



# Punktlasten + Lastermittlung

Statische Berechnung zur Ermittlung der  
Hängepunktlasten

planer

## Punktlasten

Rig	Handle	Number	Static Load Stress	Dynamic Load Stress	Support	Static Force [kN]	Static Utilization [%]	Dynamic Force [kN]	Dynamic Utilization [%]	Max Valid Force [kN]	Height [m]
2	5208	5208	OK	OK	D8+	-2.820	56.41	-3.384	67.69	5.000	6
2	520B	520B	OK	OK	D8+	-1.665	33.30	-1.998	39.96	5.000	6
2	5207	5207	OK	OK	D8+	-1.443	28.86	-1.731	34.63	5.000	6
2	5210	5210	OK	OK	D8+	-2.608	52.16	-3.129	62.59	5.000	6
2	520D	520D	OK	HOCH	D8+	-3.206	64.12	-3.847	76.94	5.000	6
2	520C	520C	OK	OK	D8+	-2.063	41.26	-2.475	49.51	5.000	6
2	520F	520F	OK	HOCH	D8+	-3.151	63.02	-3.781	75.62	5.000	6
2	5211	5211	OK	OK	D8+	-1.583	31.67	-1.900	38.00	5.000	6
2	5212	5212	OK	OK	D8+	-1.731	34.62	-2.077	41.54	5.000	6
2	5213	5213	OK	OK	D8+	-0.614	12.28	-0.737	14.74	5.000	6
2	5214	5214	OK	OK	D8+	-1.650	33.01	-1.980	39.61	5.000	6
2	521B	521B	OK	OK	D8+	-2.590	51.80	-3.108	62.16	5.000	6
2	5215	5215	OK	OK	D8+	-2.165	43.31	-2.598	51.97	5.000	6
2	5217	5217	OK	OK	D8+	-2.100	42.01	-2.520	50.41	5.000	6
2	5218	5218	OK	OK	D8+	-2.467	49.35	-2.961	59.22	5.000	6
2	521C	521C	OK	OK	D8+	-1.964	39.28	-2.357	47.13	5.000	6
2	5216	5216	OK	OK	D8+	-1.107	22.15	-1.329	26.58	5.000	6
1	51FB	51FB	OK	OK	D8+	-1.854	37.08	-2.225	44.50	5.000	6
1	51FC	51FC	OK	OK	D8+	-0.680	13.60	-0.816	16.32	5.000	6
1	5205	5205	OK	OK	D8+	-1.675	33.50	-2.010	40.20	5.000	6
1	51FA	51FA	OK	OK	D8+	-2.334	46.68	-2.801	56.02	5.000	6
1	51F9	51F9	OK	OK	D8+	-2.454	49.09	-2.945	58.91	5.000	6
1	51F8	51F8	OK	OK	D8+	-2.566	51.31	-3.079	61.58	5.000	6
1	51F6	51F6	OK	OK	D8+	-1.384	27.68	-1.661	33.22	5.000	6
1	51F7	51F7	OK	OK	D8+	-2.387	47.74	-2.864	57.29	5.000	6
1	51FD	51FD	OK	OK	D8+	-0.411	8.22	-0.493	9.86	5.000	6
1	51FE	51FE	OK	HOCH	D8+	-3.416	68.32	-4.099	81.99	5.000	6
1	5200	5200	OK	OK	D8+	-2.732	54.63	-3.278	65.56	5.000	6

## Punktlasten

Rig	Handle	Number	Static Load Stress	Dynamic Load Stress	Support	Static Force [kN]	Static Utilization [%]	Dynamic Force [kN]	Dynamic Utilization [%]	Max Valid Force [kN]	Height [m]
1	5203	5203	OK	OK	D8+	-2.648	52.97	-3.178	63.56	5.000	6
1	5201	5201	OK	OK	D8+	-2.955	59.10	-3.546	70.92	5.000	6
1	51F5	51F5	OK	HOCH	D8+	-3.571	71.41	-4.285	85.70	5.000	6
1	5206	5206	OK	OK	D8+	-0.951	19.02	-1.141	22.83	5.000	6
1	5204	5204	OK	OK	D8+	-1.397	27.94	-1.676	33.53	5.000	6
1	5209	5209	OK	OK	D8+	-1.717	34.33	-2.060	41.20	5.000	6
1	5202	5202	OK	OK	D8+	-1.604	32.09	-1.925	38.51	5.000	6
1	520A	520A	OK	OK	D8+	-1.972	39.44	-2.366	47.33	5.000	6
<b>SUM <math>\Sigma</math></b>						<b>-73.637</b>	<b>x 1.20 =</b>	<b>-88.364</b>			

Auflagerlasten	12.420
Einzellasten	20.314
Preriglasten	0.000
Streckenlasten	40.903
<b>SUM <math>\Sigma</math></b>	<b>73.637</b>

<b>DELTA <math>\Delta</math></b>	<b>0.000</b>
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## Punktlasten mit Lastanteilen nach Gewerken

