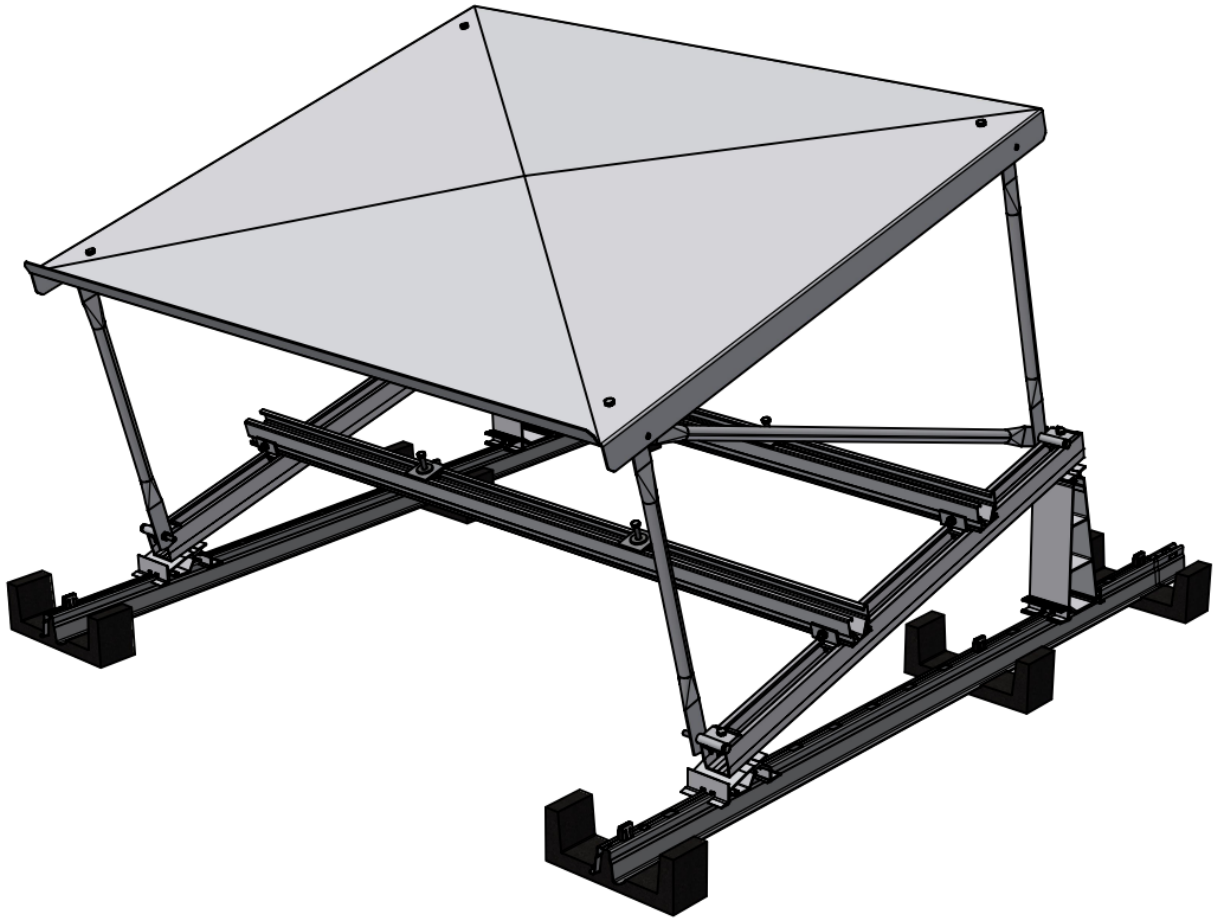
VAN DER VALK
SOLAR SYSTEMS

Quick Guide



PV Inverter Shelter Slim

Version 02 | November 2026

PV Inverter Shelter Slim

Ballast table

How do you calculate the required ballast?

1. Select the relevant inverter weight category: 30 Kg, 60 Kg, 90 Kg.
2. Determine the following environmental factors based on the project location:
   a. Terrain category (O, I, II, III, IV)
   b. Building height (0 m - 20 m)
   c. Wind speed (20 m/s up to 30 m/s)
3. Consult the correct table, column and row to gather the specific ballast information.
   a. ATTENTION: add or subtract the difference in weight of the inverter compared to the values used in the inverter weight category.
4. Placing an amount of ballast may require the use of ballast carriers (art. nr. 742561).

Refer to the legend below the table or contact Van der Valk Solar Systems, including for specific project calculations or questions about ballast.



Inverter weight: 30 Kg

Terrain category		O					I					II					III					IV				
Height		0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20
	21	63	119	140	153	163	46	104	126	141	152	39	77	101	116	128	30	37	61	77	89	24	24	28	43	55
	22	69	127	149	163	173	51	112	135	150	161	43	83	108	124	136	34	41	66	83	95	27	27	31	47	60
	23	80	143	167	183	194	60	126	152	168	181	52	96	122	140	153	42	49	77	95	108	34	34	39	57	70
	24	91	160	186	x	x	70	142	170	188	x	61	109	138	157	171	50	58	88	108	123	42	42	47	66	81
	25	103	178	x	x	x	80	158	188	x	x	70	122	154	174	190	58	67	100	121	137	50	50	55	76	92
	26	115	197	x	x	x	91	175	x	x	x	80	136	170	193	x	67	77	112	135	152	58	58	63	86	103
	27	128	x	x	x	x	102	193	x	x	x	90	151	188	x	x	76	87	124	149	168	66	66	72	97	115
	28	142	x	x	x	x	113	x	x	x	x	101	166	x	x	x	86	97	138	164	185	75	75	81	108	128
	29	156	x	x	x	x	125	x	x	x	x	112	181	x	x	x	96	108	151	180	x	84	84	91	119	141
	30	170	x	x	x	x	137	x	x	x	x	123	198	x	x	x	106	119	165	196	x	93	93	101	131	154

