Pre-rig Stacker 2
183030 1.5kg

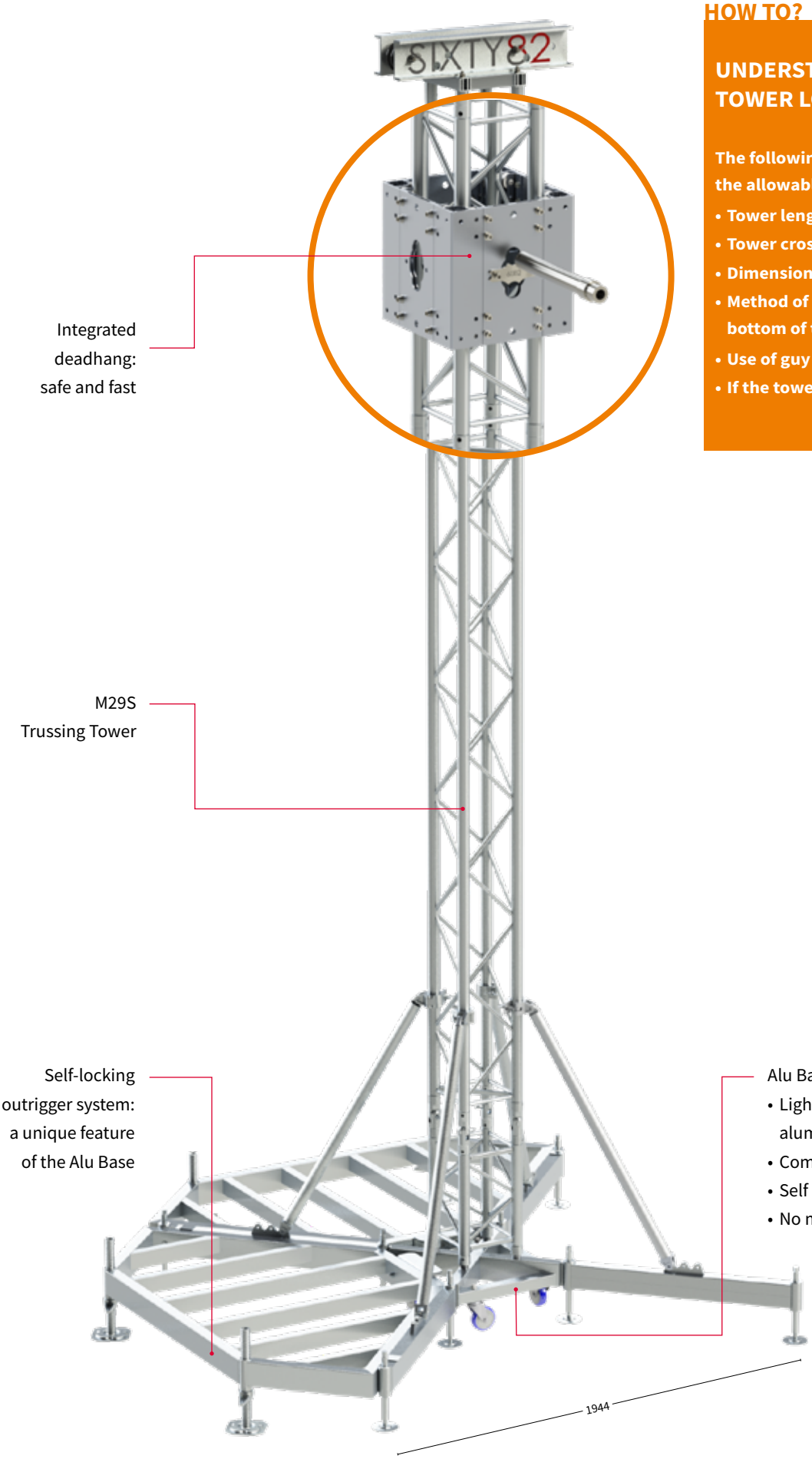



SIXTY82

Towers



Tower Model M



HOW TO?

UNDERSTANDING TOWER LOADING

The following variables determine the allowable tower loading:

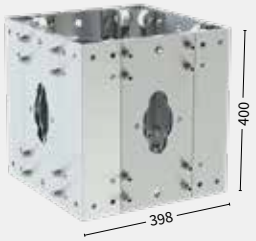
- **Tower length**
- **Tower cross sectional dimensions**
- **Dimension of chords**
- **Method of restraining top and bottom of the tower**
- **Use of guy wires**
- **If the tower base is ballasted**

All measurements are in mm

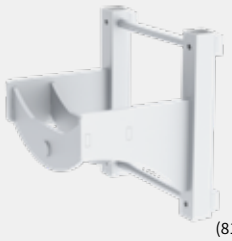
WHY SLEEVE BLOCK PLATED?

- Completely bolted to avoid weakening due to welding
- Lighter weight due to use of special alloys
- Integrated deadhang system
- Deadhang system restrains the sleeve block in 2 directions, therefore optimised for roof systems
- Radiused edges for ease of handling

SLEEVE BLOCK M29/M39
232001 — TM10 — 25.2 kg



MOTOR BRACKET
234003 — TM10 — 6.47 kg



M12x100
(817018 + 817002)

HORSE SHOE
232006 — TM10 — 0.31 kg

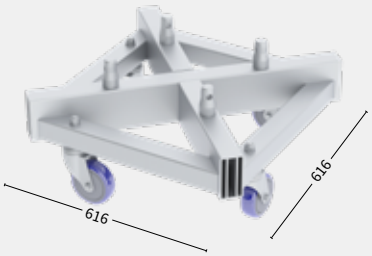
Including accessories

HEAD SECTION
233001 — TM09 — 7.3 kg

SAFE SYSTEM M29S
232010 — TM10 — 7.8 kg

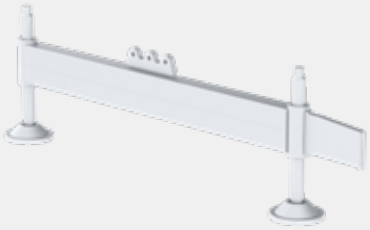
SAFE PIN M29S
232011 — TM10 — 4 kg

ALU BASE
231001 — TM04 — 12.9 kg

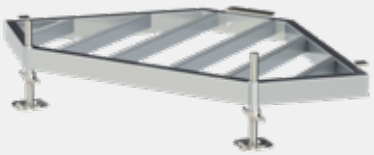


SHORT OUTRIGGER
231002 — TM11 — 3.1 kg

LONG OUTRIGGER
231003 — TM12 — 10.1 kg



BALLAST FRAME TOWER M
234023

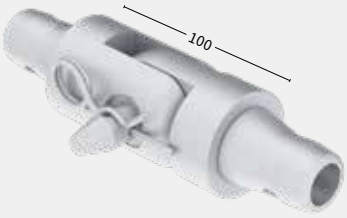


Scaff spindle 40 cm (251013)

MOTOR BRACKET BASE
234019 — TM04 — 3.9 kg

WLL 1000 kg

HINGE PART
202041 — 1.75 kg

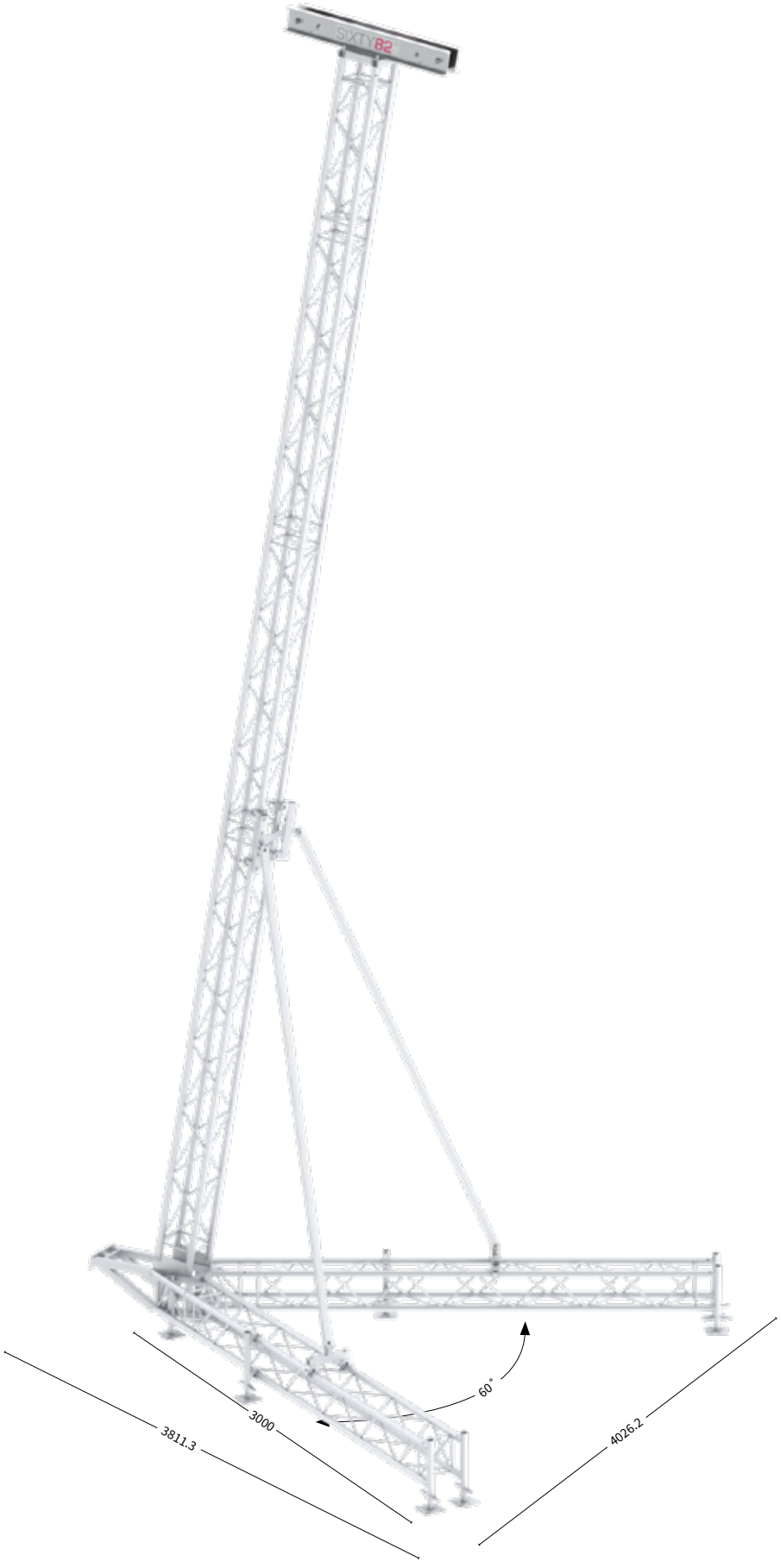


STABILISER M/L
234005 — 2.11 kg

Locking pin (202025)

All measurements are in mm

V-Tower Model M



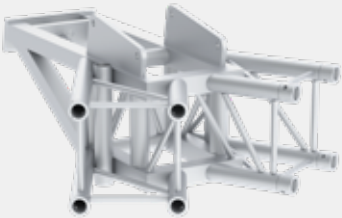
WHY V TOWER MODEL M?

- **Self-Standing tower system to hang PA systems**
- **Minimal ballast required due to its shape**
- **Faster to build, compared to similar systems**
- **Complies with latest EN13814 standard for temporary structures**
- **Small footprint**
- **Use of standard M29S trusses**
- **Lifting help available**

Technical specifications

- Max load 800 kg H = 750 cm
- Front surface 250 cm^2
- Side surface 125 cm^2
- Stabilizing profile
  50 x 50 x 4 x 4 reinforced
- Max windspeed in service 20 m/s

VT CORNER M29S
631002 22.5 kg

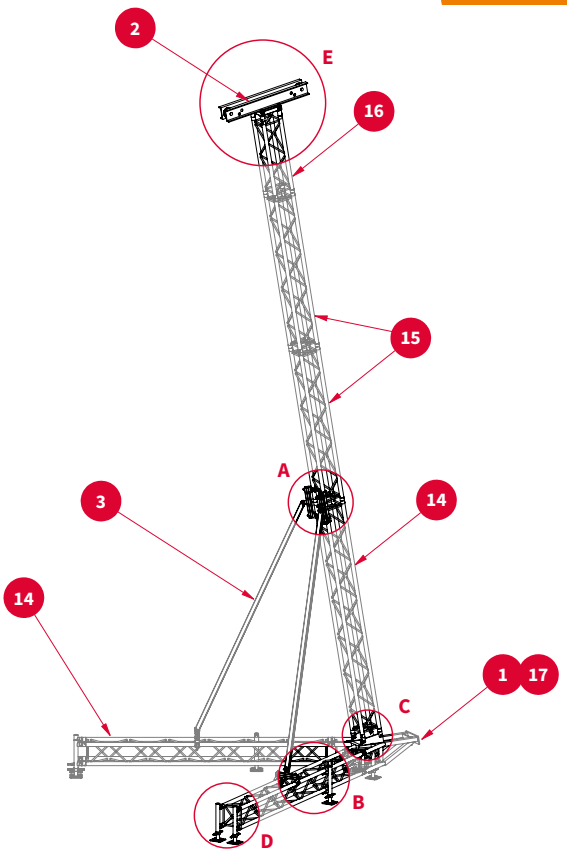


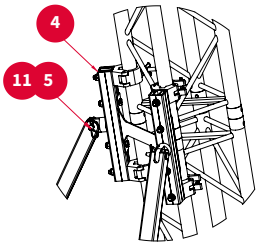
VT HEAD SECTION M29S
631003 16.5 kg

All measurements are in mm

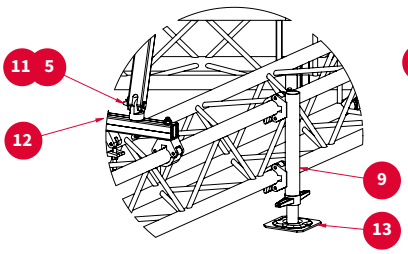
Parts

631002	**1**	VT corner M29S
631003	**2**	Head section VTM09
631006	**3**	VT Stabiliser M29S
631008	**4**	VT Stabiliser adapter
202020	**5**	Hinge pin M
817008	**6**	Bolt M12x025 low head
202008	**7**	Half connector M52S
202018	**8**	Hinge female
251002	**9**	Scaff spindle adapter M29 clamp
251010	**10**	Scaff spindle adapter M29 receiver
203005	**11**	R-spring L05
631005	**12**	VT Stabiliser bracket M29S
251013	**13**	Scaff spindle 40 cm
128010	**14**	M29S-L300
128008	**15**	M29S-L200
128006	**16**	M29S-L100
631007	**17**	VT Erecting help

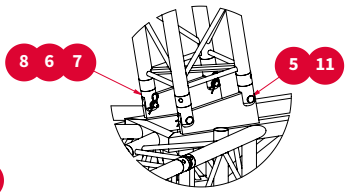




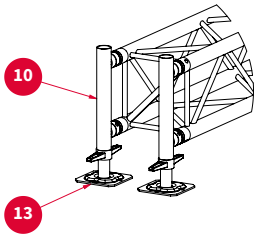
DETAIL A



DETAIL B

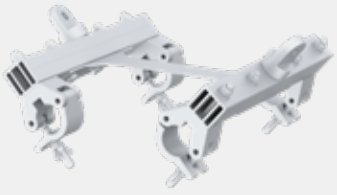


DETAIL C



DETAIL D

VT STABILISER ADAPTER
631004 — 6.8 kg

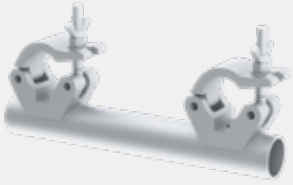


VT STABILISER BRACKET M29S
631005 — 2.5 kg

VT STABILISER M29S
631006 — 9 kg

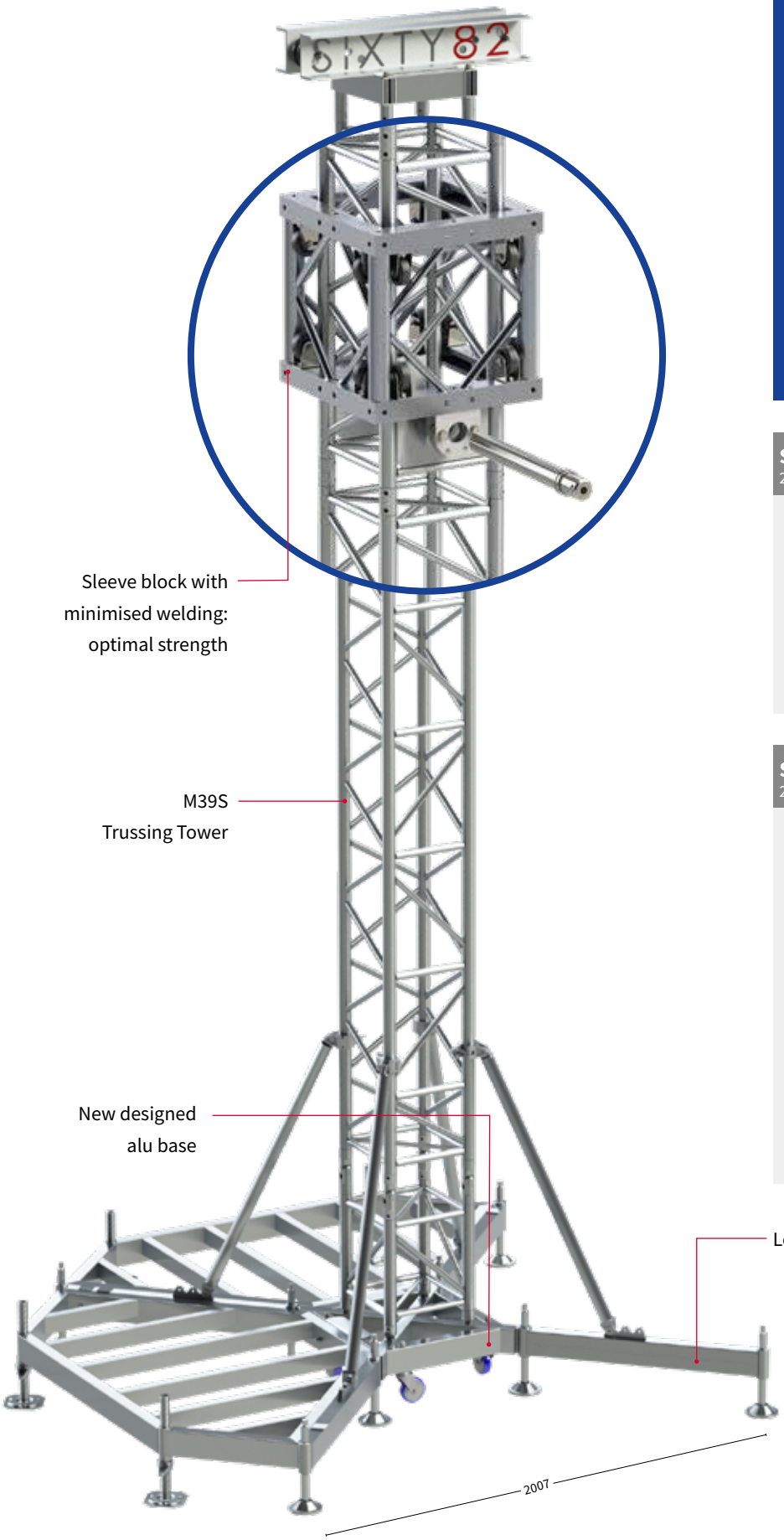
VT ERECTING HELP M
631007 — 14.5 kg

SCAFF SPINDLE ADAPTER CLAMP
251002



SCAFF SPINDLE ADAPTER RECEIVER
251010

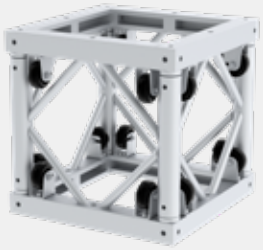
Tower Model L



WHY TOWER MODEL L?

- **Light weight sleeve block with minimised welding for optimal strength**
- **Modular concept allowing multiple configurations**
- **Tower truss with integrated ladder and diagonal bracing on all sides for optimum strength**
- **Slim design, less bulky footprint**
- **Sleeve blocks available for all kind of horizontal truss spans**

SLEEVE BLOCK L52S **TL10**
232004 40 kg



SLEEVE BLOCK XL101R-F **TL10**
232005 57.5 kg

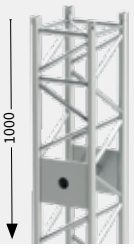
All measurements are in mm

HEAD SECTION
233002 — TL09 — 27 kg

MOTOR BRACKET
234006 — TL10 — 12 kg

M16x120
(818011 + 818009)

SAFE SYSTEM M39S
192011 — TL10 — 16 kg



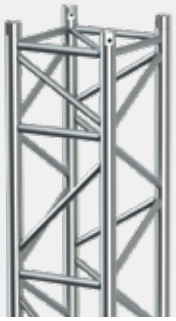
SAFE PIN M39S
232019 — TL10 — 3.89 kg

HORSE SHOE
232012 — TL10 — 0.3 kg

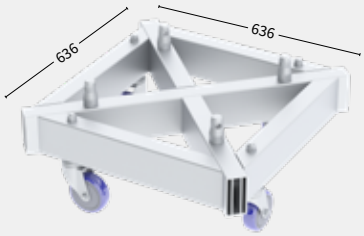
Bolts into sleeveblock

M39TOW

Code	Length
192001	50 cm
192002	100 cm
192003	150 cm
192004	200 cm
192005	250 cm
192006	300 cm
192007	350 cm
192008	400 cm



ALU BASE
231004 — TL04 — 17 kg

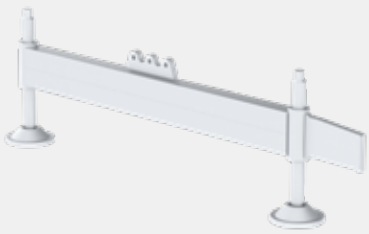


STABILISER M/L
234005 — 2.11 kg

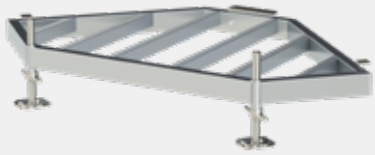
Locking pin (202025)

SHORT OUTRIGGER
231005 — TL11 — 4.32 kg

LONG OUTRIGGER
231006 — TL12

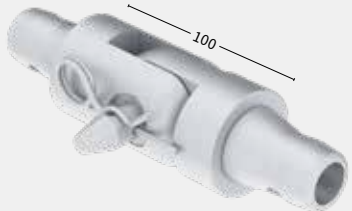


BALLAST FRAME TOWER L
234022



Scaff spindle 40cm (251013)

HINGE PART
202041 — 1.75 kg



ERECTING SYSTEM L
234007 — 55.5 kg

All measurements are in mm

Tower Model XL

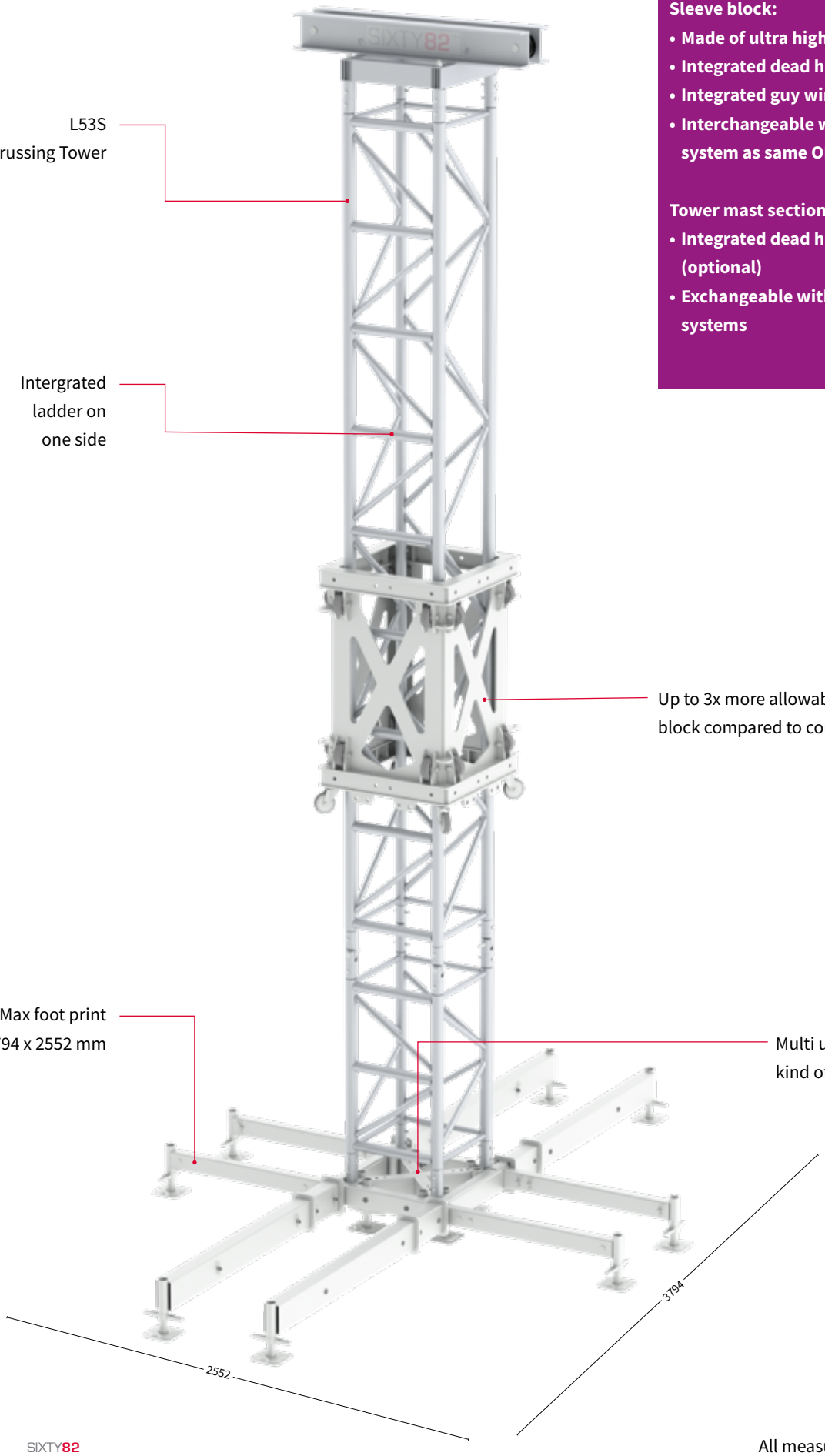
WHY TOWER MODEL XL?