Rig	Handle	Number	Support	Static Force [kN]	Light [%]	Audio [%]	Video [%]	Media Access ories [%]	Truss [%]	Rigging [%]	Motor [%]	Point [%]	Rig Access ories [%]	SUM [%]
2	5208	5208	D8+	-2.820	10.14	0.00	0.00	0.00	51.27	12.54	18.61	0.00	0.00	92.55
2	520B	520B	D8+	-1.665	9.48	0.00	0.00	0.00	43.32	-9.93	50.74	0.00	0.00	93.61
2	5207	5207	D8+	-1.443	9.00	0.00	0.00	0.00	53.79	8.84	20.60	0.00	0.00	92.22
2	5210	5210	D8+	-2.608	20.15	0.00	0.00	0.00	49.88	7.70	14.78	0.00	0.00	92.51
2	520D	520D	D8+	-3.206	15.21	0.00	0.00	0.00	55.67	6.57	14.06	0.00	0.00	91.51
2	520C	520C	D8+	-2.063	13.94	0.00	0.00	0.00	57.18	6.62	13.45	0.00	0.00	91.19
2	520F	520F	D8+	-3.151	20.95	0.00	0.00	0.00	25.25	25.32	24.93	0.00	0.00	96.45
2	5211	5211	D8+	-1.583	18.66	0.00	0.00	0.00	36.35	25.25	14.45	0.00	0.00	94.72
2	5212	5212	D8+	-1.731	-2.73	0.00	0.00	0.00	53.25	-42.07	83.96	0.00	0.00	92.41
2	5213	5213	D8+	-0.614	7.23	0.00	0.00	0.00	60.37	13.53	10.10	0.00	0.00	91.23
2	5214	5214	D8+	-1.650	14.34	0.00	0.00	0.00	45.82	20.38	12.63	0.00	0.00	93.17
2	521B	521B	D8+	-2.590	6.20	0.00	0.00	0.00	62.12	9.72	13.03	0.00	0.00	91.06
2	5215	5215	D8+	-2.165	18.01	0.00	0.00	0.00	30.18	35.89	11.68	0.00	0.00	95.76
2	5217	5217	D8+	-2.100	17.70	0.00	0.00	0.00	42.66	23.68	9.66	0.00	0.00	93.71
2	5218	5218	D8+	-2.467	2.67	0.00	0.00	0.00	50.65	2.63	36.27	0.00	0.00	92.22
2	521C	521C	D8+	-1.964	19.29	0.00	0.00	0.00	45.72	3.66	24.70	0.00	0.00	93.37
2	5216	5216	D8+	-1.107	11.17	0.00	0.00	0.00	58.98	0.82	20.10	0.00	0.00	91.06
1	51FB	51FB	D8+	-1.854	14.87	0.00	0.00	0.00	50.75	5.15	21.50	0.00	0.00	92.27
1	51FC	51FC	D8+	-0.680	12.84	0.00	0.00	0.00	28.05	37.54	17.49	0.00	0.00	95.92
1	5205	5205	D8+	-1.675	6.71	0.00	0.00	0.00	59.54	12.39	12.23	0.00	0.00	90.86
1	51FA	51FA	D8+	-2.334	10.89	0.00	0.00	0.00	31.83	32.02	20.72	0.00	0.00	95.46
1	51F9	51F9	D8+	-2.454	1.63	0.00	0.00	0.00	49.22	17.80	23.91	0.00	0.00	92.56
1	51F8	51F8	D8+	-2.566	5.48	0.00	0.00	0.00	59.35	13.07	13.23	0.00	0.00	91.12
1	51F6	51F6	D8+	-1.384	12.43	0.00	0.00	0.00	60.71	6.84	10.76	0.00	0.00	90.75
1	51F7	51F7	D8+	-2.387	27.17	0.00	0.00	0.00	27.97	24.50	16.72	0.00	0.00	96.36
1	51FD	51FD	D8+	-0.411	13.07	0.00	0.00	0.00	57.78	9.51	10.95	0.00	0.00	91.30
1	51FE	51FE	D8+	-3.416	0.03	0.00	0.00	0.00	56.72	12.81	21.79	0.00	0.00	91.36
1	5200	5200	D8+	-2.732	13.39	0.00	0.00	0.00	49.65	9.29	19.93	0.00	0.00	92.26

## Punktlasten mit Lastanteilen nach Gewerken

Rig	Handle	Number	Support	Static Force [kN]	Light [%]	Audio [%]	Video [%]	Media Accessories [%]	Truss [%]	Rigging [%]	Motor [%]	Point [%]	Rig Accessories [%]	SUM [%]
1	5203	5203	D8+	-2.648	25.50	0.00	0.00	0.00	30.04	-16.88	56.17	0.00	0.00	94.83
1	5201	5201	D8+	-2.955	17.45	0.00	0.00	0.00	50.60	3.05	20.90	0.00	0.00	91.99
1	51F5	51F5	D8+	-3.571	21.14	0.00	0.00	0.00	40.34	19.27	13.32	0.00	0.00	94.07
1	5206	5206	D8+	-0.951	9.50	0.00	0.00	0.00	54.01	12.14	15.93	0.00	0.00	91.58
1	5204	5204	D8+	-1.397	8.02	0.00	0.00	0.00	39.91	30.03	16.43	0.00	0.00	94.38
1	5209	5209	D8+	-1.717	13.15	0.00	0.00	0.00	55.20	9.08	13.98	0.00	0.00	91.41
1	5202	5202	D8+	-1.604	16.90	0.00	0.00	0.00	33.59	27.12	17.57	0.00	0.00	95.18
1	520A	520A	D8+	-1.972	-2.91	0.00	0.00	0.00	43.59	22.20	31.15	0.00	0.00	94.04

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
1	OK	14.26	PROLYTE	H30V	461F	5439.000	2.062	24.000	8.59	2.101	14.730	14.26	6119
2	OK	15.47	PROLYTE	H30V	4618	7309.000	2.750	24.000	11.46	2.279	14.730	15.47	6119
3	OK	14.33	PROLYTE	H30V	4621	2729.000	-2.212	24.000	9.22	-2.111	14.730	14.33	6119
4	OK	17.08	PROLYTE	H30V	4635	2729.000	-2.675	24.000	11.14	2.516	14.730	17.08	6119
5	OK	5.61	PROLYTE	H30V	45EE	4019.000	1.345	24.000	5.61	0.804	14.730	5.46	6119
6	OK	7.56	PROLYTE	H30V	45F1	2729.000	1.698	24.000	7.08	-1.113	14.730	7.56	6119
7	OK	6.02	PROLYTE	H30V	45A6	2729.000	-1.410	24.000	5.88	-0.886	14.730	6.02	6119
8	OK	6.42	PROLYTE	H30V	45B9	2729.000	-1.541	24.000	6.42	-0.793	14.730	5.39	6119
9	OK	9.19	PROLYTE	H30V	45DE	2729.000	-2.205	24.000	9.19	-1.276	14.730	8.66	6119
10	OK	7.71	PROLYTE	H30V	4619	7309.000	-1.850	24.000	7.71	1.062	14.730	7.21	6119
11	OK	5.54	PROLYTE	H30V	4624	4149.000	-1.312	24.000	5.47	-0.815	14.730	5.54	6119
12	OK	12.39	PROLYTE	H30V	462D	5439.000	-1.597	24.000	6.65	-1.825	14.730	12.39	6119
13	OK	6.42	PROLYTE	H30V	4638	4149.000	1.542	24.000	6.42	0.925	14.730	6.28	6119
14	OK	14.26	PROLYTE	H30V	45D6	3019.000	1.422	24.000	5.92	2.101	14.730	14.26	6119
15	OK	3.00	PROLYTE	H30V	45FD	4019.000	-0.564	24.000	2.35	-0.442	14.730	3.00	6119
16	OK	6.23	PROLYTE	H30V	45F4	4149.000	1.495	24.000	6.23	0.911	14.730	6.18	6119
17	OK	11.44	PROLYTE	H30V	45A8	4149.000	2.062	24.000	8.59	1.685	14.730	11.44	6119
18	OK	6.15	PROLYTE	H30V	45B6	4019.000	1.005	24.000	4.19	-0.907	14.730	6.15	6119
19	OK	4.28	PROLYTE	H30V	45C5	4019.000	1.027	24.000	4.28	0.445	14.730	3.02	6119
20	OK	7.40	PROLYTE	H30V	45BC	4149.000	-1.777	24.000	7.40	-0.457	14.730	3.10	6119
21	OK	4.94	PROLYTE	H30V	45D7	3019.000	-1.185	24.000	4.94	-0.370	14.730	2.51	6119
22	OK	9.02	PROLYTE	H30V	45E1	4149.000	2.166	24.000	9.02	0.579	14.730	3.93	6119
23	OK	6.05	PROLYTE	H30V	461A	7309.000	1.451	24.000	6.05	0.565	14.730	3.83	6119
24	OK	8.70	PROLYTE	H30V	4627	4439.000	2.088	24.000	8.70	0.928	14.730	6.30	6119
25	OK	13.10	PROLYTE	H30V	462F	5439.000	-0.572	24.000	2.38	1.929	14.730	13.10	6119
26	OK	6.68	PROLYTE	H30V	463A	4439.000	-1.550	24.000	6.46	-0.984	14.730	6.68	6119

