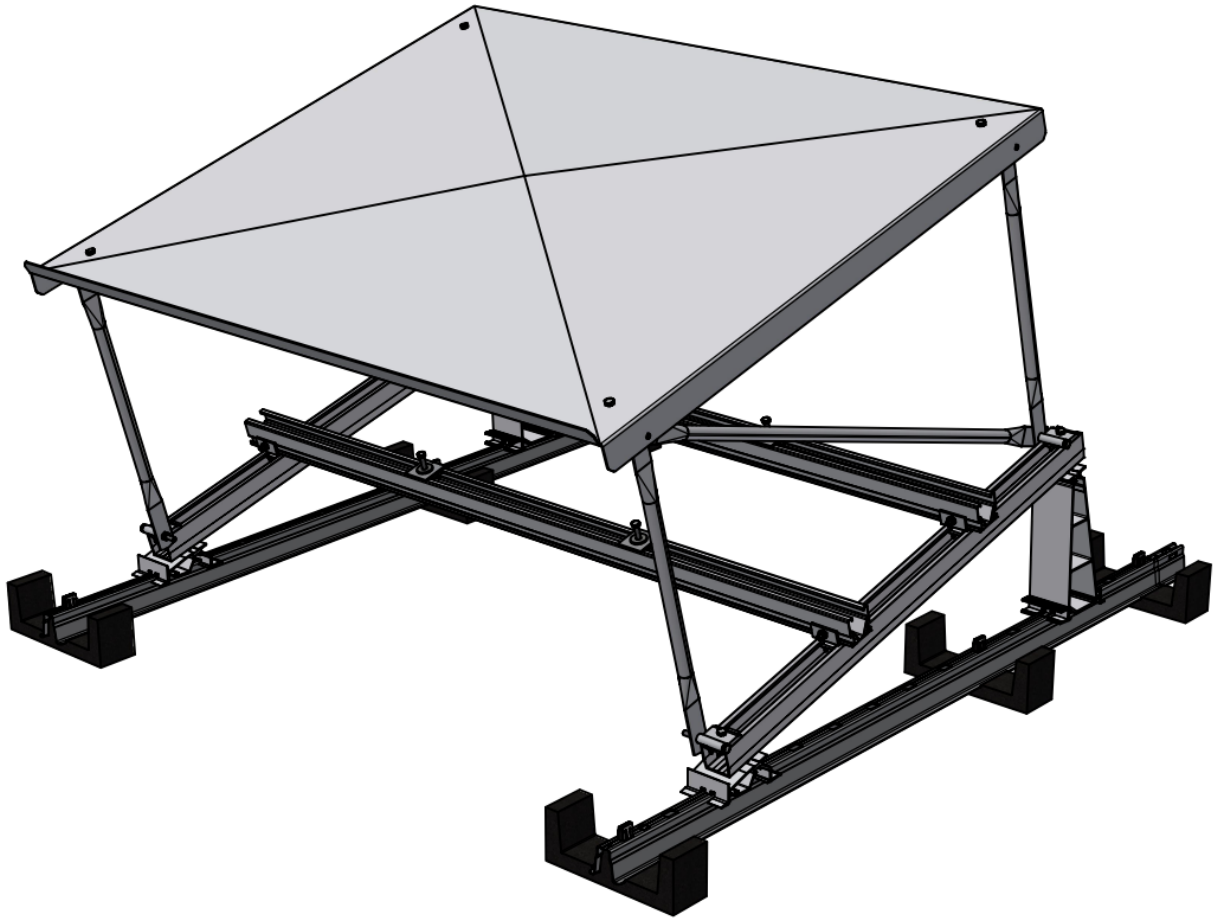
VAN DER VALK
SOLAR SYSTEMS

Quick Guide



PV Inverter Shelter Slim

Version 03 | October 2025

VAN DER VALK SOLAR SYSTEMS

PV Inverter Shelter Ballast sheets

PV Inverter Shelter Slim
How to determine 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). Consult the legend on the right or contact Van der Valk Solar Systems.

In case of a specific project calculations or ballast inquiries, contact Van der Valk Solar Systems of project specific calculations and solutions.

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
vb,0 (m/s)	20	79	133	158	174	186	61	117	144	160	173	53	87	116	133	147	44	44	72	91	104	36	36	36	55	68
	21	92	151	179	196	x	72	133	163	181	195	63	101	132	152	166	52	52	84	104	119	45	45	45	64	79
	22	105	170	x	x	x	83	150	183	x	x	73	115	149	170	186	62	62	97	119	135	53	53	53	75	91
	23	119	189	x	x	x	94	168	x	x	x	84	129	167	190	x	71	71	110	134	152	62	62	62	86	104
	24	133	x	x	x	x	107	187	x	x	x	95	144	185	x	x	82	82	123	149	169	71	71	71	97	117
	25	148	x	x	x	x	119	x	x	x	x	107	160	x	x	x	92	92	137	166	187	81	81	81	109	130
	26	164	x	x	x	x	133	x	x	x	x	119	177	x	x	x	103	103	152	183	x	91	91	91	122	144
	27	180	x	x	x	x	146	x	x	x	x	132	194	x	x	x	115	115	167	x	x	102	102	102	134	159
	28	196	x	x	x	x	161	x	x	x	x	145	x	x	x	x	126	126	183	x	x	113	113	113	148	174
	29	x	x	x	x	x	175	x	x	x	x	159	x	x	x	x	139	139	199	x	x	124	124	124	162	190
	30	x	x	x	x	x	191	x	x	x	x	173	x	x	x	x	151	151	x	x	x	136	136	136	176	x