Sleeve block:

- **Made of ultra high strength steel**
- **Integrated dead hang point**
- **Integrated guy wire attachments**
- **Interchangeable with conventional system as same OD**

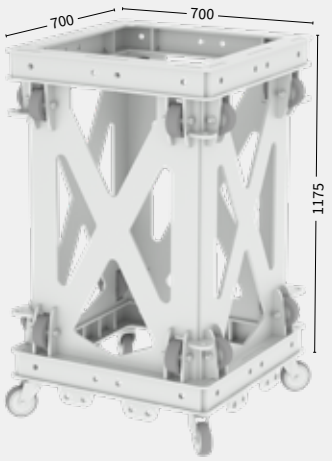
Tower mast sections:

- **Integrated dead hang point (optional)**
- **Exchangeable with conventional systems**

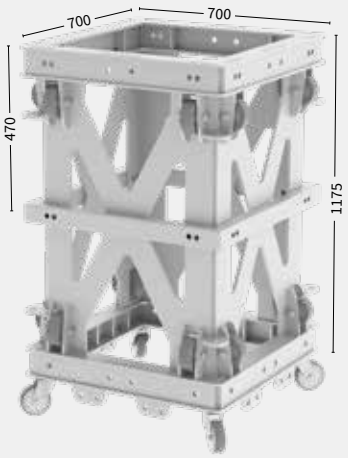


All measurements are in mm

SLEEVE BLOCK XL101R-F
232008 — TXL10 — 230 kg

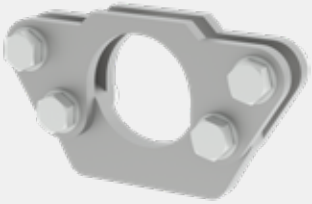


SLEEVE BLOCK XL101F-R/L52S
232009 — TXL10



HEAD SECTION
233003 — TXL09

HORSE SHOE
232016 — TXL10

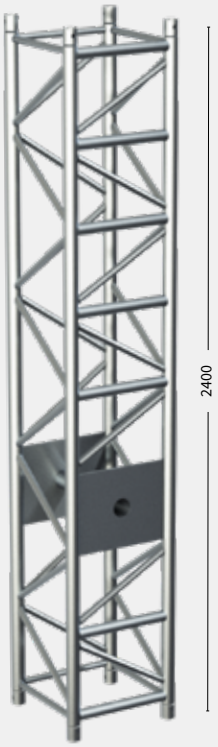


SAFE PIN L53S
232017 — TXL10

L53TOW

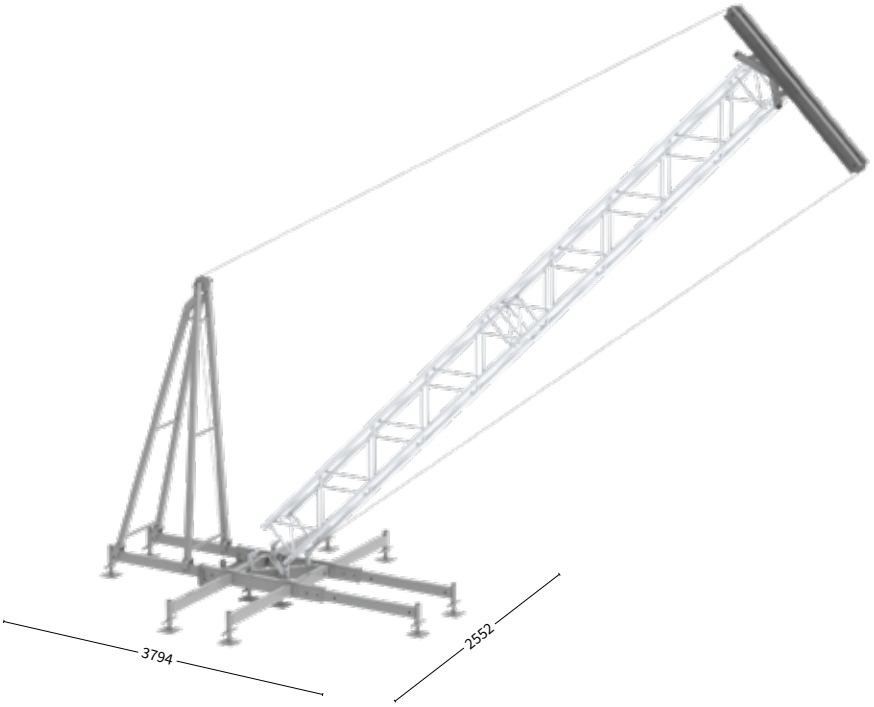
Code	Length
193001	50 cm
193002	100 cm
193003	200 cm
193004	300 cm
193005	400 cm

SAFE SYSTEM L53S
193007 — TXL10



All measurements are in mm

Multibase Tower

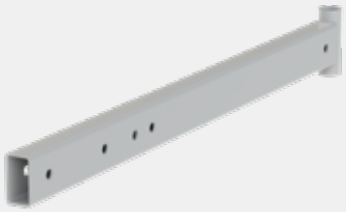


WHY MULTIBASE TOWER?

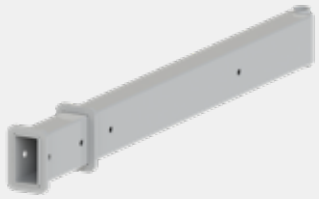
- Multi usable base for all kind of outdoor structures
- Self erecting by means of chain hoist
- Adapts to many different truss types
- Calculated and proven concept
- Can be used in conjunction with roof systems
- One size fits all head section
- Optional truss head
- Head section comes with multiple suspension points
- Calculated for coastal area (WS4) in Germany

MT BASE UNIT
231010 — 67 kg

MT OUTRIGGER M
231012 — 10 kg

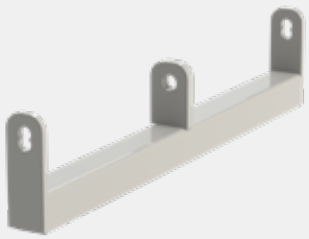


MT OUTRIGGER L
231013 — 22.5 kg



MT ERECTING SYSTEM
234012 — 49 kg

MT HOIST BRACKET
234013 — 5.1 kg



MT HEAD SECTION
233005 — 46 kg

MT CROSS — **C52**
233006 — 11 kg

SCAFF SPINDLE 20 CM
251012 — 2.16 kg

L-PIN 16-135
811008 — 0.25 kg

All measurements are in mm

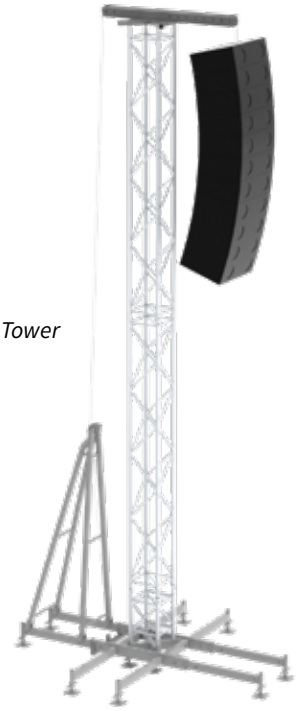
PA Tower	truss type	tower truss	Max. Pay Load	Front dimen-sions	Side dimen-sions	Ballast front	Ballast back	Ballast side	Ballast total	Ballast during erection
V1	L52S	10 m	1000 kg	6 m²	3.4 m²	-	1000 kg	2 x 1000 kg	3000 kg	2 x 500 kg (side)
V2	L52S	10 m	1000 kg	6 m²	3.4 m²	-	400 kg	2 x 1000 kg	2400 kg	2 x 500 kg (side)
V3	L52S	10 m	800 kg	5 m²	3.4 m²	-		2 x 1000 kg	2000 kg	2 x 500 kg (side)
V4	L52S	10 m	600 kg	4 m²	3.4 m²	-		2 x 900 kg*	1800 kg	2 x 500 kg (side)
V5	L52S	10 m	400 kg	3 m²	2 m²	-		2 x 400 kg*	1600 kg	2 x 500 kg (side)
V6	L35S	8 m	800 kg	3.5 m²	2 m²	300 kg**	400 kg	-	700 kg	400 kg (back)
V7	M39S / M39TOW	8 m	600 kg	3 m²	2 m²	200 kg**	400 kg	-	600 kg	400 kg (back)
V8	M29S	6 m	500 kg	3 m²	2 m²	200 kg**	200 kg	-	400 kg	400 kg (back)
Tech Tower										
V9	L35S / M39S / M39TOW	8 m	4 x 150 kg	4 x 1 m²	4 x 1 m²	-	-	2 x 600 kg	1200 kg	
V10	M29S	6.5 m	4 x 150 kg	4 x 1 m²	4 x 1 m²	-	-	2 x 400 kg	800 kg	
LED Portal										
						Every base				
V11	L52S	8 m incl. corner	LED 2000 kg PA 2 x 600 kg	LED 28 m² PA 2 x 4 m²	-	1000 kg	1000 kg	2 x 600 kg**	3200 kg	600 kg (back) or 2 x 500 kg side
V12	L35S	7 m incl. corner	LED 1000 kg PA 2 x 600 kg	LED 19.25 m² PA 2 x 2.5 m²	-	400 kg	400 kg	2 x 500 kg**	2200 kg	600 kg (back) or 2 x 500 kg side
V13	M39TOW / L52S	7 m incl. corner	LED 1000 kg PA 2 x 600 kg	LED 17 m² PA 2 x 1.5 m²	-	400 kg	400 kg	2 x 500 kg**	2200 kg	600 kg (back) or 2 x 500 kg side

* 50% of the payload may be subtracted proportionally from the ballast.

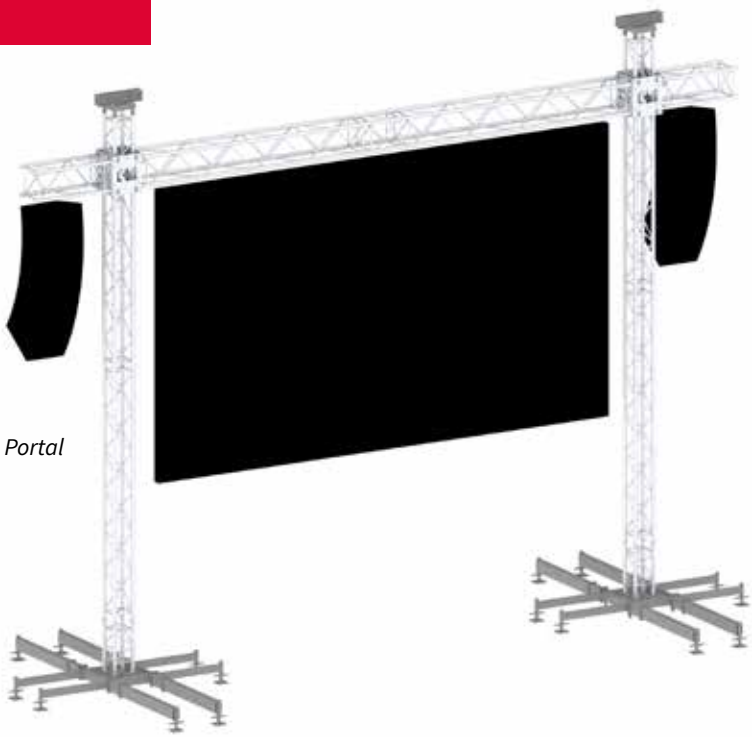
** The payload may be subtracted proportionally from the ballast.

Scan the QR-Code

to watch the Multibase Tower technical video

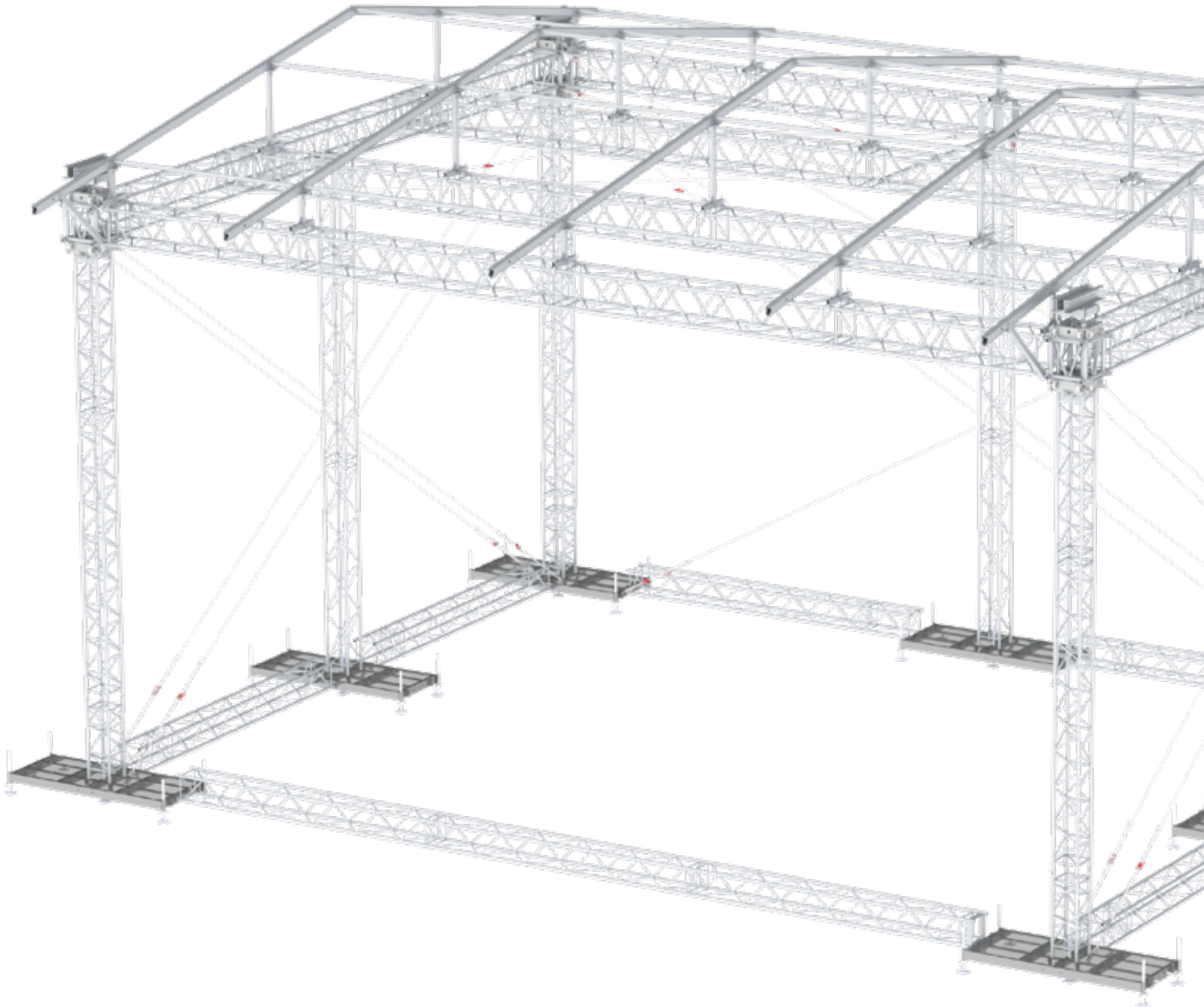


PA Tower



LED Portal

Roof Systems



Arc Roof

WHY ARC ROOF?

- **Versatile temporary roof structure based on standard trusses**
- **No obstructing guy wires in sides**
- **Bespoke corners can be combined with Model M tower sleeve**
- **Competitively priced**
- **High loading compared to size**
- **Easy set-up by hand or material lifts**
- **Structurally calculated and proven concept**
- **Full aluminium structure**
- **Many options for staging or substructure**
- **Complies with European standards for temporary structures**

	6 x 4 meter *	8 x 6 meter*	10 x 8 meter*
Loading capacity UDL	2100 kg	2441 kg	2502 kg
Loading capacity front cantilever	2 x 250 kg		
Self weight incl. wall canopies	610 kg	682 kg	1282 kg
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)		
Max peak gust wind speed out-of-service	28 m/s		
Max peak gust wind during erecting	10 m/s		
Ballast	Depends on configuration		
Dimensions structure	See drawings		
Dimensions inside for stage platform	6 x 4 m	8 x 6 m	10 x 8 m
Trusses	M29S / M29T		
Canopy	Standard: grey/ black Optional: transparent Optional: other colors		
Staging	Several options possible like aluminium scaffolding system Subframe B		
Structural calculations	EN 13814 / Euro codes		
Miscellaneous	• Canopies fitted in kedar profile • No guy wires in side walls • Optional side wings • Baubuch on request • Structural calculations per EN 13814		

** All data is based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

WHY ARC ROOF?

Boxcorner Adapter

- Machined plated adapter.
- Zero tolerance fitting of curved parts
- Compatible for triangle and square trusses
- Mountable on standard M29S Box corner

Stabilizer Tubes

- One tube, two pins.
- Hole integrated in curved truss
- Increases building speed
- Machined part adapter.

Sleeveblock Adapter

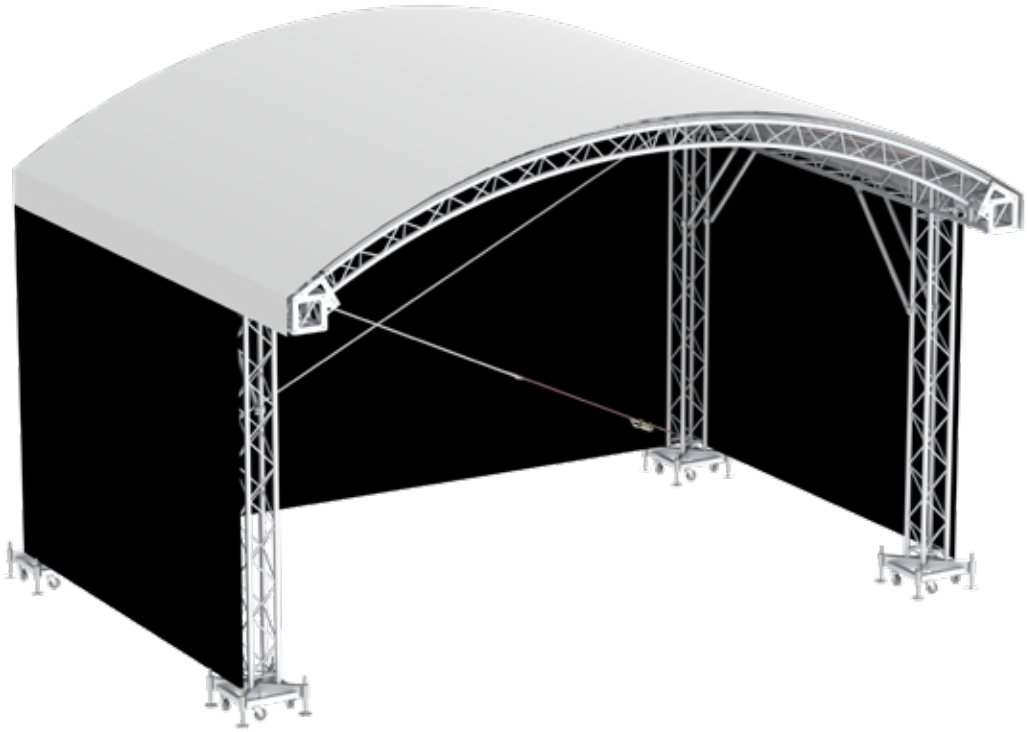
- Interchangeable with box corner adapter.
- Zero tolerance fitting of curved parts
- Compatible for triangle and square trusses
- Mountable on standard plated sleeveblock.