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
27	OK	15.47	PROLYTE	H30V	45FF	4019.000	2.750	24.000	11.46	2.279	14.730	15.47	6119
28	OK	6.16	PROLYTE	H30V	45F7	4439.000	-1.479	24.000	6.16	-0.822	14.730	5.58	6119
29	OK	8.54	PROLYTE	H30V	45AA	4439.000	-2.049	24.000	8.54	-0.940	14.730	6.38	6119
30	OK	7.95	PROLYTE	H30V	45C7	4019.000	1.908	24.000	7.95	0.707	14.730	4.80	6119
31	OK	5.09	PROLYTE	H30V	45BF	4439.000	1.221	24.000	5.09	0.624	14.730	4.24	6119
32	OK	7.93	PROLYTE	H30V	45D8	3019.000	-1.903	24.000	7.93	-0.393	14.730	2.67	6119
33	OK	6.71	PROLYTE	H30V	45E4	4439.000	1.612	24.000	6.71	0.846	14.730	5.75	6119
34	OK	6.74	PROLYTE	H30V	461B	7309.000	-1.210	24.000	5.04	0.992	14.730	6.74	6119
35	OK	8.94	PROLYTE	H30V	462A	4439.000	-2.145	24.000	8.94	-0.924	14.730	6.27	6119
36	OK	14.33	PROLYTE	H30V	4631	5439.000	-2.212	24.000	9.22	-2.111	14.730	14.33	6119
37	OK	6.90	PROLYTE	H30V	463C	4439.000	1.244	24.000	5.18	1.017	14.730	6.90	6119
38	OK	8.24	PROLYTE	H30V	4601	4019.000	1.979	24.000	8.24	1.086	14.730	7.37	6119
39	OK	5.06	PROLYTE	H30V	45FA	4439.000	0.775	24.000	3.23	0.746	14.730	5.06	6119
40	OK	8.45	PROLYTE	H30V	45AC	4439.000	1.187	24.000	4.95	-1.244	14.730	8.45	6119
41	OK	6.04	PROLYTE	H30V	45C9	4019.000	1.449	24.000	6.04	0.556	14.730	3.78	6119
42	OK	5.04	PROLYTE	H30V	45C2	4439.000	-1.210	24.000	5.04	-0.460	14.730	3.12	6119
43	OK	17.08	PROLYTE	H30V	45D9	3019.000	-2.070	24.000	8.63	2.516	14.730	17.08	6119
44	OK	6.73	PROLYTE	H30V	45E7	4439.000	-1.616	24.000	6.73	-0.549	14.730	3.72	6119
45	OK	11.23	PROLYTE	H30V	461C	7309.000	-2.675	24.000	11.14	1.654	14.730	11.23	6119
46	OK	9.52	PROLYTE	H30V	4633	5439.000	-2.284	24.000	9.52	-1.199	14.730	8.14	6119
47	OK	7.00	PROLYTE	H30V	4603	4019.000	1.679	24.000	7.00	0.776	14.730	5.27	6119
48	OK	8.38	PROLYTE	H30V	45CB	4019.000	1.950	24.000	8.12	1.234	14.730	8.38	6119
49	OK	11.00	PROLYTE	H30V	45DA	3019.000	1.723	24.000	7.18	-1.621	14.730	11.00	6119
50	OK	4.26	PROLYTE	H30V	47B1	24000.00	-0.919	24.000	3.83	-0.628	14.730	4.26	6119
51	OK	4.20	PROLYTE	H30V	47C6	5999.999	-0.748	24.000	3.12	0.619	14.730	4.20	6119
52	OK	2.14	PROLYTE	H30V	47B2	5000.000	-0.381	24.000	1.59	-0.315	14.730	2.14	6119