Inverter weight: 60 Kg

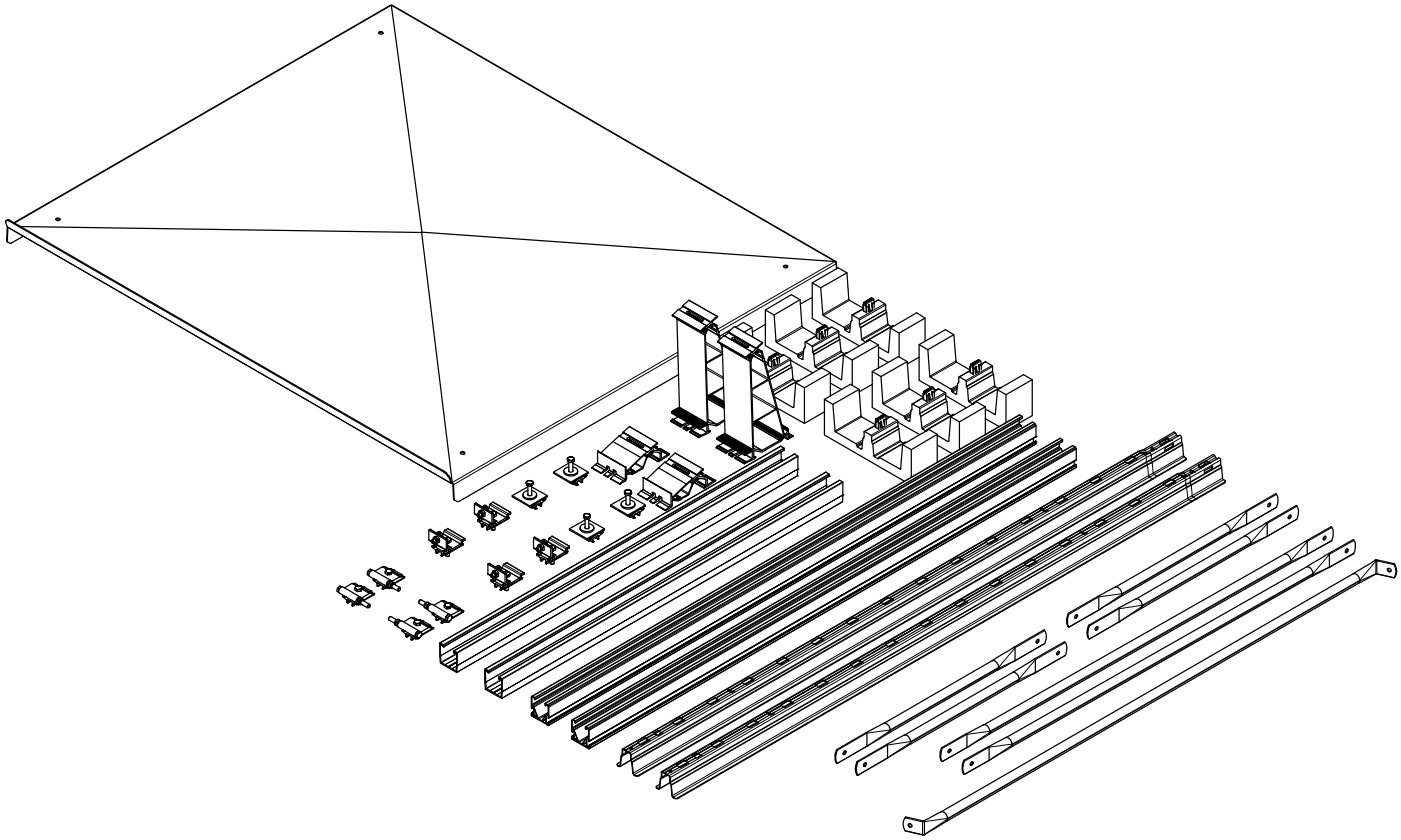
Terrain category		O					I					II					III					IV				
Height		0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20
	21	33	89	110	123	133	16	74	96	111	122	9	47	71	86	98	0	7	31	47	59	0	0	0	13	25
	22	39	97	119	133	143	21	82	105	120	131	13	53	78	94	106	4	11	36	53	65	0	0	1	17	30
	23	50	113	137	153	164	30	96	122	138	151	22	66	92	110	123	12	19	47	65	78	4	4	9	27	40
	24	61	130	156	173	186	40	112	140	158	171	31	79	108	127	141	20	28	58	78	93	12	12	17	36	51
	25	73	148	176	195	x	50	128	158	178	192	40	92	124	144	160	28	37	70	91	107	20	20	25	46	62
	26	85	167	197	x	x	61	145	178	199	x	50	106	140	163	179	37	47	82	105	122	28	28	33	56	73
	27	98	186	x	x	x	72	163	198	x	x	60	121	158	182	x	46	57	94	119	138	36	36	42	67	85
	28	112	x	x	x	x	83	181	x	x	x	71	136	175	x	x	56	67	108	134	155	45	45	51	78	98
	29	126	x	x	x	x	95	x	x	x	x	82	151	194	x	x	66	78	121	150	172	54	54	61	89	111
	30	140	x	x	x	x	107	x	x	x	x	93	168	x	x	x	76	89	135	166	189	63	63	71	101	124

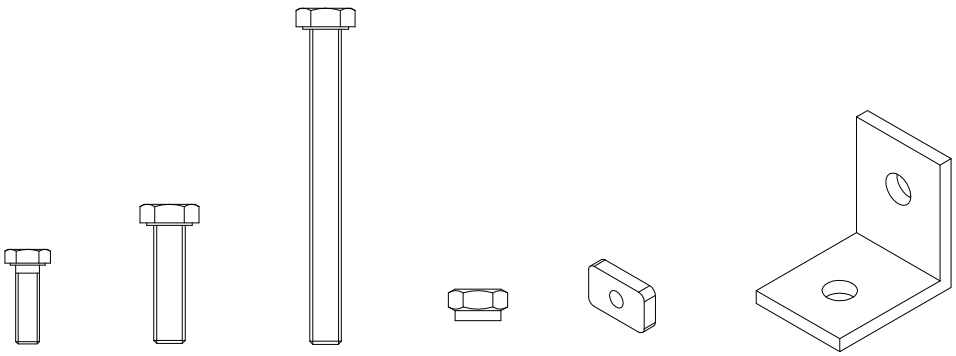
Inverter weight: 90 Kg

Terrain category		O					I					II					III					IV				
Height		0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20
	21	3	59	80	93	103	0	44	66	81	92	0	17	41	56	68	0	0	1	17	29	0	0	0	0	0
	22	9	67	89	103	113	0	52	75	90	101	0	23	48	64	76	0	0	6	23	35	0	0	0	0	0
	23	20	83	107	123	134	0	66	92	108	121	0	36	62	80	93	0	0	17	35	48	0	0	0	0	10
	24	31	100	126	143	156	10	82	110	128	141	1	49	78	97	111	0	0	28	48	63	0	0	0	6	21
	25	43	118	146	165	178	20	98	128	148	162	10	62	94	114	130	0	7	40	61	77	0	0	0	16	32
	26	55	137	167	187	x	31	115	148	169	185	20	76	110	133	149	7	17	52	75	92	0	0	3	26	43
	27	68	156	189	x	x	42	133	168	191	x	30	91	128	152	170	16	27	64	89	108	6	6	12	37	55
	28	82	176	x	x	x	53	151	189	x	x	41	106	145	171	191	26	37	78	104	125	15	15	21	48	68
	29	96	197	x	x	x	65	170	x	x	x	52	121	164	192	x	36	48	91	120	142	24	24	31	59	81
	30	110	x	x	x	x	77	190	x	x	x	63	138	183	x	x	46	59	105	136	159	33	33	41	71	94

Nr. of ballast carrier sets (Max. 2)