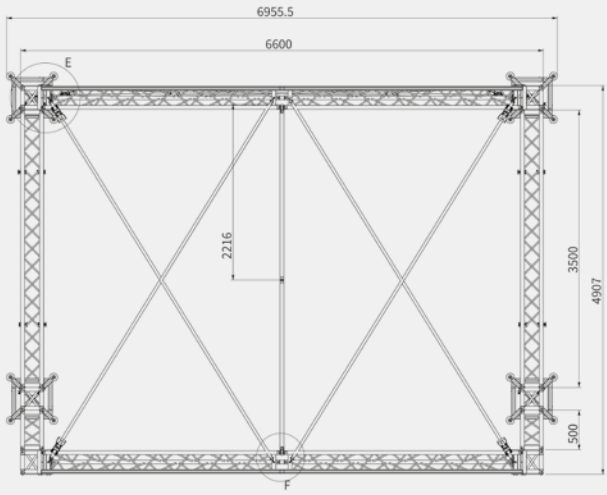
Ratchet Straps

- Hole integrated in curved truss
- Increases building speed

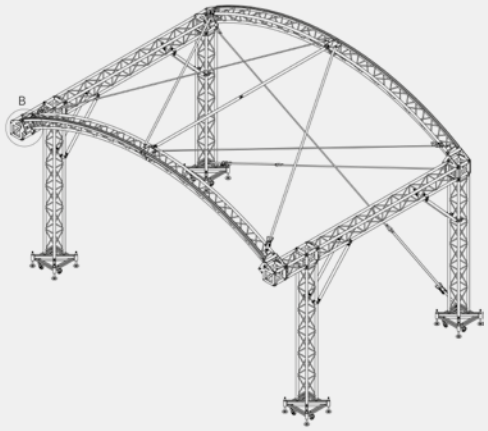
Arc Roof

6 x 4 meter

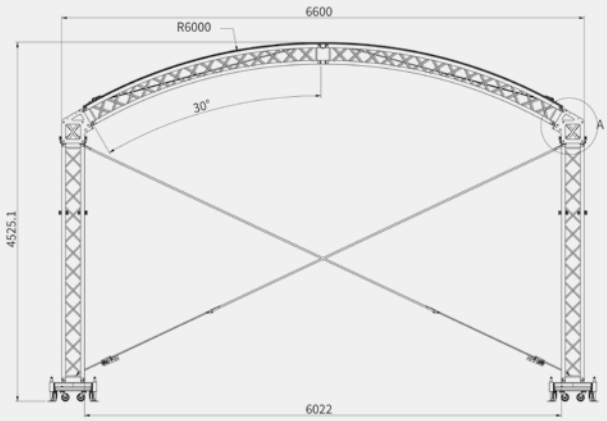




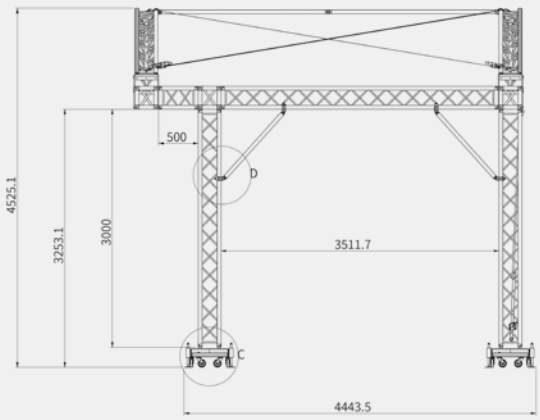
Top view



3D view



Front view

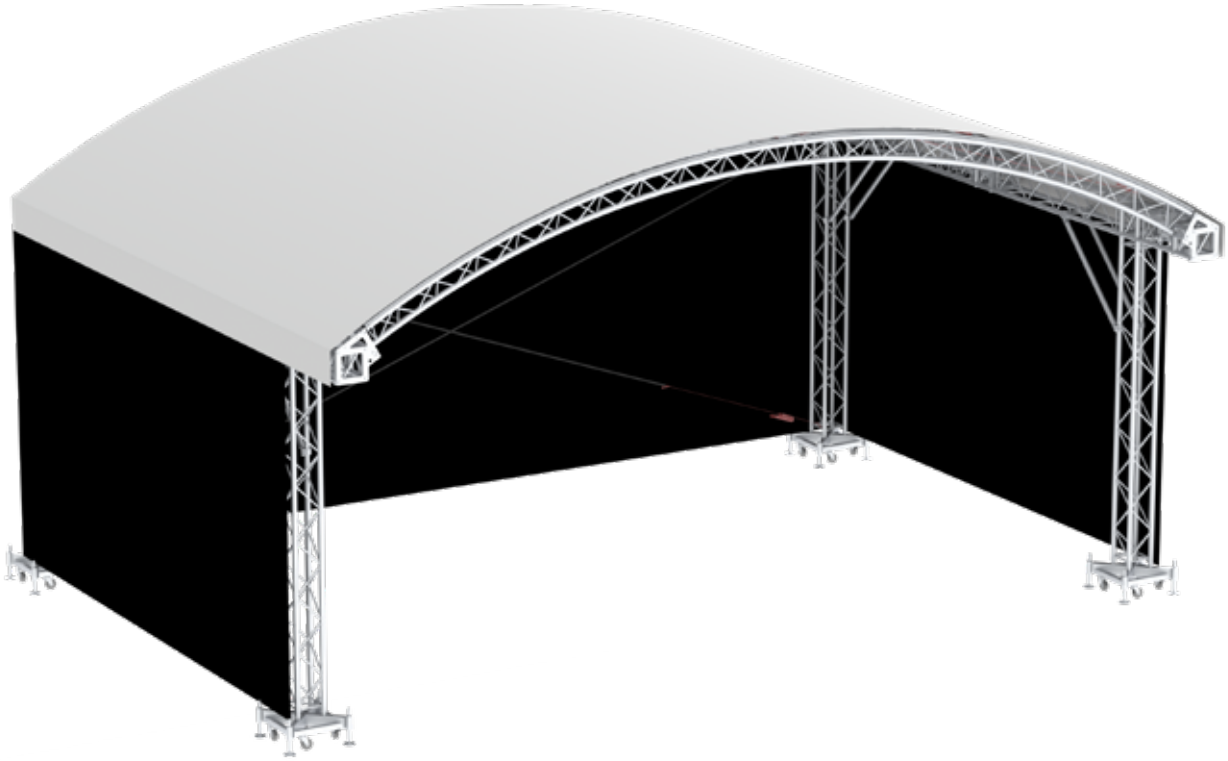


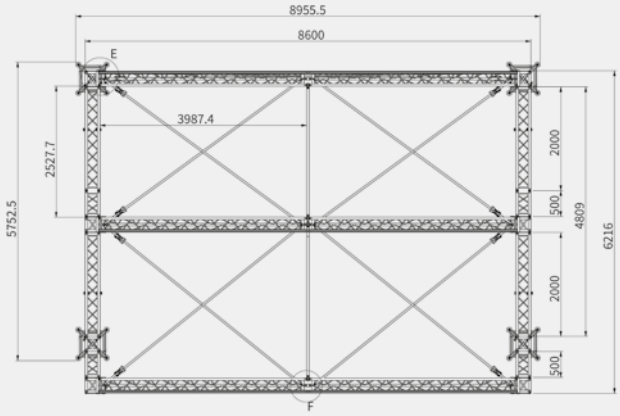
Left view

All measurements are in mm

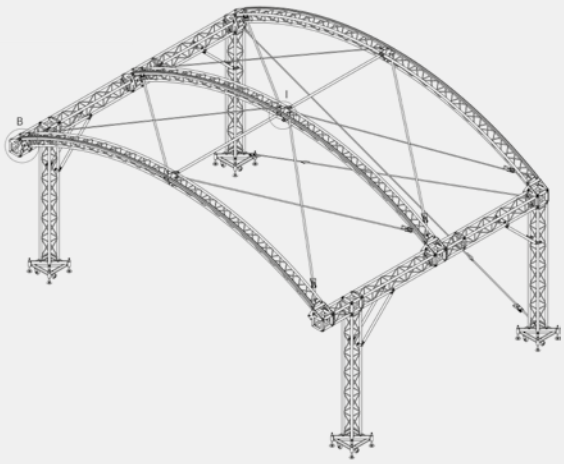
8 x 6 meter

Arc Roof

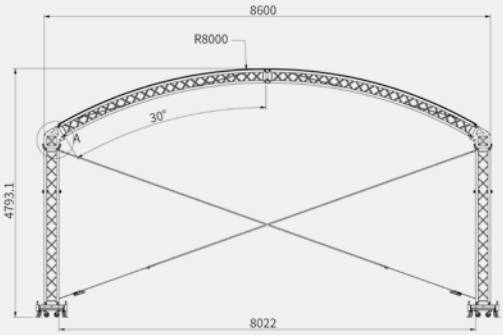




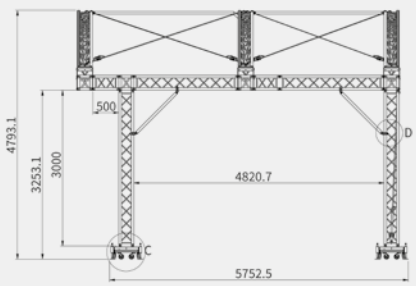
Top view



3D view



Front view

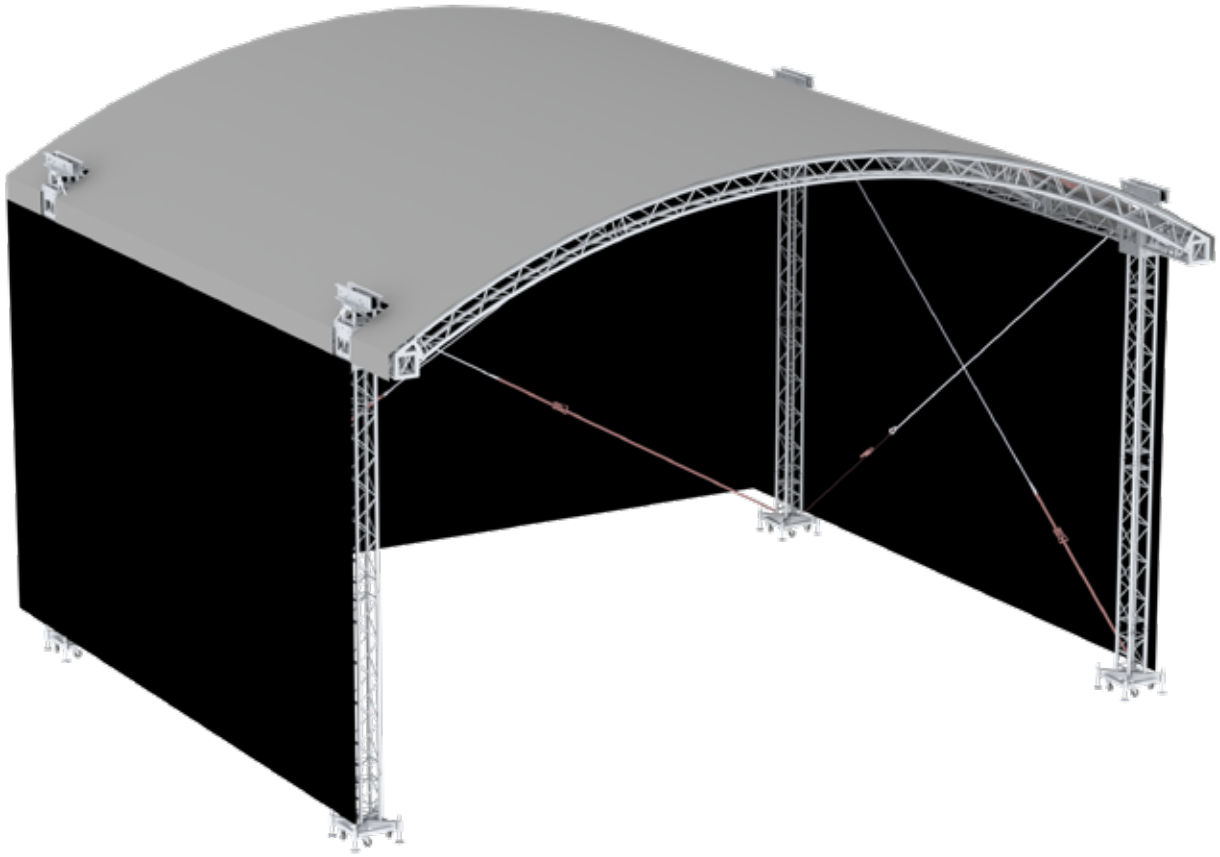


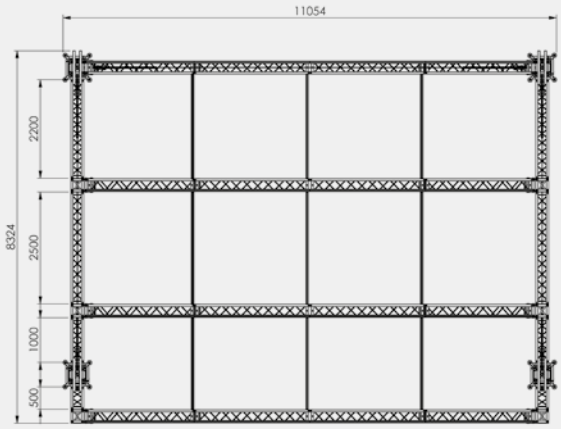
Left view

All measurements are in mm

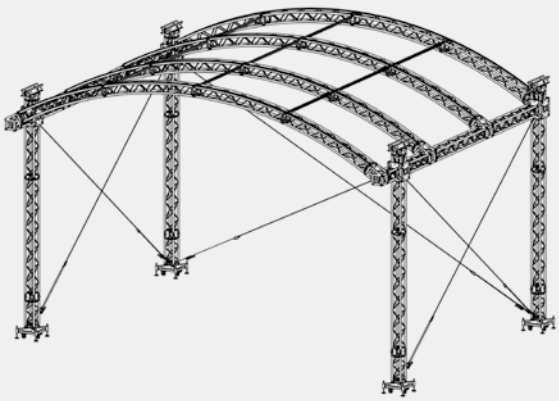
Arc Roof

10 x 8 meter

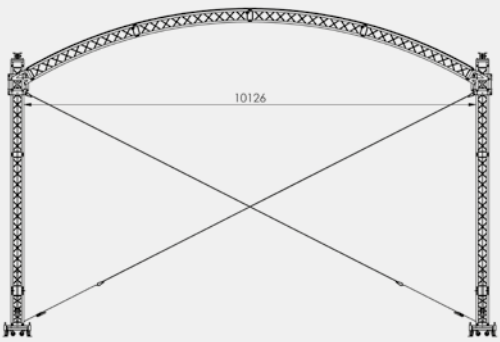




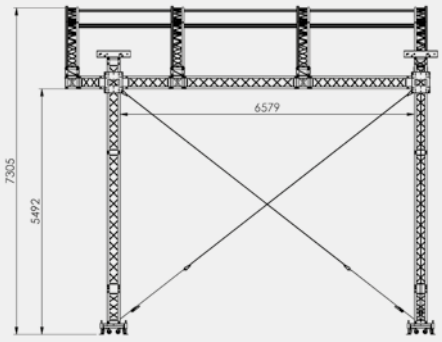
Top view



3D view



Front view



Left view

All measurements are in mm

Sloping Roof

6 x 4 meter

WHY SLOPING ROOF?

- **Structural reports for all building sizes available**
- **No “Baubuch” according German laws required due to building size below 5 m**
- **Short assembling and disassembling times due to conical coupler system**
- **Compact size, small transport size**
- **Maximum safety for audience, technicians and artists, all roof sizes calculated according the latest standards**
- **Attractive design, allows audience best possible view on the stage**

Version

Type	4 x 3	6 x 4	8 x 5
Dimensions structure	4.73 x 3.66 x 4.37	6.73 x 4.63 x 4.63	8.73 x 5.31 x 4.87
Dimensions inside for stage platform	4 x 3	6 x 4	8 x 5

Max. ballast required

Model	per front tower	per back tower
4 x 3	1000 kg (850 kg)	800 kg (600 kg)
6 x 4	1250 kg (1000 kg)	1000 kg (700 kg)
8 x 5	1.450 kg (1.250 kg)	1.150 kg (850 kg)

Figures for a friction coefficient of 0.4 (steel on wood/concrete/gravel/sand)
Figures in brackets for friction coefficient 0.6 (steel on rubber/on wood/on concrete/gravel/sand)
Permanent loads can be calculated as ballast partially

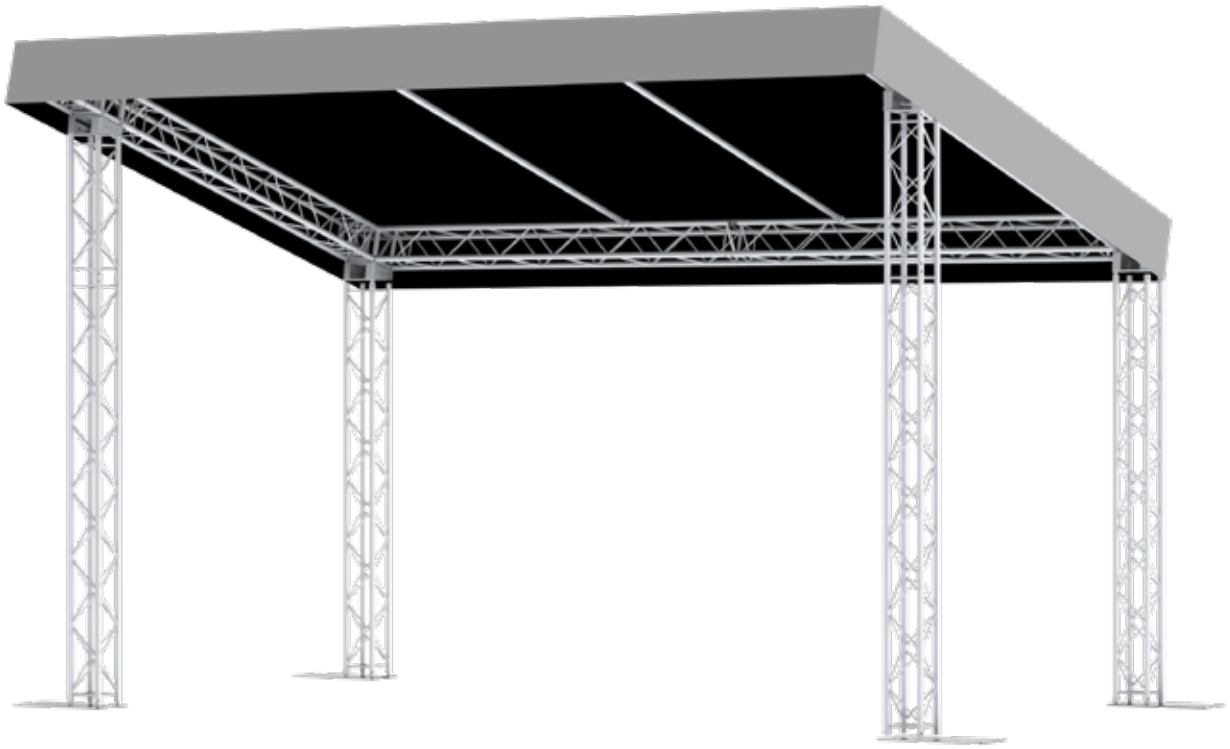
Pay loads for all sizes

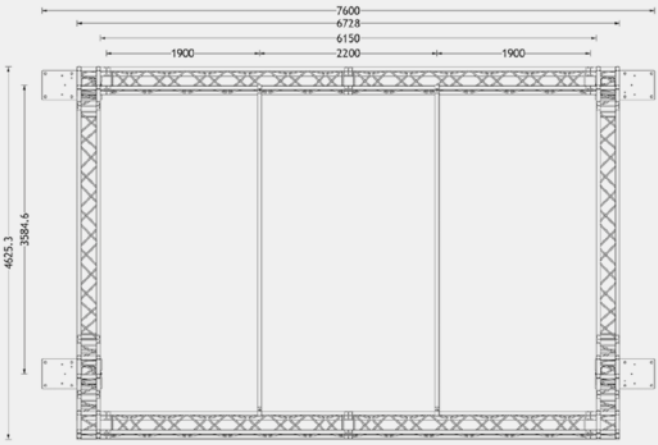
Loading type	Back truss	Front truss	Middle truss*
Uniformly distributed load	30 kg/m	30 kg/m	30 kg/m
Central single load	125 kg	125 kg	125 kg
Single load third points	90 kg	90 kg	90 kg
Single load fourth points	60 kg	60 kg	60 kg

* *only building size 8 x 5*

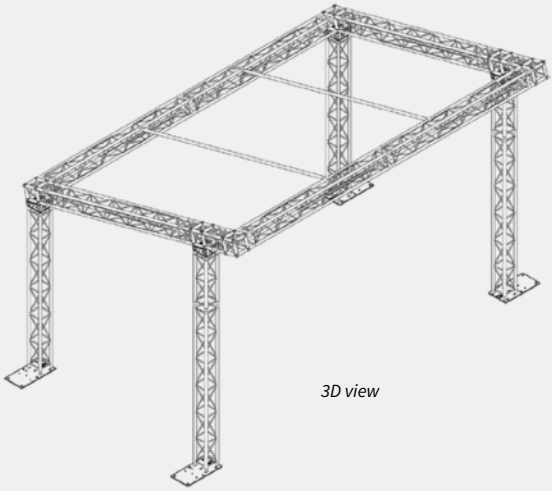
6 x 4 meter

Sloping Roof

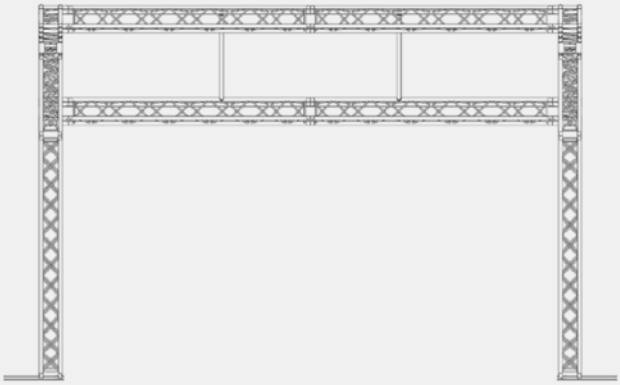




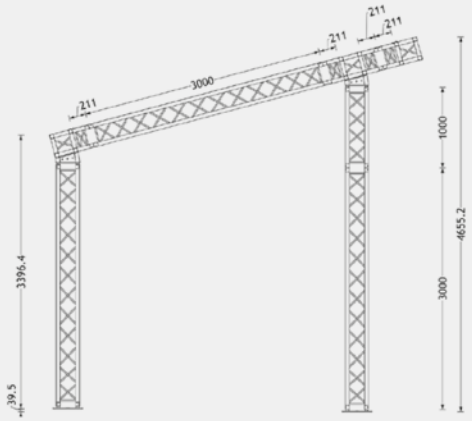
Top view



3D view



Front view



Left view

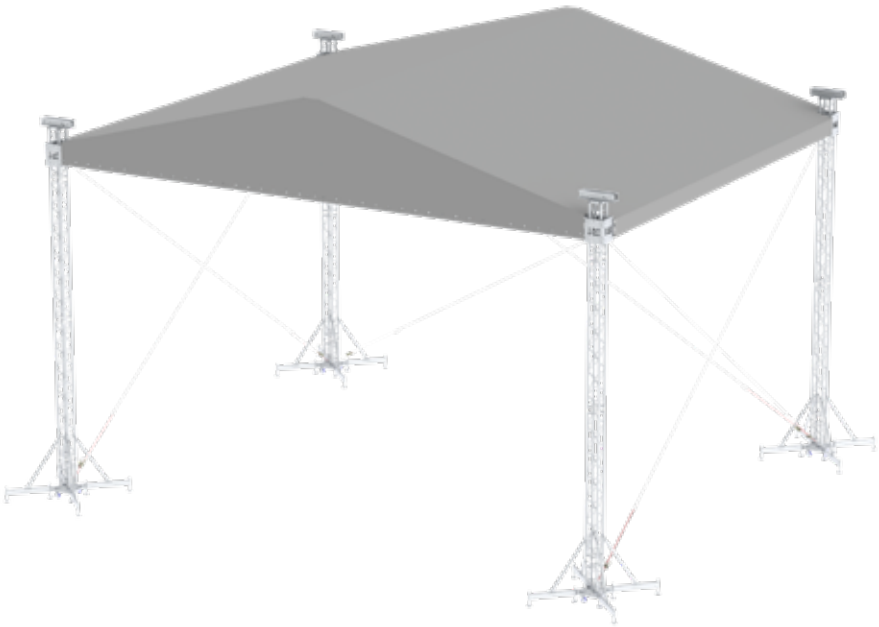
All measurements are in mm

Saddle Roof

12 x 10 meter

WHY SADDLE ROOF?

- **Use of boxcorners instead of bespoke corners**
- **Gable rafter connection form-fit instead of clamps. This is much safer**
- **Gable rafter connection allows much faster set-up**
- **Pinned deadhang system to save time during set up**
- **Less lateral compression braces between rafters required due to use of M39S gable rafters**



Loading capacity UDL	3982 kg
Loading capacity misc point loads	Depends on configuration
Loading capacity cantilever	2482 kg
Self weight incl. wall canopies	1000 kg (4.5 m²)
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)
Max peak gust wind speed out-of-service	28 m/s
Max peak gust wind during erecting	14 m/s
Ballast	Depends on configuration. Bespoke ballast bases / layher intergration available
Dimensions structure	W12.90 x D10.83 x H9.42*
Dimensions inside for stage platform	12x10 m
Trusses	M39S / M29S / M29T
Canopy	Standard: grey / black
	Optional: transparent / other colours
Staging	Several options possible like aluminium scaffolding system Subframe B
Structural calculations	DIN-EN 13814 / Euro codes
Miscellaneous	• Form fit connection between rafter and grid truss • Use of box corners. No bespoke corners • Auto-release system for wall canopies • Optional side wings • Ground ring or stage intergration for reducing ballast • Intermediate support towers for increased loading • Baubuch on request • M39S gable side rafters to minimise the use of compresion braces • Increased set up times due to lack of clamp connections

** All data is based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

12 x 10 meter

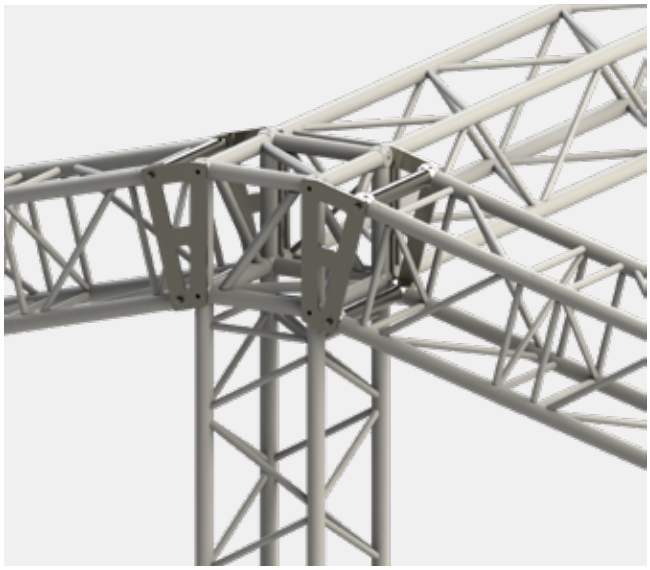
Saddle Roof

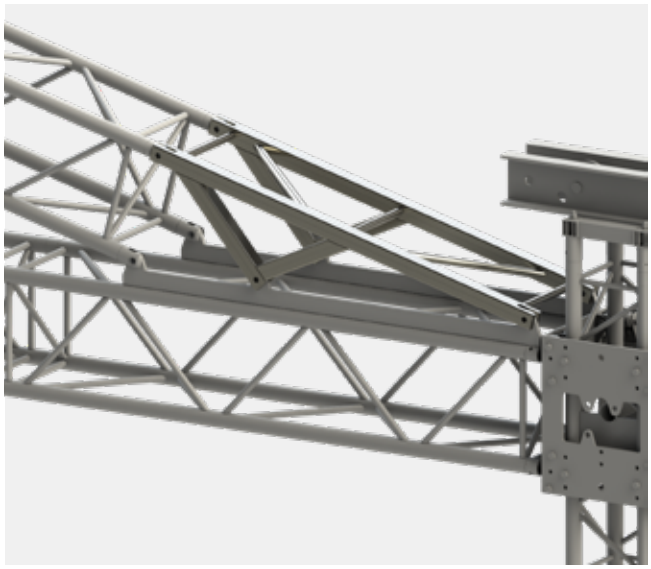
WHY SADDLE ROOF?

Corners

- Machined connection strip
- Highly increased building speed
- One adapter, 6 pins
- Zero tolerance fitting
- No specific building order
- Compatible for every roof size

- Machined plated adapter
- Zero tolerance fitting
- Mountable on standard M39S Box corner
- Compatible for every roof size



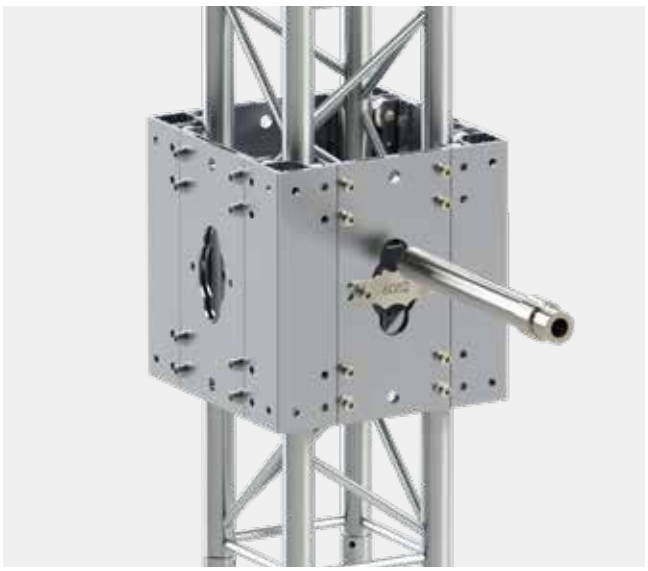


Safe System

- Increases building speed
- Strong and secure locking
- All towers exact same height

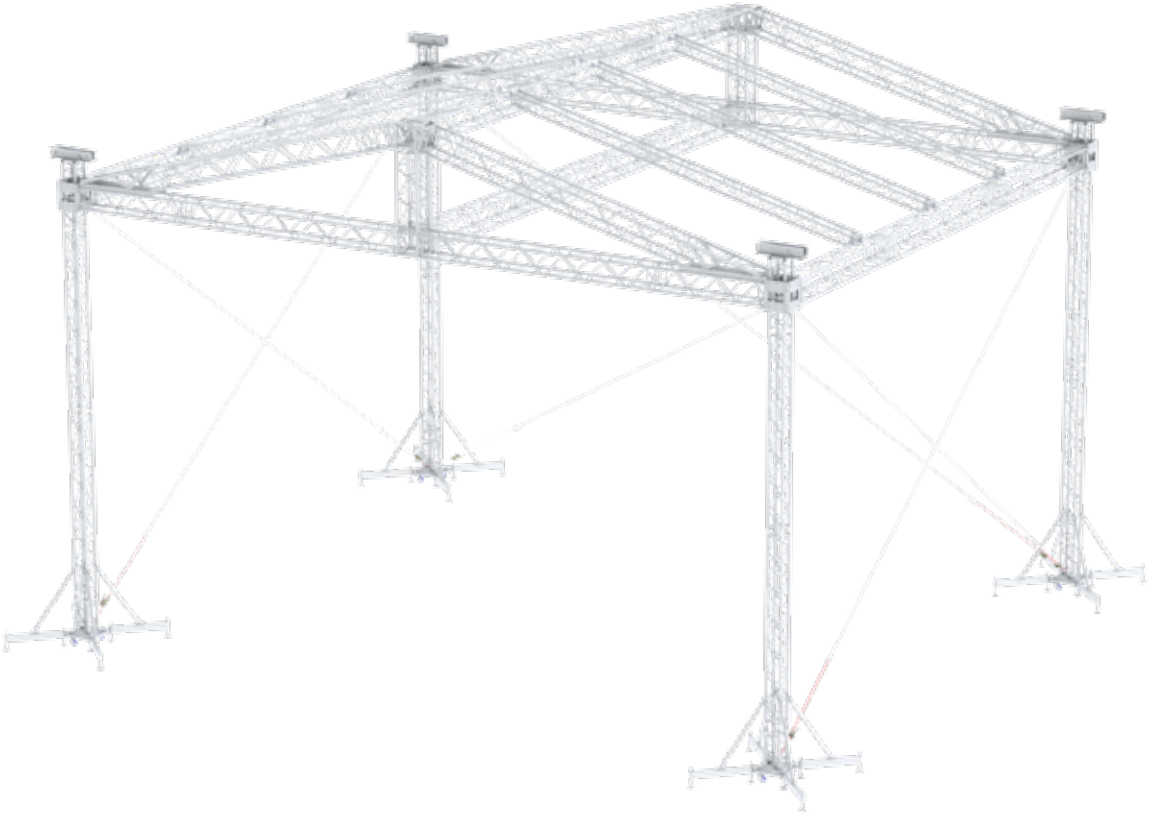
Stabilizers

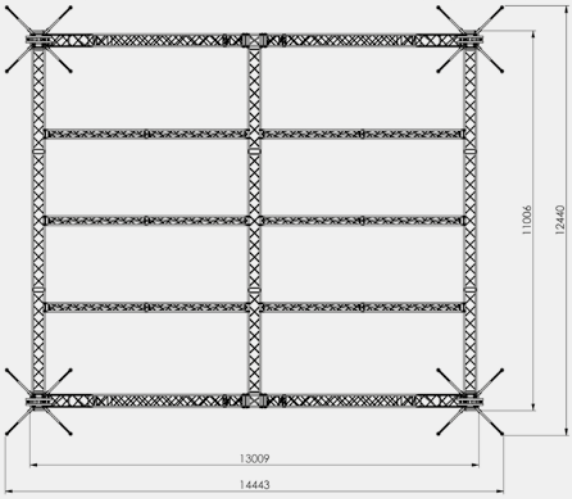
- Machined plated adapter
- Zero tolerance fitting
- Mountable on standard M39S Box corner
- Compatible for every roof size



