

# PMT PROJECT REPORT

900 2022 PRADELNA ČB EW V3

PM\_CZ\_rIN11x56

SYSTEM SIZE: 325.8 KWP

12/20/2022



NEXT LEVEL  
MOUNTING

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## PROJECT DATA

This project report is based on the project data provided by the client. The data given in the project report must be compared with the building and module data on site. In the event of discrepancies, this must be agreed with your responsible planning partner and the planning has to be adjusted.

## PROJECT CHANGES / ADJUSTMENTS

Changes and adjustments to the project may result in different static requirements and material quantities. Any changes and adjustments include, but are not limited to, changes in module size and module weight, changes in module array arrangement and building parameters. Any change requires a recalculation of the design.

## DOWNLOAD AREA

<http://pmt.solutions/downloads>



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## MASTER DATA

Project Name	900_2022_Pradelna_ČB_EW_V3
Comment	
Planning Responsible	
Software v.:	10.0.20.12379
Amount Modules	724
System Size	325.8 kWp
Orientation [°]	178.91
Roofpitch [°]	3
Allocated Area	1,562.39 m²

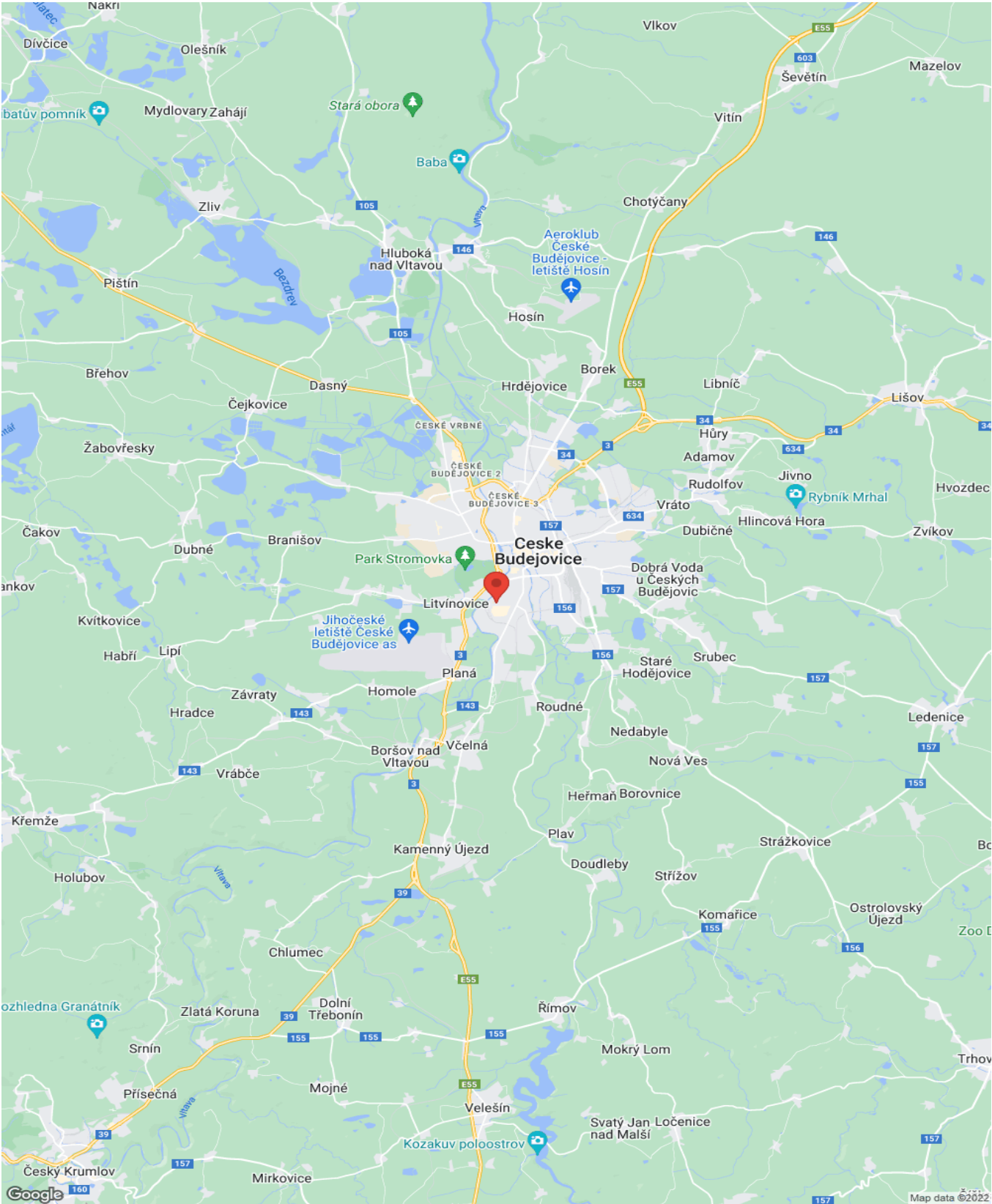
## PROJECT ADDRESS

Name	
Street Address	Lukase Bernharda Schneidera 34
Postal code	370 01
City	České Budějovice
Phone	
Email	
Notes	
Country	Czech Republic
Latitude [°]	48.96201
Longitude [°]	14.46570
Altitude [m]	388