	=	0	(No ballast)
	=	1	(1-108)
	=	2	(109-200)
	=	Fixation required	

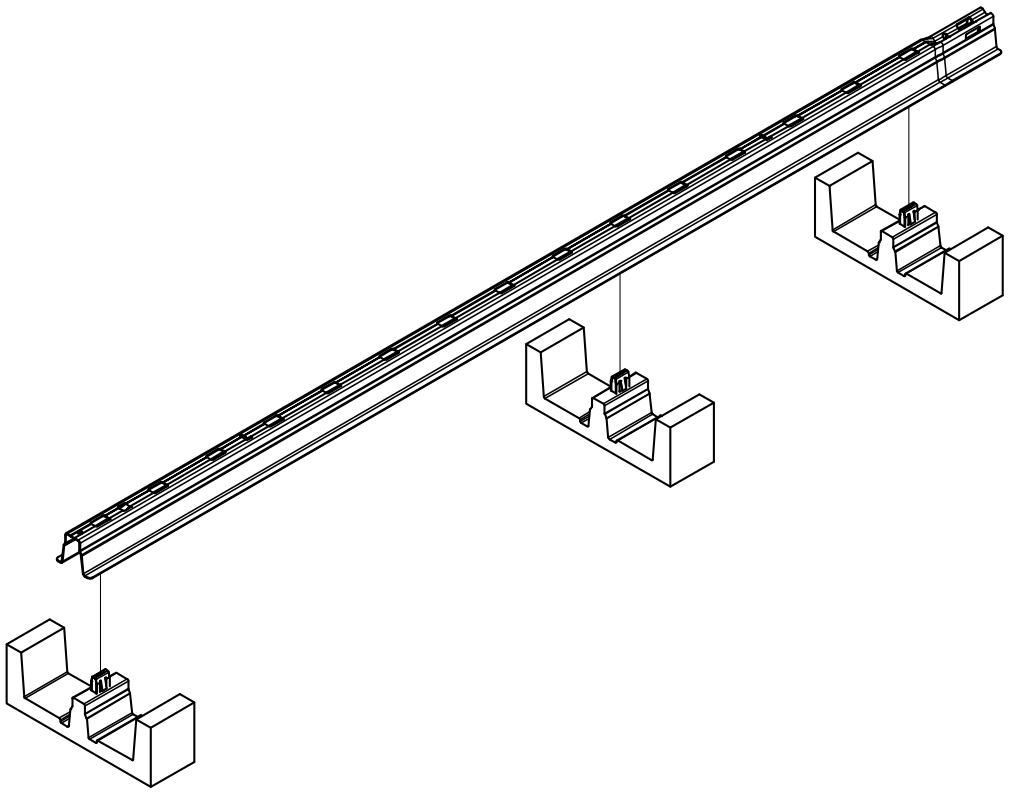




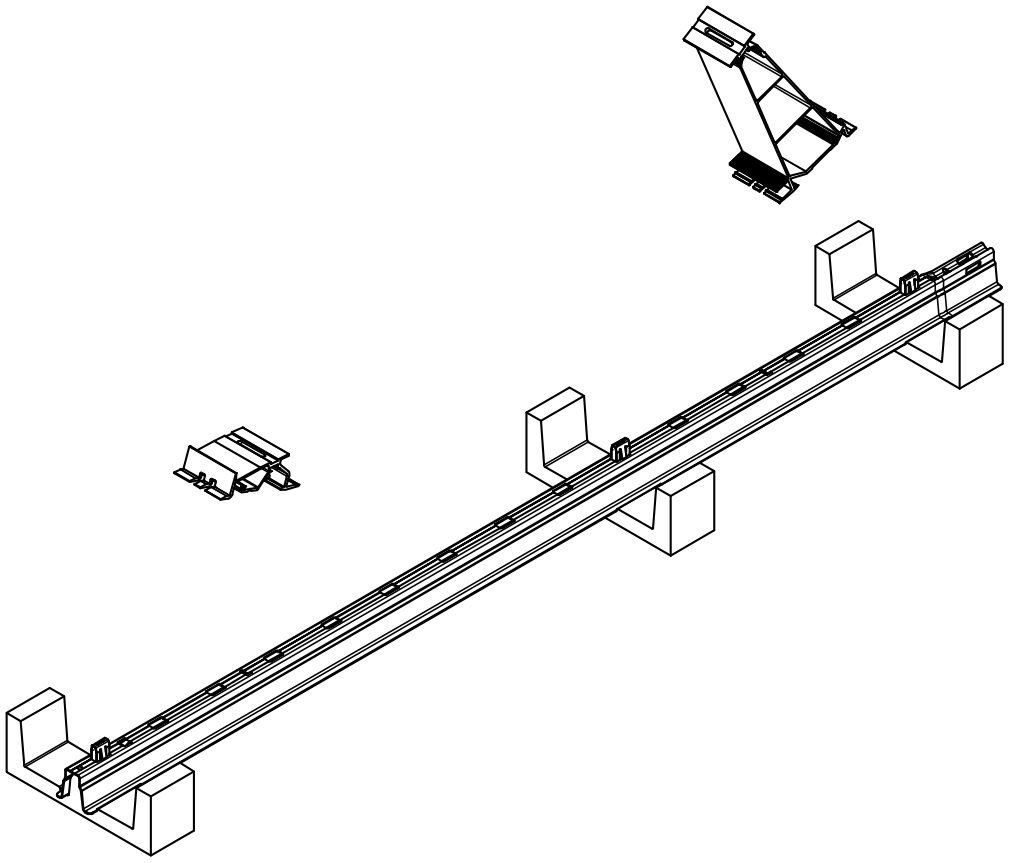
4x 8x 4x 8x 4x 4x

Required tools: socket wrench 13 and 10 mm

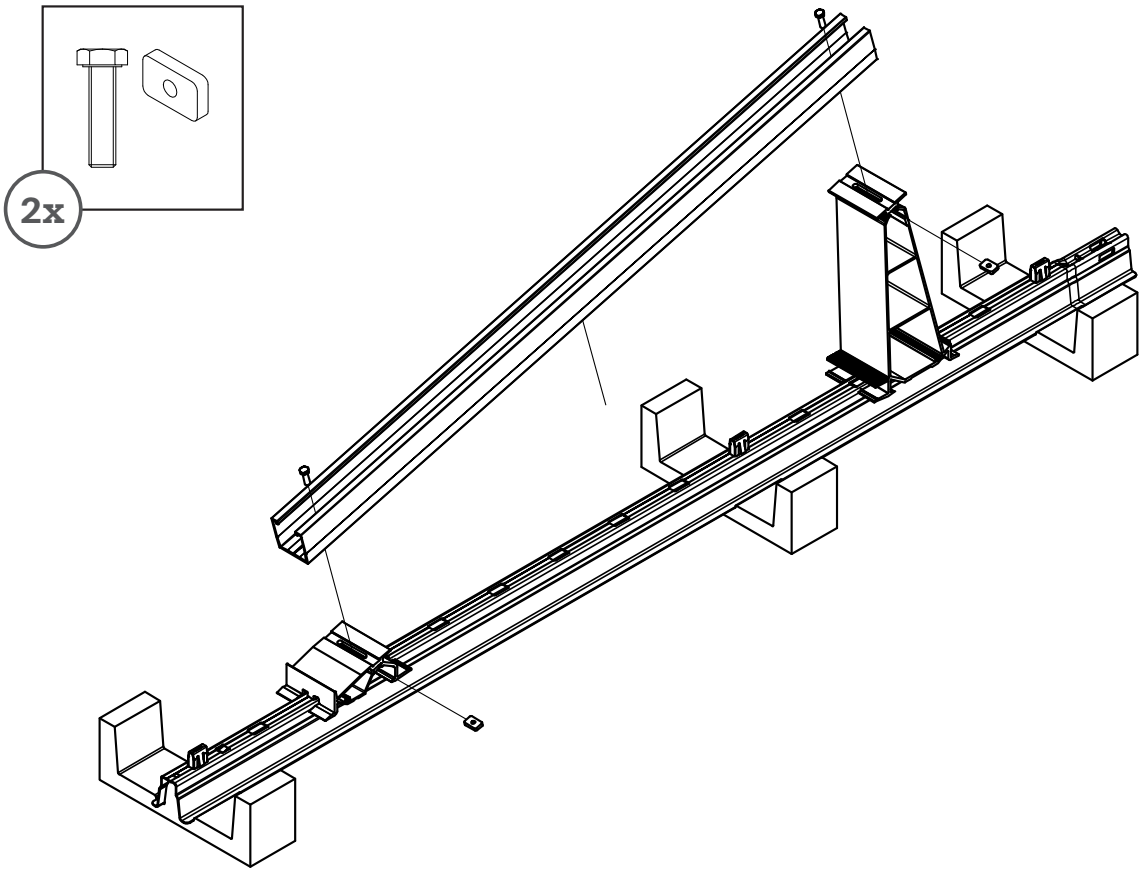