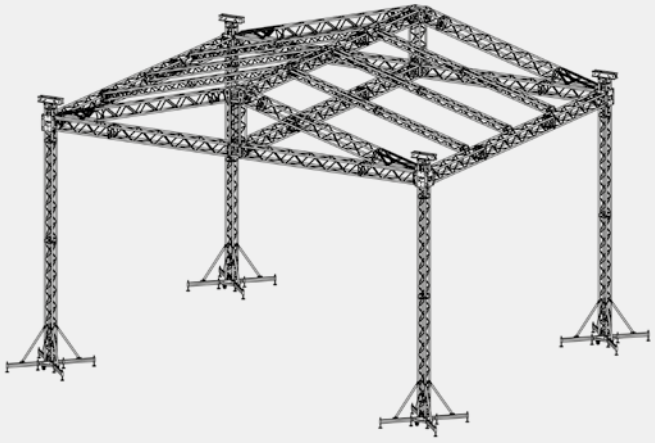
Saddle Roof

12 x 10 meter

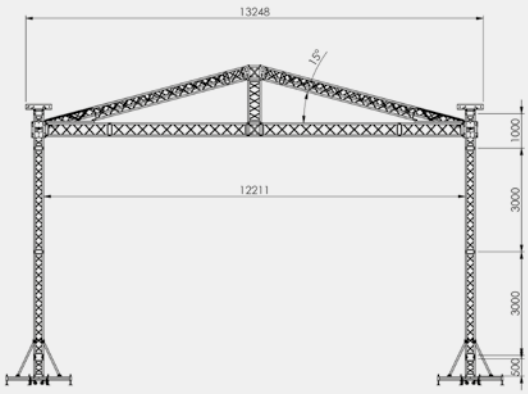




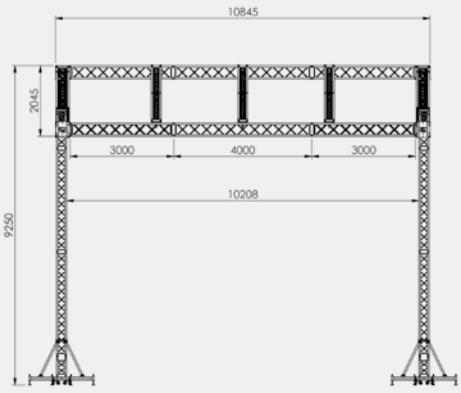
Top view



3D view



Front view



Left view

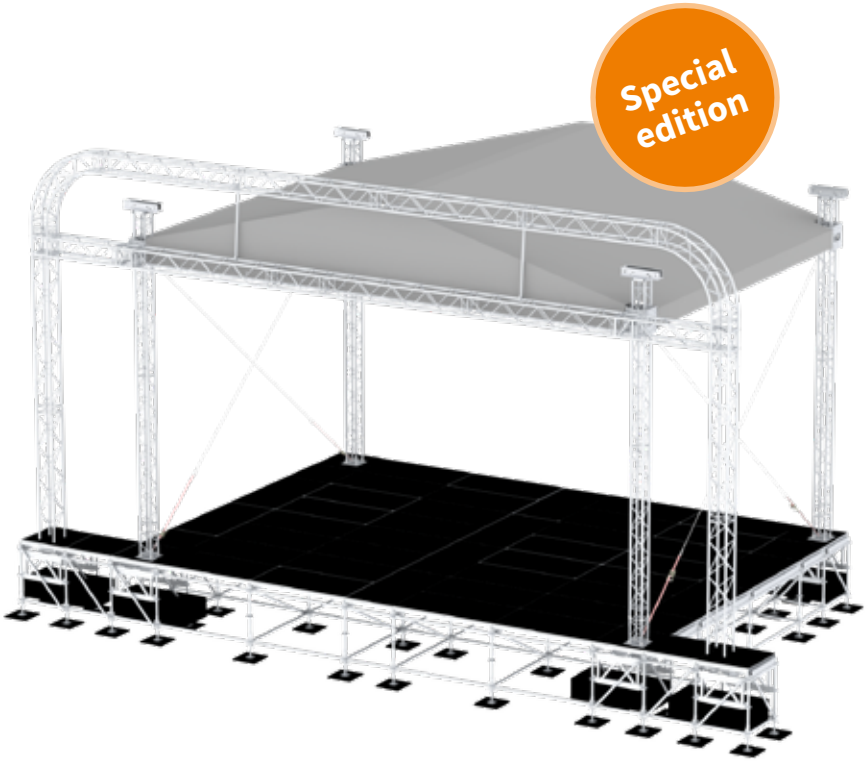
All measurements are in mm

Saddle Roof

10 x 8 meter

WHY SADDLE ROOF?

- **Use of boxcorners instead of bespoke corners**
- **Gable rafter connection form-fit instead of clamps. This is much safer**
- **Gable rafter connection allows much faster set-up**
- **Pinned deadhang system to save time during set up**
- **Less lateral compression braces between rafters required due to use of M39S gable rafters**

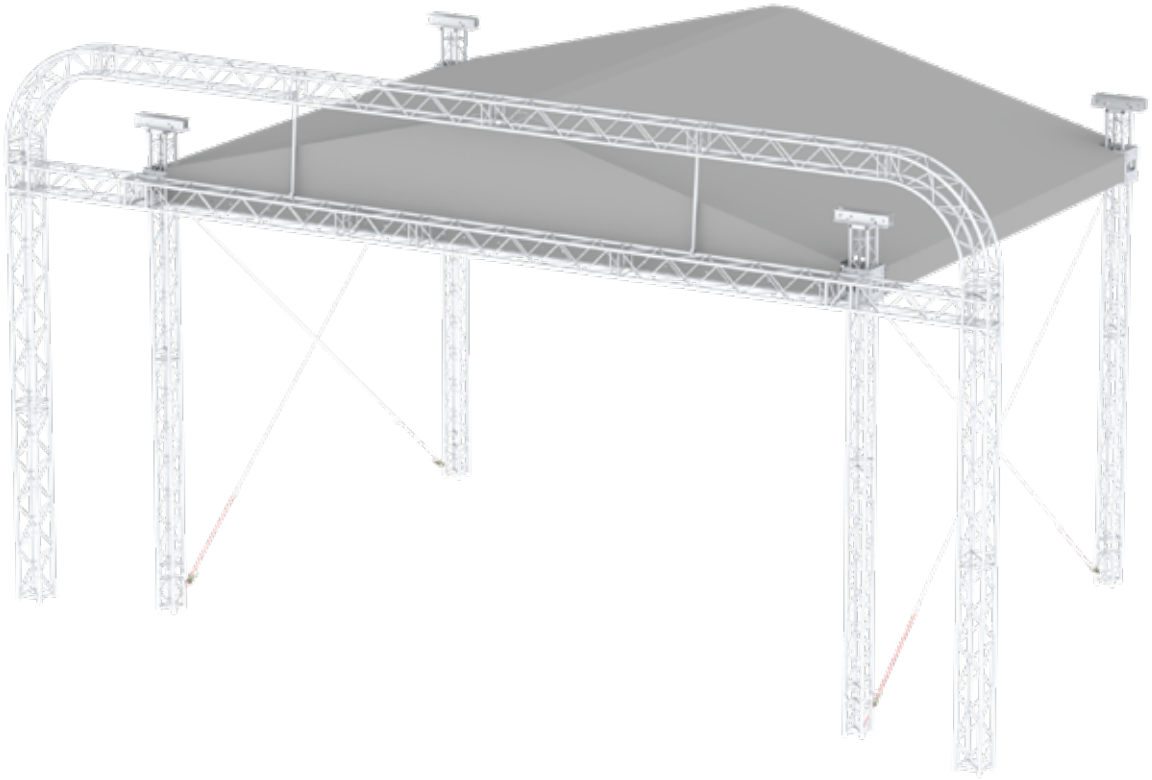


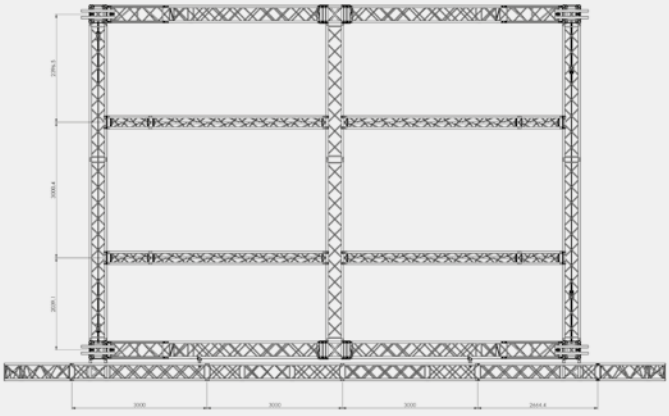
Loading capacity UDL	4482 kg
Loading capacity misc point loads	Depends on configuration
Loading capacity cantilever	2182 kg
Self weight incl. wall canopies	1000 kg (4.5 m^2)
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)
Max peak gust wind speed out-of-service	28 m/s
Max peak gust wind during erecting	14 m/s
Ballast	Depends on configuration. Bespoke ballast bases / layher integration available
Dimensions structure	W10.90 x D7.83 x H9.10*
Dimensions inside for stage platform	10 x 7 m
Trusses	M39S / M29S / M29T
Canopy	Standard: grey / black
	Optional: transparent / other colours
Staging	Several options possible like aluminium scaffolding system StageFrame82
Structural calculations	DIN-EN 13814 / Euro codes
Miscellaneous	• Form fit connection between rafter and grid truss • Use of box corners. No bespoke corners • Auto-release system for wall canopies • Optional side wings • Ground ring or stage intergration for reducing ballast • Intermediate support towers for increased loading • Baubuch on request • M39S gable side rafters to minimise the use of compresion braces • Increased set up times due to lack of clamp connections

** All data is based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

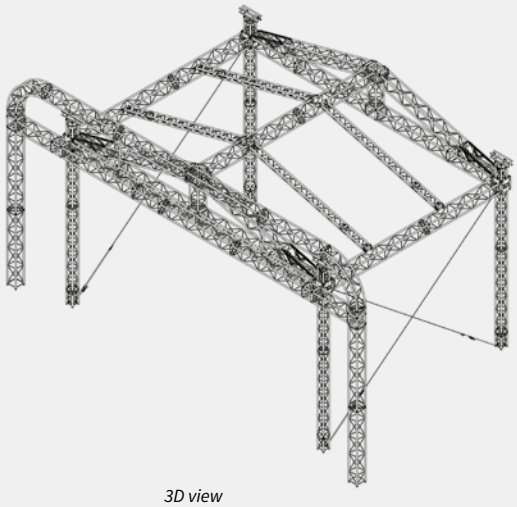
10 x 8 meter

Saddle Roof

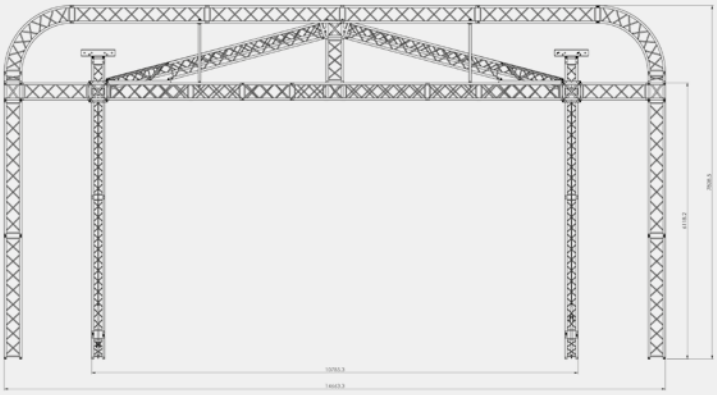




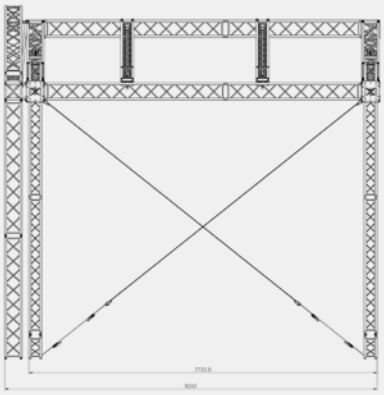
Top view



3D view



Front view



Left view

All measurements are in mm

Pitched Roof

14 x 12 meter

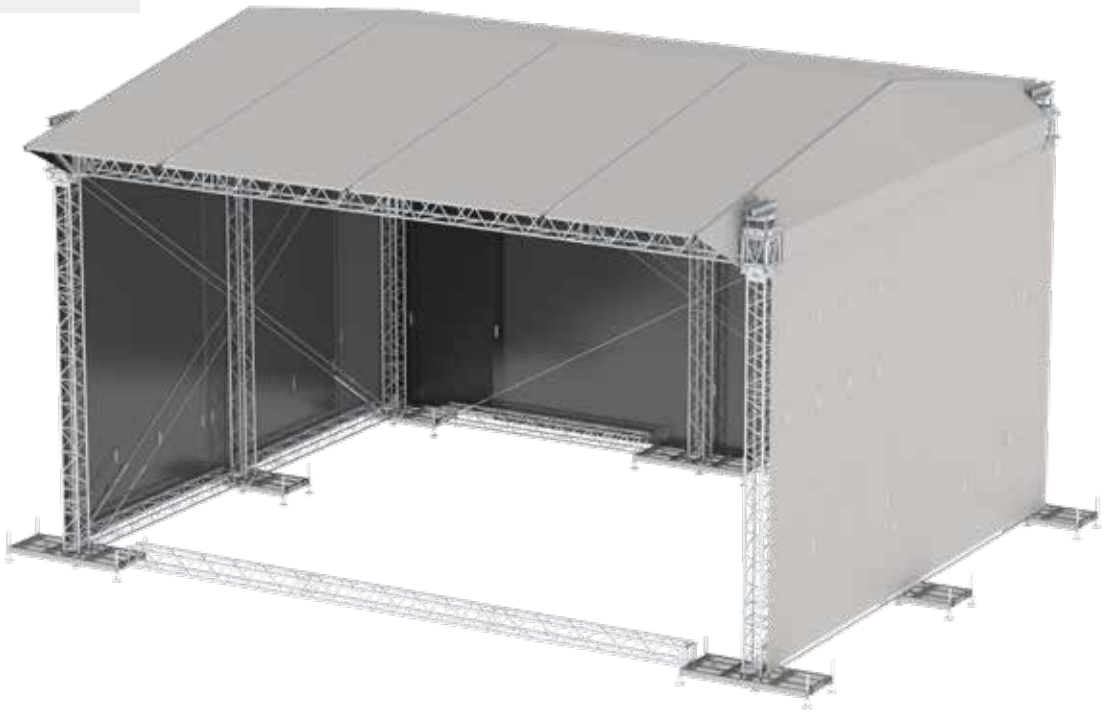
WHY PITCHED ROOF?

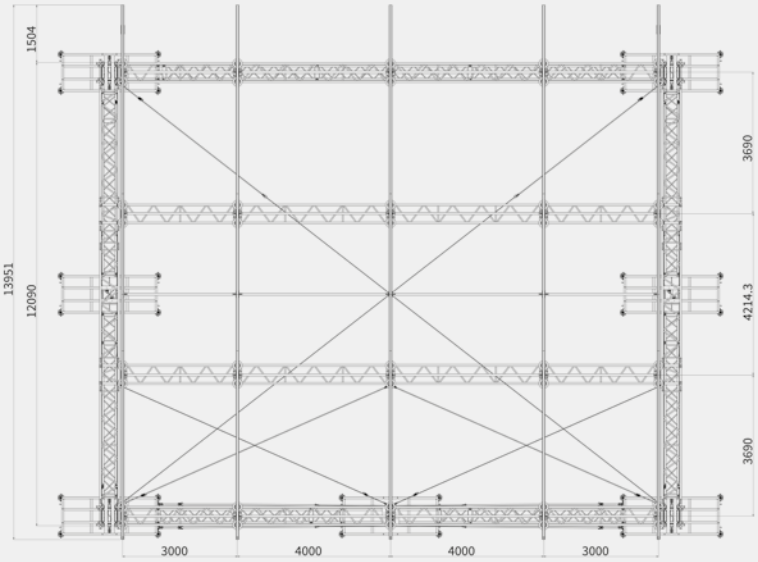
- **Hurricane proof design (max 40 m/s)**
- **Canopies sit in kedar profiles for ease of build**
- **Auto-release system for wall canopies**
- **Ground ring for reduced ballast**
- **Bespoke tower bases for correct integration of ballast**
- **High load capacity**
- **Full aluminium structure**
- **Many options for staging or substructure**
- **Complies with European standards for temporary structures**

Loading capacity UDL	5645 kg
Loading capacity misc point loads	7000 kg
Loading capacity front cantilever beams	2 x 500 kg
Self weight incl. wall canopies	3197 kg
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)
Max peak gust wind speed out-of-service	28 m/s - 40 m/s
Max peak gust wind during erecting	14 m/s
Ballast	Depends on configuration Bespoke ballast bases
Dimensions structure	W15.08 x D13.96 x H9.93
Dimensions inside for stage platform	14 x 12 m
Trusses	M39S / M39TOW / L52S
Canopy	Standard: grey / black
	Optional: transparent
Staging	Several options possible like aluminium scaffolding system StageFrame82
Structural calculations	EN 13814 / Euro codes
Miscellaneous	• Canopies fitted in kedar profile • Auto-release system for wall canopies • Optional side wings • Ground ring for reducing ballast • Intermediate support towers for increased loading • Baubuch on request • Structural calculations per DIN-EN-13814

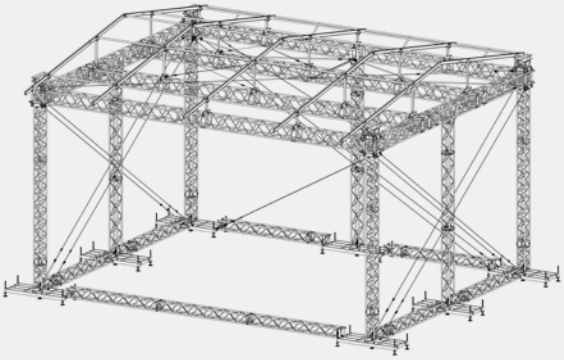
* *All data is based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

14 x 12 meter

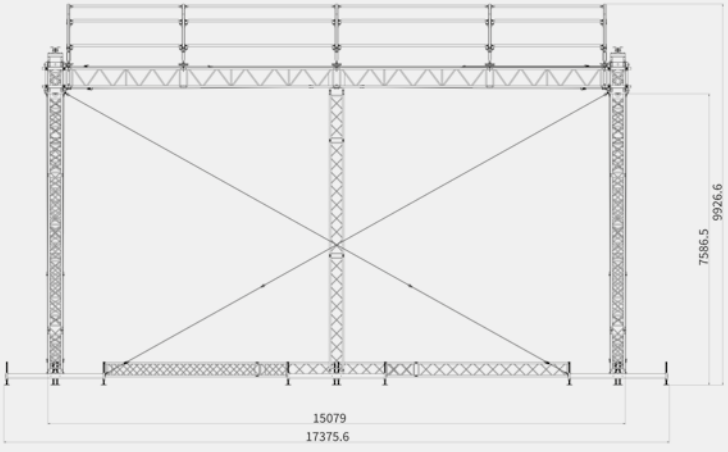




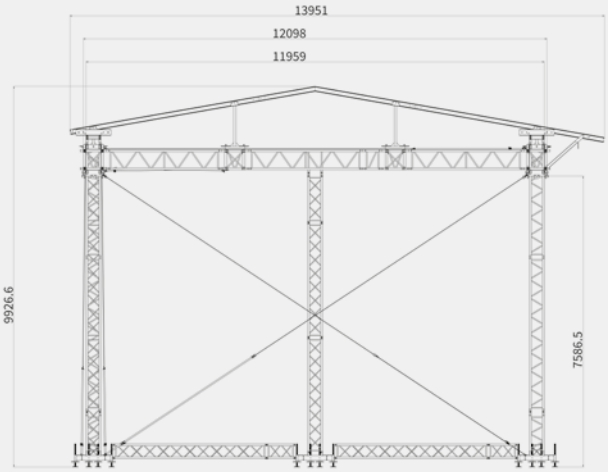
Top view



3D view



Front view

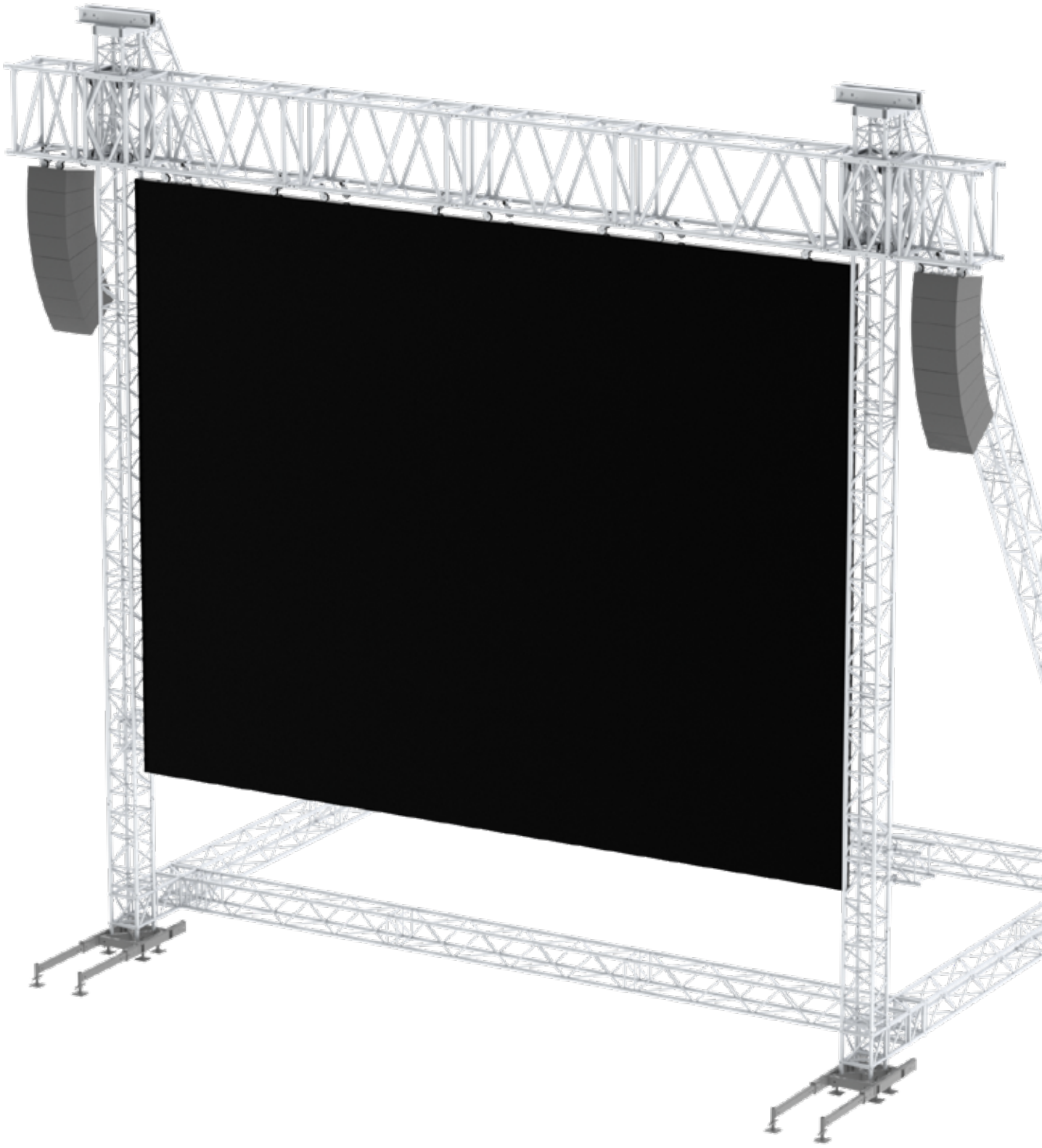


Right view

All measurements are in mm


Speedglas
3M
SIXTY

LED Screen Support



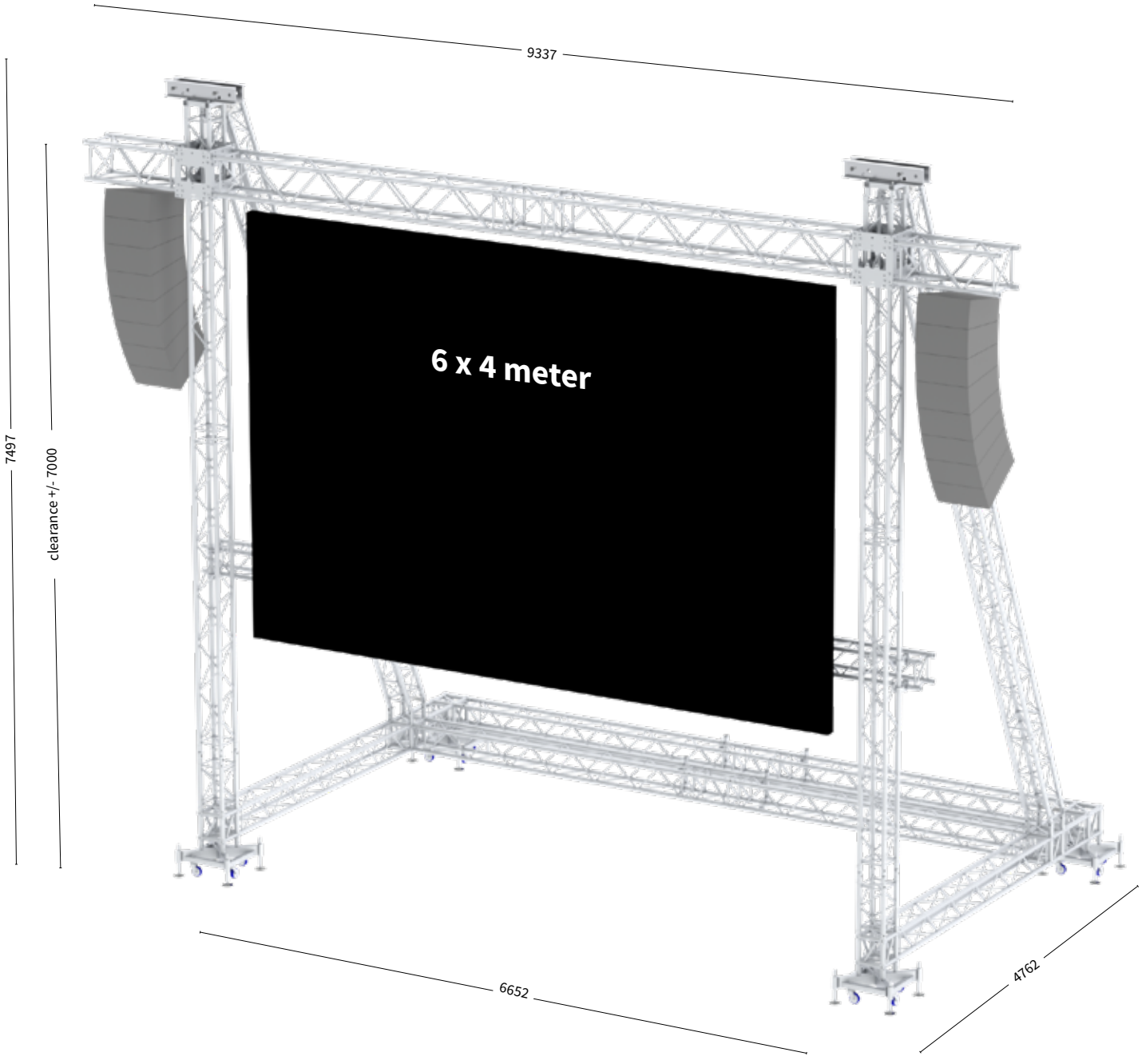
LED Screen Support

6 x 4 meter

WHY LED SCREEN SUPPORT?

