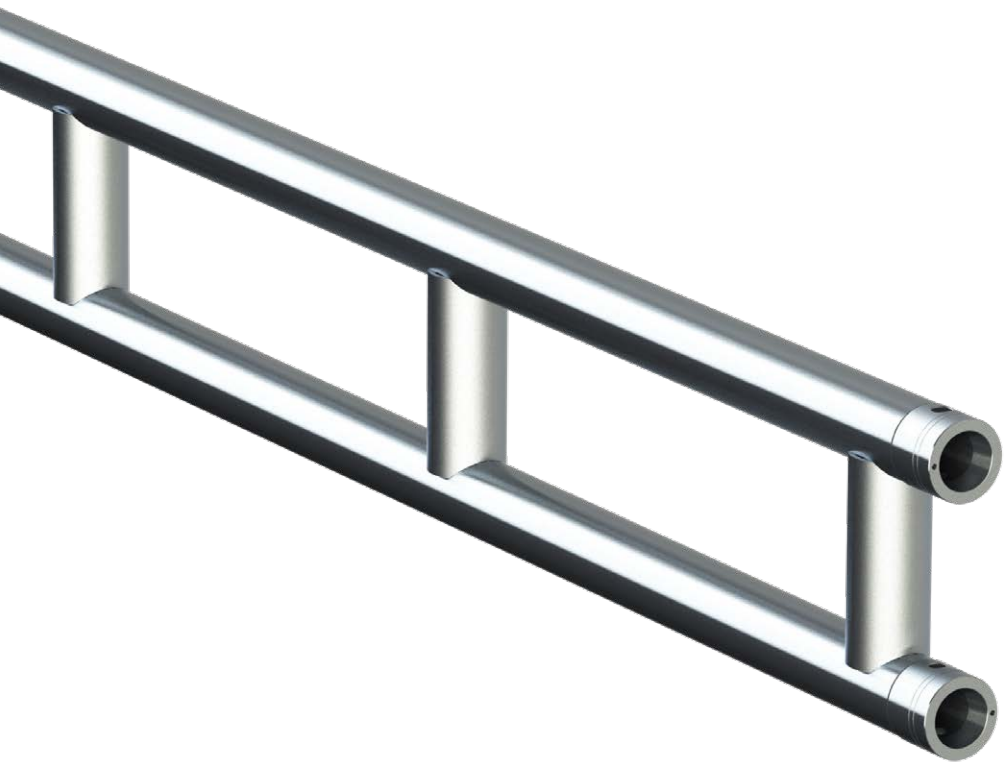
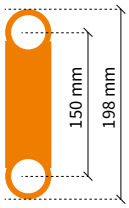
TECHNICAL DATA SHEET

TRUSS TYPE M19LB





2.8 kg/m

RFID READY

M

ALU/BLACK

The New Original

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Technical Data SIXTY82 M19LB

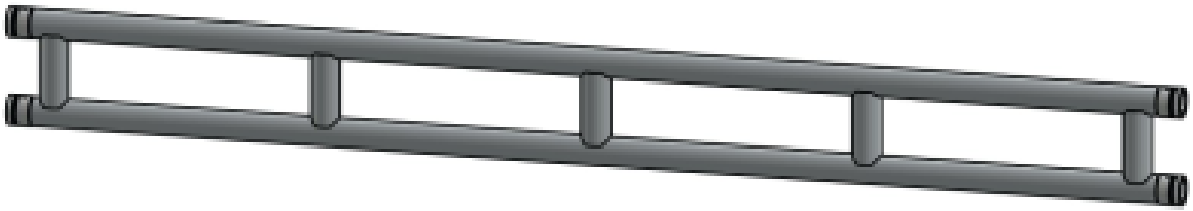
This technical data sheet provides values to be used in structural calculation and analysis of truss structures comprising SIXTY82 M39LB truss modules.

This technical data sheet does not replace mandatory structural calculation and analysis of truss structures!