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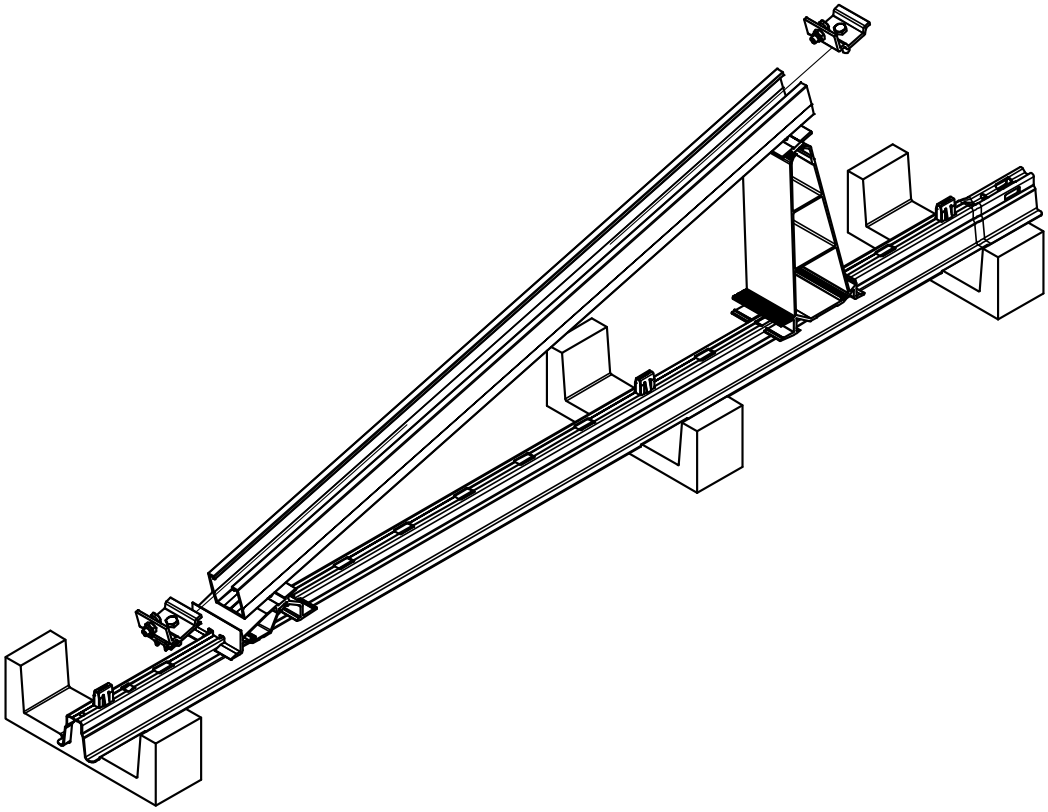
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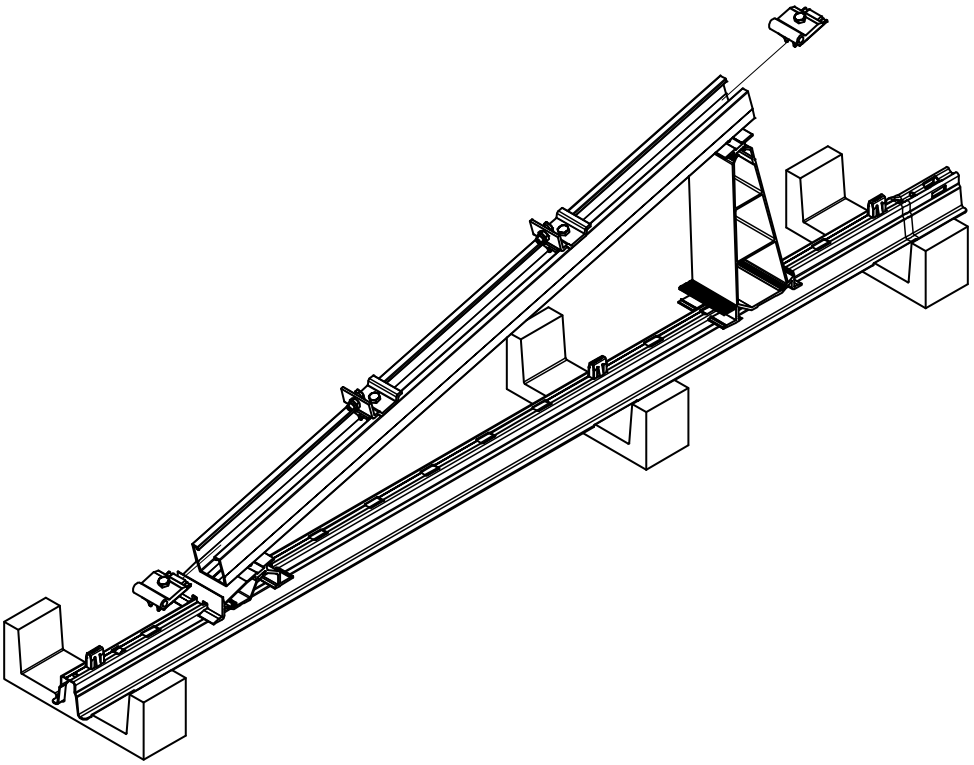
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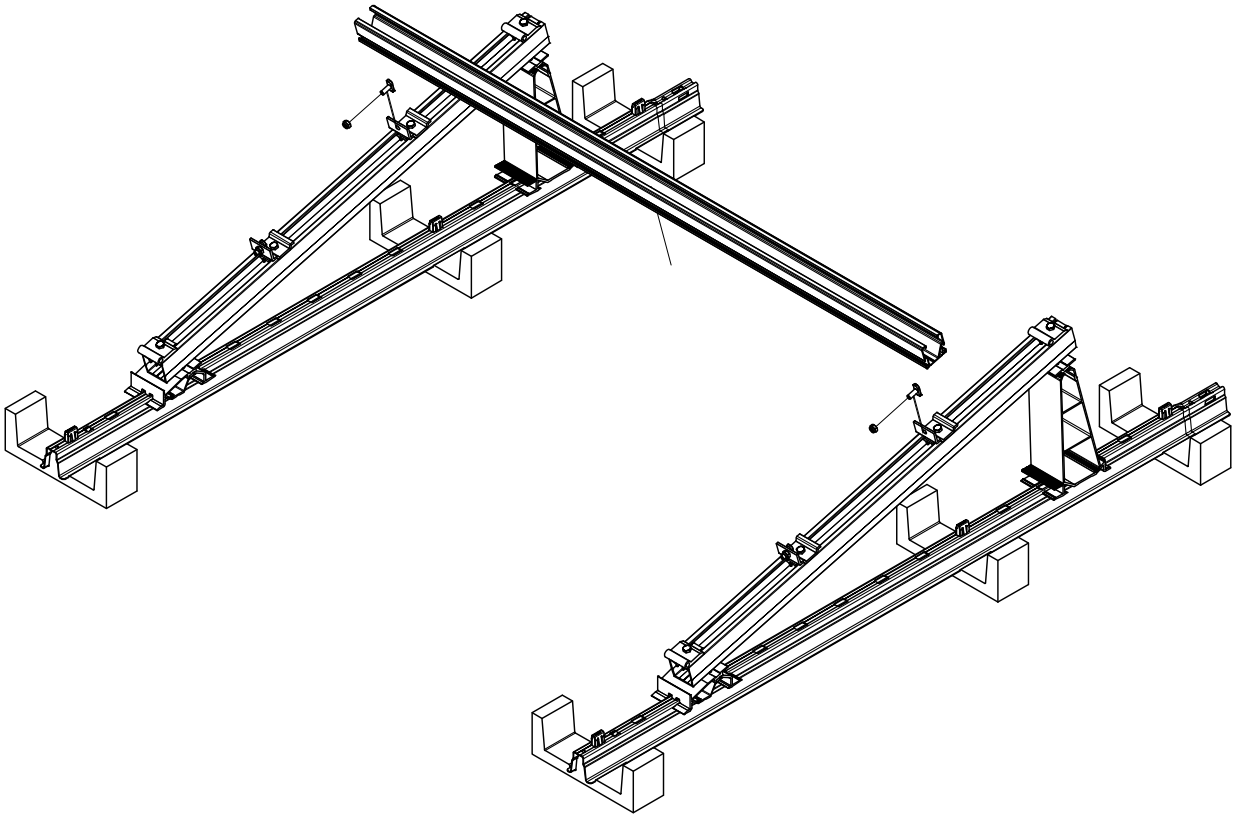