Inverter weight: 60 Kg

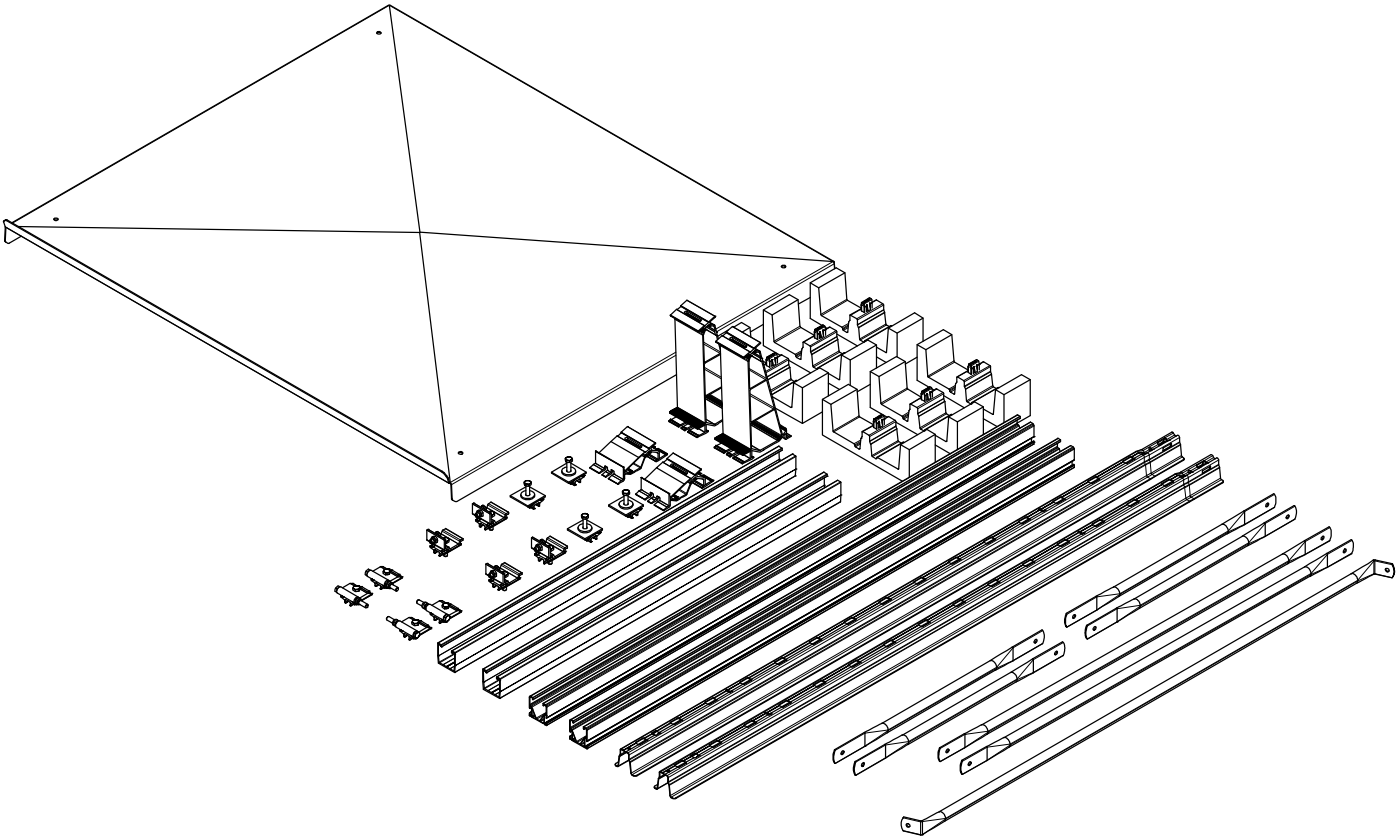
Terrain category		O					I					II					III					IV				
Height		0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20	0	5	10	15	20
vb,0 (m/s)	20	49	103	128	144	156	31	87	114	130	143	23	57	86	103	117	14	14	42	61	74	6	6	6	25	38
	21	62	121	149	166	179	42	103	133	151	165	33	71	102	122	136	22	22	54	74	89	15	15	15	34	49
	22	75	140	171	190	x	53	120	153	173	188	43	85	119	140	156	32	32	67	89	105	23	23	23	45	61
	23	89	159	193	x	x	64	138	174	196	x	54	99	137	160	178	41	41	80	104	122	32	32	32	56	74
	24	103	180	x	x	x	77	157	196	x	x	65	114	155	181	x	52	52	93	119	139	41	41	41	67	87
	25	118	x	x	x	x	89	176	x	x	x	77	130	175	x	x	62	62	107	136	157	51	51	51	79	100
	26	134	x	x	x	x	103	197	x	x	x	89	147	195	x	x	73	73	122	153	176	61	61	61	92	114
	27	150	x	x	x	x	116	x	x	x	x	102	164	x	x	x	85	85	137	170	195	72	72	72	104	129
	28	166	x	x	x	x	131	x	x	x	x	115	182	x	x	x	96	96	153	189	x	83	83	83	118	144
	29	184	x	x	x	x	145	x	x	x	x	129	x	x	x	x	109	109	169	x	x	94	94	94	132	160
	30	x	x	x	x	x	161	x	x	x	x	143	x	x	x	x	121	121	186	x	x	106	106	106	146	176

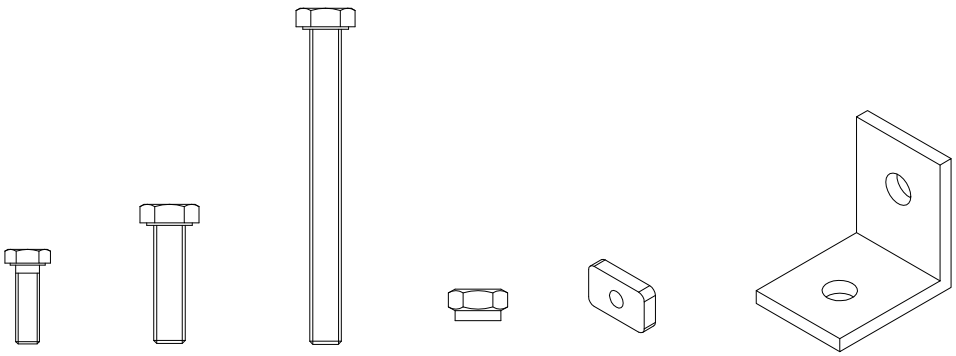
Inverter weight: 90 Kg

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
vb,0 (m/s)	20	19	73	98	114	126	1	57	84	100	113	0	27	56	73	87	0	0	12	31	44	0	0	0	0	8
	21	32	91	119	136	149	12	73	103	121	135	3	41	72	92	106	0	0	24	44	59	0	0	0	4	19
	22	45	110	141	160	173	23	90	123	143	158	13	55	89	110	126	2	2	37	59	75	0	0	0	15	31
	23	59	129	163	184	199	34	108	144	166	182	24	69	107	130	148	11	11	50	74	92	2	2	2	26	44
	24	73	150	187	x	x	47	127	166	190	x	35	84	125	151	170	22	22	63	89	109	11	11	11	37	57
	25	88	171	x	x	x	59	146	189	x	x	47	100	145	173	193	32	32	77	106	127	21	21	21	49	70
	26	104	194	x	x	x	73	167	x	x	x	59	117	165	195	x	43	43	92	123	146	31	31	31	62	84
	27	120	x	x	x	x	86	188	x	x	x	72	134	186	x	x	55	55	107	140	165	42	42	42	74	99
	28	136	x	x	x	x	101	x	x	x	x	85	152	x	x	x	66	66	123	159	185	53	53	53	88	114
	29	154	x	x	x	x	115	x	x	x	x	99	171	x	x	x	79	79	139	178	x	64	64	64	102	130
	30	172	x	x	x	x	131	x	x	x	x	113	190	x	x	x	91	91	156	197	x	76	76	76	116	146