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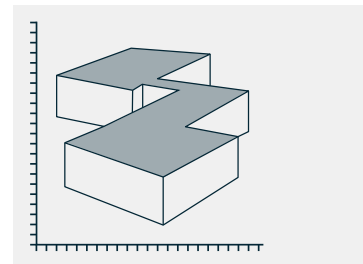
## PROJECT LOCATION



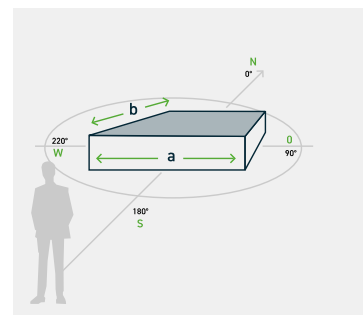
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## ROOF [ROOF\_1]

Building height h [mm]	9200
Slope of roof [°]	3
Roofing	PVC
Product Type:	EVO 2.0 EastWest
System alignment [°]	178.91
Material of support structure:	unknown



Custom(Elev.)



System alignment [°]\*

## SNOW LOAD CSN EN 1991-1-3

Snow load [kN/m²]* (si=μi*sk)	0.8
Slope of roof [°]:	3
Snow load zone	II
Shape coefficient μi:	0.8

## WIND LOAD CSN EN 1991-1-4 NA:2008

Wind load	0.71 kN/m²
Building height h [mm]	9200

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## PV-MODULE [ROOF\_1]

Manufacturer:	Jinko Solar Co., Ltd.
Name	MM450-60HLD-MB
Width [mm]:	1134
Height [mm]:	1903
Thickness [mm]:	30
Framing:	Aluminum
Weight (kg)	24.2
Nominal Power [Watt]:	450
Module Type:	Monocrystalline
Installation:	On Both Sides
Frame color	Aluminum
Temperature coefficient [%/°C]:	-0.35
Efficiency STC:	0.209
Output current MPP - STC [A]:	13.27
Output voltage MPP - STC [V]:	33.91
Short circuit current [A]:	13.85
Open circuit voltage [V]:	41.18
Temperature coefficient Power [%/K]:	0.048
Temperature coefficient Voltage [%/K]:	-0.28
Max. System voltage EU:	1000
Max module backcurrent [A]	25
Galvanic separation required:	No

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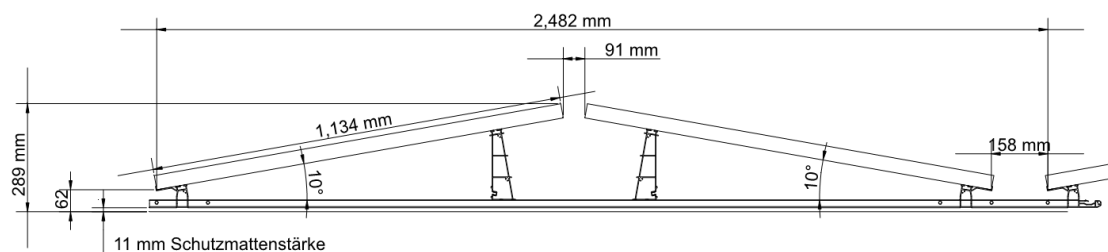
## CLAMPS [ROOF\_1]

Mid Clamp:	MK Typ 40-alu
End Clamp:	EK Typ 35-alu
<p><b>Note:</b> Please check to see if the terminal points of the module conforms with the specifications of the manufacturer. If the access points do not match the specifications of the module manufacturer, it is recommended to contact the module manufacturer in conjunction to obtain a release planning. There is no guarantee that the proposed connection is released by the manufacturer.</p>	