- **Versatile LED Screen Support structure based on standard trusses**
- **Easy set-up due to fixed base structure**
- **Structurally calculated and proven concept**
- **Full aluminium structure**
- **Use of multibase for easy positioning of ballast**
- **Rafters can be lifted together with erection of tower to save assembly time**
- **Bespoke head section with integrated brace connection for fast set up and less bespoke parts**
- **Possibility to deadhang at ground level which eliminates the need to climb the towers**

Scan the QR-Code
to watch the LED Screen Support technical video



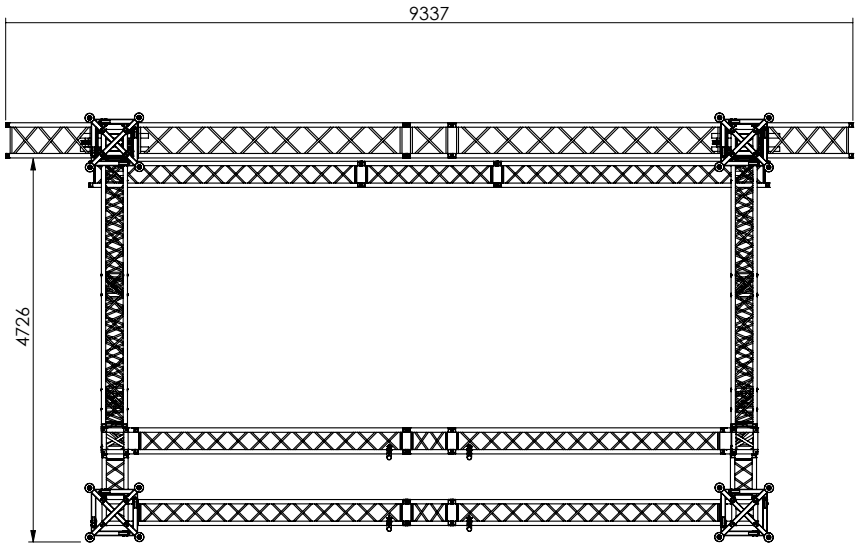
All measurements are in mm

Max screen size	6 x 4 meter
Max PA size front	1.5 m^2
Max screen weight	1500 kg
Max PA weight	2 x 250 kg
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)
Max peak gust wind speed out-of-service	27 m/s
Max peak gust during lifting	8 m/s
Ballast (if screen weight is 1500kg)	2 x 900 kg
Dimensions	See drawing
Trusses	M29S / M29T / M39S

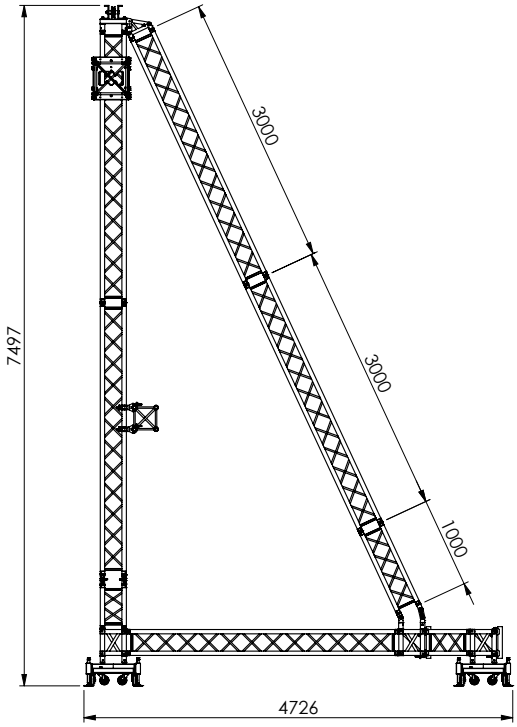
** Above data based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

** Calculations per DIN-EN13814:2013 for WS 1-2 in-land in Germany.*

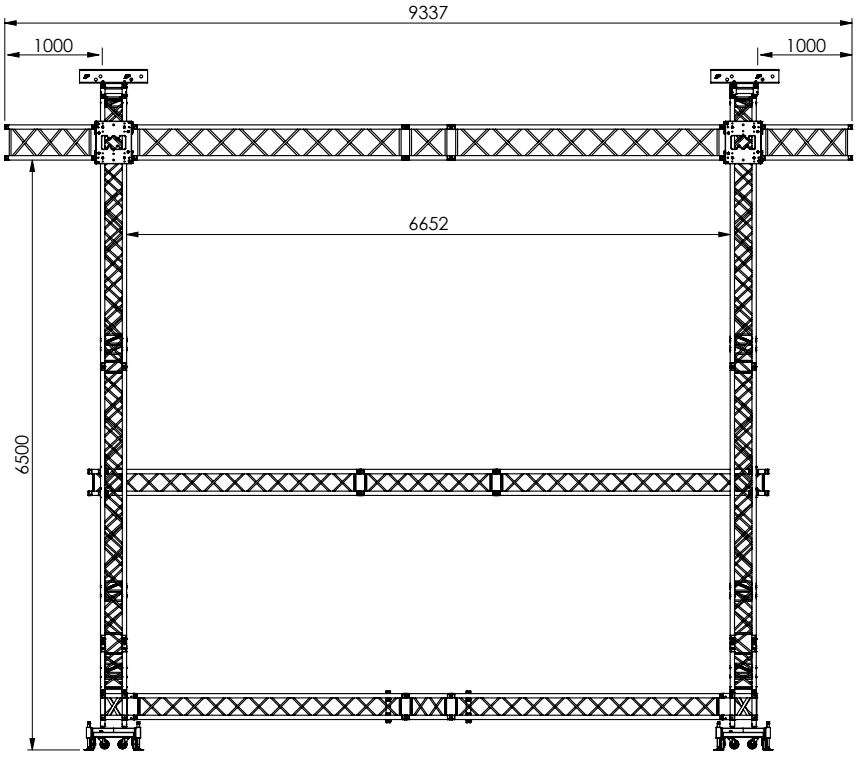
** Baubuch on request.*



Top view



Left view

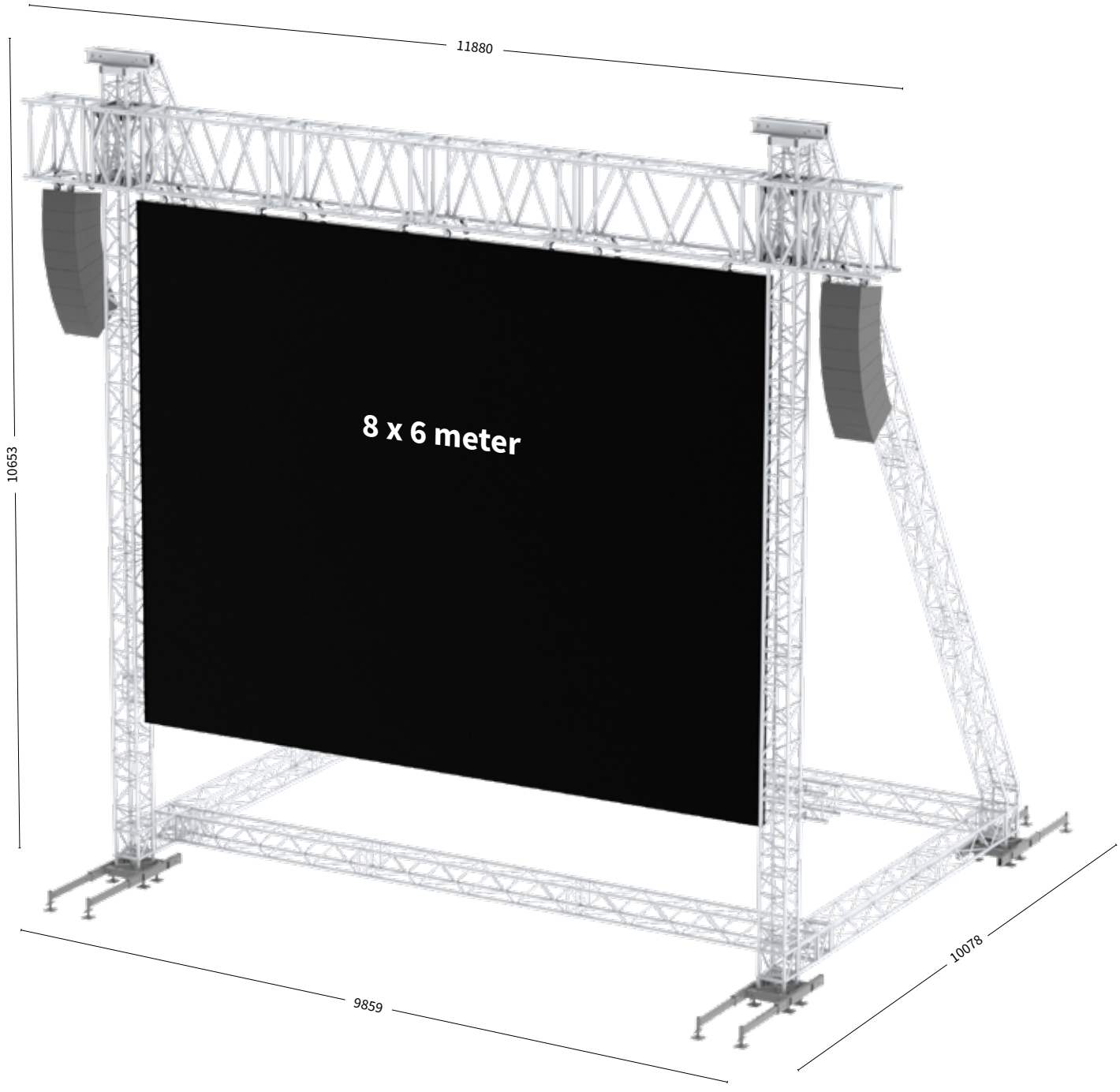


front view

All measurements are in mm

LED Screen Support

8 x 6 meter



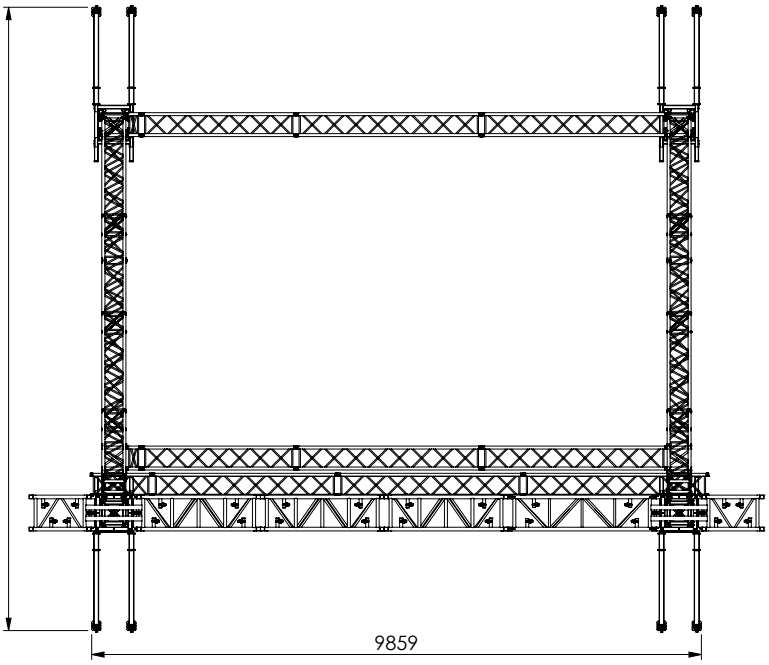
All measurements are in mm

Max screen size	8 x 6 meter
Max PA size front	2.5 m^2
Max screen weight	3000 kg
Max PA weight	2 x 500 kg
Max peak gust wind speed in-service	20 m/s (measured at 10 m height)
Max peak gust wind speed out-of-service	27 m/s
Max peak gust during lifting	8 m/s
Ballast (if screen weight is 1500kg)	2 x 1000 kg and 2 x 300 kg
Dimensions	See drawing
Trusses	M39TOW / M39S / XL101

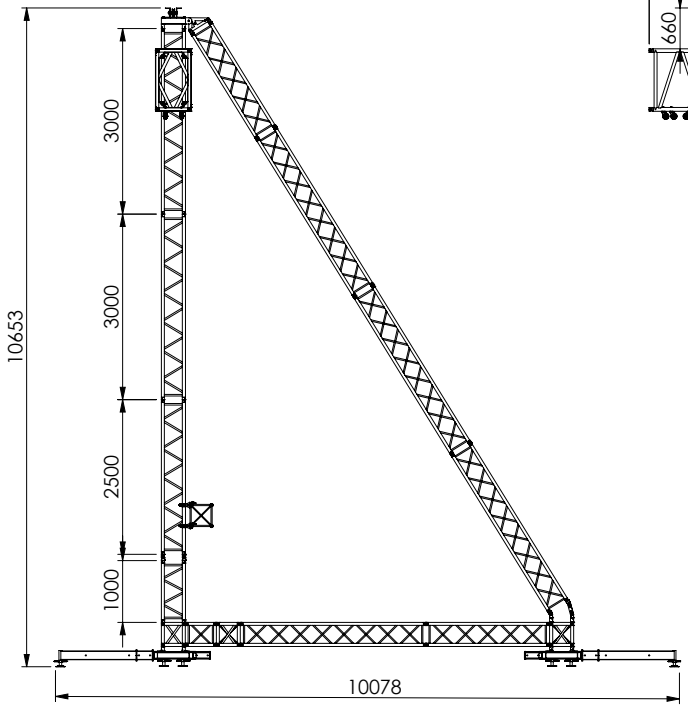
** Above data based on calculated set-up. Other options are possible but need to be investigated on a case-by-case basis.*

** Calculations per DIN-EN13814:2013 for WS 1-2 in-land in Germany.*

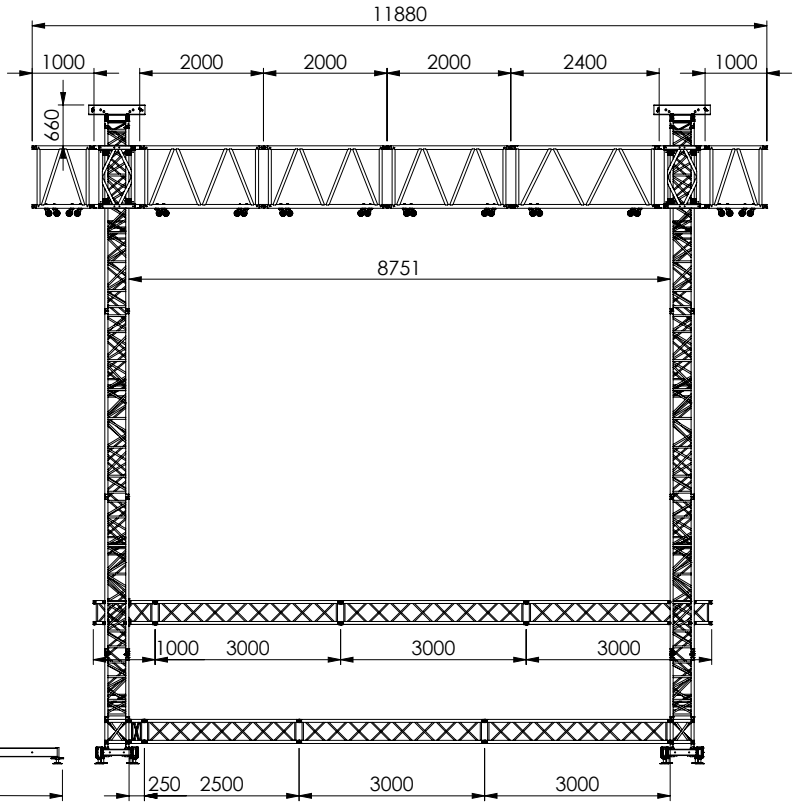
** Baubuch on request.*



Top view

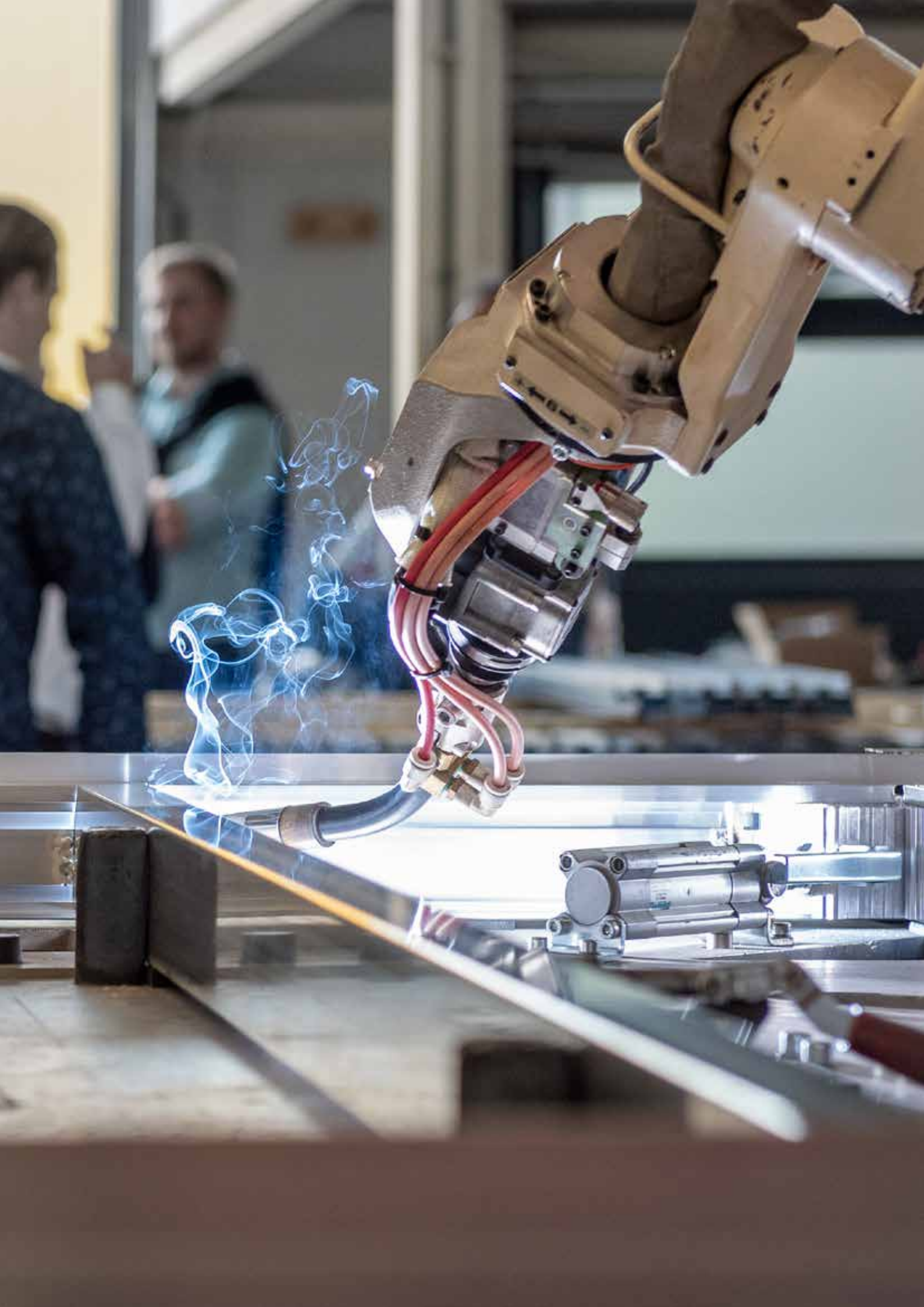


Right view



Back view

All measurements are in mm

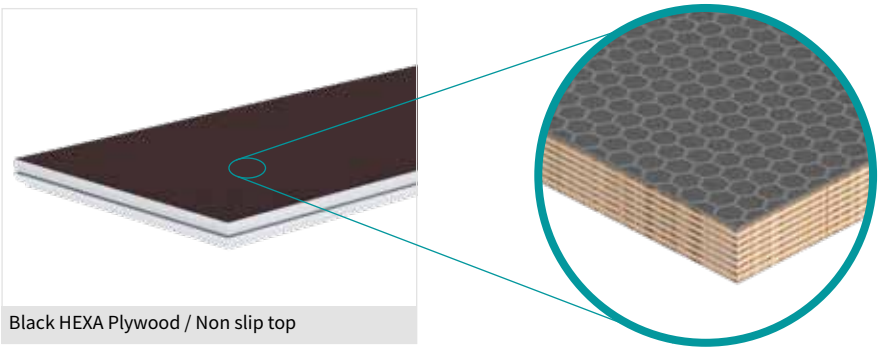


Stage Modules

STAGE82

Birch Plywood / Unfinished

Birch Plywood / Black



Black HEXA Plywood / Non slip top

Scan the QR-Code
to watch the
technical video

STAGE82 Model M

WHY STAGE82 MODEL M?

- **Frame design facilitates much easier handling and pick up by hand**
- **Scaffolding event beam compatible**
- **Double painted plywood topping**

Leg Pocket closed

Leg Pocket open

750 kg/m²

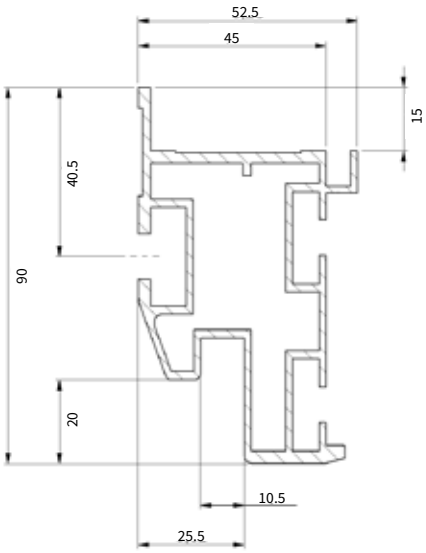
Lateral loading 10%

Plywood 15 mm

36 kg (2 x 1 m)

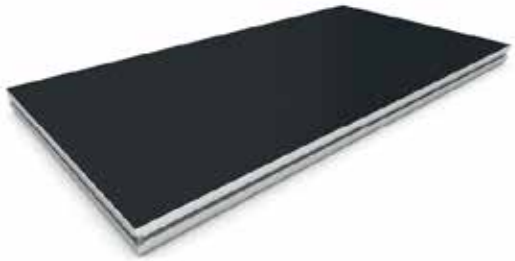
RFID READY

Easy grip profile



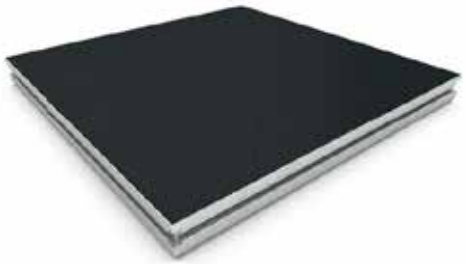
Rectangular 200 x 100 cm

Product	Code	Weight
Black HEXA Plywood / Non slip top	310001	35.68 kg
Birch Plywood / Black	311001	35.68 kg
Birch Plywood / Unfinished	312001	35.68 kg



Rectangular 100 x 100 cm

Product	Code	Weight
Black HEXA Plywood / Non slip top	310002	21.7 kg
Birch Plywood / Black	311002	21.7 kg
Birch Plywood / Unfinished	312002	21.7 kg



Rectangular 200 x 50 cm

Product	Code	Weight
Black HEXA Plywood / Non slip top	310003	21.17 kg
Birch Plywood / Black	311003	21.17 kg
Birch Plywood / Unfinished	312003	21.17 kg

All measurements are in mm

STAGE82 Model M

Triangular 200 x 100 cm **left** (3 legs needed)

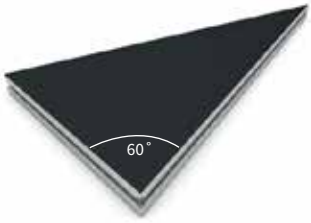
Product	Code	Weight
Black HEXA Plywood / Non slip top	310005	20.7 kg
Birch Plywood / Black	311005	20.7 kg
Birch Plywood / Unfinished	312005	20.7 kg

Triangular 200 x 100 cm **right** (3 legs needed)

Product	Code	Weight
Black HEXA Plywood / Non slip top	310006	20.7 kg
Birch Plywood / Black	311006	20.7 kg
Birch Plywood / Unfinished	312006	20.7 kg

Triangular 100 x 100 cm (3 legs needed)

Product	Code	Weight
Black HEXA Plywood / Non slip top	310007	13 kg
Birch Plywood / Black	311007	13 kg
Birch Plywood / Unfinished	312007	13 kg



Circle 200 cm 90° (4 legs needed)

Product	Code	Weight
Black HEXA Plywood / Non slip top	310015	15 kg
Birch Plywood / Black	311029	15 kg
Birch Plywood / Unfinished	312016	15 kg

Circle 400 cm 45° (4 legs needed)

Product	Code	Weight
Black HEXA Plywood / Non slip top	310016	17 kg
Birch Plywood / Black	311030	17 kg
Birch Plywood / Unfinished	312017	17 kg

Circle 600 cm 22.5° (4 legs needed)