Nr. of ballast carrier sets (Max. 2)

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

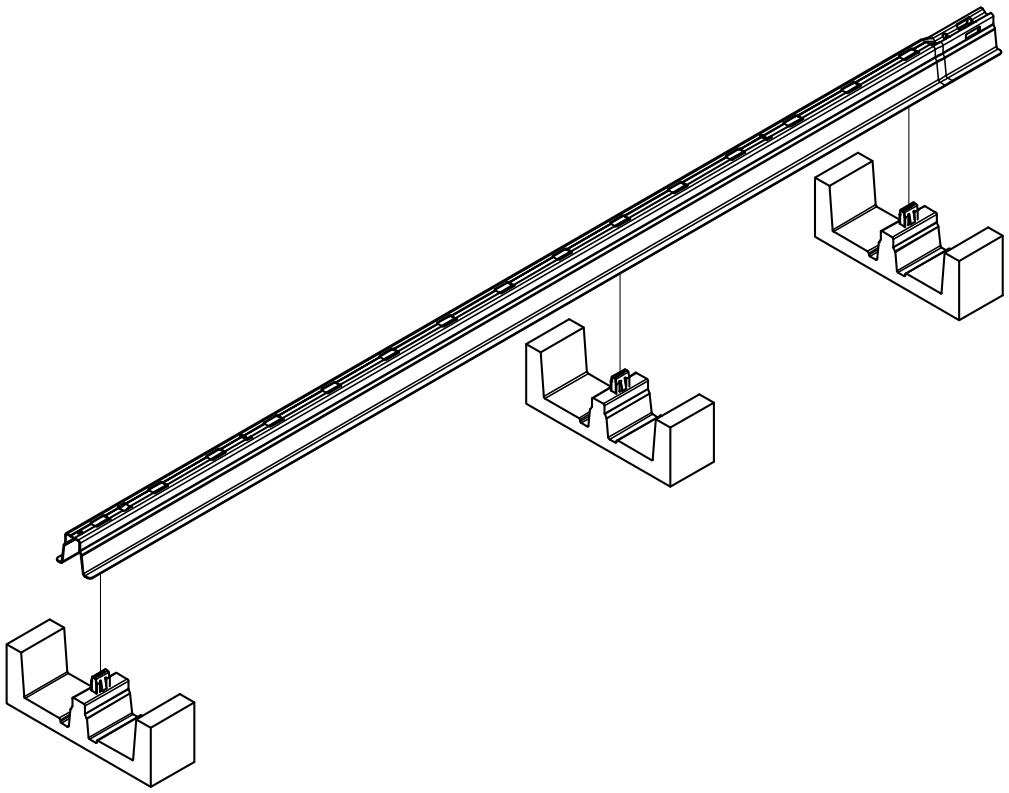




4x **8x** **4x** **8x** **4x** **4x**

Required tools: socket wrench 13 and 10 mm

1



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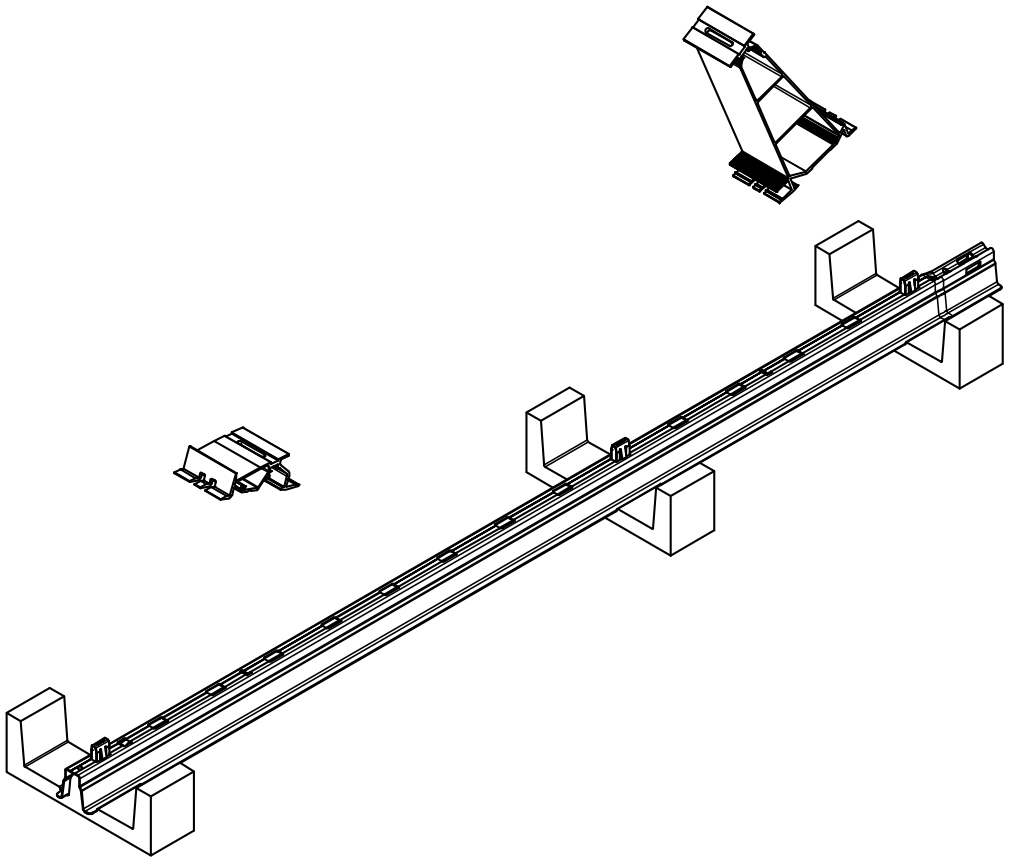