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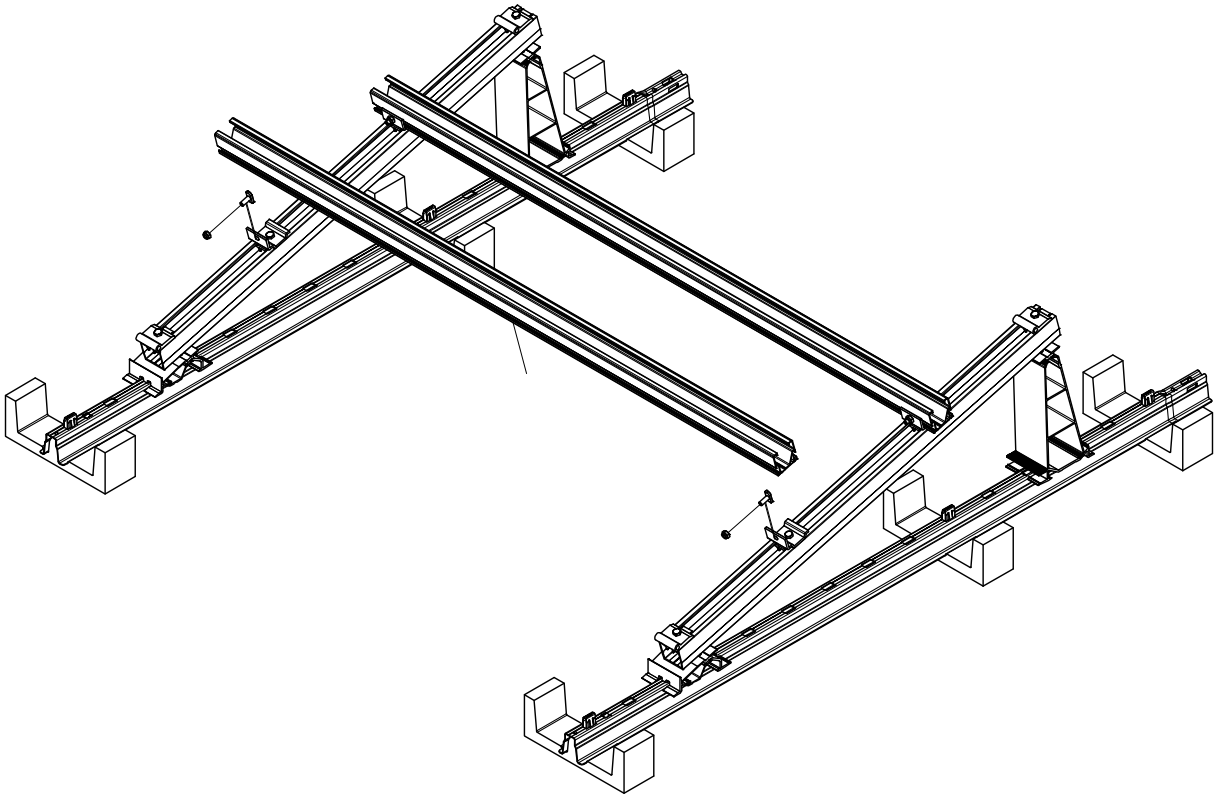
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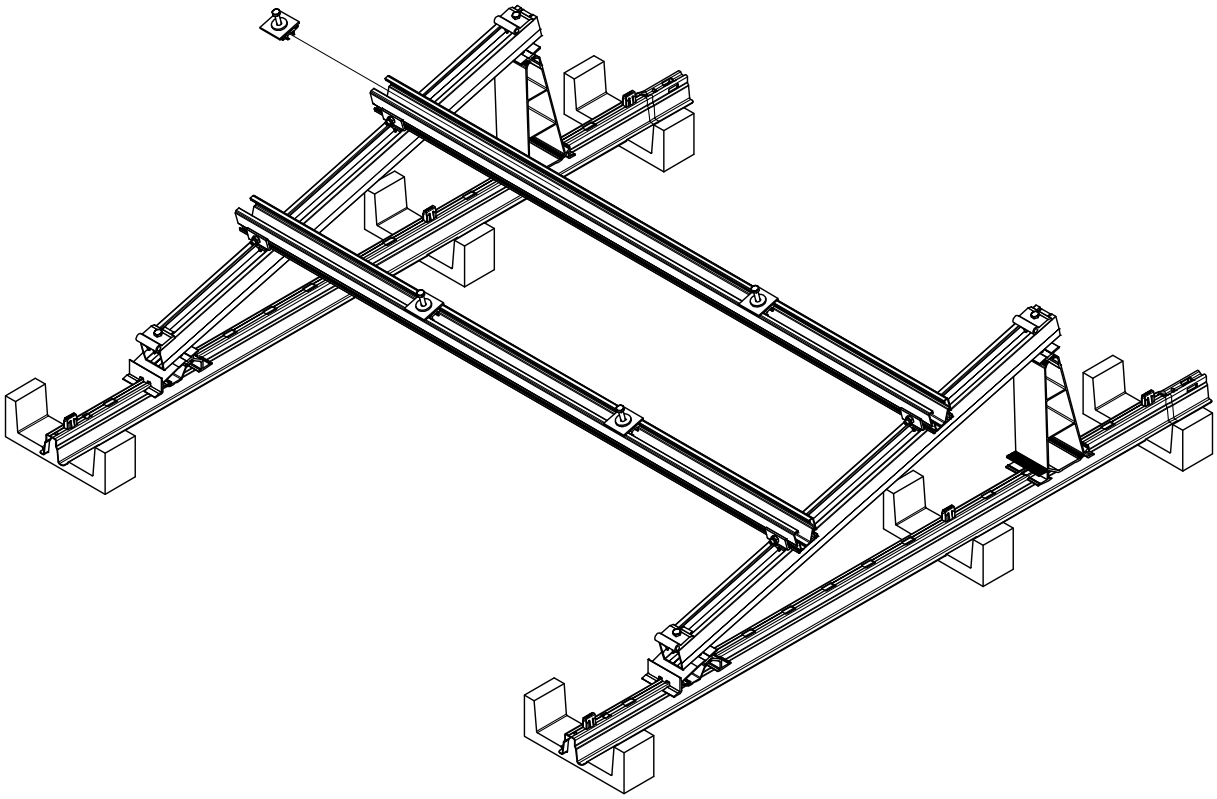
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