

PROJECT DESCRIPTION:	
SYSTEM SIZE	62.40KW DC STC
MODULE TYPE	(96) LONGI SOLAR LR7-72HVH-650M 650W

INDEX SHEET	
A.00	SITE PLAN
A.01	LAYOUT PLAN
S.00-S.01	FRAMING DETAILS
D.00-D.02	SPECIFICATION SHEETS



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BUSINESS ESTATE
ANTHONY'S WAY,
ROCHESTER, KENT
ME2 4NP

PRO. DATE	07/04/2025	
DESIGN BY	DR	
CHECKED BY	JD	
DATE	REV.	DESCRIPTION
07/04/2025	1	Add Pitch Roof Renaming Panels

PROJECT NAME

CARE UK COPTHORNE

SHEET NAME

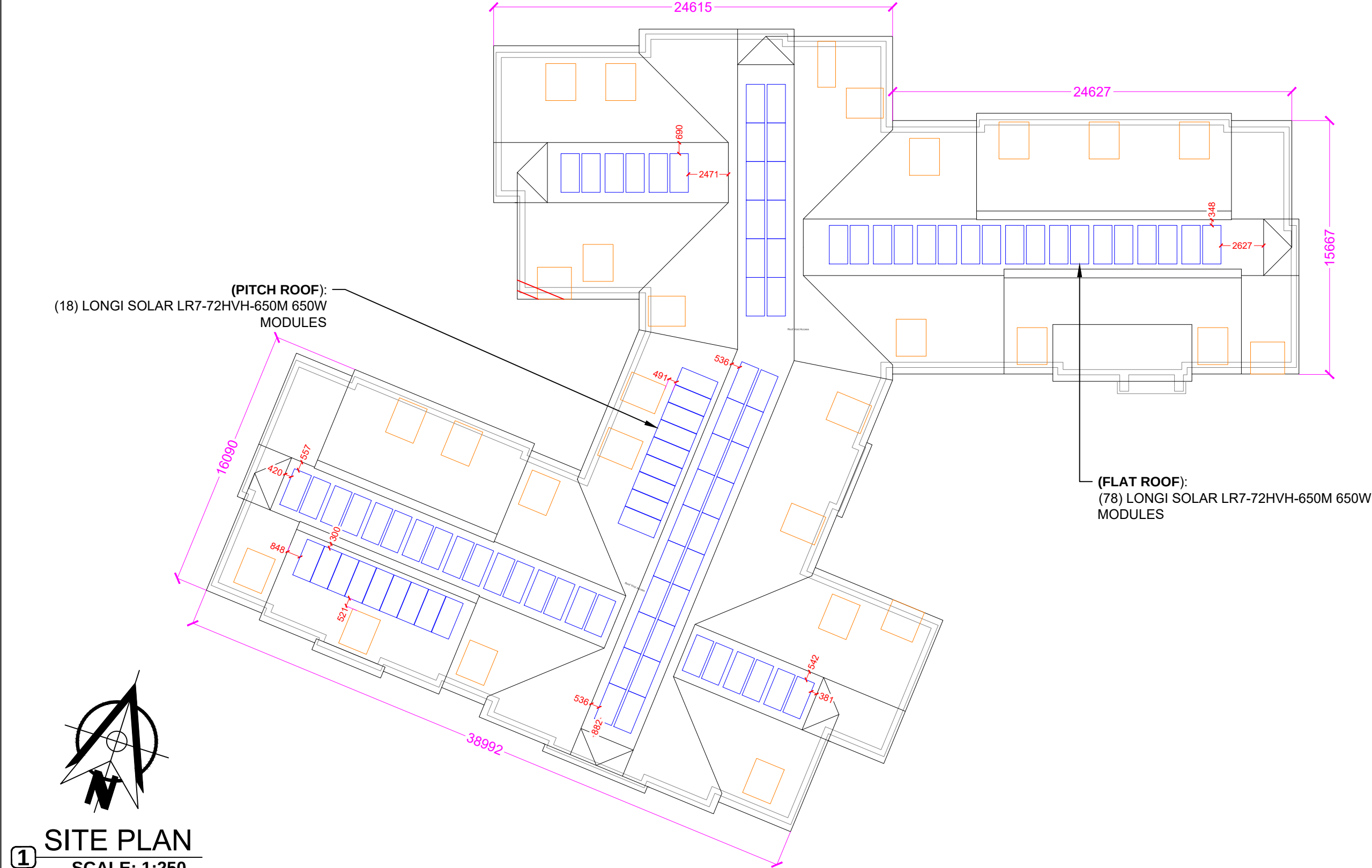
SITE PLAN

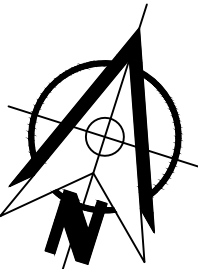
SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

A.00





1 SITE PLAN
SCALE: 1:250

MODULES AREA & ROOF AREA CALC'S			
# OF MODULES	MODULES AREA (Sq. Meter)	ROOF AREA (Sq. Meter)	ROOF AREA COVERED BY MODULES (%)
96	259.20	1923.56	13.48