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
53	OK	2.30	PROLYTE	H30V	47A3	6005.240	0.288	24.000	1.20	-0.339	14.730	2.30	6119
54	OK	3.99	PROLYTE	H30V	47B8	13000.00	0.817	24.000	3.40	0.587	14.730	3.99	6119
55	OK	16.46	DIN EN 10220	RO48,3x2,0	67A9	1500.000	0.097	0.590	16.46	0.079	14.580	0.54	6119
56	OK	13.32	DIN EN 10220	RO48,3x2,0	67A8	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119
57	OK	1.59	DIN EN 10220	RO48,3x2,0	67A7	1500.000	0.009	0.590	1.59	0.013	14.580	0.09	6119
58	OK	1.59	DIN EN 10220	RO48,3x2,0	67A6	1500.000	0.009	0.590	1.59	0.013	14.580	0.09	6119
59	OK	1.59	DIN EN 10220	RO48,3x2,0	67A5	1500.000	0.009	0.590	1.59	0.013	14.580	0.09	6119
60	OK	1.59	DIN EN 10220	RO48,3x2,0	67A4	1500.000	0.009	0.590	1.59	0.013	14.580	0.09	6119
61	OK	14.95	DIN EN 10220	RO48,3x2,0	67A3	1500.000	0.088	0.590	14.95	0.079	14.580	0.54	6119
62	OK	15.16	DIN EN 10220	RO48,3x2,0	67A2	1500.000	0.089	0.590	15.16	0.079	14.580	0.54	6119
63	OK	1.59	DIN EN 10220	RO48,3x2,0	67A1	1500.000	0.009	0.590	1.59	0.013	14.580	0.09	6119
64	OK	16.09	DIN EN 10220	RO48,3x2,0	678A	1500.000	0.095	0.590	16.09	0.079	14.580	0.54	6119
65	OK	16.15	DIN EN 10220	RO48,3x2,0	6789	1500.000	0.095	0.590	16.15	0.079	14.580	0.54	6119
66	OK	15.94	DIN EN 10220	RO48,3x2,0	6788	1500.000	0.094	0.590	15.94	0.079	14.580	0.54	6119
67	OK	16.30	DIN EN 10220	RO48,3x2,0	678D	1500.000	0.096	0.590	16.30	0.079	14.580	0.54	6119
68	OK	16.30	DIN EN 10220	RO48,3x2,0	678C	1500.000	0.096	0.590	16.30	0.079	14.580	0.54	6119
69	OK	16.46	DIN EN 10220	RO48,3x2,0	678B	1500.000	0.097	0.590	16.46	0.079	14.580	0.54	6119
70	OK	13.32	DIN EN 10220	RO48,3x2,0	7616	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119
71	OK	13.32	DIN EN 10220	RO48,3x2,0	7614	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119
72	OK	13.32	DIN EN 10220	RO48,3x2,0	7612	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119
73	OK	12.43	DIN EN 10220	RO48,3x2,0	677F	1500.000	0.073	0.590	12.43	0.079	14.580	0.54	6119
74	OK	12.85	DIN EN 10220	RO48,3x2,0	677E	1500.000	0.076	0.590	12.85	0.079	14.580	0.54	6119
75	OK	12.02	DIN EN 10220	RO48,3x2,0	677B	1500.000	0.071	0.590	12.02	0.079	14.580	0.54	6119
76	OK	13.32	DIN EN 10220	RO48,3x2,0	7610	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119
77	OK	12.85	DIN EN 10220	RO48,3x2,0	677D	1500.000	0.076	0.590	12.85	0.079	14.580	0.54	6119
78	OK	13.32	DIN EN 10220	RO48,3x2,0	677C	1500.000	0.079	0.590	13.32	0.079	14.580	0.54	6119

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
79	OK	24.03	PROLYTE	H30V	42F0	6149.000	4.714	24.000	19.64	3.539	14.730	24.03	6123
80	OK	14.44	PROLYTE	H30V	4429	7019.000	3.466	24.000	14.44	1.967	14.730	13.36	6123
81	OK	16.42	PROLYTE	H30V	448C	2729.000	3.474	24.000	14.47	2.419	14.730	16.42	6123
82	OK	3.58	PROLYTE	H30V	4498	2729.000	0.860	24.000	3.58	0.459	14.730	3.11	6123
83	OK	6.30	PROLYTE	H30V	442E	7019.000	1.314	24.000	5.48	0.928	14.730	6.30	6123
84	OK	1.87	PROLYTE	H30V	44A4	2729.000	-0.432	24.000	1.80	-0.276	14.730	1.87	6123
85	OK	11.88	PROLYTE	H30V	4563	6149.000	-2.850	24.000	11.88	1.493	14.730	10.13	6123
86	OK	2.31	PROLYTE	H30V	448F	4149.000	0.259	24.000	1.08	0.340	14.730	2.31	6123
87	OK	10.22	PROLYTE	H30V	4569	7019.000	2.453	24.000	10.22	1.078	14.730	7.32	6123
88	OK	19.64	PROLYTE	H30V	449B	4149.000	4.714	24.000	19.64	-2.882	14.730	19.57	6123
89	OK	4.27	PROLYTE	H30V	4489	9229.000	1.024	24.000	4.27	0.620	14.730	4.21	6123
90	OK	3.17	PROLYTE	H30V	456D	7019.000	0.606	24.000	2.53	-0.467	14.730	3.17	6123
91	OK	1.79	PROLYTE	H30V	44B0	2729.000	-0.396	24.000	1.65	-0.264	14.730	1.79	6123
92	OK	10.52	PROLYTE	H30V	44A7	4149.000	2.524	24.000	10.52	0.945	14.730	6.42	6123
93	OK	10.94	PROLYTE	H30V	4573	6149.000	1.769	24.000	7.37	-1.611	14.730	10.94	6123
94	OK	1.63	PROLYTE	H30V	4492	4439.000	-0.262	24.000	1.09	-0.240	14.730	1.63	6123
95	OK	24.03	PROLYTE	H30V	4579	7019.000	-1.458	24.000	6.07	3.539	14.730	24.03	6123
96	OK	19.13	PROLYTE	H30V	449E	4439.000	-4.592	24.000	19.13	-1.833	14.730	12.44	6123
97	OK	2.74	PROLYTE	H30V	4558	2729.000	-0.650	24.000	2.71	-0.404	14.730	2.74	6123
98	OK	5.66	PROLYTE	H30V	4572	9229.000	1.192	24.000	4.97	0.834	14.730	5.66	6123
99	OK	13.36	PROLYTE	H30V	457D	7019.000	1.900	24.000	7.92	1.967	14.730	13.36	6123
100	OK	4.37	PROLYTE	H30V	44B3	4149.000	1.049	24.000	4.37	0.572	14.730	3.88	6123
101	OK	8.86	PROLYTE	H30V	458D	7019.000	1.163	24.000	4.85	1.305	14.730	8.86	6123
102	OK	13.50	PROLYTE	H30V	44AA	4439.000	-3.241	24.000	13.50	-1.582	14.730	10.74	6123
103	OK	10.80	PROLYTE	H30V	4583	6149.000	2.311	24.000	9.63	1.591	14.730	10.80	6123
104	OK	2.33	PROLYTE	H30V	4495	4439.000	-0.208	24.000	0.87	0.343	14.730	2.33	6123