In case of any doubt, please get in touch with SIXTY82 or the indicated structural engineers.

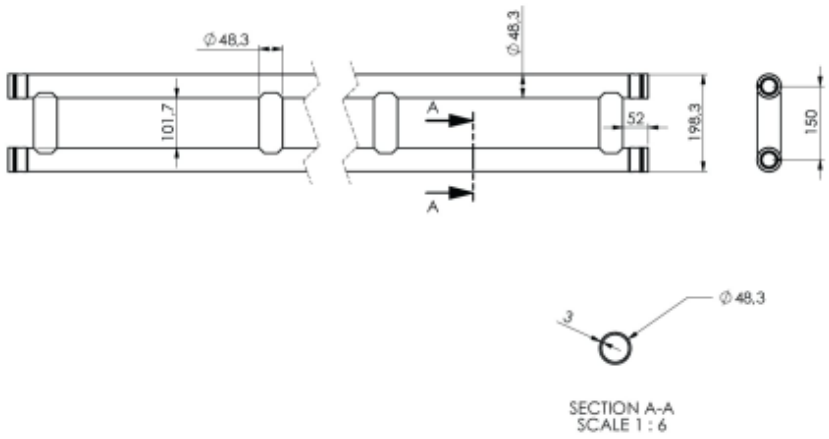
Structural Report	Krasenbrink+Bastians No. 22001 Date: 19.01.2022
Structural Engineer	Dipl.-Ing. Stefan Krasenbrink

Relevant Standards	EN 17115, EN 1990, EN 1991, EN 1993, EN 1999



Number	**Cross section single tubes**	**D[mm] X t[mm]**	**Alloy**
1	Mainchords	48,3x3mm	EN AW 6082 T6
2	Connectors		EN AW 6082 T6
3	Members	48,3x3mm	EN AW 6082 T6

Truss Geometry	



Height	a	198,3 mm
Width	b	48,3 mm
Angle of vertical braces	β_v	90°
Lever arm at connection	e	52 mm

Cross section complete truss:

Cross sectional area	A	8,54 cm²
Moment of inertia y-axis	I_y	732,22 cm^4
Moment of inertia z-axis	I_z	22,00 cm^4

The moments of inertia are reduced by 15% due to the resilient connection between chords and diagonals.

Deadweight of standard truss length modules:

Length	Deadweight/kg
50cm	1,80
100cm	3,10
150cm	4,40
200cm	5,60
250cm	6,90
300cm	8,20
350cm	9,40
400cm	10,70

Connection type: Conical connection system

Connection part	**Type**	**Dimension**	**Alloy**
Pin	conical	Ø = 9,6 – 11,75mm	C45Pb+C
Female coupler	conical/cylindrical	conical depth: 14,528 mm conical angle: 12° cylindrical Ø: 29,0 mm	EN AW-6082 T6
Male coupler	conical/cylindrical	conical length: 16,937 mm conical angle: 12° cylindrical Ø: 27,8 mm	EN AW-2011 T6 or equivalent, min. strenght: f_0 = 230 N/mm² f_u = 310 N/mm²
Connection fitting-chord	TIG-welded		Filler: 5356

Design internal normal forces of parts:

Connection	$N_{R,d}$	53,19 kN
Mainchord compression	$N_{R,d}$	50,55 kN
Mainchord tension	$N_{R,d}$	50,55 kN

LOADING TABLES SINGLE SPAN GIRDER /
BELASTUNGSTABELLEN EINFELDTRÄGER

Span / Spannweite [m]	Distributed load / Gleichlast [kN/m]	Single load / Einzellast [kN]
1,00	6,20	4,20
1,50	3,50	3,50
2,00	1,90	2,40
2,50	1,50	2,00
3,00	1,20	1,90
3,50	0,90	1,70
4,00	0,70	1,50
4,50	0,60	1,30
5,00	0,45	1,10