Product	Code	Weight
Black HEXA Plywood / Non slip top	310017	19 kg
Birch Plywood / Black	311031	19 kg
Birch Plywood / Unfinished	312018	19 kg

STAGE82 Technical Information

- Staging Modules must be used within the limits of the structural repost
- Loading figures mentioned are only valid for static loads
- Self-weight is already taken into account

Maximum uniformly distributed load

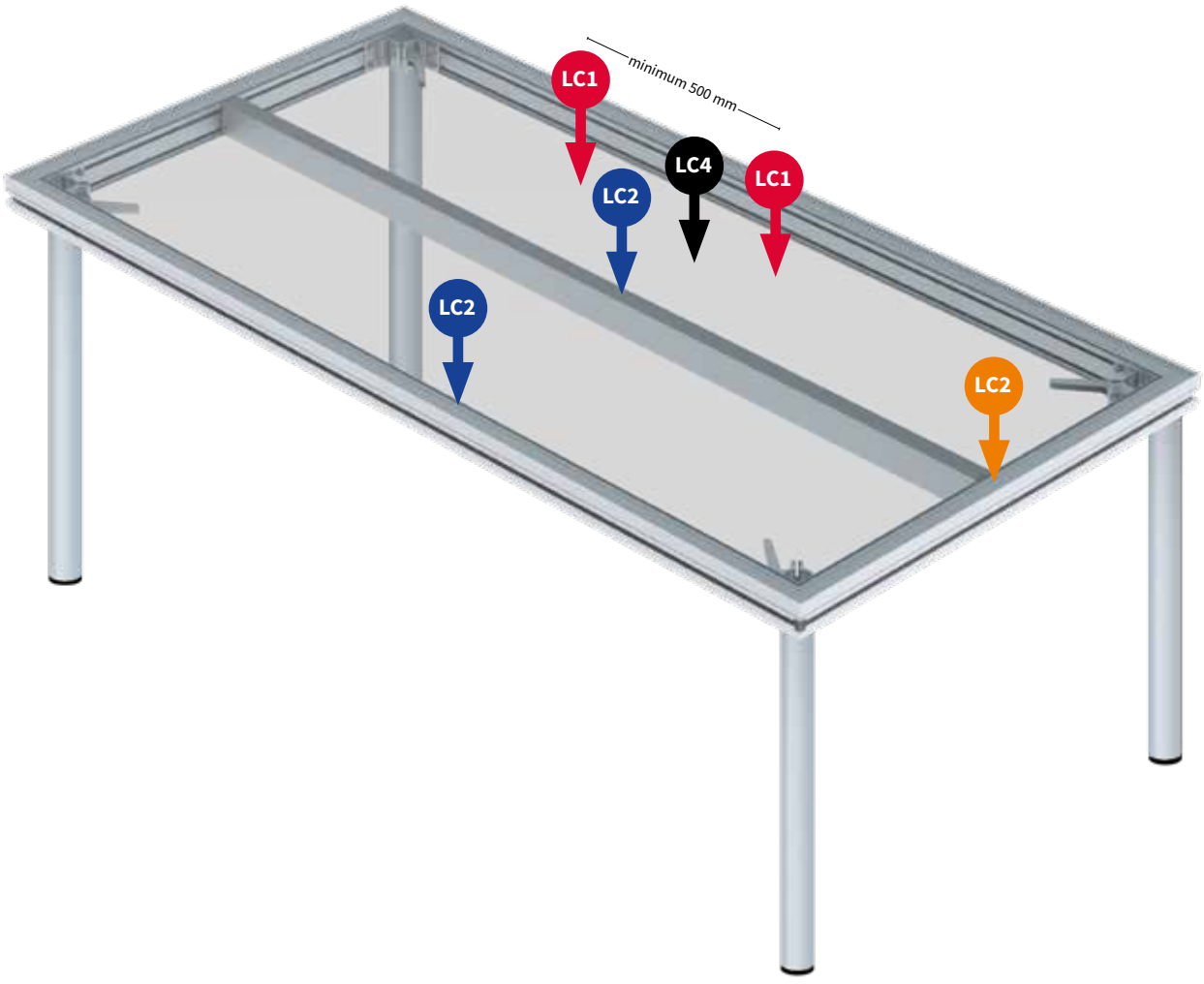
Check alloy when legs are not purchased at SIXTY82

Podium height	80 cm (40 / 60 cm)	100 cm	120 cm	140 cm	160 cm
Tube 48.3 x 3 mm EN AW 6082 T6	750 kg/m²	500 kg/m²	500 kg/m²	350 kg/m²	350 kg/m²

Maximum point load

LC1 = 2 x 150 kg at a distance of minimum 500 mm at any place
LC2 = 350 kg single point load above each of the 200 cm sides or middle beam
LC3 = 500 kg in the middle of the 100 cm sides
LC4 = 210 kg in the middle of an unsupported woodplate

Point loads need te have a 50 x 50 mm bearing surface minimum.
Total loading shall not exceed 1500 kg.



LITE82 Touring

Rectangular

Product	Code	Weight
8 x 4 ft (244 x 122 cm)	325001	54 kg
8 x 2 ft (244 x 61 cm)	325002	33 kg
6 x 4 ft (183 x 122 cm)	325003	40 kg
4 x 2 ft (122 x 61 cm)	325005	18 kg
8 x 4 ft toplock (244 x 122 cm)	326001	55 kg
8 x 2 ft toplock (244 x 61 cm	326002	34 kg
6 x 4 ft toplock (183 x 122 cm)	326003	41 kg
4 x 2 ft toplock (122 x 61 cm)	326005	18.5 kg

Square

Product	Code	Weight
4 x 4 ft (122 x 122 cm)	325004	33 kg
4 x 4 ft toplock (122 x 122 cm)	326004	33.5 kg

Triangle

Product	Code	Weight
4 x 4 ft (122 x 122 cm)	325008	17 kg
4 x 4 ft toplock (122 x 122 cm)	326008	17.5 kg

WHY LITE82 TOURING?

- **A true second generation event staging product**
- **19% less transport volume**
- **Completely bolted and non welded construction giving strength and accuracy**
- **Compatible with existing systems**
- **Protected edge of wood panel and high accuracy joins**
- **Integrated functionality for attachment of fascias or runway lighting brackets**

500 kg/m²

Lateral loading 5%

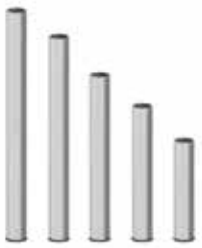
Plywood 18 mm

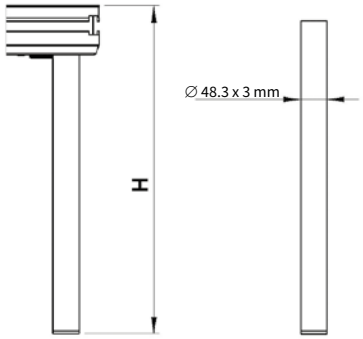
54 kg (8 x 4 ft)

RFID READY

LEG

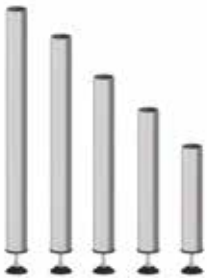
Code	Length (H)	Weight
340001	20 cm	0.23 kg
340002	40 cm	0.46 kg
340003	60 cm	0.69 kg
340004	80 cm	0.93 kg
340005	100 cm	1.16 kg

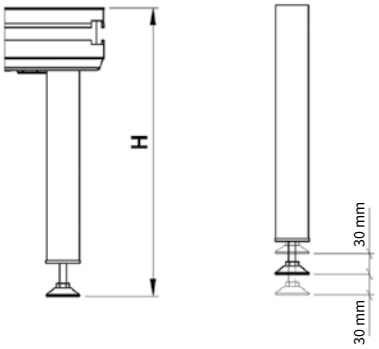




ADJUSTABLE LEG

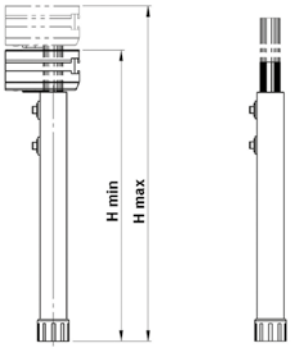
Code	Length (H)	Weight
340007	20 cm	0.27 kg
340008	40 cm	0.49 kg
340009	60 cm	0.72 kg
340010	80 cm	0.95 kg
340011	100 cm	1.18 kg





TELESCOPIC LEG

Code	Length (H)	Weight
340013	45 / 60 cm	1.89 kg
340014	60 / 90 cm	2.51 kg
340015	90 / 140 cm	3.57 kg
340016	100 / 160 cm	4.22 kg
340017	120 / 190 cm	5.1 kg



SWIVEL CASTOR LEG SINGLE 25 CM

340018 — 1.35 kg

SWIVEL CASTOR LEG DOUBLE 25 CM

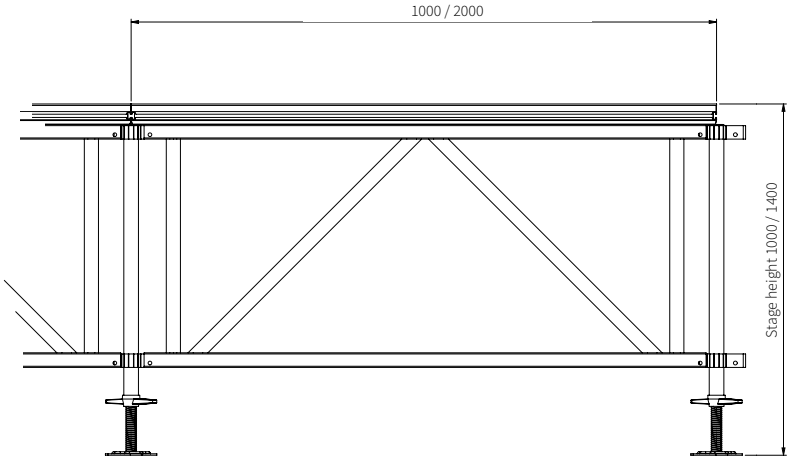
340019 — 1.75 kg

All measurements are in mm

Subframes

Subframe B

Product	Code
Leg Subframe B120 Stage82	341004
Rack Subframe B120 Stage82 200 x 120 cm	341005
Rack Subframe B120 Stage82 100 x 120 cm	341006
Leg Subframe B160 Stage82	341007
Rack Subframe B160 Stage82 200 x 160 cm	341008
Rack Subframe B160 Stage82 100 x 160 cm	341009
Leg Subframe B200 Stage82	341010
Rack Subframe B200 Stage82 200 x 200 cm	341011
Rack Subframe B200 Stage82 100 x 200 cm	341012
L-Pin 16x70 drop nose	811033
Scaff Spindle 60 cm	251009



WHY SUBFRAME B?

- For STAGE82
- For indoor and outdoor use
- Easy to level
- Extremely easy and fast to build and use
- Adjustable in height
- Integration in roof systems (can replace ground ring)
- Made by reinforced profile
- Internal diagonals integrated
- No adapters needed
- Offers space for ballast
- Rigid construction: can be calculated as ballast weight

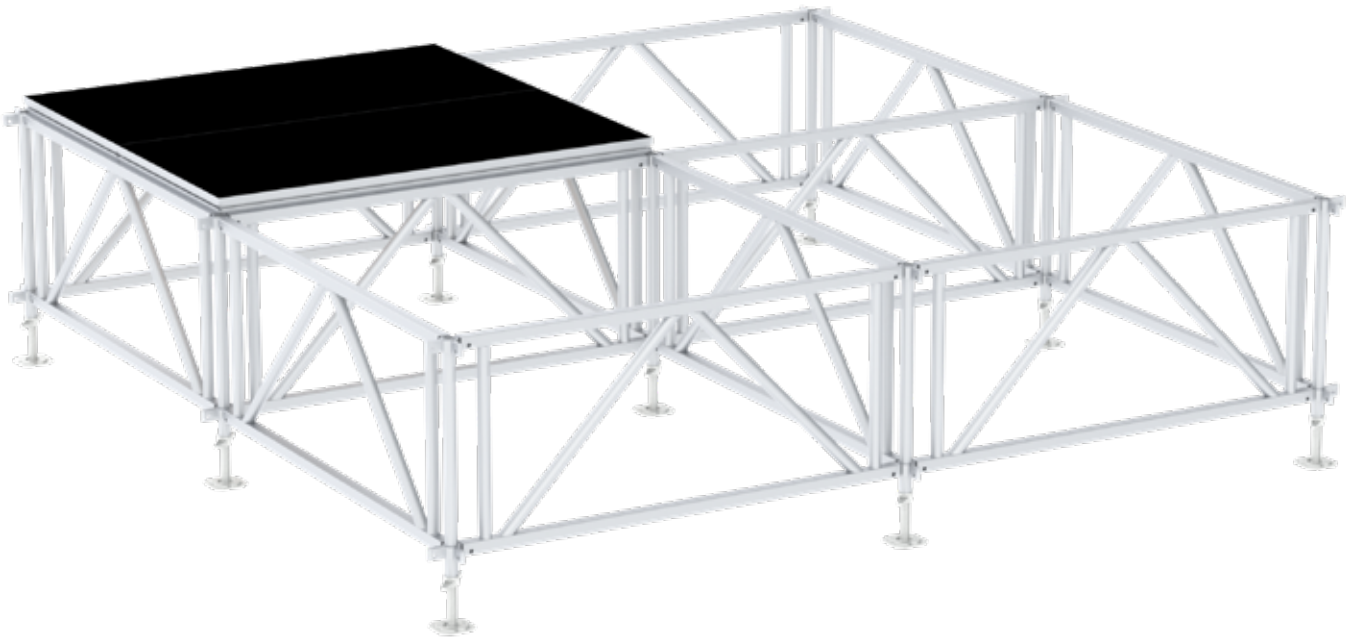
750 kg/m²

Lateral loading 10%

STAGE HEIGHT

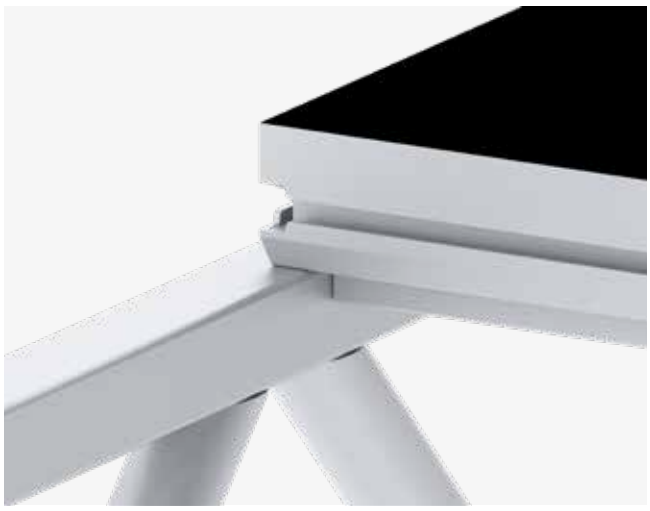
120 cm	160 cm	200 cm
100 to 140 cm	140 to 180 cm	180 to 220 cm

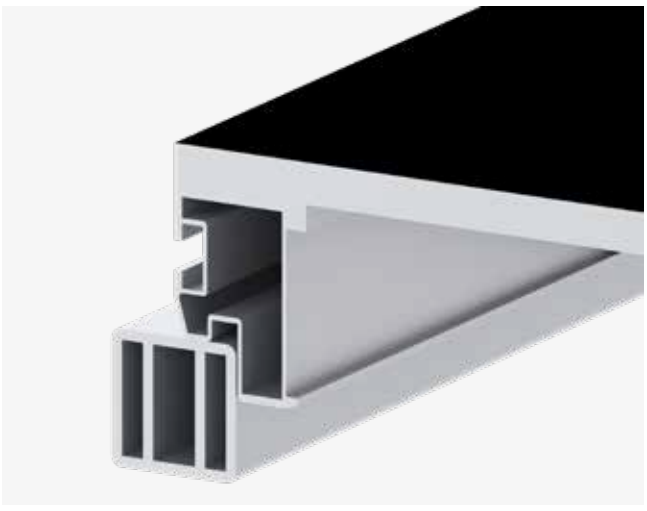
All frames are available in 0.5, 1 and 2 meter



All measurements are in mm

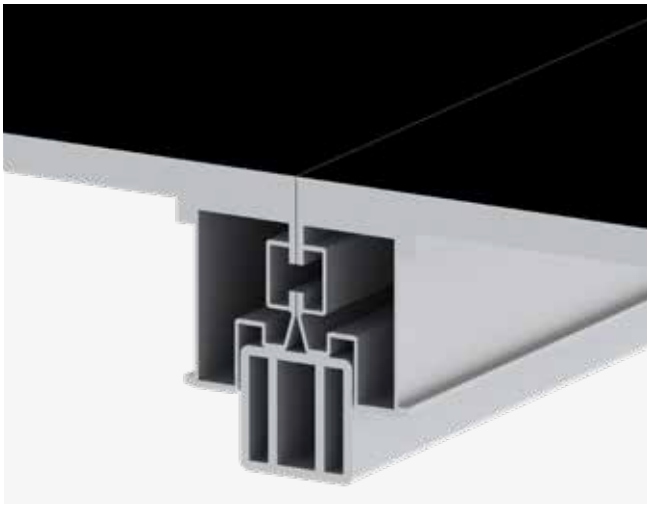
NO ADAPTERS NEEDED





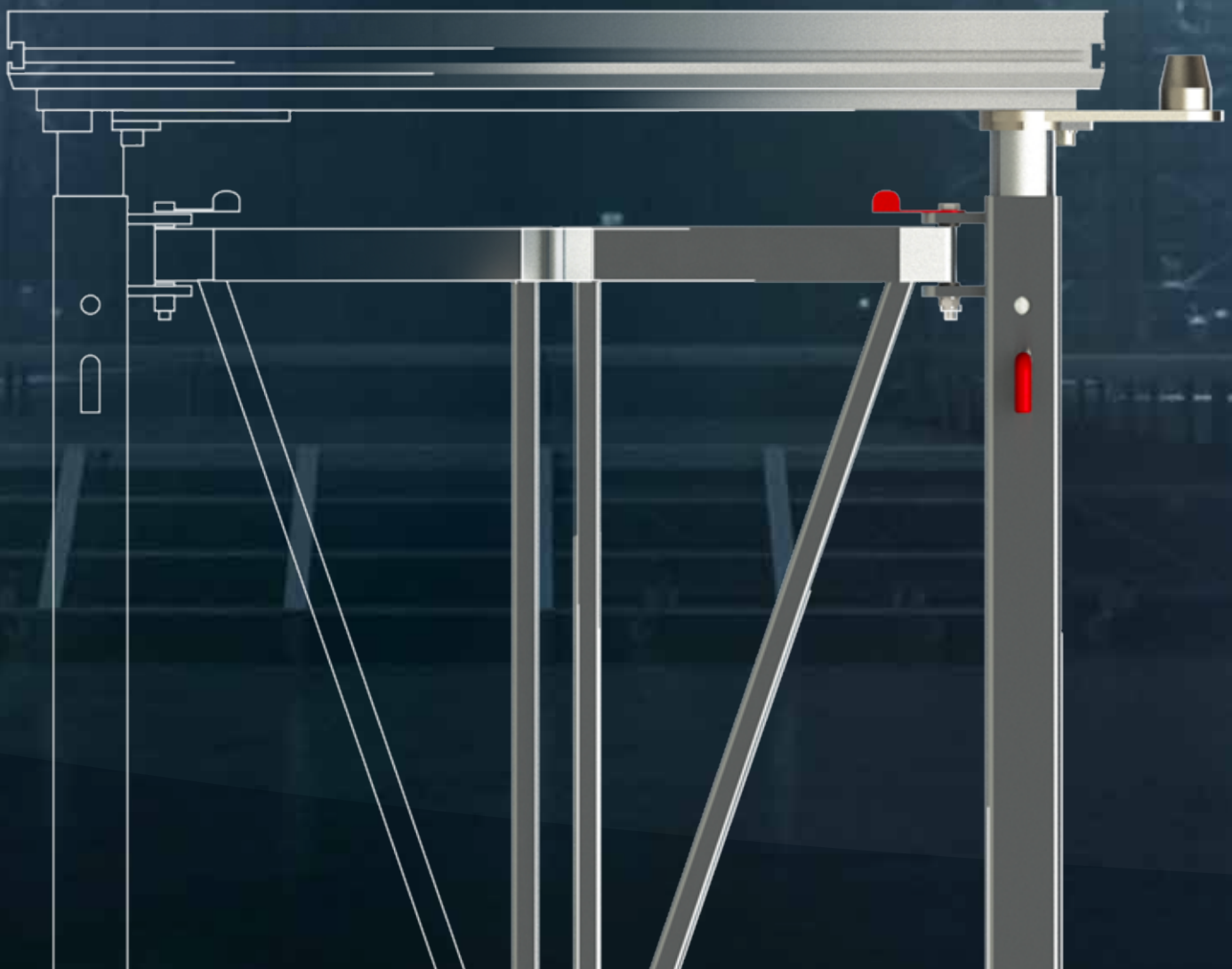
cross section view

Scan the QR-Code
to watch the STAGE82
technical video



SIXTY82™

ARENA FRAME



Sixty82 launches the new ARENA FRAME

This new concept is designed for venues which value the benefits of a quick and easy to build stage system. The straightforward design allows big stages to be built in the blink of an eye. A 200 square meter stage can be built in 90 minutes with a crew of 4 and a forklift. Because the frames are foldable, the system has a very small storage footprint.
The ability to build the stage and rig at the same time greatly lowers the time needed to build any stage set.

- World's fastest big stage system
- Easy to use, no tools needed
- Flexible in size and height
- No loose parts, all configurations can be made with the same frames
- Easy to store - small footprint
- Entire stage is movable as one, this allows you to build the rig and stage at the same time

4-WAY adapter

One size fits all Adapter

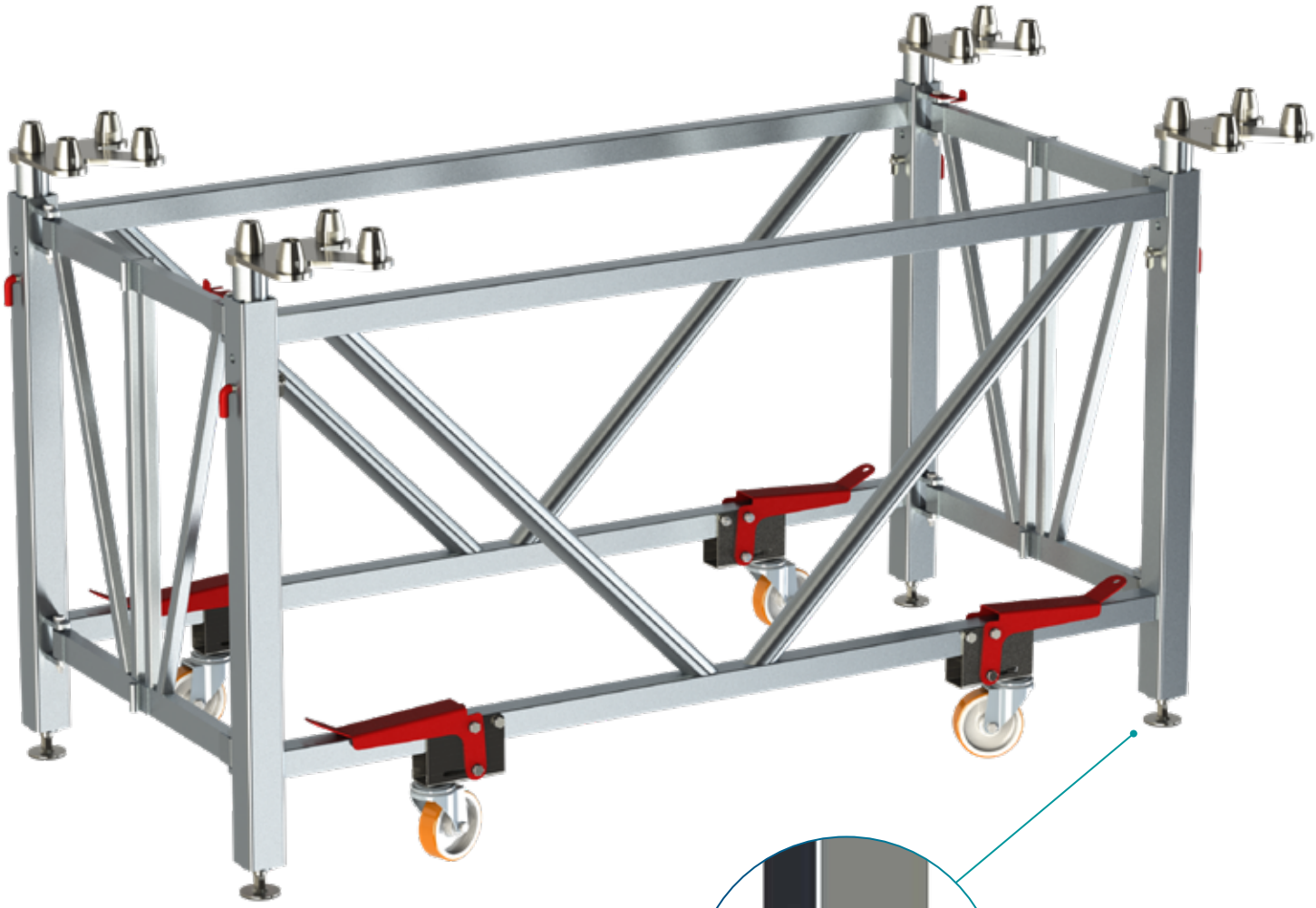
- One size fits all Adapter
- All different configurations can be made with the 4 way adapter.
- Rotatable in 4 orientations
- 500 kg 10% lateral load,
- 200x100 cm decks

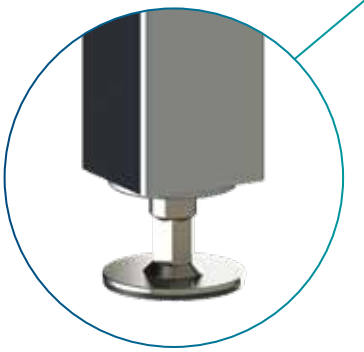
Scan the QR-Code
to watch the ARENA FRAME technical video

360°
Single and double frames (to make even and uneven sized stages)

4 way-adapter
Single and double frames
(to make even and uneven sized stages)

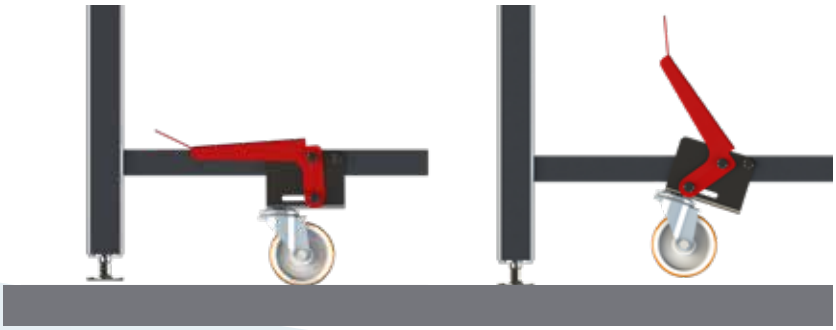
ARENA FRAME



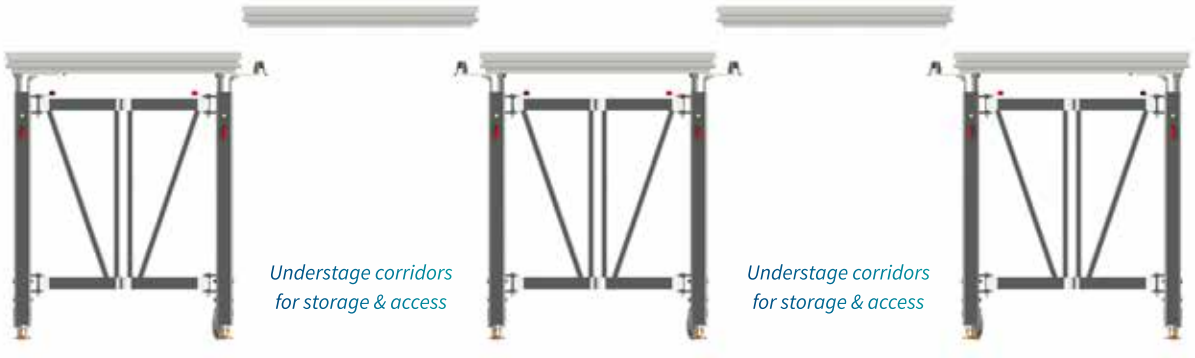


Level your stage
Stage can be perfectly stabilized using the adjustable feet

Rock solid structure
The unique brake system highly increases the stability of the stage.