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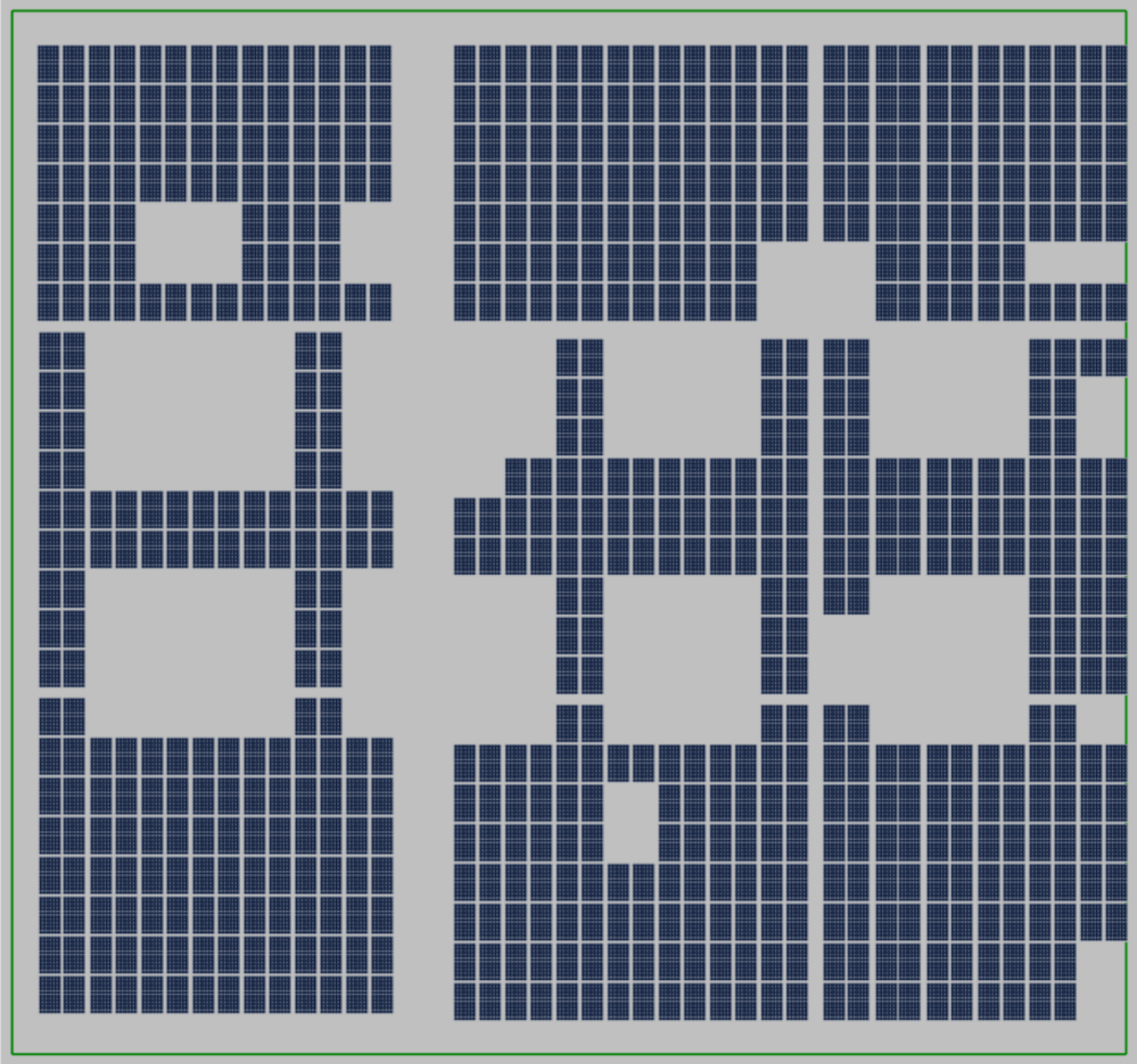
## RACKING PARAMETER [ROOF\_1]

Bracket tilt $\alpha$ [°]:	10
Inter-row spacing a [mm]:	200
System variant:	Eco (Leistungsoptimiert)
Friction Constant $\mu$	0.5
The default set-friction coefficient is 0.5 and checked by the installer / buyer (wet and dry test). If a lower friction coefficient is determined, it is mandatory to enter the value here, for the surcharge calculation! A higher value can be set to the maximum limit of 0.7 if it has been determined.	
Recommended distance to roof border [mm]:	556
User defined distance to roof border [mm]: min. (200)	556
Cross brace only in corners:	Yes
Cross braces for ballast positioning at edge	No
Cross brace for low-resistance connection:	No
Use third rail:	No
Stone weight [kg]:	15 kg
Ballast clip on the edge:	Yes
Ballast clamp in the middle of the field:	Yes
Mechanical fastening:	No
Fastening against caterpillar effect:	No
Ballast trays used:	No
Maximum permissible weight per single module / double module [kg/m²]:	0
Wind tunnel report:	MEW07-1-2