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
105	OK	7.90	PROLYTE	H30V	4589	7019.000	1.895	24.000	7.90	1.086	14.730	7.37	6123
106	OK	5.78	PROLYTE	H30V	44A1	4439.000	1.298	24.000	5.41	0.852	14.730	5.78	6123
107	OK	8.40	PROLYTE	H30V	455A	4149.000	-1.167	24.000	4.86	-1.237	14.730	8.40	6123
108	OK	5.36	PROLYTE	H30V	4582	9229.000	1.287	24.000	5.36	0.688	14.730	4.67	6123
109	OK	4.38	PROLYTE	H30V	44B6	4439.000	-1.027	24.000	4.28	-0.645	14.730	4.38	6123
110	OK	13.05	PROLYTE	H30V	44AD	4439.000	3.133	24.000	13.05	0.929	14.730	6.31	6123
111	OK	11.37	PROLYTE	H30V	4599	7019.000	-1.503	24.000	6.26	-1.675	14.730	11.37	6123
112	OK	3.02	PROLYTE	H30V	44B9	4439.000	0.668	24.000	2.78	0.444	14.730	3.02	6123
113	OK	7.97	PROLYTE	H30V	4592	9229.000	-1.912	24.000	7.97	0.945	14.730	6.42	6123
114	OK	12.24	PROLYTE	H30V	4593	6149.000	-1.739	24.000	7.24	1.803	14.730	12.24	6123
115	OK	4.80	PROLYTE	H30V	455C	4439.000	-1.147	24.000	4.78	-0.707	14.730	4.80	6123
116	OK	16.42	PROLYTE	H30V	459D	7019.000	3.160	24.000	13.16	2.419	14.730	16.42	6123
117	OK	14.47	PROLYTE	H30V	45A2	9229.000	3.474	24.000	14.47	1.849	14.730	12.56	6123
118	OK	3.58	PROLYTE	H30V	455E	4439.000	0.860	24.000	3.58	0.459	14.730	3.11	6123
119	OK	2.36	PROLYTE	H30V	482A	4500.000	0.391	24.000	1.63	0.348	14.730	2.36	6123
120	OK	3.29	PROLYTE	H30V	4829	4500.000	0.516	24.000	2.15	0.485	14.730	3.29	6123
121	OK	2.23	PROLYTE	H30V	482C	4500.000	0.261	24.000	1.09	-0.328	14.730	2.23	6123
122	OK	5.49	PROLYTE	H30V	47BA	9000.000	1.318	24.000	5.49	-0.615	14.730	4.18	6123
123	OK	2.32	PROLYTE	H30V	47BF	5000.000	-0.363	24.000	1.51	-0.342	14.730	2.32	6123
124	OK	2.19	PROLYTE	H30V	47BE	5000.000	-0.273	24.000	1.14	-0.323	14.730	2.19	6123
125	OK	1.41	PROLYTE	H30V	47BD	5000.000	0.194	24.000	0.81	-0.208	14.730	1.41	6123
126	OK	4.93	PROLYTE	H30V	4824	7000.000	0.803	24.000	3.34	0.726	14.730	4.93	6123
127	OK	2.43	PROLYTE	H30V	47BC	5000.000	0.321	24.000	1.34	0.357	14.730	2.43	6123
128	OK	2.36	PROLYTE	H30V	47BB	5000.000	0.391	24.000	1.63	0.348	14.730	2.36	6123
129	OK	16.50	DIN EN 10220	RO48,3x2,0	6772	1500.000	0.097	0.590	16.50	0.079	14.580	0.54	6123
130	OK	16.85	DIN EN 10220	RO48,3x2,0	677A	1500.000	0.099	0.590	16.85	0.079	14.580	0.54	6123

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
131	OK	16.42	DIN EN 10220	RO48,3x2,0	761D	3000.000	0.097	0.590	16.42	0.080	14.580	0.55	6123
132	OK	12.43	DIN EN 10220	RO48,3x2,0	67AD	3000.000	0.073	0.590	12.43	0.079	14.580	0.54	6123
133	OK	1.19	DIN EN 10220	RO48,3x2,0	67AC	3000.000	0.007	0.590	1.19	-0.054	14.580	0.37	6123
134	OK	3.40	DIN EN 10220	RO48,3x2,0	67B0	5000.000	0.020	0.590	3.40	0.064	14.580	0.44	6123
135	OK	16.27	DIN EN 10220	RO48,3x2,0	6779	1500.000	0.096	0.590	16.27	0.079	14.580	0.54	6123
136	OK	16.40	DIN EN 10220	RO48,3x2,0	6778	1500.000	0.097	0.590	16.40	0.079	14.580	0.54	6123
137	OK	2.22	DIN EN 10220	RO48,3x2,0	761F	3000.000	0.013	0.590	2.22	-0.042	14.580	0.29	6123
138	OK	1.61	DIN EN 10220	RO48,3x2,0	761E	3000.000	0.010	0.590	1.61	0.016	14.580	0.11	6123
139	OK	3.65	DIN EN 10220	RO48,3x2,0	7620	5000.000	0.022	0.590	3.65	0.023	14.580	0.16	6123
140	OK	4.67	DIN EN 10220	RO48,3x2,0	67B2	5000.000	0.028	0.590	4.67	0.070	14.580	0.48	6123
141	OK	4.64	DIN EN 10220	RO48,3x2,0	67B1	5000.000	0.027	0.590	4.64	0.028	14.580	0.19	6123
142	OK	16.28	DIN EN 10220	RO48,3x2,0	6777	1500.000	0.096	0.590	16.28	0.079	14.580	0.54	6123
143	OK	15.93	DIN EN 10220	RO48,3x2,0	6776	1500.000	0.094	0.590	15.93	0.079	14.580	0.54	6123
144	OK	3.15	DIN EN 10220	RO48,3x2,0	7621	5000.000	-0.019	0.590	3.15	-0.045	14.580	0.31	6123
145	OK	3.53	DIN EN 10220	RO48,3x2,0	761B	5000.000	0.021	0.590	3.53	0.042	14.580	0.29	6123
146	OK	3.60	DIN EN 10220	RO48,3x2,0	761A	5000.000	0.021	0.590	3.60	-0.045	14.580	0.31	6123
147	OK	3.70	DIN EN 10220	RO48,3x2,0	67B3	5000.000	0.022	0.590	3.70	0.042	14.580	0.29	6123
148	OK	16.40	DIN EN 10220	RO48,3x2,0	6775	1500.000	0.097	0.590	16.40	0.079	14.580	0.54	6123
149	OK	16.19	DIN EN 10220	RO48,3x2,0	6774	1500.000	0.096	0.590	16.19	0.079	14.580	0.54	6123
150	OK	16.24	DIN EN 10220	RO48,3x2,0	6773	1500.000	0.096	0.590	16.24	0.079	14.580	0.54	6123
151	OK	3.66	DIN EN 10220	RO48,3x2,0	761C	5000.000	-0.022	0.590	3.66	-0.025	14.580	0.17	6123
152	OK	16.06	DIN EN 10220	RO48,3x2,0	6794	1500.000	0.095	0.590	16.06	0.079	14.580	0.54	6123
153	OK	16.26	DIN EN 10220	RO48,3x2,0	6793	1500.000	0.096	0.590	16.26	0.079	14.580	0.54	6123
154	OK	16.21	DIN EN 10220	RO48,3x2,0	6792	1500.000	0.096	0.590	16.21	0.079	14.580	0.54	6123
155	OK	16.42	DIN EN 10220	RO48,3x2,0	6791	1500.000	0.097	0.590	16.42	0.079	14.580	0.54	6123
156	OK	16.32	DIN EN 10220	RO48,3x2,0	760C	1500.000	0.096	0.590	16.32	0.079	14.580	0.54	6123