LEGENDS

EAST FACING MODULE

WEST FACING MODULE


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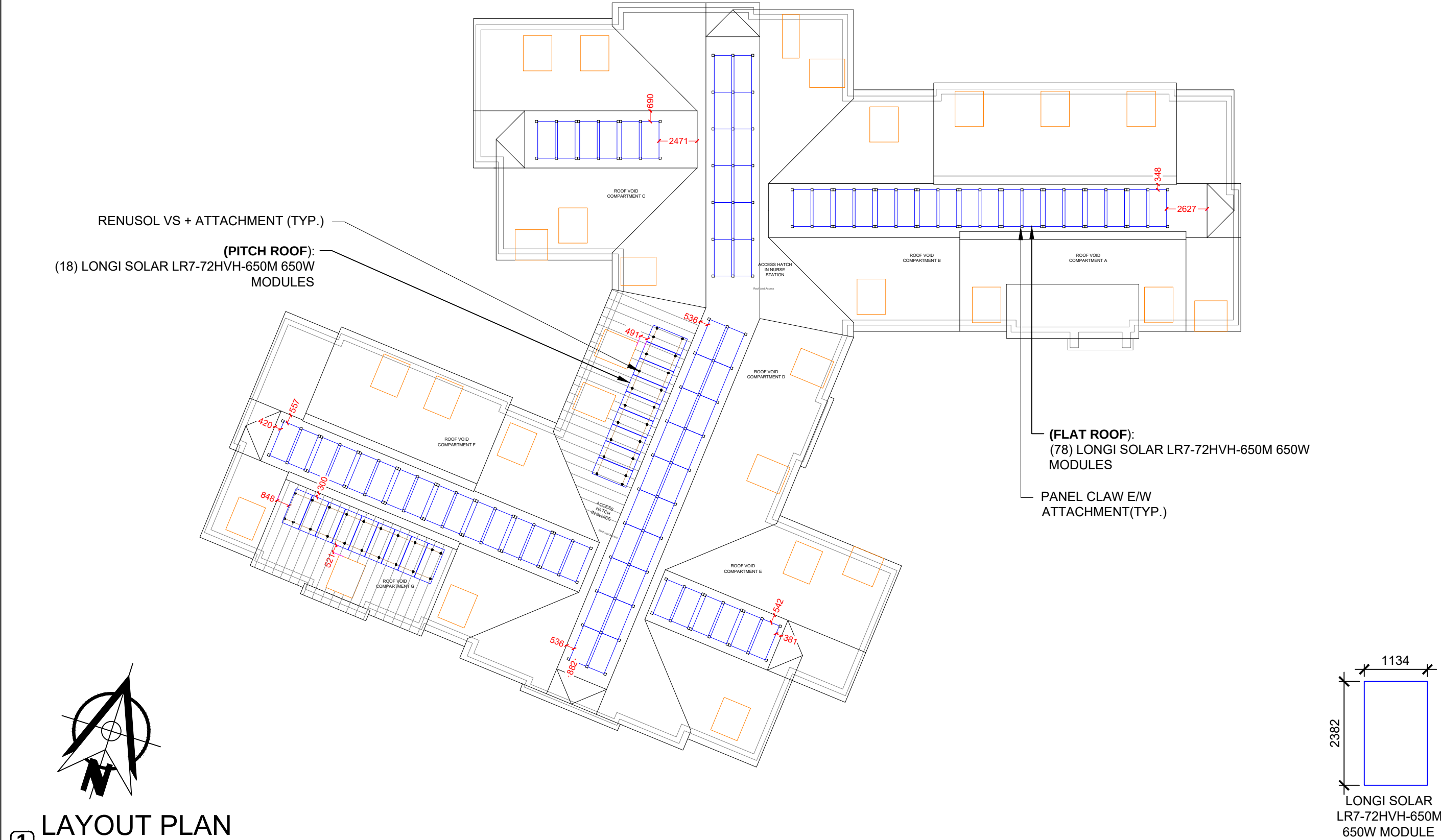
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