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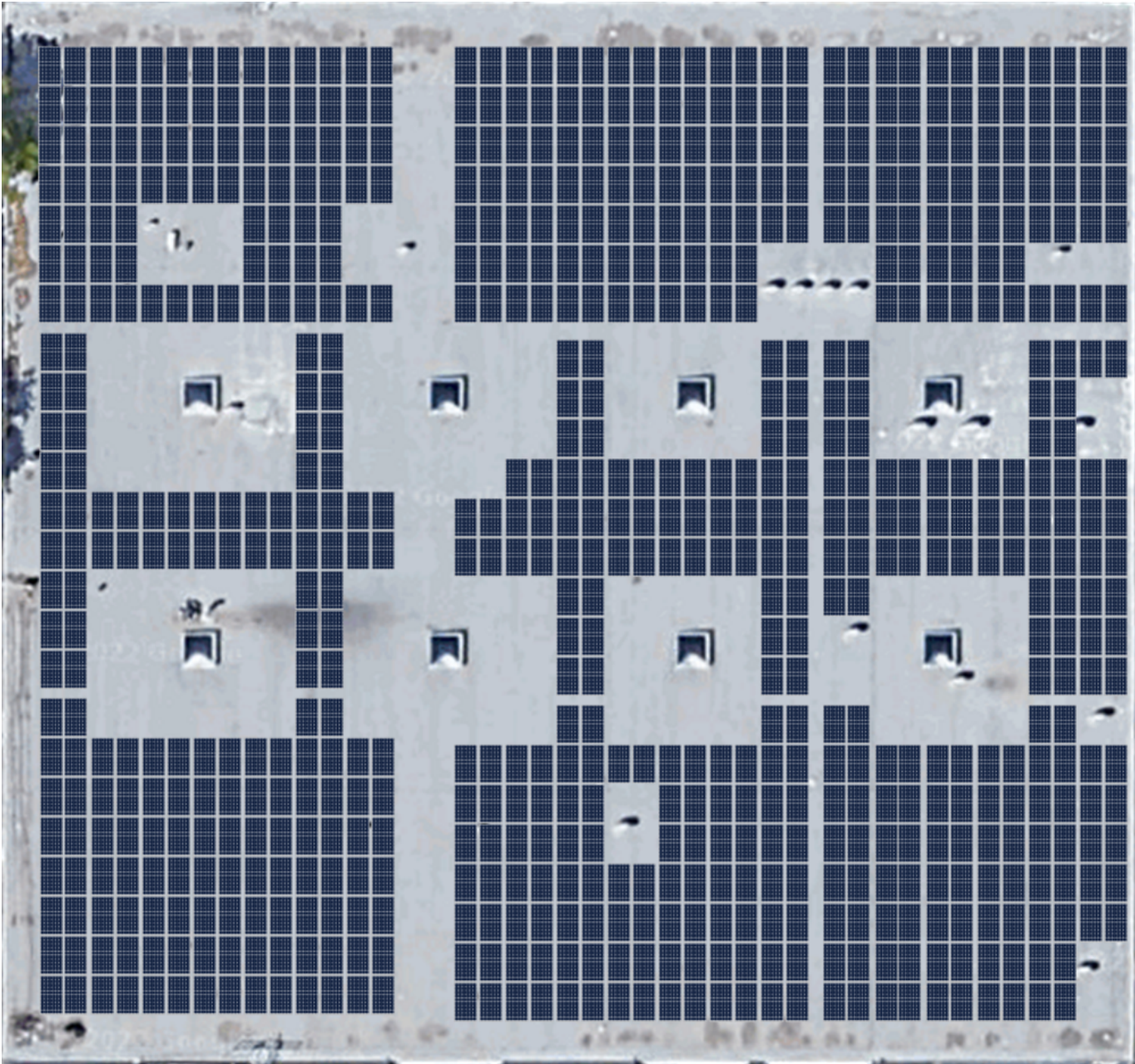
POSITION [ROOF\_1]