## Traversenbemessung

Anzeige der maximalen Belastung pro Traversenstrecke mit Sicherheitskonzept nach EUROCODE

#	Load Stress	Max Utilization [%]	Manufacturer	Name	Handle	Length [mm]	Bending moment [kNm]	Bending resistance [kNm]	Bending Utilization [%]	Shear force [kN]	Shear resistance [kN]	Shear Utilization [%]	Height [mm]
157	OK	16.05	DIN EN 10220	RO48,3x2,0	6797	1500.000	0.095	0.590	16.05	0.079	14.580	0.54	6123
158	OK	16.05	DIN EN 10220	RO48,3x2,0	6796	1500.000	0.095	0.590	16.05	0.079	14.580	0.54	6123
159	OK	15.85	DIN EN 10220	RO48,3x2,0	6795	1500.000	0.094	0.590	15.85	0.079	14.580	0.54	6123
160	OK	16.42	DIN EN 10220	RO48,3x2,0	6790	1500.000	0.097	0.590	16.42	0.079	14.580	0.54	6123
161	OK	16.11	DIN EN 10220	RO48,3x2,0	678F	1500.000	0.095	0.590	16.11	0.079	14.580	0.54	6123
162	OK	16.32	DIN EN 10220	RO48,3x2,0	678E	1500.000	0.096	0.590	16.32	0.079	14.580	0.54	6123
163	OK	16.32	DIN EN 10220	RO48,3x2,0	760E	1500.000	0.096	0.590	16.32	0.079	14.580	0.54	6123
164	OK	12.06	DIN EN 10220	RO48,3x2,0	6787	1500.000	0.071	0.590	12.06	0.079	14.580	0.54	6123
165	OK	12.25	DIN EN 10220	RO48,3x2,0	6786	1500.000	0.072	0.590	12.25	0.079	14.580	0.54	6123
166	OK	12.30	DIN EN 10220	RO48,3x2,0	6785	1500.000	0.073	0.590	12.30	0.080	14.580	0.55	6123
167	OK	12.15	DIN EN 10220	RO48,3x2,0	6784	1500.000	0.072	0.590	12.15	0.079	14.580	0.54	6123
168	OK	12.43	DIN EN 10220	RO48,3x2,0	6783	1500.000	0.073	0.590	12.43	0.079	14.580	0.54	6123

## Verwendete Einzellasten

Rig	Load Name	Load Category	Single Load [kN]	Quantity	Total Load [kN]
1	L400 varywhite	Media	0.070	39	2.730
1	DoubLED	Media	0.044	30	1.320
1	Backlite Fluter	Media	0.051	24	1.224
1	Banner	Rigging	0.055	42	2.310
1	Paar Drehschellen	Rigging	0.030	71	2.130
1	Logo	Rigging	0.180	7	1.260
1	D8+	Rigging	0.345	19	6.555
	<b>SUM</b>			<b>Σ 232</b>	<b>Σ 17.529</b>
2	L400 varywhite	Media	0.070	33	2.310
2	DoubLED	Media	0.044	22	0.968
2	Backlite Fluter	Media	0.051	10	0.510
2	Par	Media	0.057	6	0.342
2	Banner	Rigging	0.055	62	3.410
2	Paar Drehschellen	Rigging	0.030	30	0.900
2	Logo	Rigging	0.180	5	0.900
2	D8+	Rigging	0.345	17	5.865
	<b>SUM</b>			<b>Σ 185</b>	<b>Σ 15.205</b>
2	TOTAL Single Load			Σ 417	Σ 32.734

## Verwendete Streckenlasten

Rig	Line Load Name	Line Load Category	Length [m]	Self Weight [kN/m]	Total load [kN]
<b>Eigengewicht</b>					
1	DIN EN 10220 RO48,3x2,0	Rigging	99.00	0.008	0.792
1	PROLYTE H30V	Rigging	280.36	0.063	17.663
<b>Individuelle Streckenlast</b>					
1	PROLYTE H30V	Rigging	272.46	0.010	2.725
<b>SUM</b>			<b>Σ 651.82</b>		<b>Σ 21.180</b>
<b>Eigengewicht</b>					
2	DIN EN 10220 RO48,3x2,0	Rigging	36.00	0.008	0.288
2	PROLYTE H30V	Rigging	267.57	0.063	16.857
<b>Individuelle Streckenlast</b>					
2	PROLYTE H30V	Rigging	257.91	0.010	2.579
<b>SUM</b>			<b>Σ 561.48</b>		<b>Σ 19.724</b>
<b>2</b>	<b>TOTAL</b>		<b>Σ 1213.29</b>		<b>Σ 40.903</b>