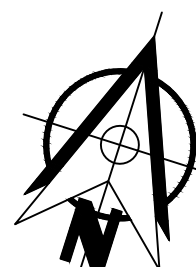
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LAYOUT PLAN
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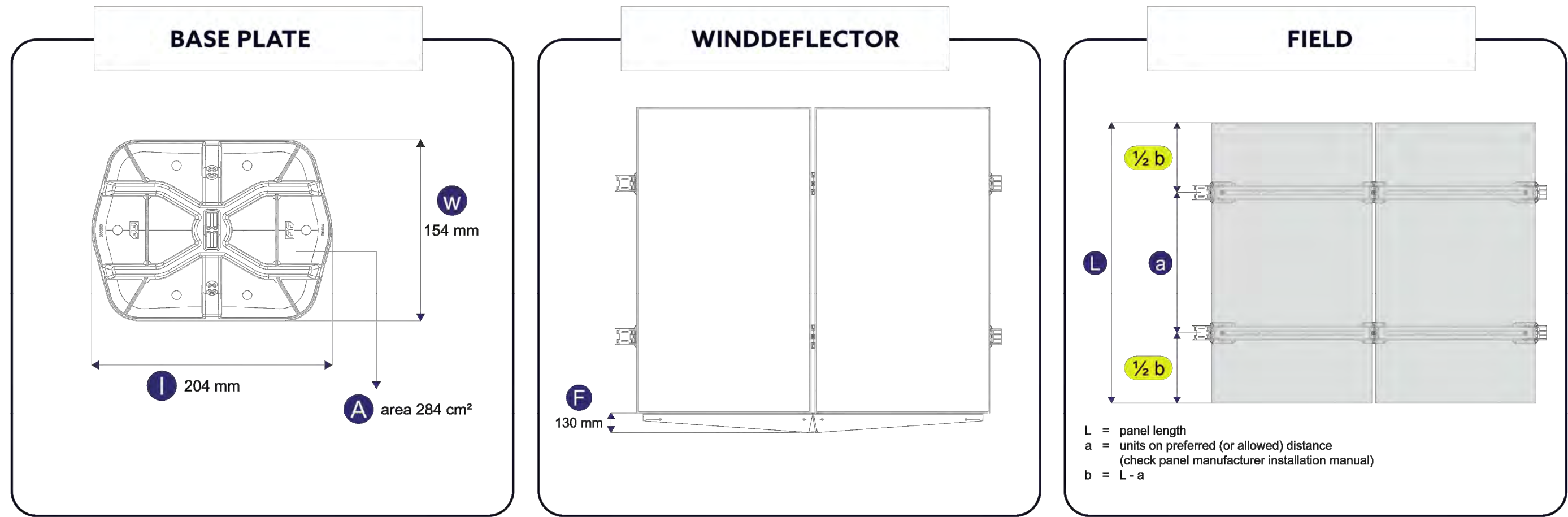