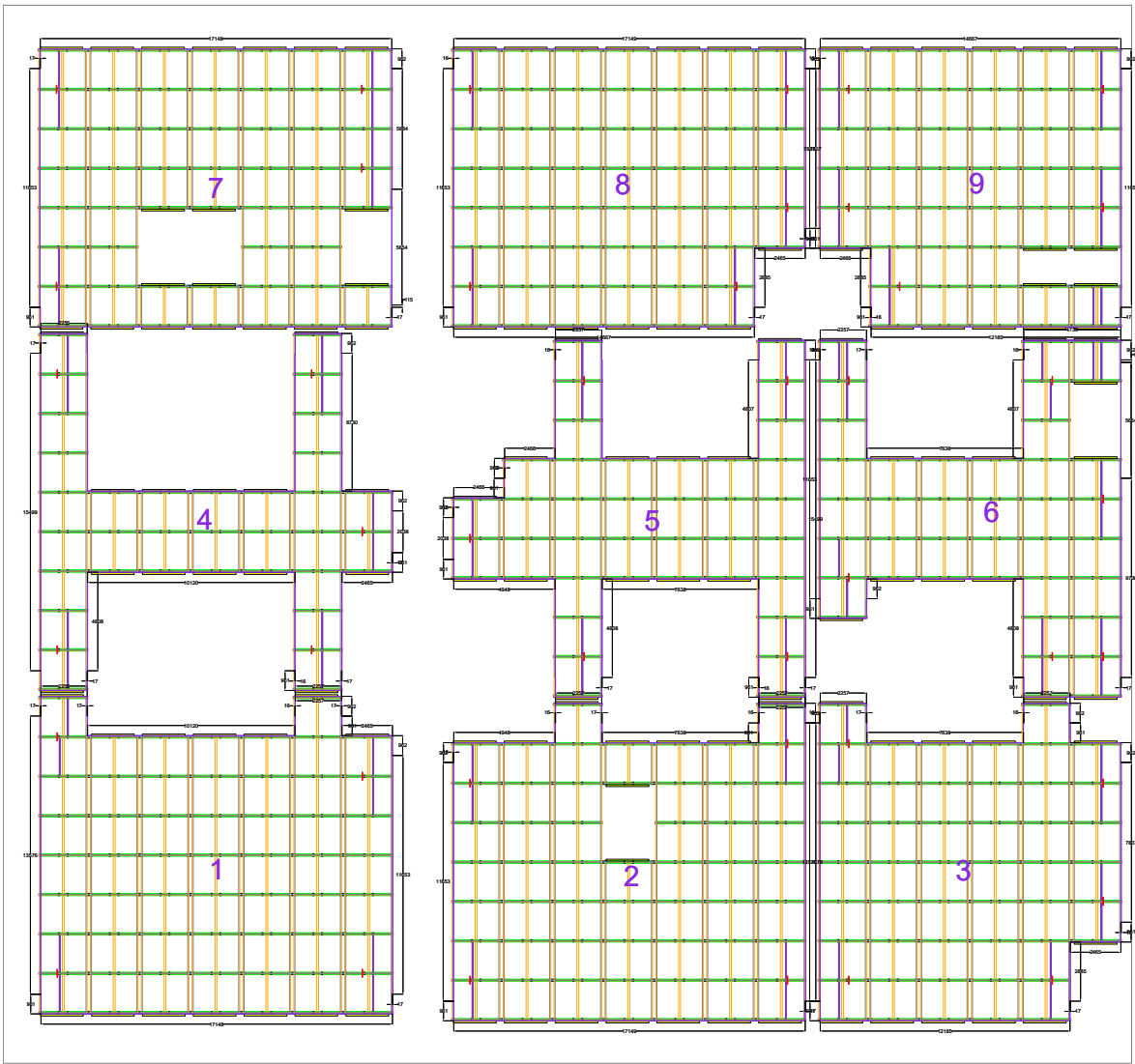
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DISPOSITION - GOOGLE MAPS [ROOF\_1]



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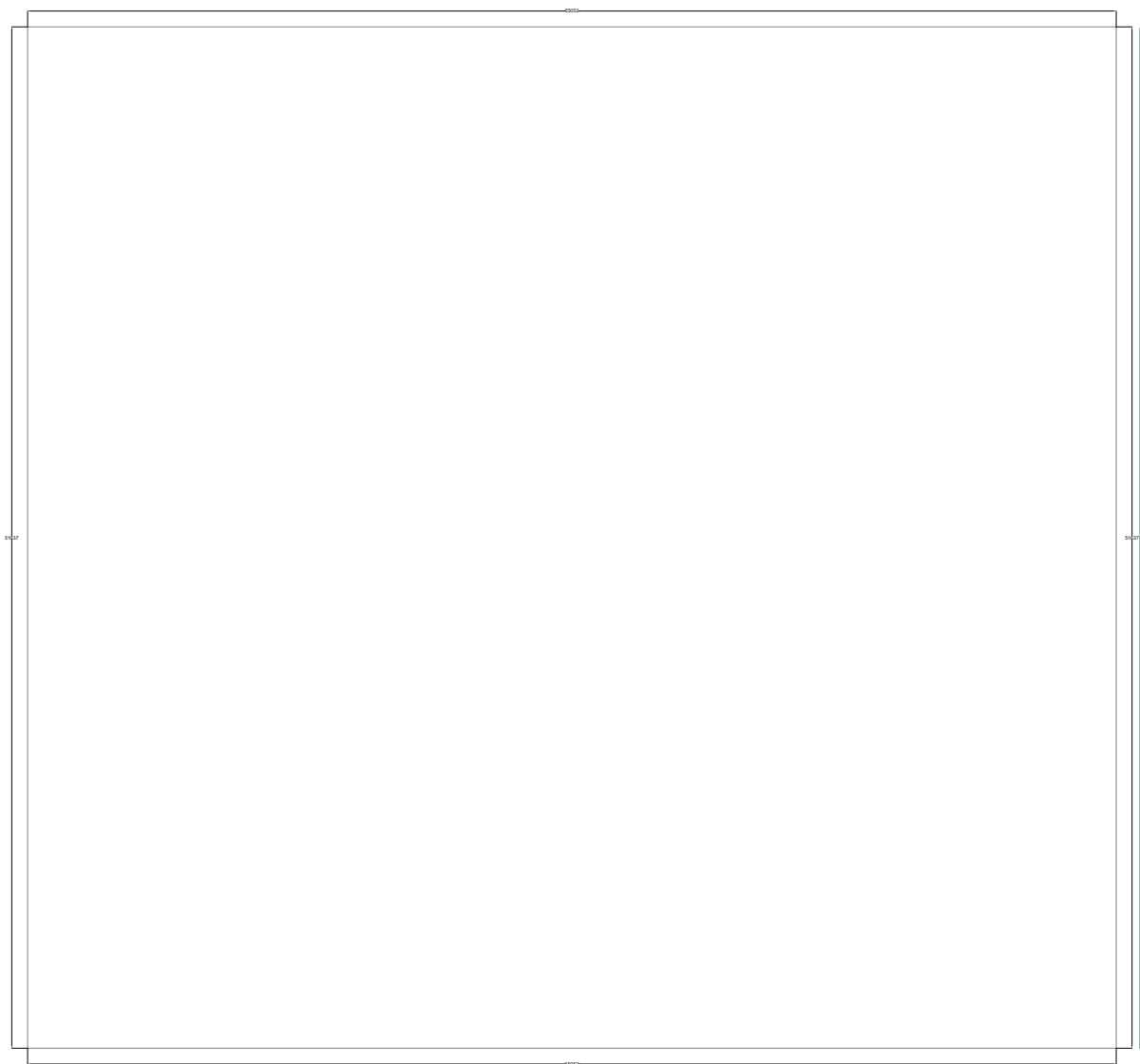
## INSTALLATION-PLAN [ROOF\_1]