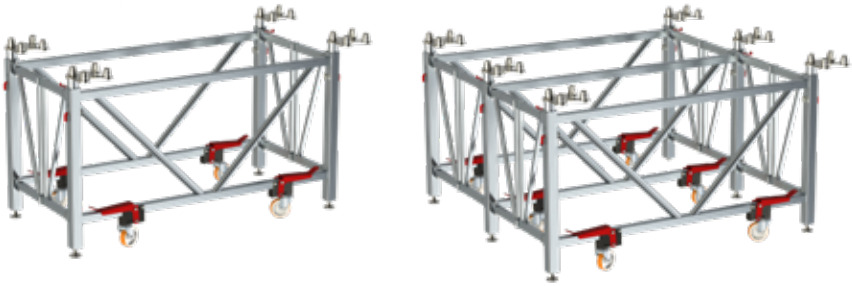


EASY to assemble



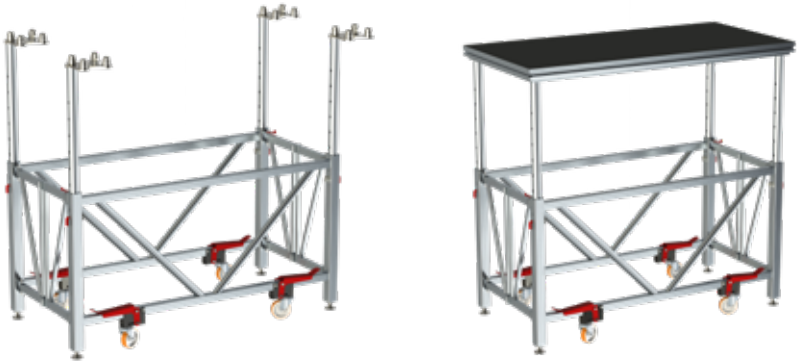
Only two frames needed

Single and double frames (to make even and uneven sized stages)



Height adjustable

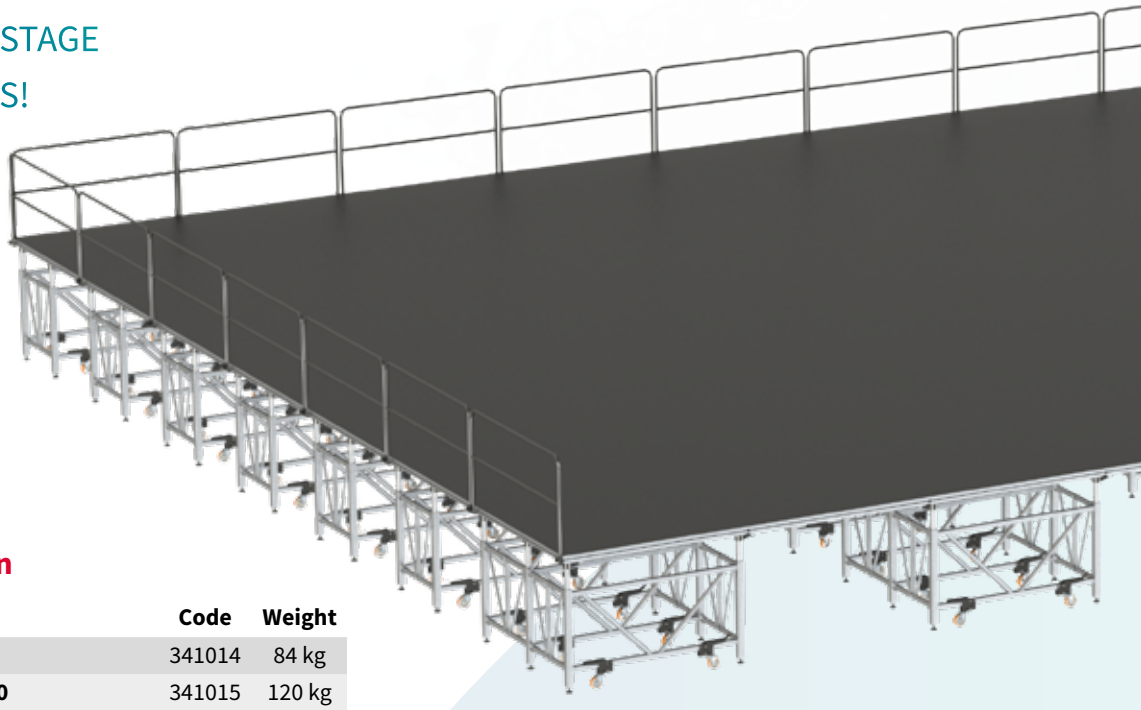
Pre-assembled frames can be adjusted in height from 120cm - 190cm (4' - 6') in steps of 5 cm



Foldable frame

Easy to store, the folding frame creates a small footprint

BUILD THIS 200 M² STAGE WITHIN 90 MINUTES!



Technical information

Product	Code	Weight
Arena frame single 120-190	341014	84 kg
Arena frame double 120-190	341015	120 kg
Stage82 Arena adapter 4-way	341013	4.5 kg
Dolly arena frame forklift 6SF 4DF	215029	50 kg
Stage82 module M 200x100cm hexa	310001	35.6 kg
Stage82 module M 200x100cm black	310001	35.6 kg

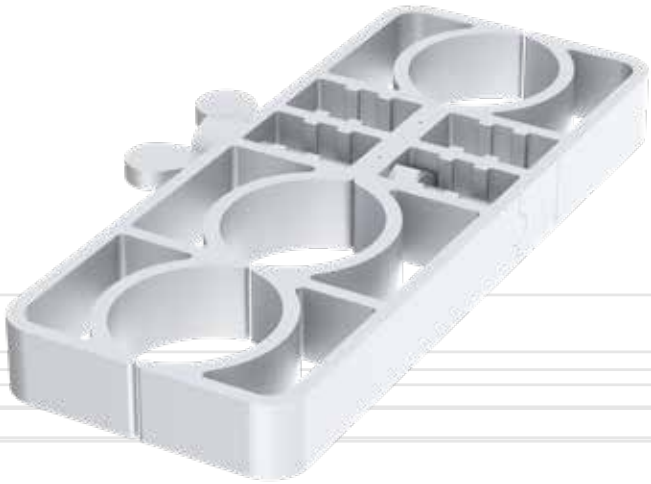
STAIRS ARENA FRAME 120-190

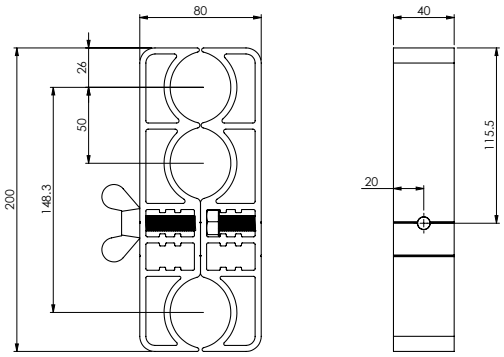
351027

ETP multi-clamp

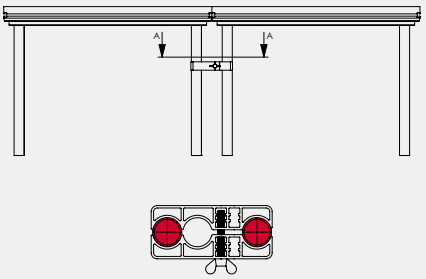
WHY: ETP MULTI-CLAMP 360035

- Most stable design in the market
- Suitable for STAGE82 (48mm diameter legs)
- 1 position for interlocking legs when staging modules are at level
- 1 position for interlocking legs when staging modules are at different levels
- Can be used to connect vertical poles to the legs
- Full aluminium
- Easy to mount

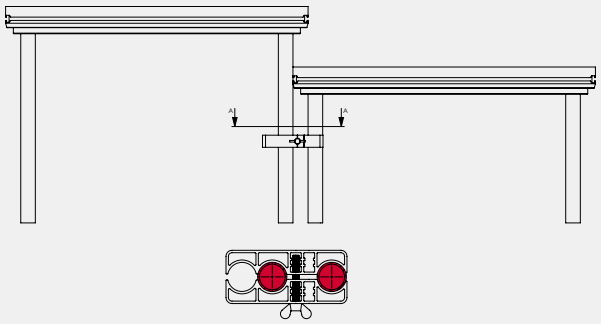




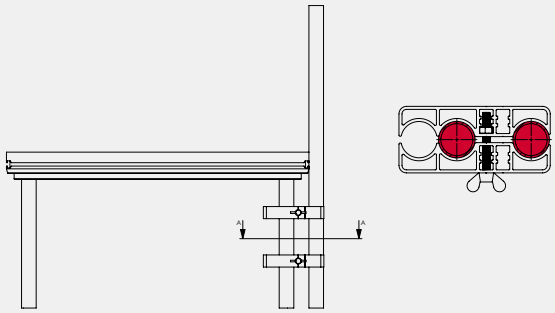
LEG-TO-LEG



GRAND-STAND



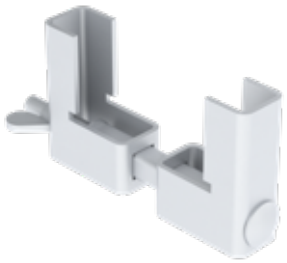
LEG-TO-POLE



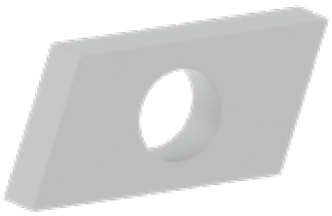
Scan the QR-Code
for more information

All measurements are in mm

STAGE-TO-STAGE CLAMP
360034 0.52 kg



NUT M10
816030 0.02 kg



T-BOLT M10
816026

STAGE-TO-STAGE CONNECTOR
360004 0.05 kg

STAGE-TO-STAGE LEVELER
360005 0.07 kg

ETP MULTICLAMP
360035 0.61 kg

STEP-OFF PROFILE
360037 3.5 kg

HOOK-ON PROFILE

Code	Length	Weight
360041	15 cm	0.1 kg
360042	35 cm	0.2 kg
360043	85 cm	0.52 kg
360044	135 cm	0.81 kg
360045	185 cm	1.13 kg
360046	600 cm	3.7 kg

KICKBOARD

Code	Length	Weight
360002	85 cm	0.76 kg
360003	185 cm	2.81 kg

SKIRTING PROFILE

Code	Length	Weight
360009	85 cm	0.56 kg
360010	100 cm	0.58 kg
360011	185 cm	1.14 kg
360012	200 cm	1.16 kg

Stairs Adjustable

	4 STEPS	5 STEPS
Height	min 40 cm / max 100 cm	min 50 cm / max 120 cm
Width overall	835 mm	835 mm
Load per step	150 kg	150 kg
Uniformly distributed load m^2	500 kg	500 kg
Weight	17.8 kg	21.6 kg
Article number	351015	351016

WHY STAIRS ADJUSTABLE?

- **Fits to all stage modules of SIXTY82**
- **Integrated fixation system system**
- **Steps with anti slip surface**
- **Full aluminium structure**
- **Flush out side for ease of transport**
- **Low self weight**
- **Use M10x50 (816035 + 816010) for assembly to LITE82**

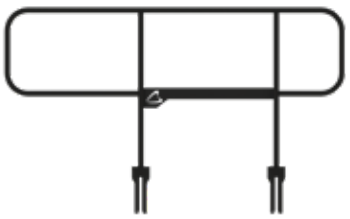
Assembly

NUT M10
816030

for STAGE82 — Bolt M10x14 DIN912 (816059)

Handrail

HANDRAIL 4-5 STEPS
351017 — 8.5 kg

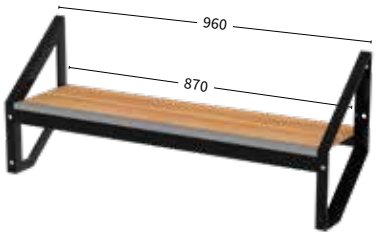


Can be used on both sides of stairs — Including accessories

All measurements are in mm

Stairs Modular

STAIRS MODULAR
351018 6.5 kg



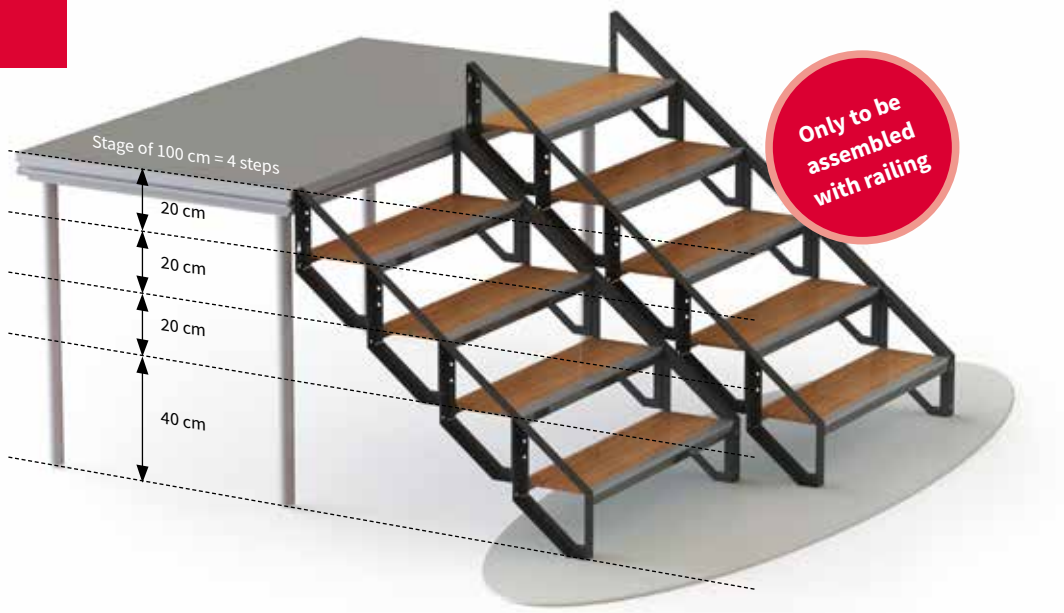
Including accessories to connect modular stairs

WHY STAIRS MODULAR?

- **Fits to all stage modules of SIXTY82**
- **A single step unit, one-size fits all**
- **Bolted together to create stair height up to 140 cm**
- **Ideal for transport: optimised packaging volume due to flat-pack-design**
- **Anti-slip Steps**
- **Loading 500 kg/m²**
- **Protected front edge of steps**
- **Integrated handrail connection**

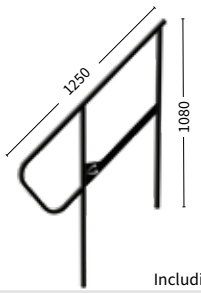
Every element of modular stairs has a total height of 40cm, when mounted properly the height of the stairs will increase with steps of 20 cm.
The formula to calculate the amount of elements needed is:
height of stage in cm / 20 = ... – 1

Scan the QR-Code to watch the technical video



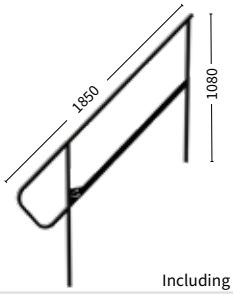
Handrail

HANDRAIL 3-4 STEPS
351021 10 kg



Including accessories

HANDRAIL 5-6 STEPS
351022 10.5 kg



Including accessories

Assembly

NUT M10
816030

for STAGE82 Bolt M10x12 DIN912 (816042)

All measurements are in mm

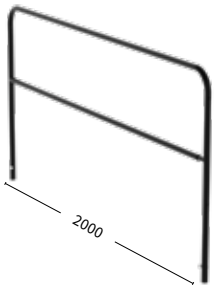
Stage Railing

STAGE82

STAGE RAILING
350005 — 30 KG/M — 7.34 kg

Including accessories

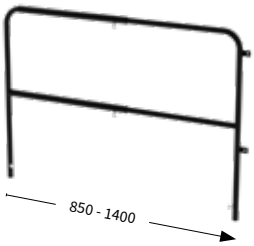
STAGE RAILING
350006 — 30 KG/M — 11.46 kg



Including accessories

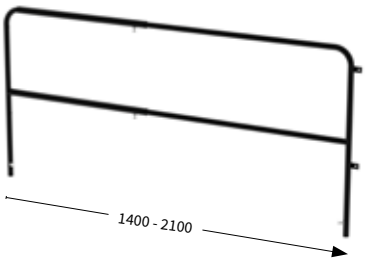
RAILING SPIGOT
350007 — 0.6 kg

STAGE RAILING ADJUSTABLE
350021



Including accessories

STAGE RAILING ADJUSTABLE
350022



Including accessories

RAILING SPACER
351013 — 0.01 kg

M10 x 110 / M10 x 020
(816019/816037 + 816020)

LITE82

STAGE RAILING

Code	Length	Weight
350001	2 ft	3.5 kg
350002	4 ft	6.5 kg
350003	6 ft	7.5 kg
350004	8 ft	9 kg

M10 x 90 (816028 + 816010)

STAGE RAILING VERTICAL BARS

Code	Length
350009	2 ft
350010	4 ft
350011	6 ft
350012	8 ft

M10 x 90 (816028 + 816010)

All measurements are in mm

Skirting

SKIRT STRAIGHT FINISH Code	Length	Polyester 160 g/m² - B1
360013	20 x 100 cm	
360014	40 x 100 cm	
360015	60 x 100 cm	
360016	80 x 100 cm	
360017	100 x 100 cm	
360018	20 x 200 cm	
360019	40 x 200 cm	
360020	60 x 200 cm	
360021	80 x 200 cm	
360022	100 x 200 cm	

SKIRT PLEAT FINISH Code	Length	Polyester 160 g/m² - B1
360023	20 x 100 cm	
360024	40 x 100 cm	
360025	60 x 100 cm	
360026	80 x 100 cm	
360027	100 x 100 cm	
360028	20 x 200 cm	
360029	40 x 200 cm	
360030	60 x 200 cm	
360031	80 x 200 cm	
360032	100 x 200 cm	

Photographer: Syo van Vliet

Dollies and **Extras**

Tube

TUBE

Code	Length
225001	50 cm
225002	75 cm
225003	100 cm
225006	150 cm
225004	200 cm
225007	250 cm
225005	300 cm
225008	400 cm

ø 48.3 x 3

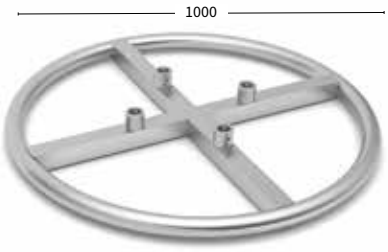
TUBE CONICAL COUPLER

Code	Length	Weight
221001	50 cm	0.75 kg
221002	75 cm	0.98 kg
221003	100 cm	1.33 kg
221006	150 cm	2 kg
221004	200 cm	2.48 kg
221007	250 cm	3.03 kg
221005	300 cm	3.63 kg
221008	400 cm	4.78 kg

ø 48.3 x 3

TOP CIRCLE M29S + M39S

229003



Excluding accessories

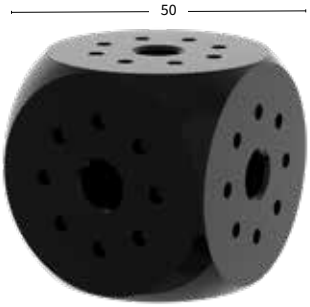
TUBE CONICAL COUPLER BLACK

Code	Length	Weight
221201	50 cm	0.75 kg
221202	75 cm	0.98 kg
221203	100 cm	1.33 kg
221206	150 cm	2 kg
221204	200 cm	2.48 kg
221207	250 cm	3.03 kg
221205	300 cm	3.63 kg
221208	400 cm	4.78 kg

ø 48.3 x 3

CUBE M BLACK

202445



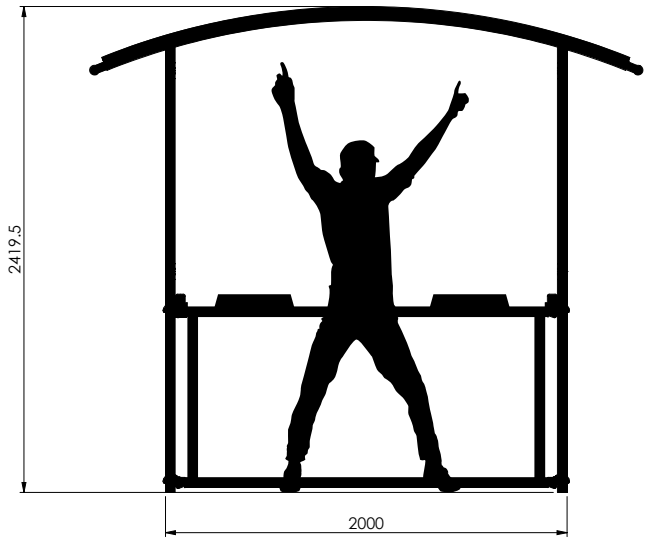
All measurements are in mm

BOOTH82

WHY BOOTH82?

- Very compact & light
- Beautiful appearance
- Multi-useable
- Is used in combination with STAGE82
- Easy to transport
- Easy to assemble (one man's job)

BOOTH82
700134

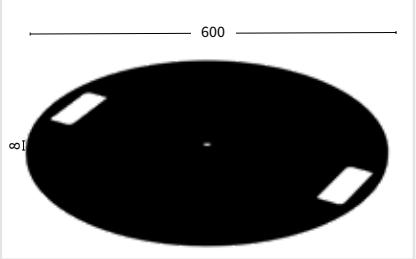


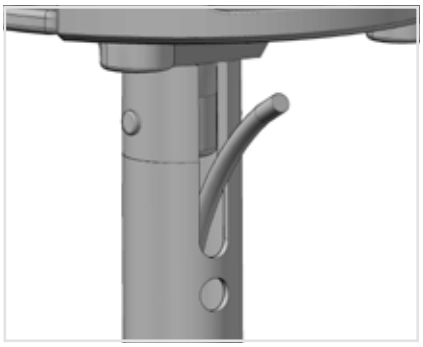
STICK82

WHY STICK82?