## Verwendete Faktoren

Automatische Faktoren	
Streckenlast für Rigginglasten [kN/m]	0.00
Streckenlast-Faktor für Medienlasten	0.00

mit Sicherheitskonzept nach EUROCODE	
Medientechnik	1.50
Rigging	1.35

Faktoren für Punktlasten	
Statisch	1.00
Dynamisch	1.20

Globale Lastunsicherheitsfaktoren	
Licht	1.00
Audio	1.00
Video	1.00
Einzelgewichte	1.00
Hängepunkte	1.00
Motoren	1.00
Traversen	1.00

Globale Streckenlasten [kg/m]	
Licht	0.00
Audio	0.00
Video	0.00
Rigging	0.00

Sonstige Faktoren	
Maßstab der Zeichnung	mm
Erdbeschleunigung g [m/s <sup>2</sup> ]	10.00

## Verwendete Materialien

#	Name	Material Type	Elastic Modulus [N/mm <sup>2</sup> ]	Poisson Ratio [-]	Shear Modulus [N/mm <sup>2</sup> ]	Specific Weight [N/mm <sup>3</sup> ]	Tensile Strength [N/mm <sup>2</sup> ]	Tensile Strength Haz [N/mm <sup>2</sup> ]	Tensile Yield [N/mm <sup>2</sup> ]	Tensile Yield Haz [N/mm <sup>2</sup> ]
1	EN-AW 6082 T6	AluminumAlloy	70000	0,296	27000	2,7E-05	290	185	250	125
2	EN-AW 6060 T66	AluminumAlloy	70000	0,296	27000	2,7E-05	195	110	150	65

## Verwendete Traversen-Typen

#	Manufacturer	Name	Width [mm]	Height [mm]	Min Length [mm]	Self Weight [kg/m]	Truss Type	Main Chord Diameter [mm]	Main Chord Wall Thickness [mm]	Diagonals Diameter [mm]	Diagonals Wall Thickness [mm]	Cross Section Area [mm <sup>2</sup> ]	Material
1	PROLYTE	H30V	287	287	250	6.30	FourPoint	48,3	3	16	2	1707,9999	EN-AW 6082

## Verwendete Pipe-Typen

#	Type	Name	Width [mm]	Height [mm]	Min Length [mm]	Self Weight [kg/m]	Pipe Type	Wall Thickness [mm]	Cross Section Area [mm <sup>2</sup> ]	Material
1	DIN EN 10220	R048,3x2,0	48,3	48,3	0	0.80	Round	2	291	EN-AW 6060 T66

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
1	47A3	Prolyte Structures H3	6.30	6.01	37.83	1.00	37.83	6287	6406	None	None	Yes	40762.582,10
2	47B1	Prolyte Structures H3	6.30	24.00	151.20	1.00	151.20	6287	6406	None	None	Yes	57254.375,15
3	47B2	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6287	6406	None	None	Yes	50164.466,10
4	47B8	Prolyte Structures H3	6.30	13.00	81.90	1.00	81.90	6287	6406	None	None	Yes	44271.108,27
5	47BA	Prolyte Structures H3	6.30	9.00	56.70	1.00	56.70	6291	6410	None	None	Yes	16332.544,53
6	47BB	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6291	6410	None	None	Yes	11258.853,72
7	47BC	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6291	6410	None	None	Yes	9054.545,723
8	47BD	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6291	6410	None	None	Yes	6601.435,516
9	47BE	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6291	6410	None	None	Yes	4246.872,516
10	47BF	Prolyte Structures H3	6.30	5.00	31.50	1.00	31.50	6291	6410	None	None	Yes	3176.265,516
11	47C6	Prolyte Structures H3	6.30	6.00	37.80	1.00	37.80	6287	6406	None	None	Yes	32732.371,10
12	4824	Prolyte Structures H3	6.30	7.00	44.10	1.00	44.10	6293	6412	None	None	Yes	15893.038,67
13	4829	Prolyte Structures H3	6.30	4.50	28.35	1.00	28.35	6291	6410	None	None	Yes	3663.010,981
14	482A	Prolyte Structures H3	6.30	4.50	28.35	1.00	28.35	6291	6410	None	None	Yes	5316.271,981
15	482C	Prolyte Structures H3	6.30	4.50	28.35	1.00	28.35	6291	6410	None	None	Yes	8277.175,981
16	6772	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6293	6293	None	None	Yes	1271.731,168
17	6773	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1288.503,162
18	6774	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1288.503,296
19	6775	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1288.503,496
20	6776	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1288.503,697
21	6777	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1293.842,898
22	6778	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1286.226,109
23	6779	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1296.380,129
24	677A	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	1288.503,149
25	677B	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	34174.804,12
26	677C	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	38964.135,12
27	677D	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	37756.375,12
28	677E	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	36592.375,12

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
29	677F	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	35370.638,12
30	6783	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	30078.949,12
31	6784	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	28864.032,12
32	6785	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	27676.144,12
33	6786	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	26467.095,12
34	6787	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	25254.771,12
35	6788	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	46282.529,12
36	6789	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	48287.795,12
37	678A	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	50316.518,12
38	678B	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	52319.202,12
39	678C	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	54300.984,12
40	678D	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	56291.899,12
41	678E	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	19612.939,12
42	678F	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	18010.343,12
43	6790	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	16007.949,12
44	6791	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	14014.031,12
45	6792	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	12003.002,12
46	6793	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	10034.711,12
47	6794	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	8015.258,128
48	6795	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	6011.356,128
49	6796	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	4017.359,128
50	6797	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	2015.713,128
51	67A1	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57019.278,14
52	67A2	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57020.252,28
53	67A3	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57019.278,48
54	67A4	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57019.278,68
55	67A5	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57020.252,88
56	67A6	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57020.252,10