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ROOF COORDINATES [ROOF\_1]



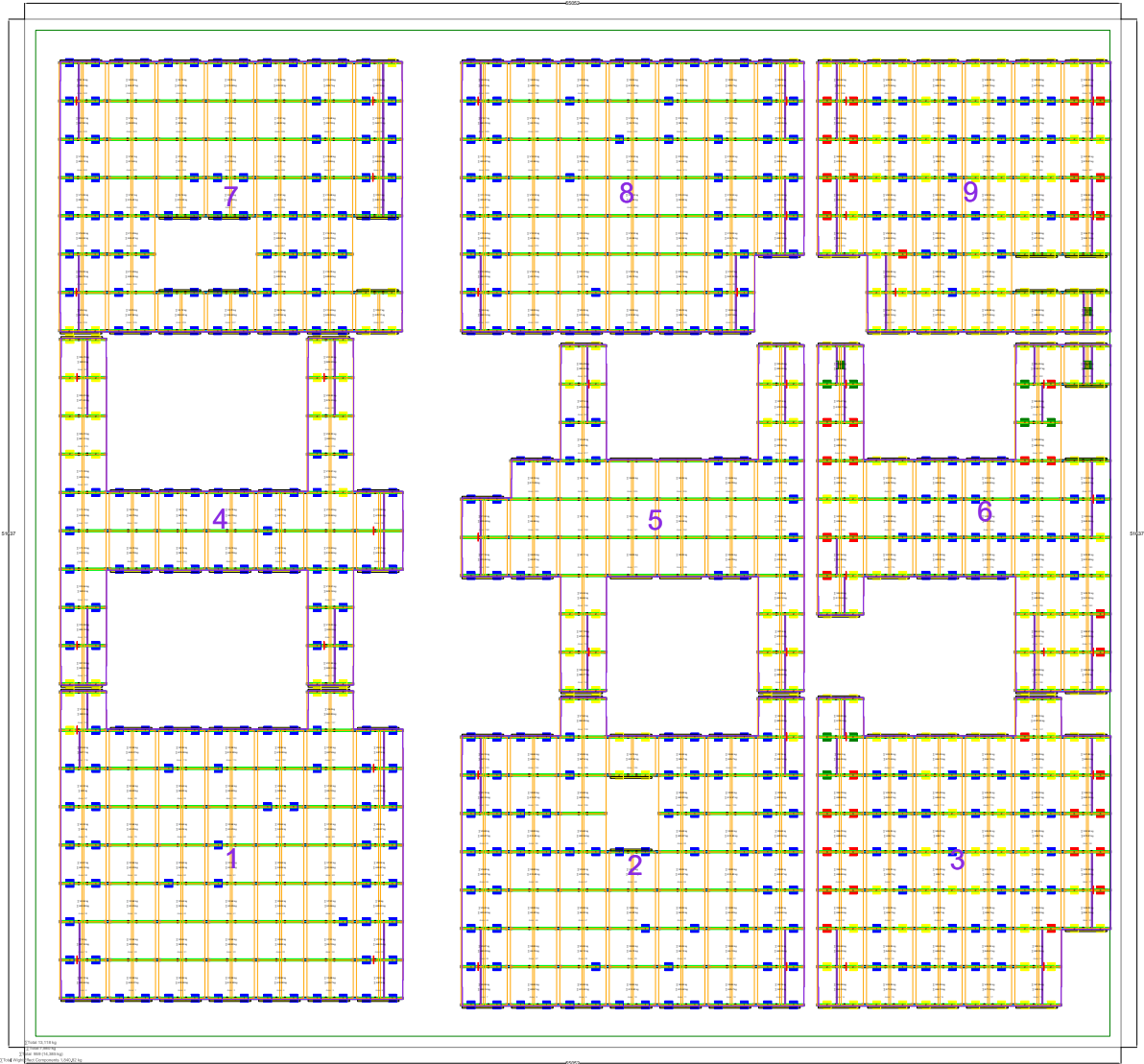
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## ROOF COORDINATES [ROOF\_1]