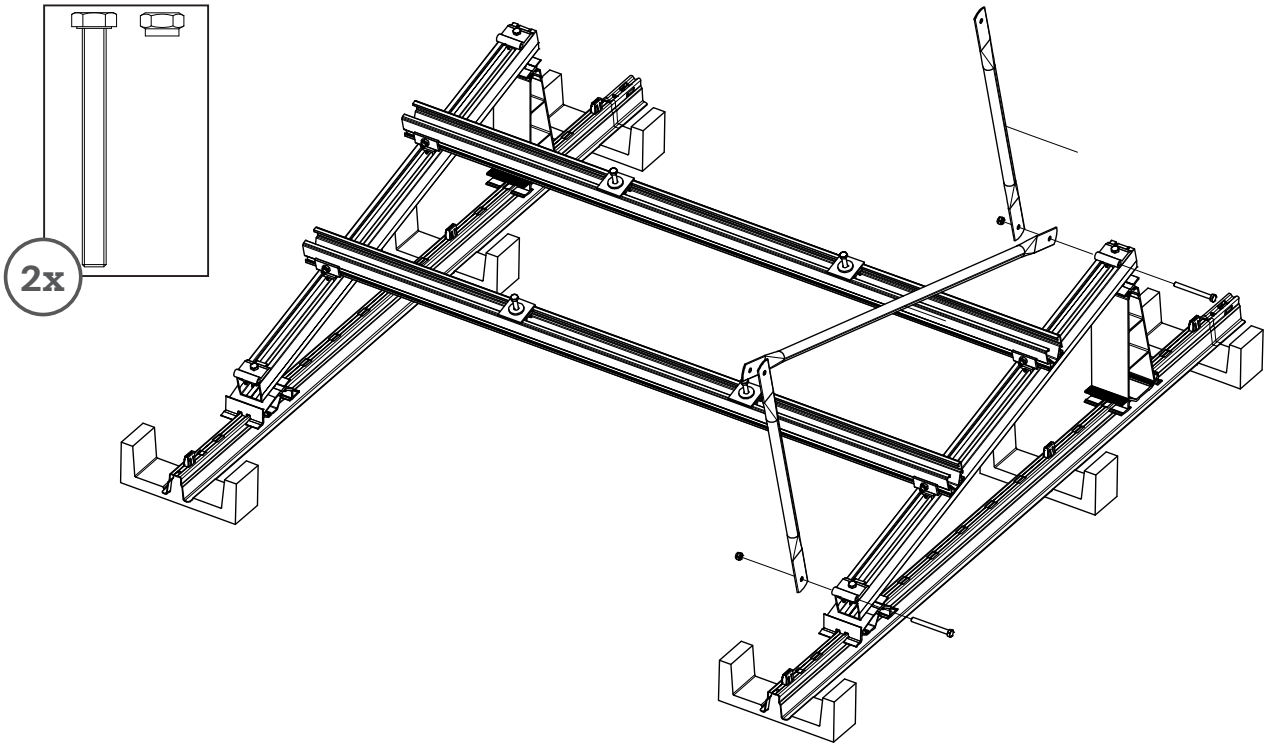
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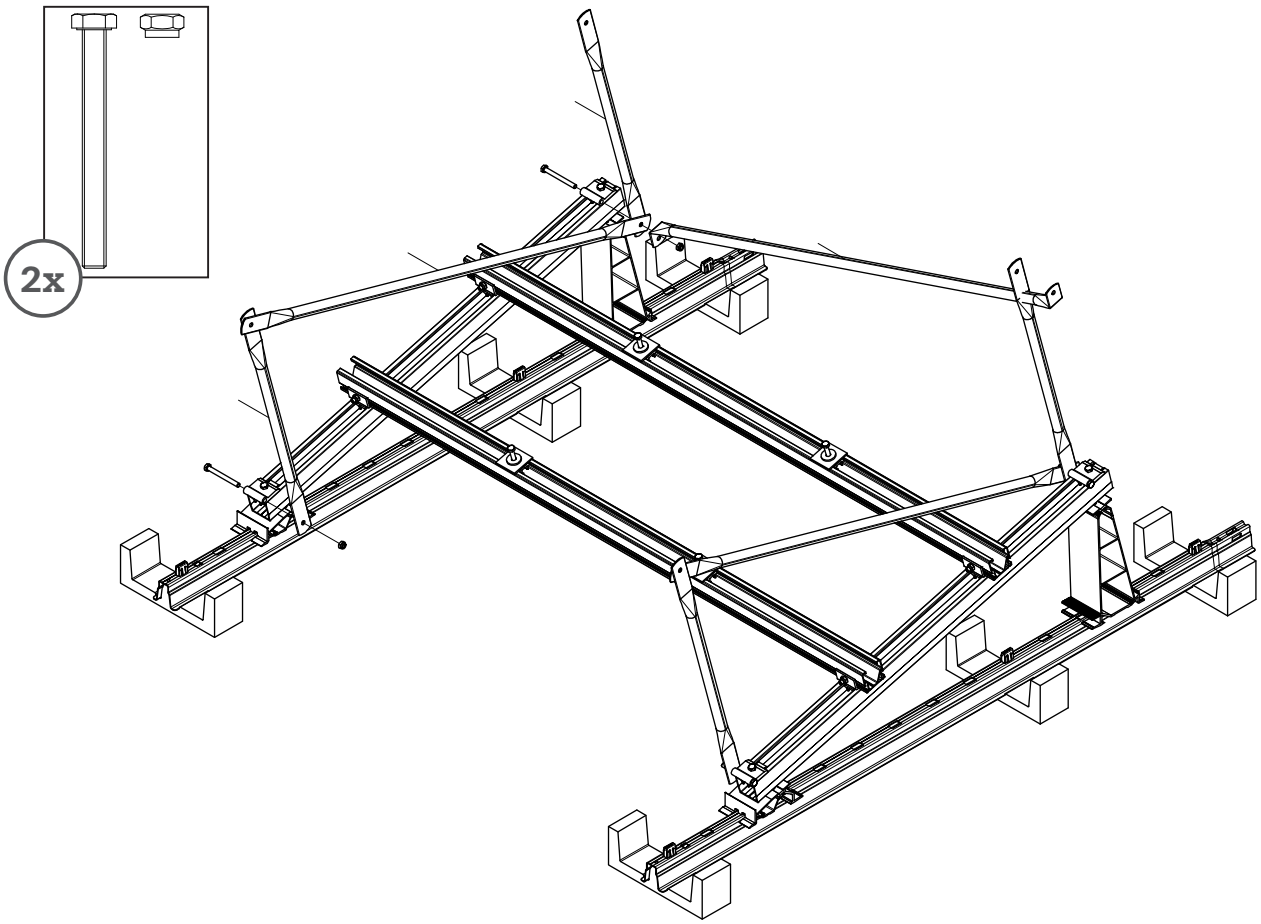
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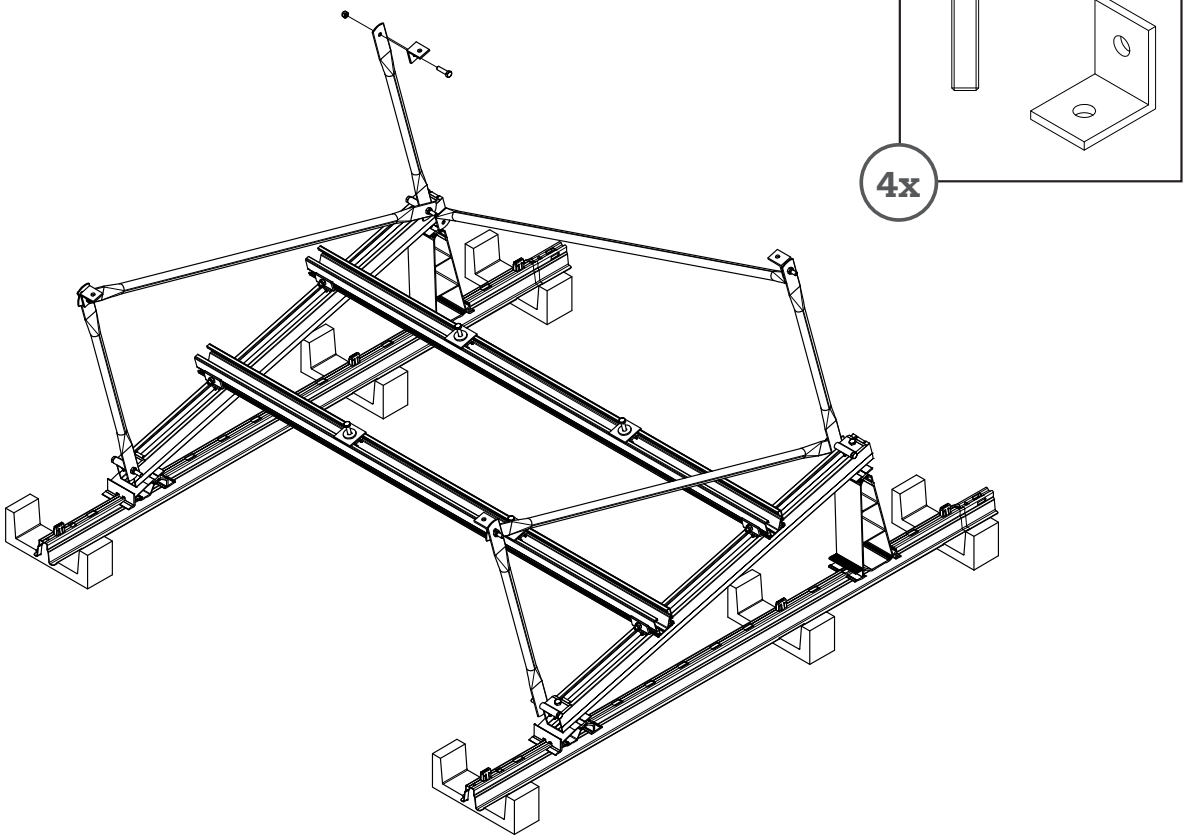