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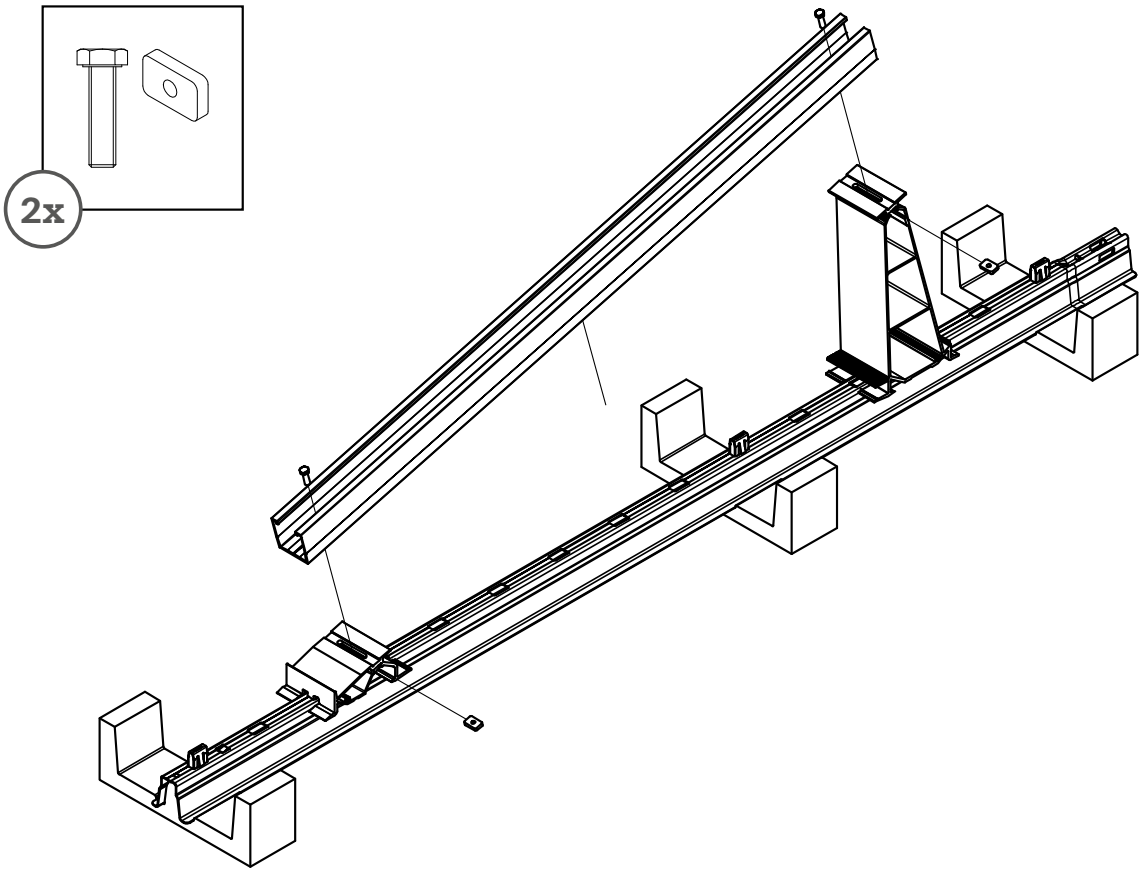

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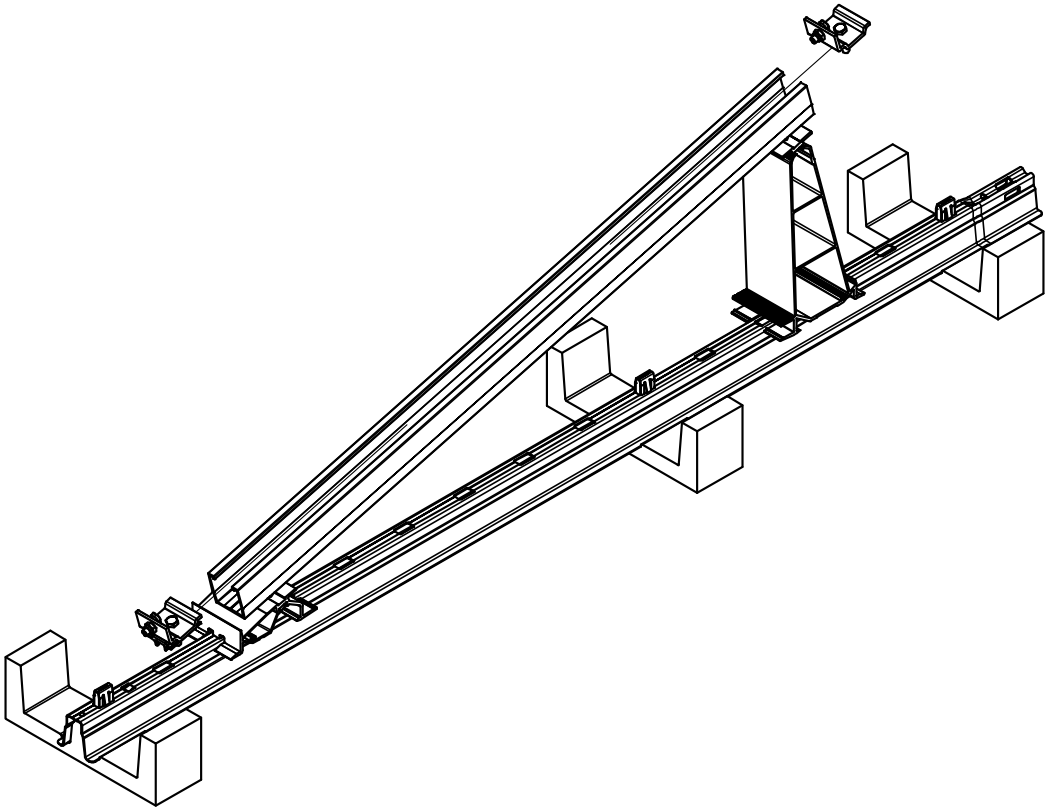
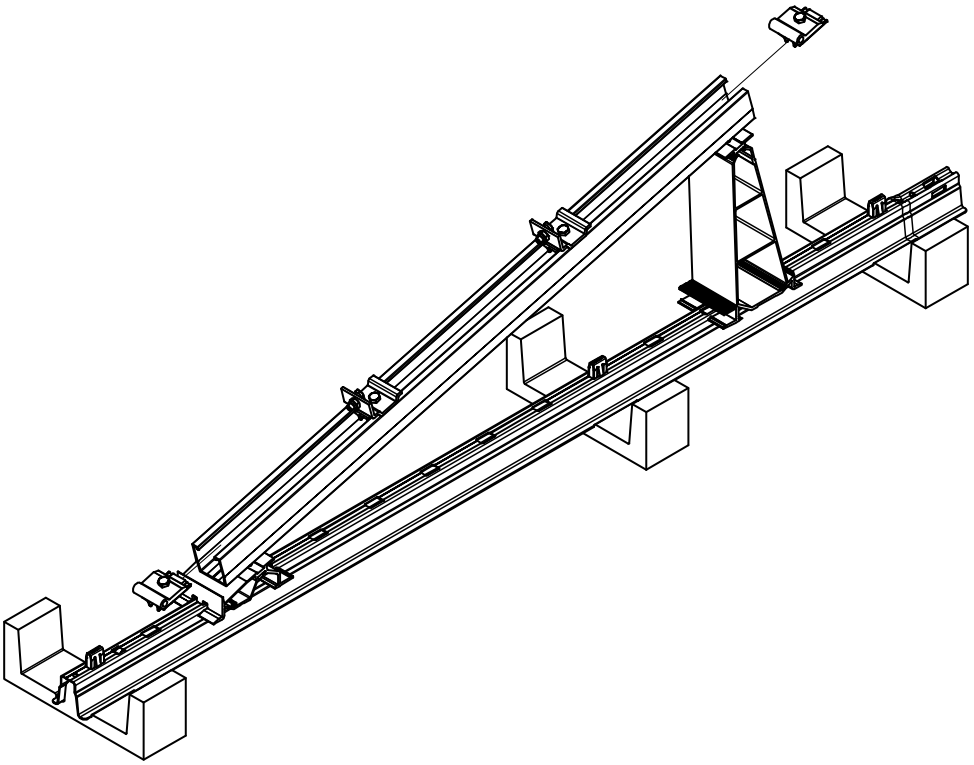