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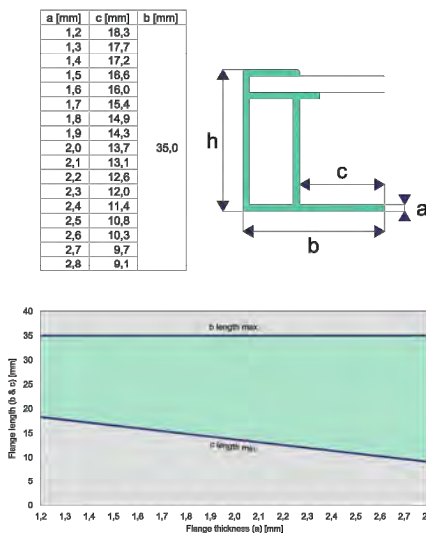
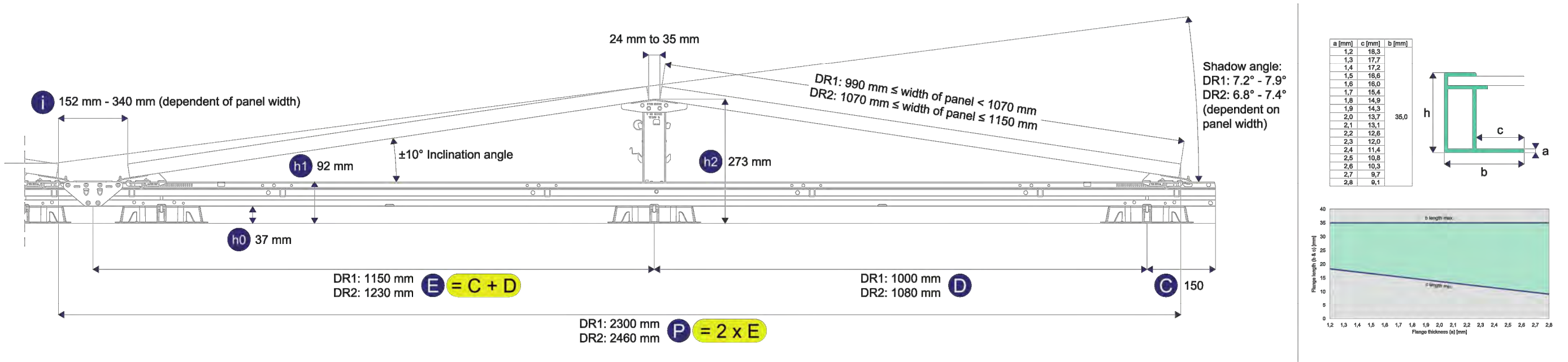
LAYOUT PLAN

SCALE: 1:250

System dimensions overview (mm)