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
57	67A7	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57019.278,12
58	67A8	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	57019.278,14
59	67A9	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6289	6289	None	None	Yes	57010.068,16
60	67AC	Alupipe Alupipe t2.6	0.80	3.00	2.40	1.00	2.40	6291	6291	None	None	Yes	15260.735,14
61	67AD	Alupipe Alupipe t2.6	0.80	3.00	2.40	1.00	2.40	6291	6291	None	None	Yes	17766.706,14
62	67B0	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	10590.708,97
63	67B1	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	12265.758,10
64	67B2	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	13002.070,10
65	67B3	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	19998.904,10
66	760C	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6293	6293	None	None	Yes	21215.535,12
67	760E	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6291	6291	None	None	Yes	22818.131,12
68	7610	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	40171.895,12
69	7612	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	41379.655,12
70	7614	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	42587.415,12
71	7616	Alupipe Alupipe t2.6	0.80	1.50	1.20	1.00	1.20	6287	6287	None	None	Yes	43795.174,12
72	761A	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	18747.357,10
73	761B	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	17089.058,10
74	761C	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	25740.373,10
75	761D	Alupipe Alupipe t2.6	0.80	3.00	2.40	1.00	2.40	6291	6291	None	None	Yes	19307.797,14
76	761E	Alupipe Alupipe t2.6	0.80	3.00	2.40	1.00	2.40	6291	6291	None	None	Yes	22342.803,14
77	761F	Alupipe Alupipe t2.6	0.80	3.00	2.40	1.00	2.40	6291	6291	None	None	Yes	27076.155,14
78	7620	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	20449.909,96
79	7621	Alupipe Alupipe t2.6	0.80	5.00	4.00	1.00	4.00	6291	6291	None	None	Yes	26431.326,96
80	42F0	Prolyte Structures H3	6.30	6.15	38.74	1.00	38.74	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,169
81	4429	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,16
82	442E	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,16
83	4489	Prolyte Structures H3	6.30	9.23	58.14	1.00	58.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,16
84	4563	Prolyte Structures H3	6.30	6.15	38.74	1.00	38.74	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,141

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
85	448C	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6004	6123	BoxCorner	BoxCorner	Yes	7293.500,141
86	4573	Prolyte Structures H3	6.30	6.15	38.74	1.00	38.74	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,100
87	448F	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6004	6123	BoxCorner	BoxCorner	Yes	7293.500,100
88	4583	Prolyte Structures H3	6.30	6.15	38.74	1.00	38.74	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,558
89	4492	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	7293.500,558
90	4495	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	7293.500,114
91	4593	Prolyte Structures H3	6.30	6.15	38.74	1.00	38.74	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,114
92	4569	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,14
93	44A4	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,14
94	4579	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,10
95	44A7	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,10
96	4589	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,55
97	44AA	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,55
98	44AD	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,11
99	4599	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	14312.500,11
100	456D	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,14
101	44B0	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,14
102	457D	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,10
103	44B3	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,10
104	458D	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,55
105	44B6	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,55
106	44B9	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,11
107	459D	Prolyte Structures H3	6.30	7.02	44.22	1.00	44.22	6004	6123	BoxCorner	BoxCorner	Yes	21331.500,11
108	4498	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,141
109	449B	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,100
110	449E	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,558
111	44A1	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	1144.500,114
112	4558	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,14

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
113	4572	Prolyte Structures H3	6.30	9.23	58.14	1.00	58.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,14
114	455A	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,10
115	4582	Prolyte Structures H3	6.30	9.23	58.14	1.00	58.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,10
116	455C	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,55
117	4592	Prolyte Structures H3	6.30	9.23	58.14	1.00	58.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,55
118	455E	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,11
119	45A2	Prolyte Structures H3	6.30	9.23	58.14	1.00	58.14	6004	6123	BoxCorner	BoxCorner	Yes	30560.500,11
120	45A6	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	33397.372,14
121	45A8	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	33397.372,10
122	45AA	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	33397.372,55
123	45AC	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	33397.372,11
124	45B6	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,16
125	45C5	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,14
126	45B9	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,14
127	45C7	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,10
128	45BC	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,10
129	45C9	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,55
130	45BF	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,55
131	45C2	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,11
132	45CB	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	37416.372,11
133	45D6	Prolyte Structures H3	6.30	3.02	19.02	1.00	19.02	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,16
134	45D7	Prolyte Structures H3	6.30	3.02	19.02	1.00	19.02	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,14
135	45DE	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,14
136	45D8	Prolyte Structures H3	6.30	3.02	19.02	1.00	19.02	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,10
137	45E1	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,10
138	45D9	Prolyte Structures H3	6.30	3.02	19.02	1.00	19.02	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,55
139	45E4	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,55
140	45E7	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,11

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
141	45DA	Prolyte Structures H3	6.30	3.02	19.02	1.00	19.02	6000	6119	BoxCorner	BoxCorner	Yes	40435.372,11
142	45EE	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,16
143	45FD	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,14
144	45F1	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,14
145	45FF	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,10
146	45F4	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,10
147	4601	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,55
148	45F7	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,55
149	45FA	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,11
150	4603	Prolyte Structures H3	6.30	4.02	25.32	1.00	25.32	6000	6119	BoxCorner	BoxCorner	Yes	44454.372,11
151	4618	Prolyte Structures H3	6.30	7.31	46.05	1.00	46.05	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,16
152	4619	Prolyte Structures H3	6.30	7.31	46.05	1.00	46.05	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,14
153	4621	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,14
154	461A	Prolyte Structures H3	6.30	7.31	46.05	1.00	46.05	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,10
155	4624	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,10
156	461B	Prolyte Structures H3	6.30	7.31	46.05	1.00	46.05	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,55
157	4627	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,55
158	462A	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,11
159	461C	Prolyte Structures H3	6.30	7.31	46.05	1.00	46.05	6000	6119	BoxCorner	BoxCorner	Yes	51763.372,11
160	4635	Prolyte Structures H3	6.30	2.73	17.19	1.00	17.19	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,16
161	462D	Prolyte Structures H3	6.30	5.44	34.27	1.00	34.27	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,14
162	4638	Prolyte Structures H3	6.30	4.15	26.14	1.00	26.14	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,10
163	462F	Prolyte Structures H3	6.30	5.44	34.27	1.00	34.27	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,10
164	463A	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,55
165	4631	Prolyte Structures H3	6.30	5.44	34.27	1.00	34.27	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,55
166	463C	Prolyte Structures H3	6.30	4.44	27.97	1.00	27.97	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,11
167	4633	Prolyte Structures H3	6.30	5.44	34.27	1.00	34.27	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,11
168	461F	Prolyte Structures H3	6.30	5.44	34.27	1.00	34.27	6000	6119	BoxCorner	BoxCorner	Yes	57202.372,16

## Verwendete Vergleichsstäbe

Truss	Handle	Name	Dead Weight per Meter [kg/m]	Length [m]	Dead Weight [kg]	Uncertainty Factor	Factored Weight [kg]	Height Dwg [mm]	Height Model [mm]	Corner @Start	Corner @End	Has Line Load	Start X,Y
168		TOTAL		Σ 682.93	Σ 3559.94		Σ 3559.94						