5 2x



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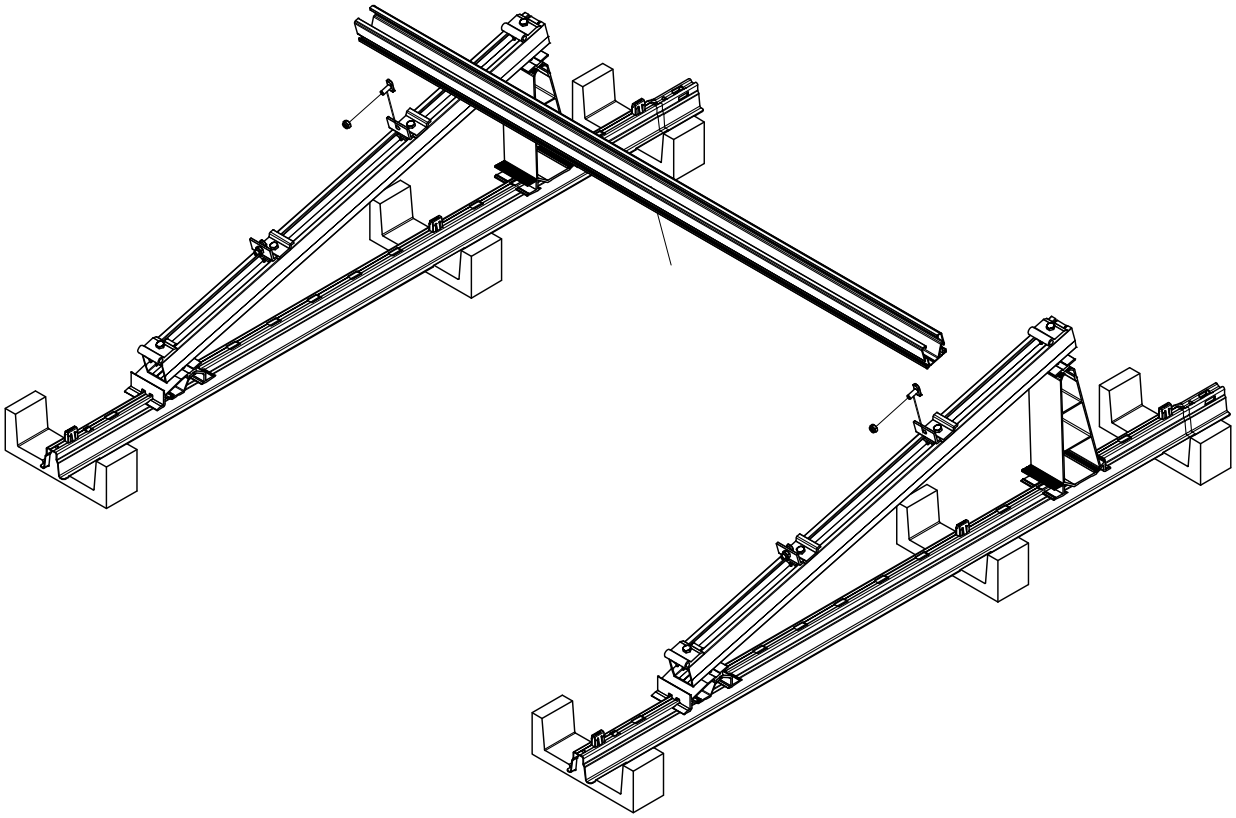