Coordinate 0	X: 0	Y: 51637	Z: 9200
Coordinate 1	X: 0	Y: 0	Z: 9200
Coordinate 2	X: 55052	Y: 0	Z: 9200
Coordinate 3	X: 55052	Y: 51637	Z: 9200

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STATIC INFORMATION: BALLASTING [ROOF\_1]



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## SUMMARY OF LOAD PARAMETERS [ROOF\_1]

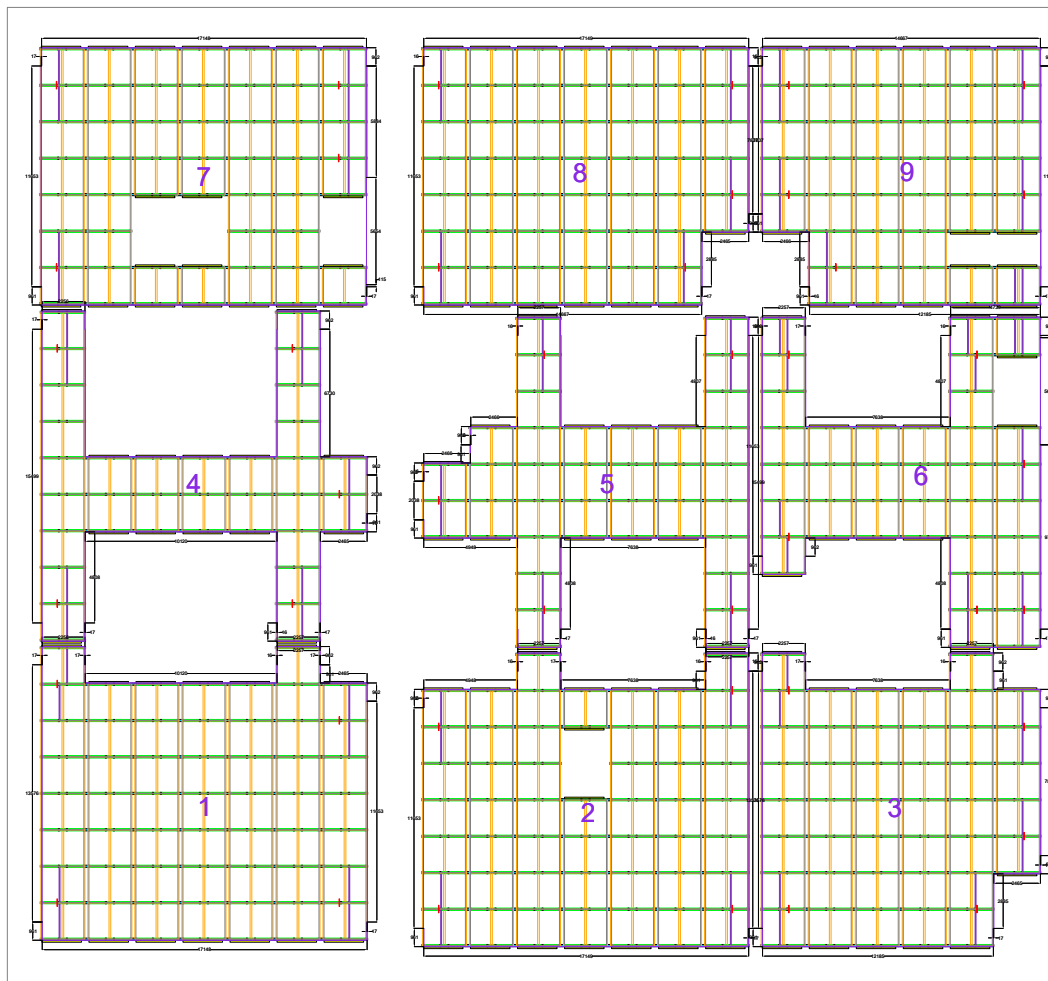
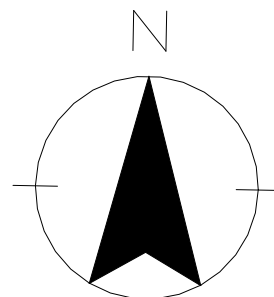
<b>Snow load</b>	0.8 kN/m <sup>2</sup>
<b>Wind load</b>	0.71 kN/m <sup>2</sup>
<b>Friction Constant <math>\mu</math></b>	0.5
<b>Factor of Safety for Uplift</b>	1.5
<b>Factor of Safety for Sliding</b>	1.5
<b>Load factor applied to Dead Load</b>	0.9
<b>Weight per ballast block</b>	15 kg
<b>Number of ballast blocks:</b>	959
<b>System surface area</b>	1,679.6 m <sup>2</sup>
<b>Roof area</b>	2,842.72 m <sup>2</sup>
<b>Total ballast weight</b>	14,385 kg
<b>Weight Module/Rack</b>	19,279.59 kg
<b>Total System weight</b>	33,664.59 kg
<b>Surface load on system area</b>	20.04 kg/m <sup>2</sup>
<b>Surface load on roof</b>	11.84 kg/m <sup>2</sup>
<b>Max surface load on system area</b>	50.29 kg/m <sup>2</sup>
<b>Average horizontal load</b>	0.071 kN
<b>Maximum horizontal load</b>	0.09 kN
<b>Total horizontal load</b>	25.69 kN