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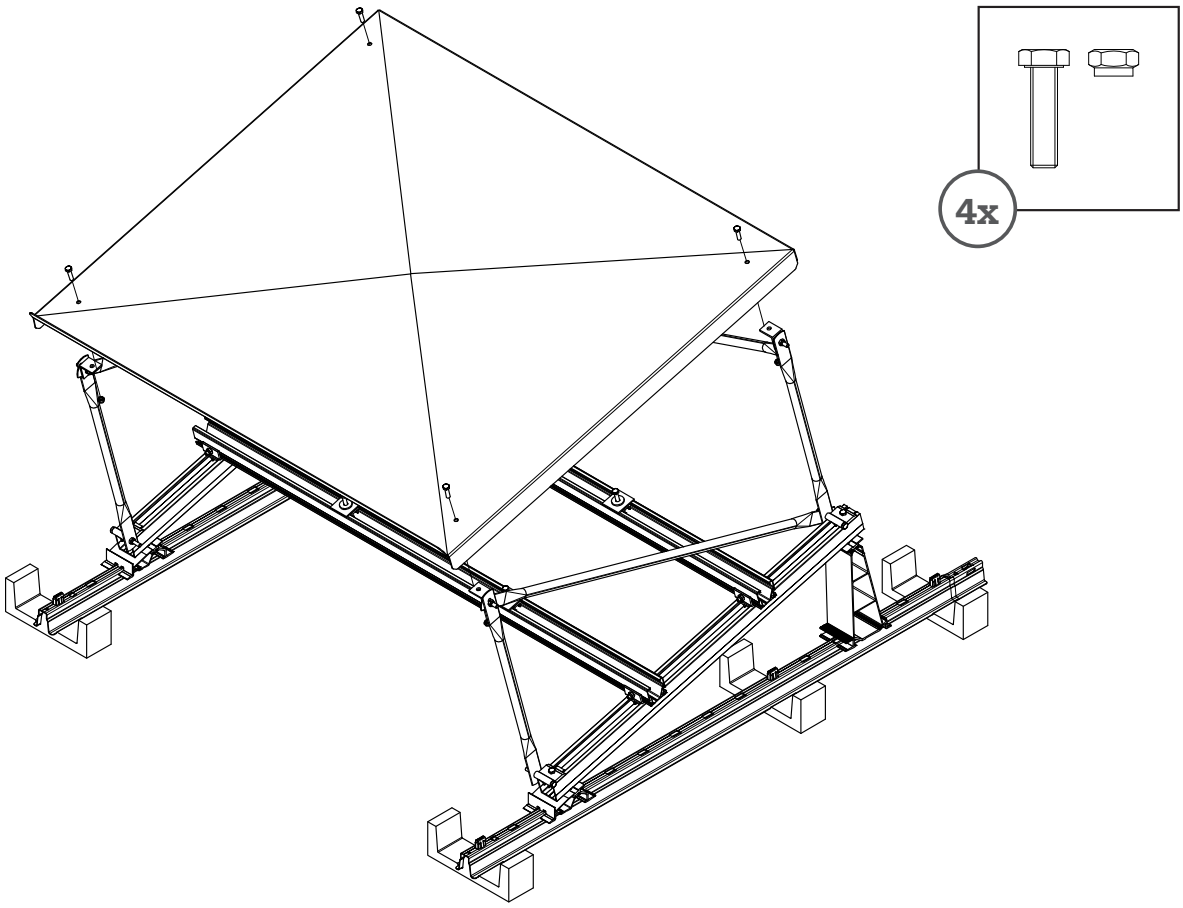
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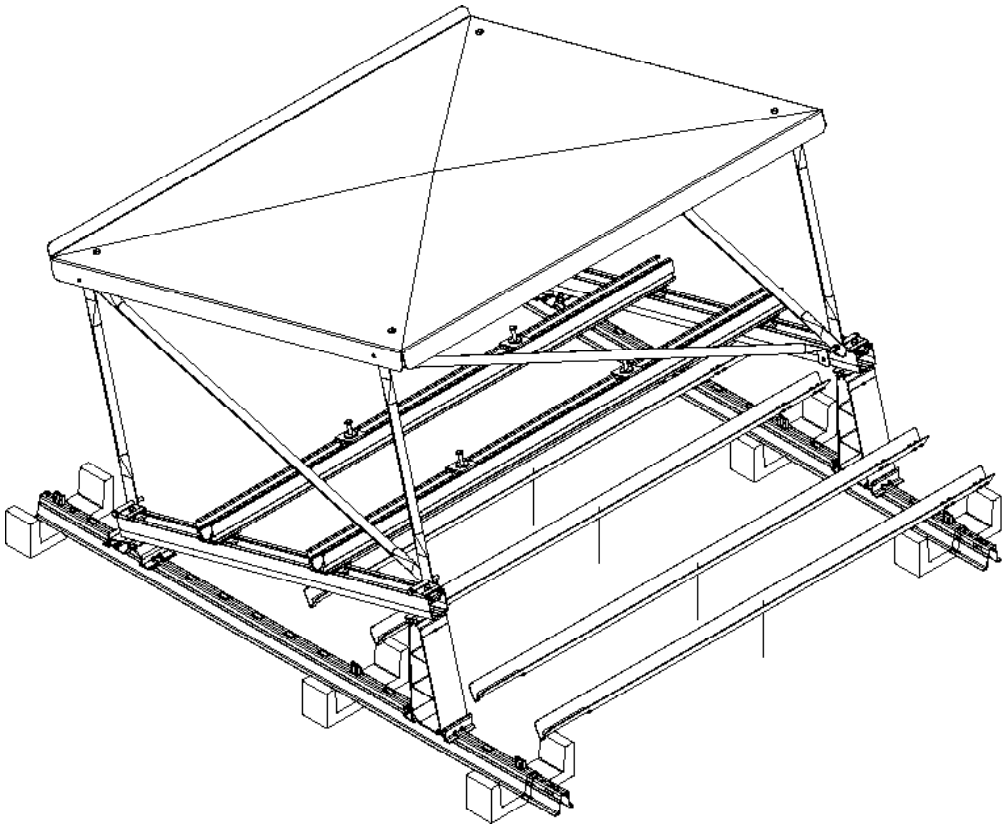
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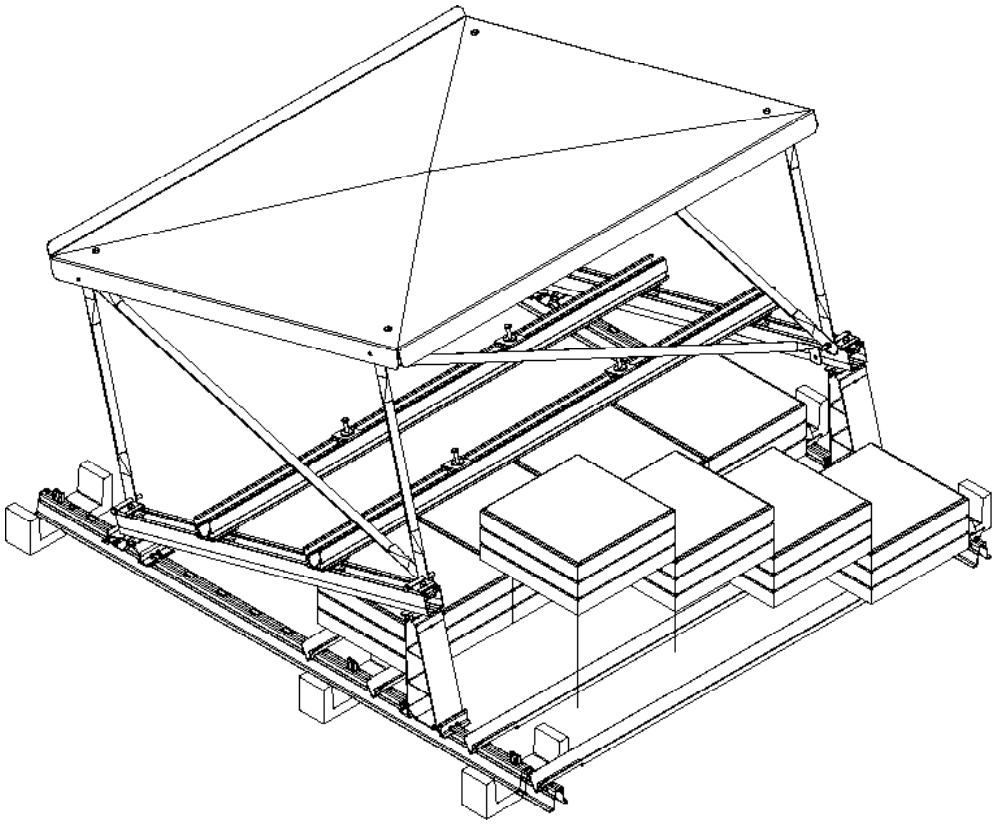