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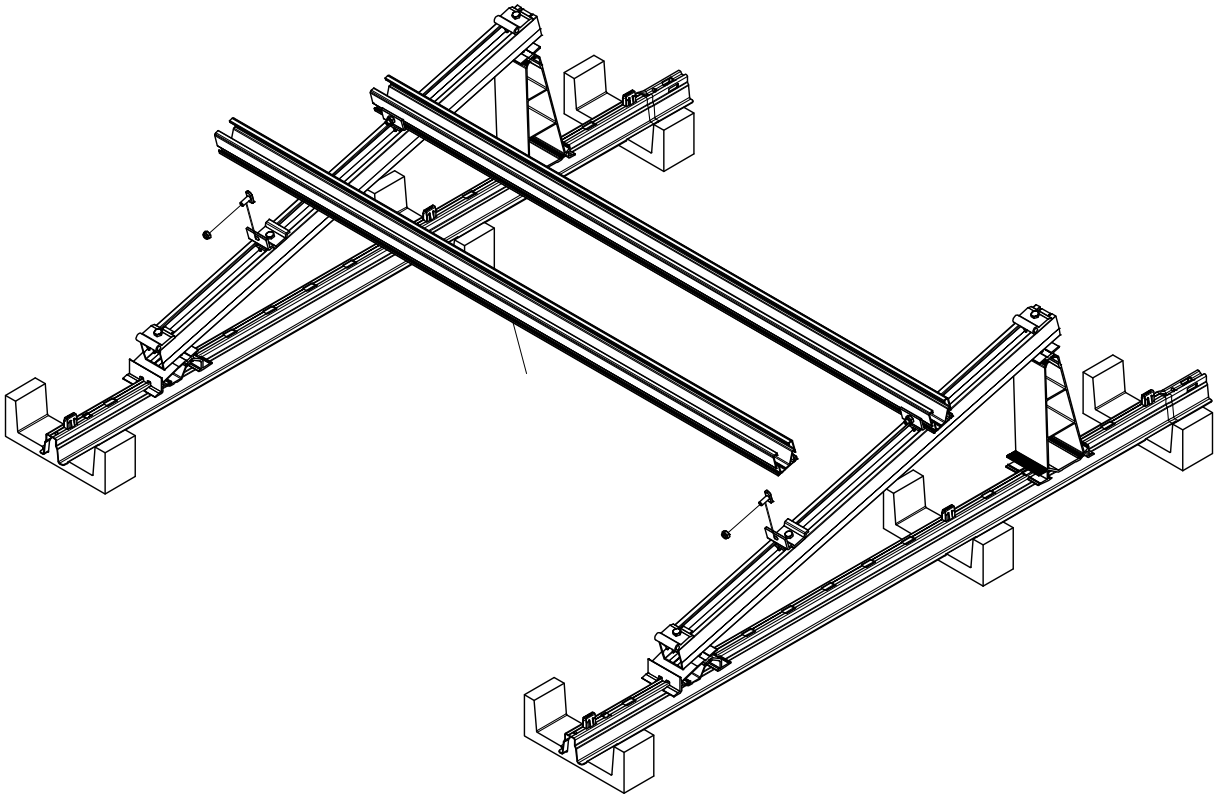

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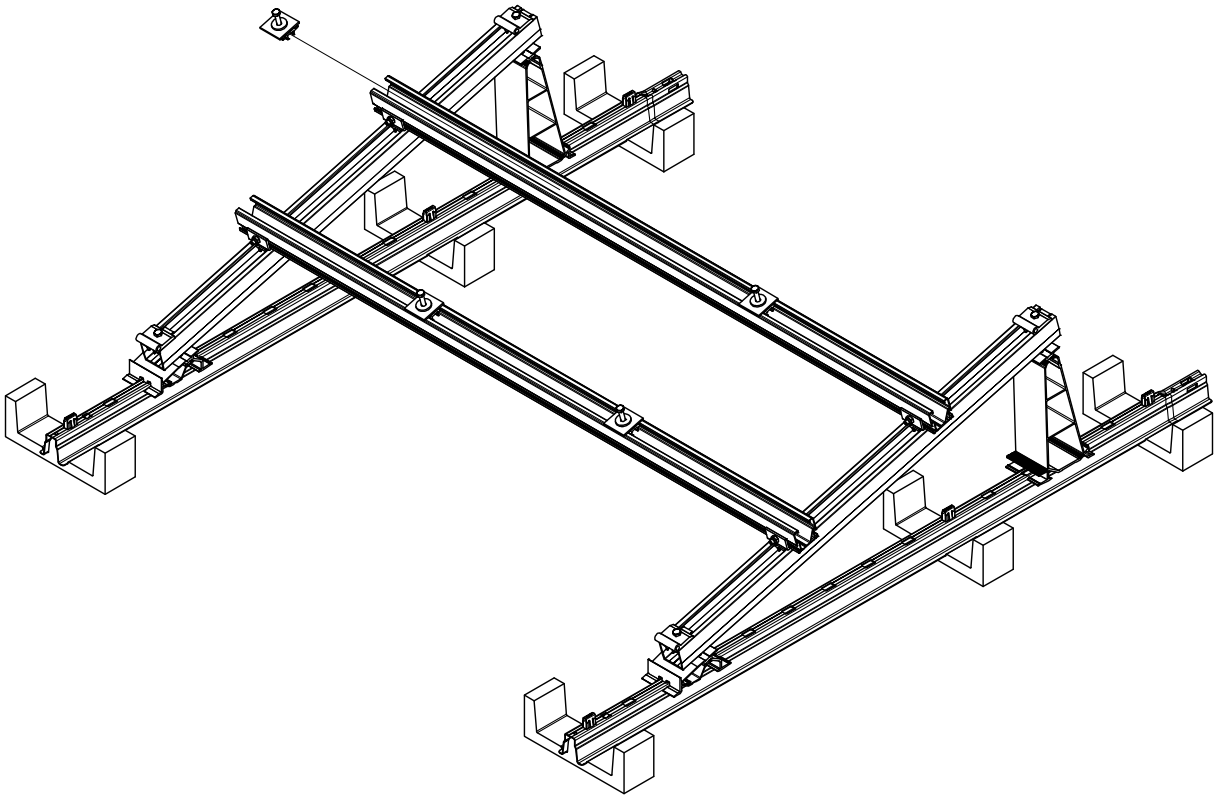