Side view



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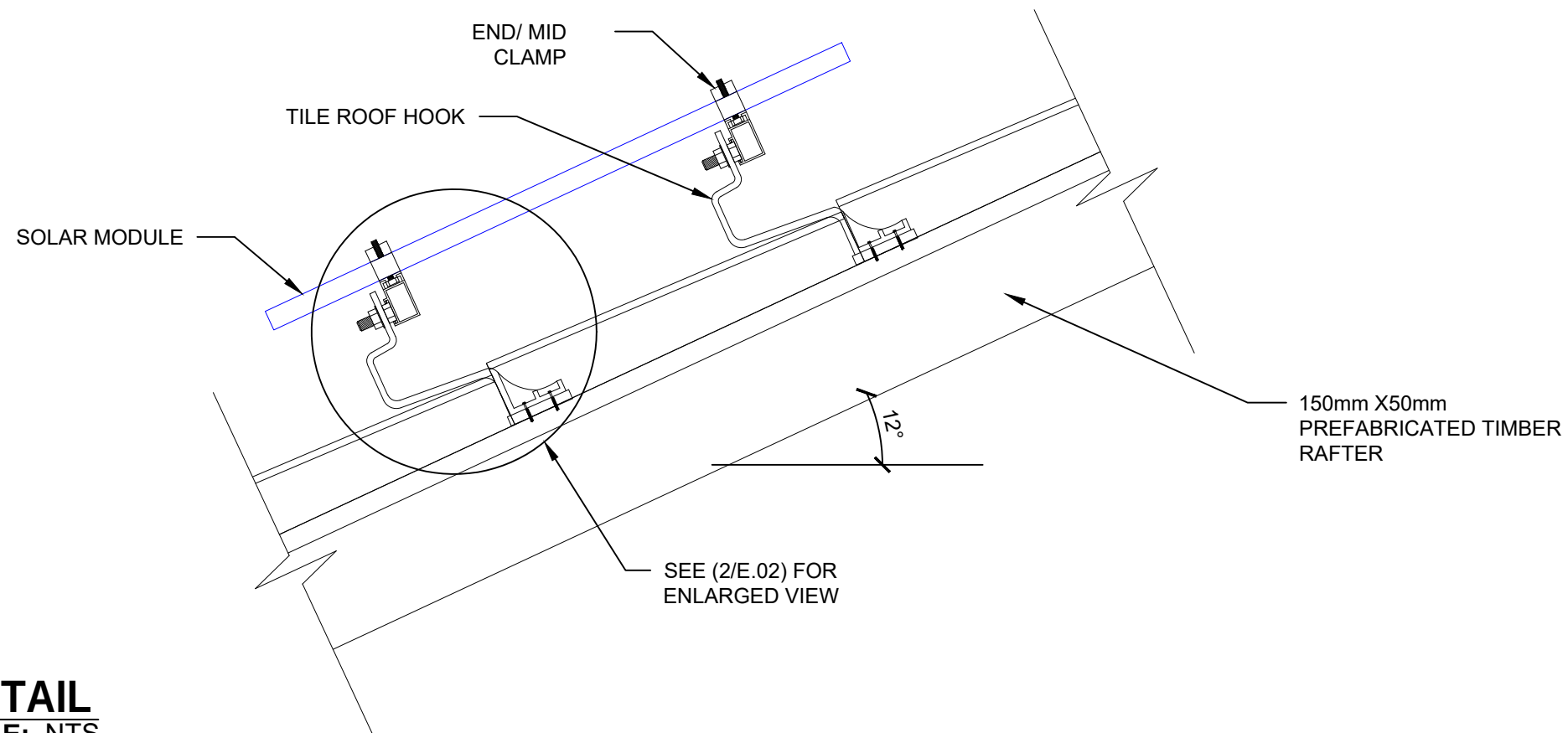
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DETAILS