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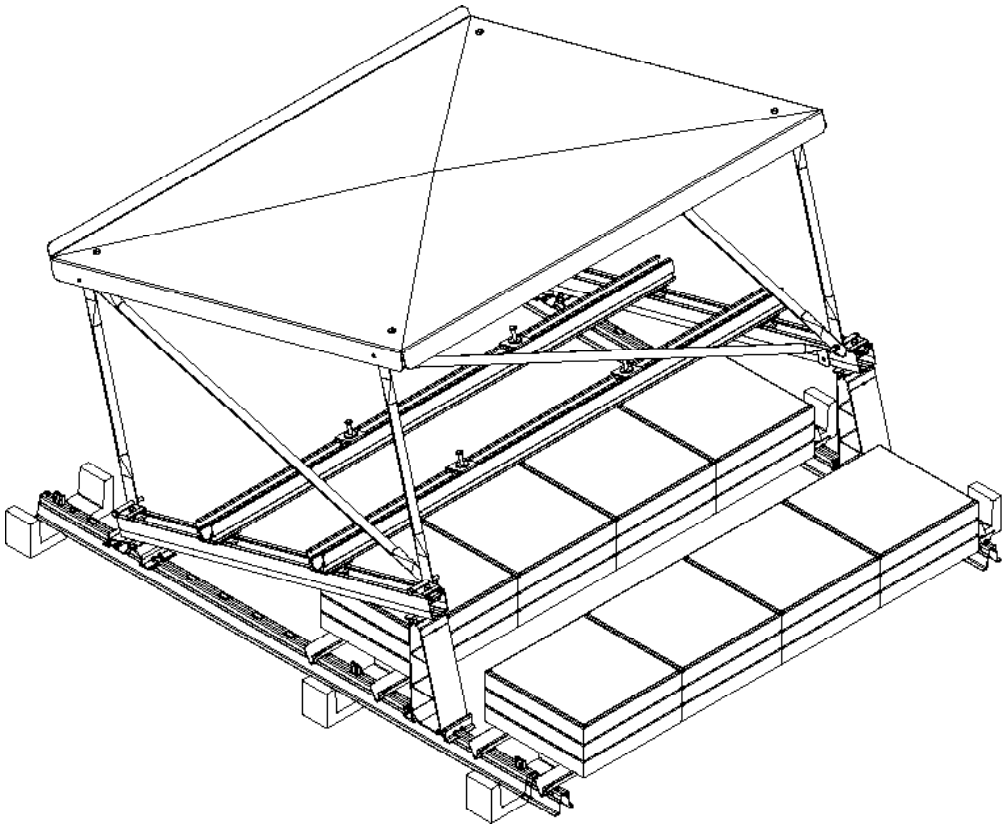
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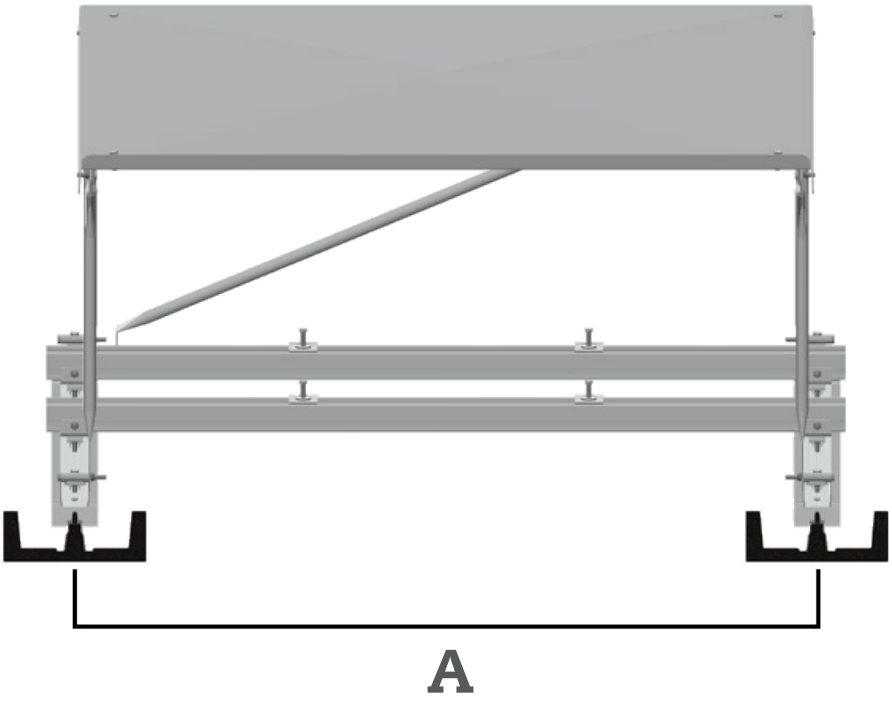
14



15



16 **In case of mechanical anchoring**



A = 1300 mm

Et voilà!