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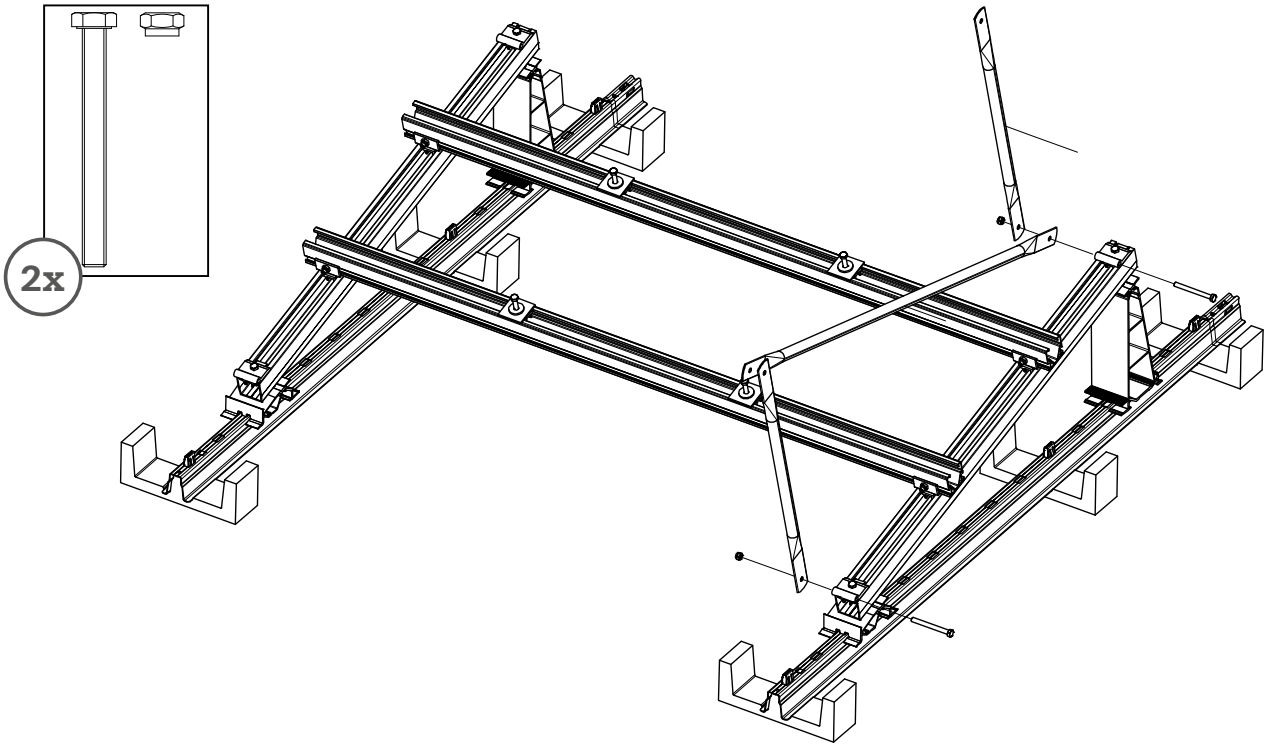

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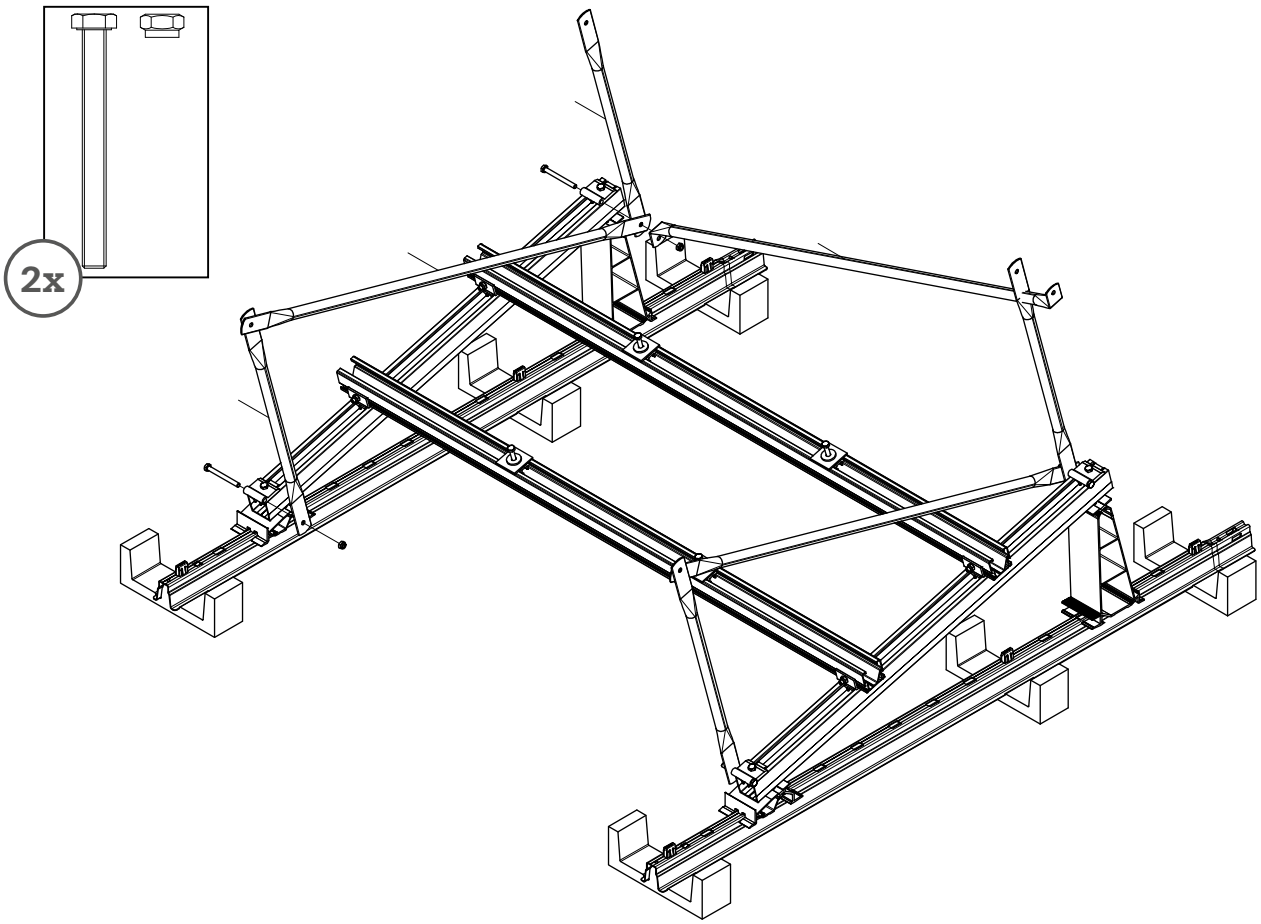