Project created on: 12/19/2022  
Project created by: Robert Kupec

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Generated by: Robert Kupec

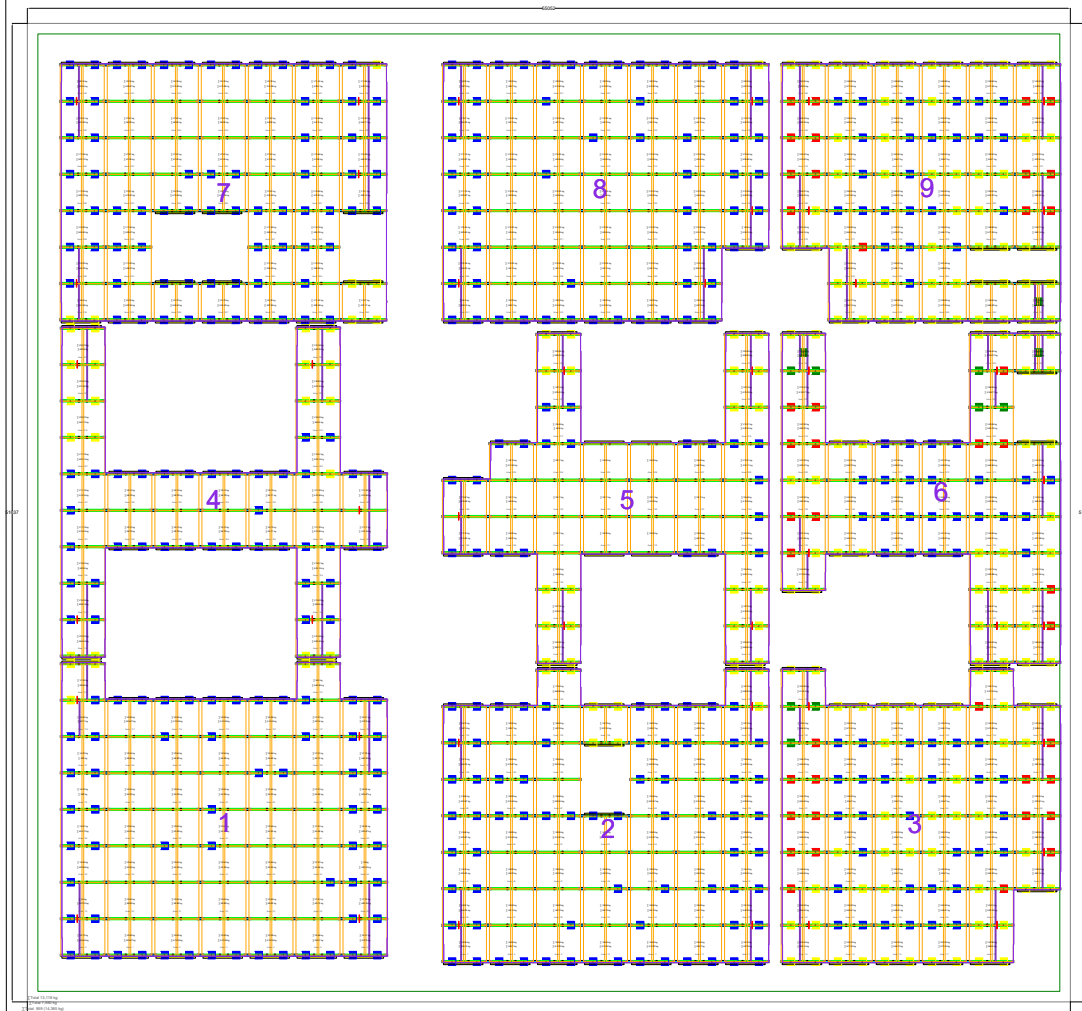
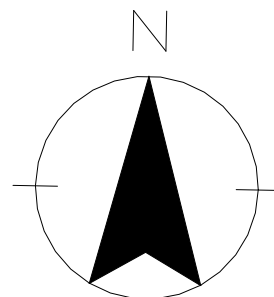
**PMT**

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- 52215-1392 Seitendeckel O-W
- 52215-1377 Bodenprofil Verbinder E-W I=267
- 52215-1385 Tower
- 52215-1390 Querstrebenverbinder Typ I
- 52215-1387 Querstrebe Typ I I=1648/1682/1952
- EVO20HBP10Typ2150
- 52215-1384 Base
- 52215-1374 Bodenprofil Anfang/Ende I=75mm

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Roof_1		DE	1/1	



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Roof_1				