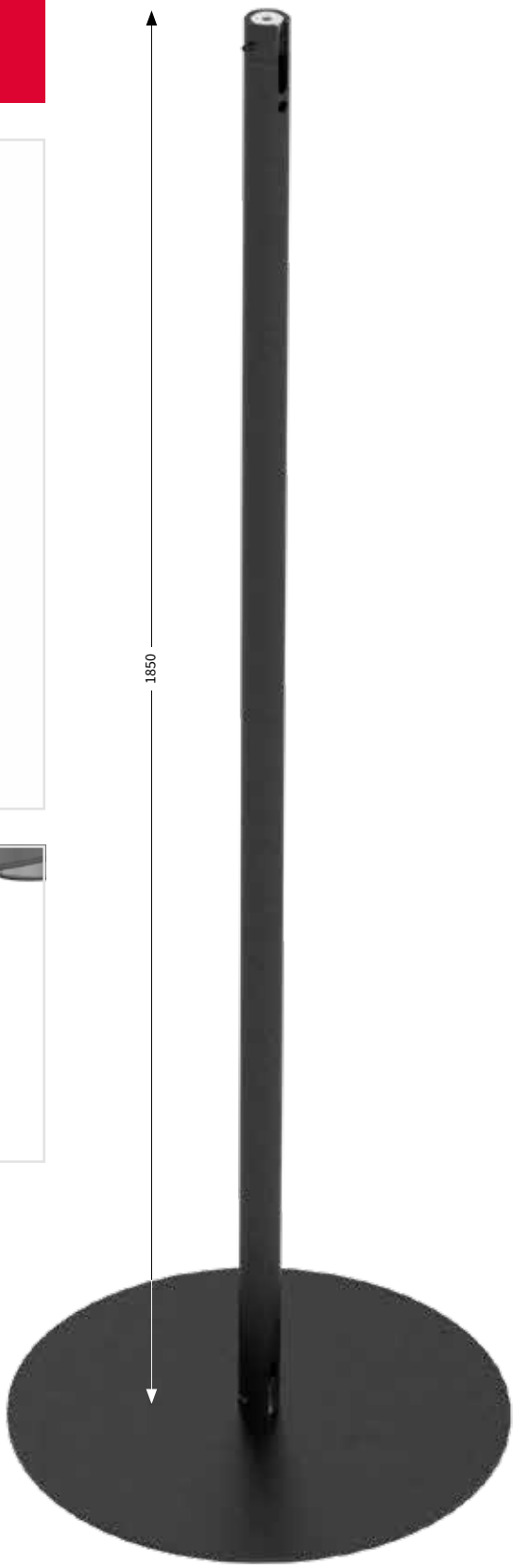
- Complete tower (tube + base)
- Steel base plate (black powder coated)
- Slotted ends allow cabels to pass through the tube. Ensuring a clean and finished look for your event

BASE
299001 18 kg



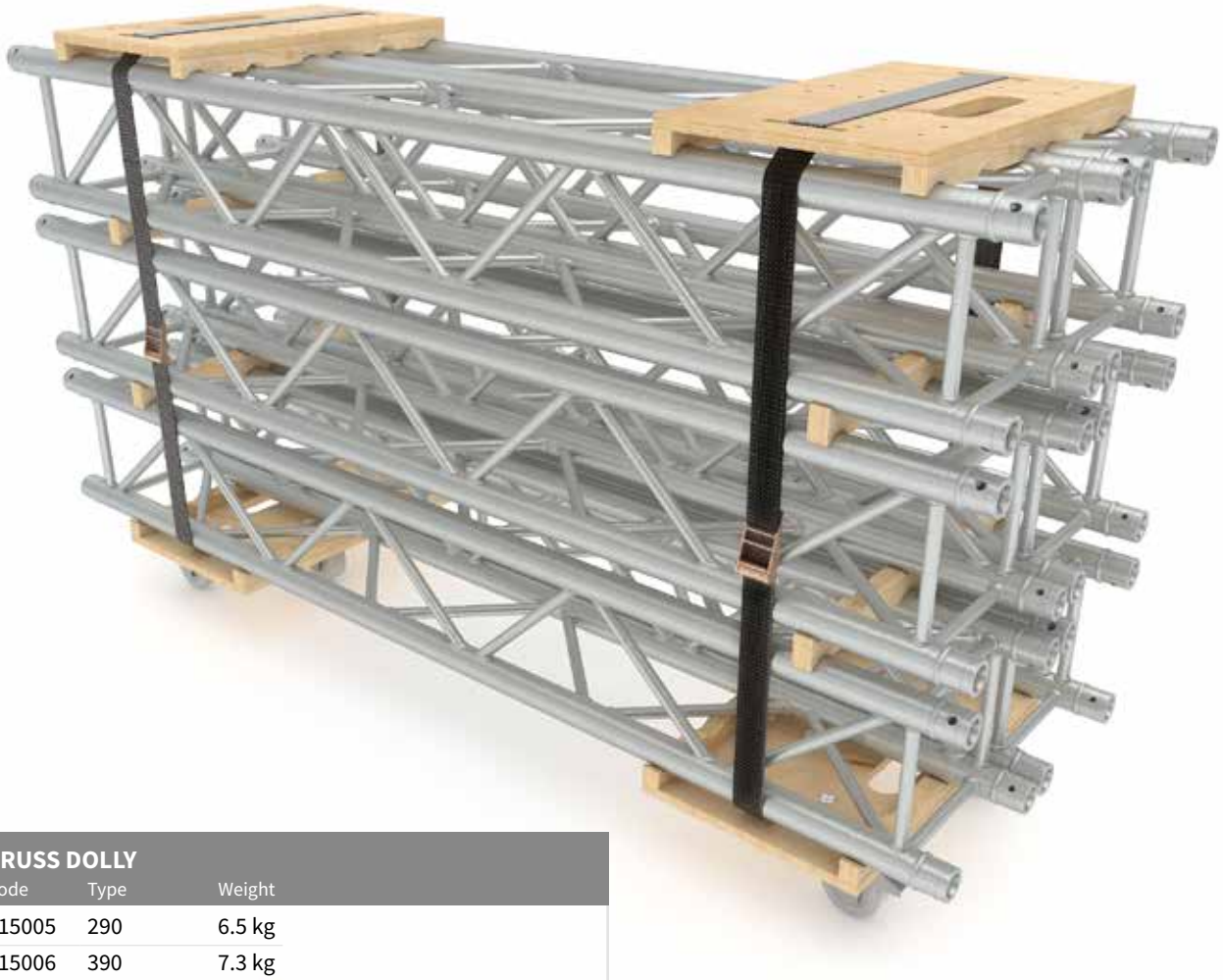


POLE
299002 2.25 kg



All measurements are in mm

Truss Dolly



TRUSS DOLLY

Code	Type	Weight
215005	290	6.5 kg
215006	390	7.3 kg

STACKING BAR DOUBLE

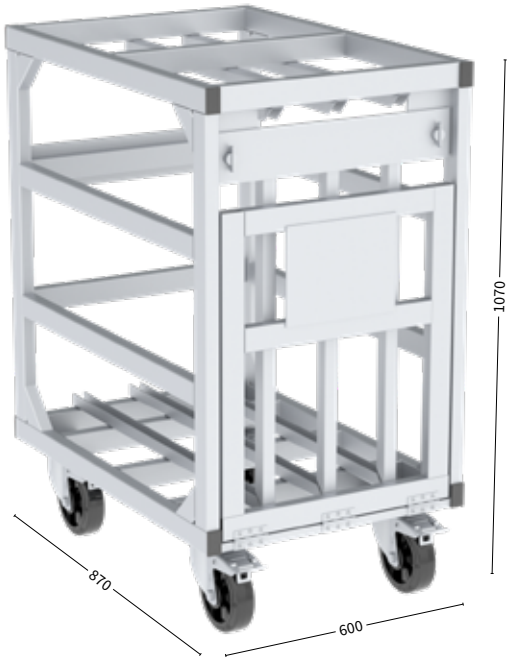
Code	Type	Weight
215003	M29	1.8 kg
215004	M39	2.5 kg

STACKING BAR

Code	Type	Weight
215001	M29	0.5 kg
215002	M39	0.7 kg

Base Plate Dolly

BASE PLATE DOLLY
215011



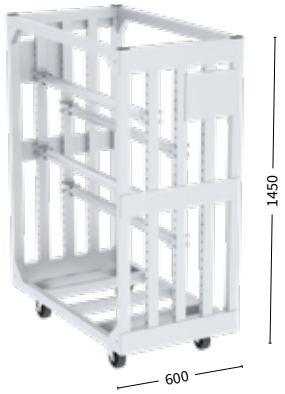
For 6 baseplates 80 cm round

BASE PLATE DOLLY
215012

For 6 baseplates 80 cm square

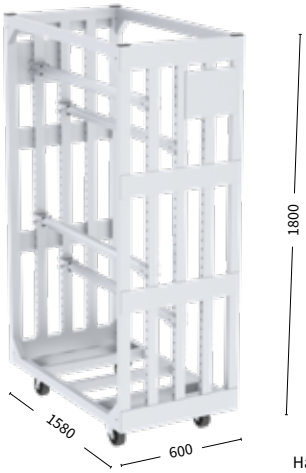
All measurements are in mm

VARIO DOLLY 4-3H
215007



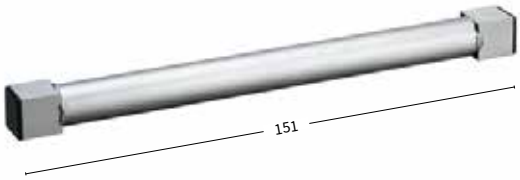
Hanging bars not included

VARIO DOLLY 4-4H
215008



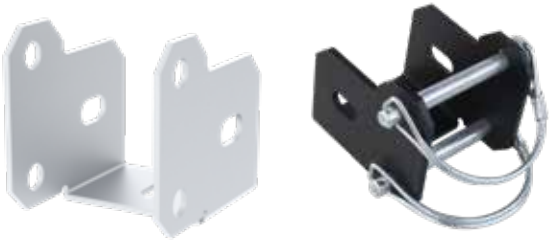
Hanging bars not included

TUBE
215015

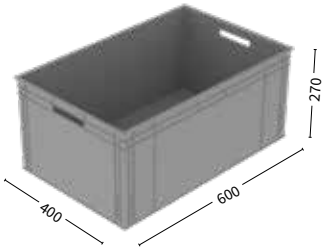


LOCKING PIN
215014

SUSPENSION BRACKET
215017



CRATE
215016



TOP CRATE
215010

CRATE DOLLY
215009

Incl. 9 crates

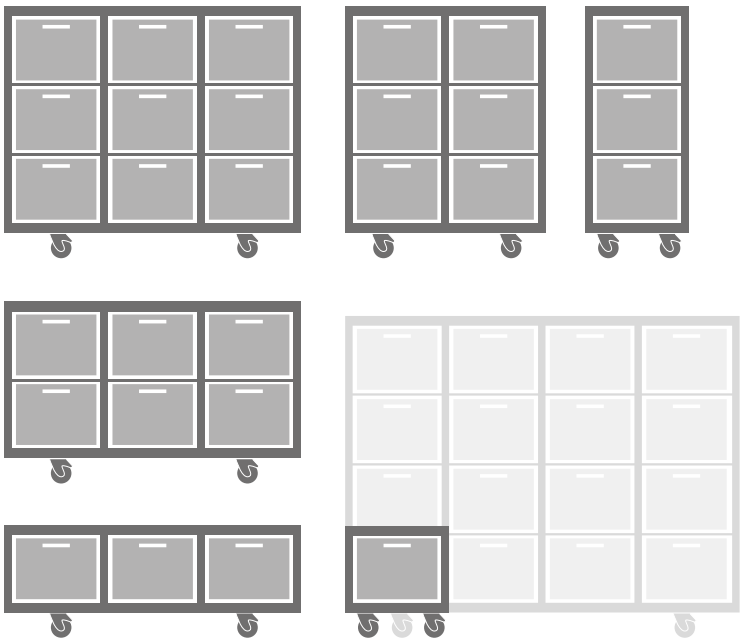
All measurements are in mm

Crate Dolly

WHY CRATE DOLLY 215009

- Easy on the road storage system
- Endless possibilities
- Can be ordered in many possible configurations
- Crates can not fall out during transport (locking system)
- Available with handles
- Top crate and countertop available
- Including wheels and brakes-system
- Size of DOLLY: from 1x2 till 4x4 crates
- Different size and type of crates
- Light in use

Scan the QR-Code
to watch the Crate Dolly technical video

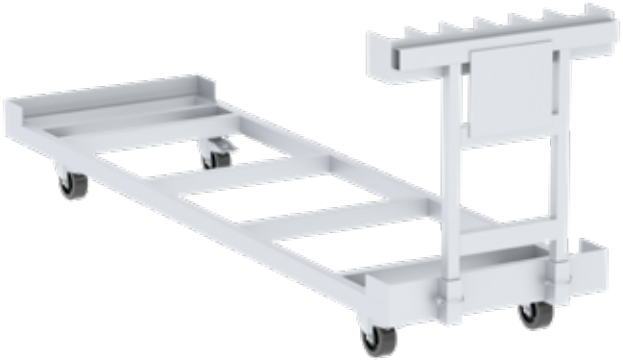


All measurements are in mm

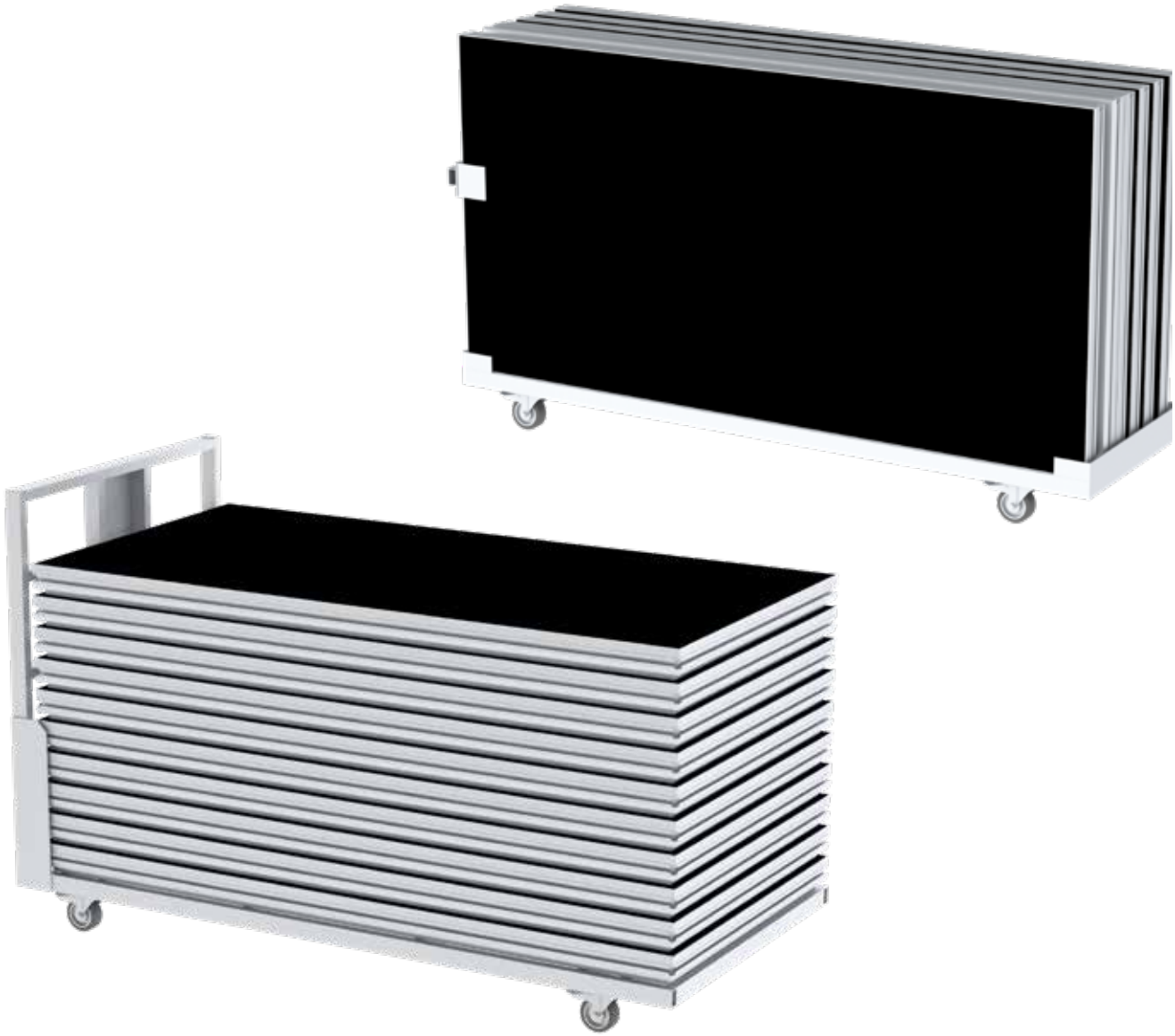
STAGE DOLLY
215018 48.5 kg

For 12 stage modules M

STAGE DOLLY
215020 41.9 kg

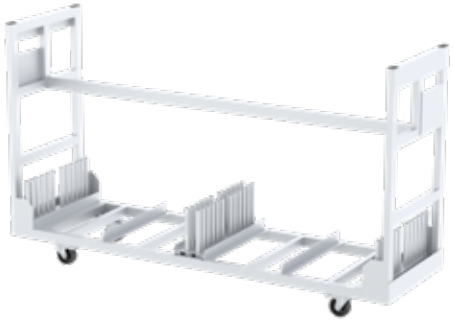


For 6 stage modules M

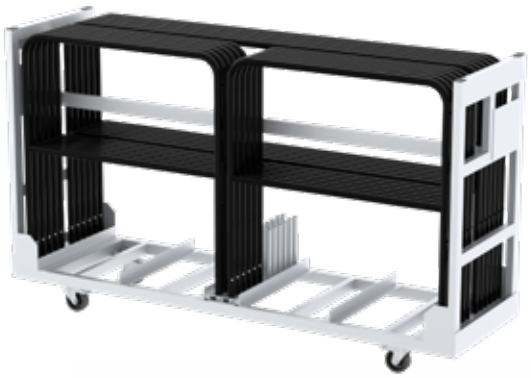


Railing Dolly

RAILING DOLLY
215022 52.8 kg

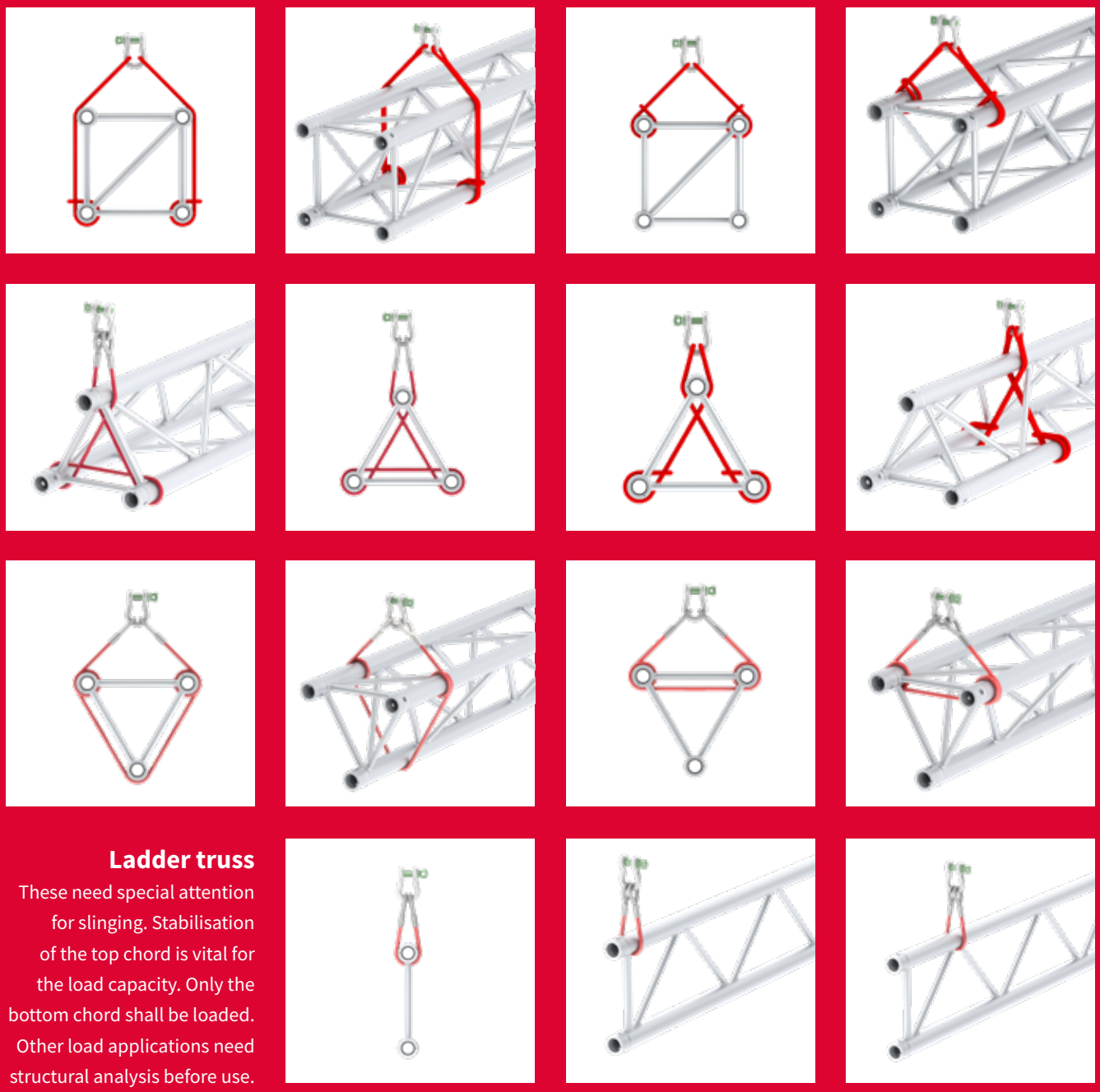


For railing 30 kg/m



User information

Suggested slinging methods



Ladder truss

These need special attention for slinging. Stabilisation of the top chord is vital for the load capacity. Only the bottom chord shall be loaded. Other load applications need structural analysis before use.

Slinging shall be applied solely at the main chords, not at the couplers or internal braces unless approved by a chartered engineer. Slinging shall be applied at node point, or as close as possible aside end braces, diagonals, and horizontal cross braces. Slinging equipment shall be made from non-abrasive and fire retardant materials.

For further information, please refer to the SIXTY82 original user manual.

Data Center

Type	Coupler type	Truss height	Truss width	Material	Cross section tubes				Dead weight	RFID
					Main chord		Diagonals			
		A mm	B mm		∅ mm	≠ mm	∅ mm	≠ mm	kg/m	
TPM29S	Model M	239	239	EN AW 6082 T6	48.3	3	17x14	2.45/1.7	6.4	
M29L		239	0		48.3	3	16	2	3	
M29T		207	239		48.3	3	16	2	5	
M29TX		207	239		51	2	16	2	4	✓
M29S		239	239		48.3	3	16	2	6.3	
M39S (MB)		339	339		48.3	3	16	2	6.9	
M39R		339	239		48.3	3	16	2	6.9	
M39TOW		339	339		50	4	25	3	12	
L35S	Model L	299	299		50	4	30	3	12	
L35R		299	207		50	4	30	3	11	✓
L52S (MB)		470	470		50	4	30	3	15	
L53TOW		470	470		60	5	30	3	17.5	
XL101R		950	520		60	6	48.3	3	25	✓
XL101F		950	520		60	6	48.3	3	25	

Type	Cross section truss					Permissible internal forces truss				
						Bending moment		Normal force	Transversal force	
	A cm2	Iy cm4	Iz cm4	iy cm	iz cm	My kNm	Mz kNm	N kN	Vy kN	Vz kN
TPM29S	17.08	2482.74	2482.74	12.06	12.06	25.83	25.83	216.19	18.5	18.5
M29L	8.54	1055.16	22	11.12	1.61	12.08	-	101.1	-	7.36
M29T	12.81	1064.71	1064.71	9.12	9.12	10.46	12.08	151.65	7.36	12.76
M29TX	9.24	771.16	771.01	9.14	9.14	7.55	8.71	109.36	12.76	7.36
M29S	17.08	2110.33	2110.33	11.12	11.12	24.16	24.16	202.2	14.73	14.73
M39S	17.08	4207.89	4207.89	15.7	15.7	34.27	34.27	202.2	18.94	18.94
M39R	17.08	4207.89	2110.33	15.7	11.13	34.27	24.16	202.2	18.94	14.73
M39TOW	23.12	5698.96	5500	15.7	15.42	36.06	36.06	212.77	40.22	40.22
L35S	23.12	4445.05	4445.05	13.87	13.87	40.93	40.93	273.77	45.48	45.48
L35R	23.12	4445.05	1750	13.87	8.7	40.93	-	273.77	-	45.48
L52S	23.12	10906.19	10906.19	21.72	21.72	64.33	64.33	273.77	42.61	42.61
L53TOW	34.6	16334	16334	21.74	21.74	96.15	96.15	409.16	42.61	42.61
XL101R	40.72	78211.52	23522.57	43.83	24.04	224.32	122.79	472.26	42.54	90.48
XL101F	-	78211.52	-	43.83	-	224.32	-	472.26	-	86.61

Our network

SIXTY82

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Belgium
Bhutan
Brunei
Cambodia
Canada & USA
China
Croatia
Denmark
Finland
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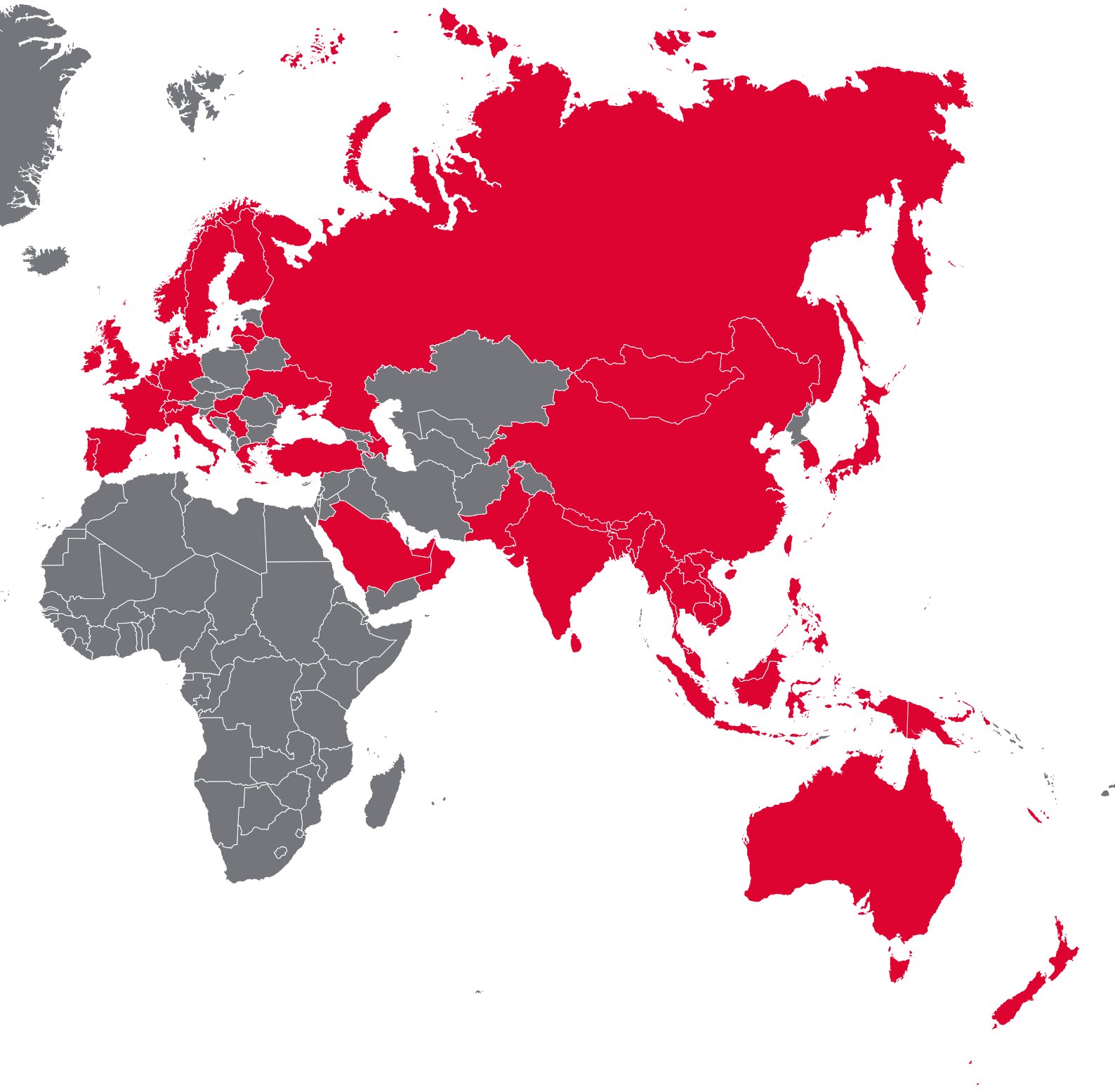

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