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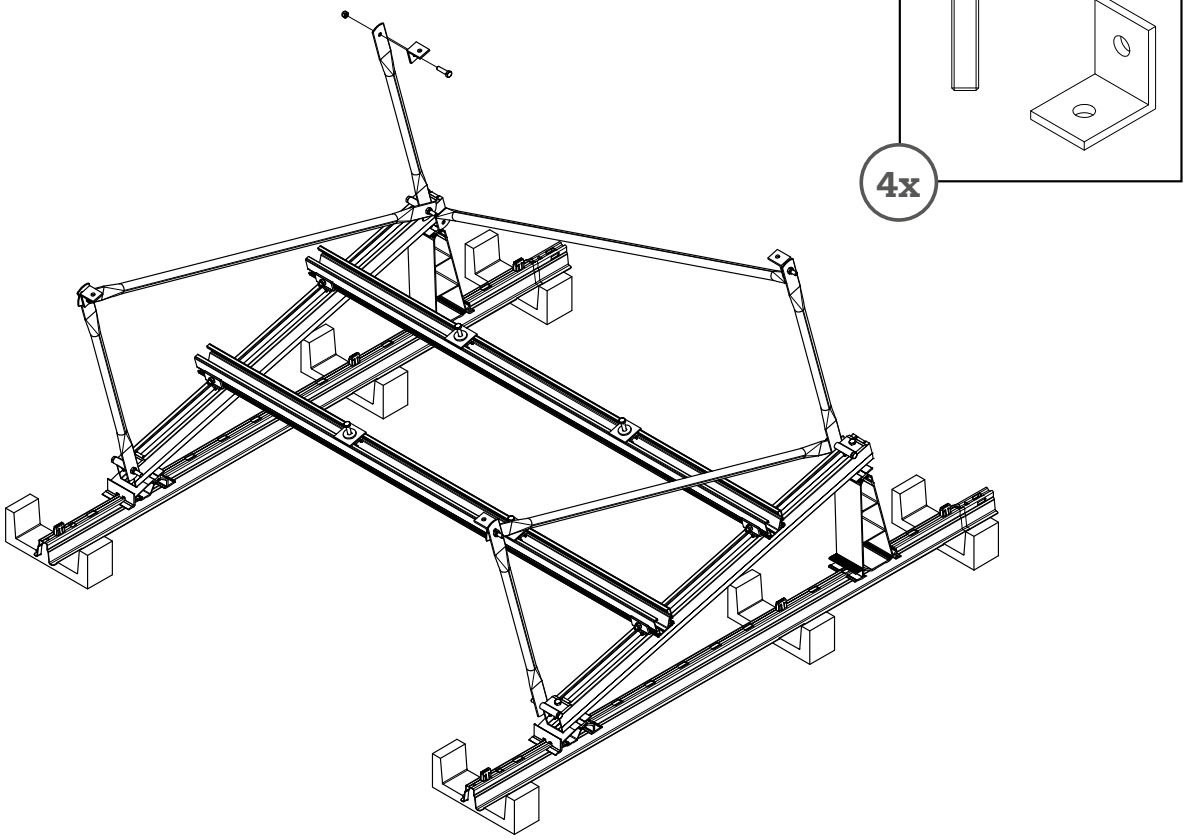

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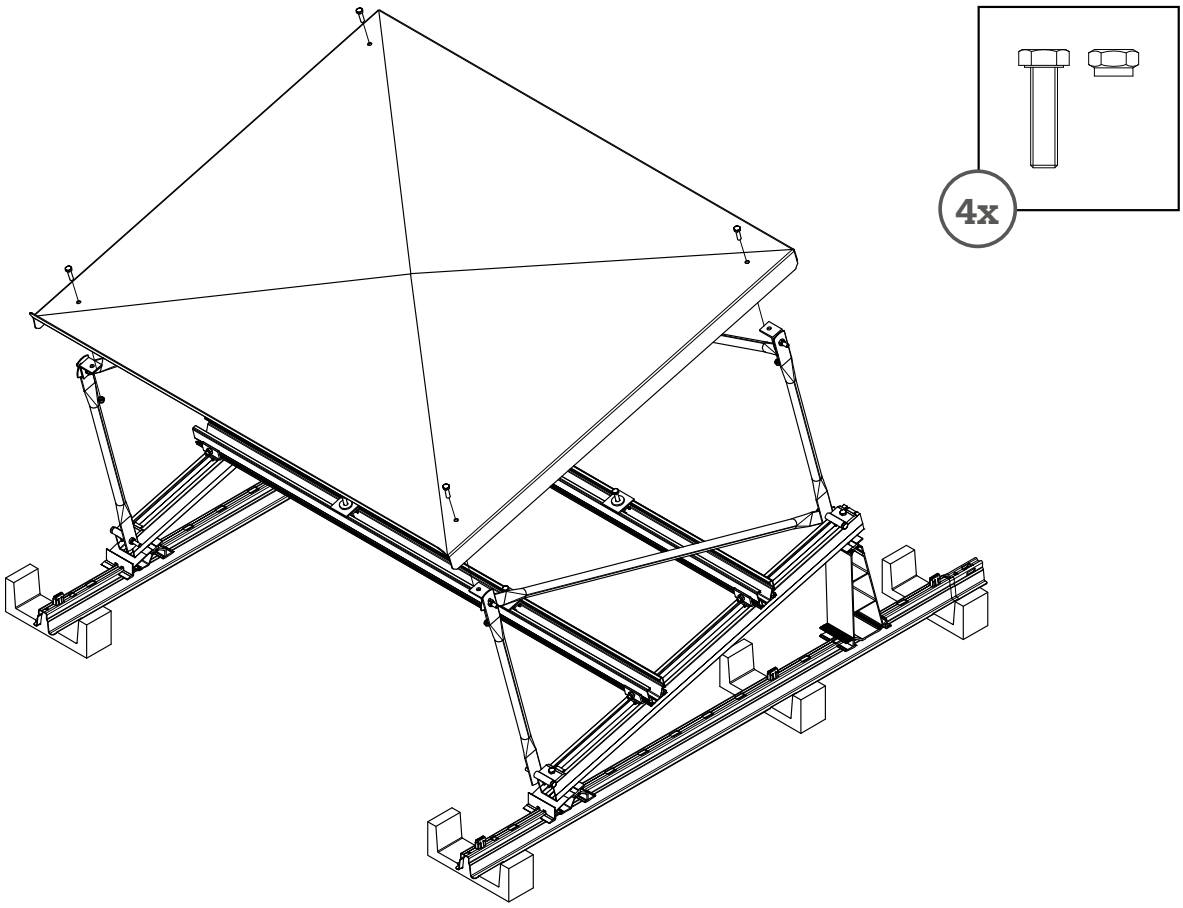

Et voilà!