SHEET SIZE

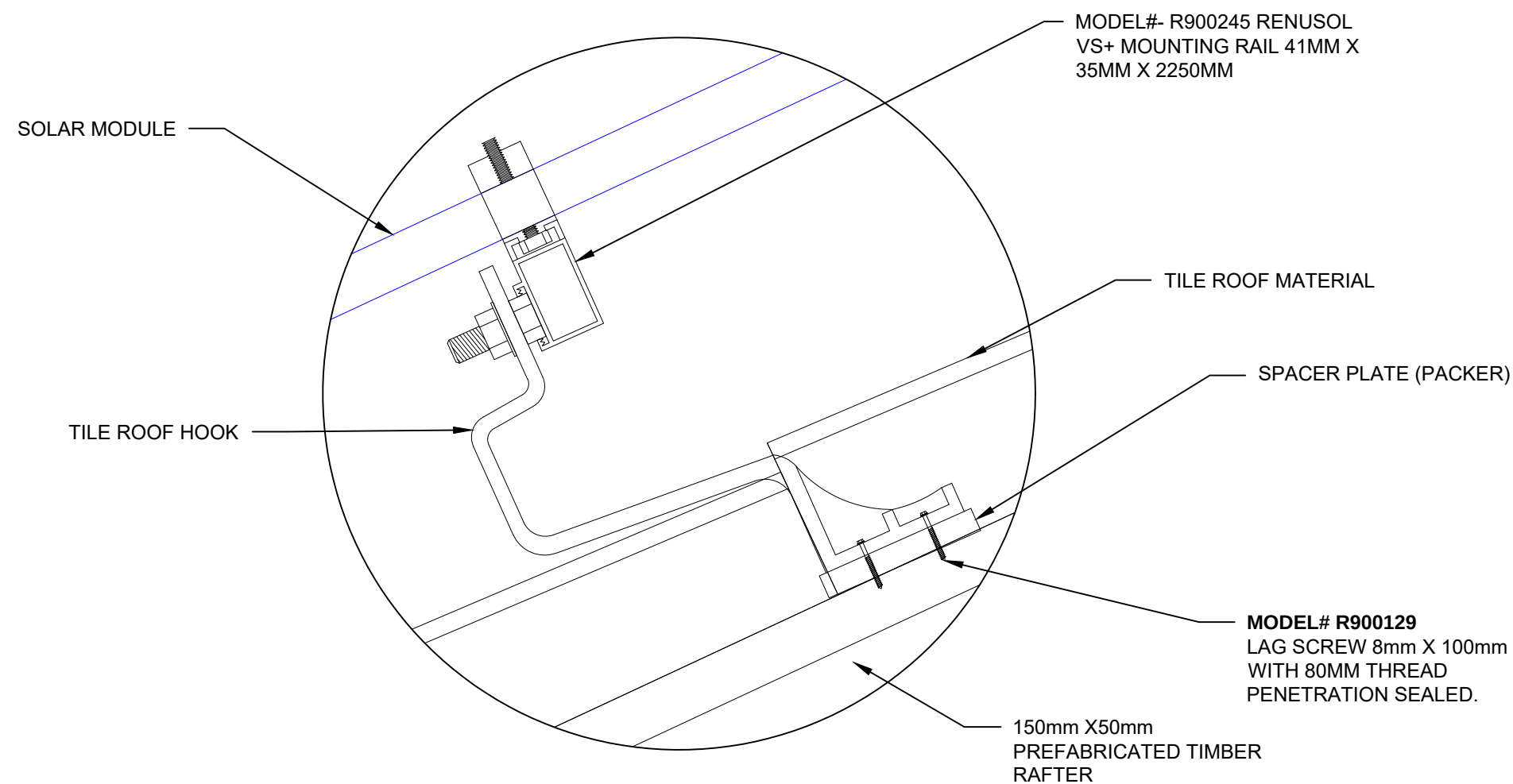
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S.00



SCALE: NTS



SCALE: NTS

SCALE: NTS

S.01

Hi-MO X10 Explorer

LR7-72HVH 630~650M

- Suitable for Distribution Market
- Highest efficiency with the best energy generation performance
- TaiRay wafer & BC technology enhances high product reliability
- Smart manufacturing & LONGi product lifecycle standards deliver exceptional product quality

15 15-year Warranty for Materials and Processing

30 30-year Warranty for Extra Linear Power Output

Complete System and Product Certifications

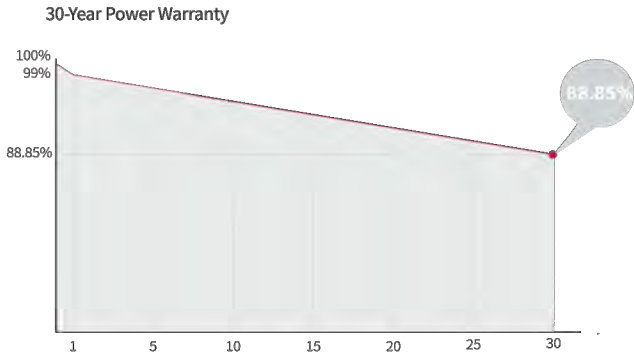
IEC 61215, IEC 61730, UL 61730
ISO9001:2015: ISO Quality Management System
ISO14001: 2015: ISO Environment Management System
ISO45001: 2018: Occupational Health and Safety
IEC62941: Guideline for module design qualification and type approval



Hi-MO X10 Explorer

24.1% MAX MODULE EFFICIENCY	0~3% POWER TOLERANCE	<1% FIRST YEAR POWER DEGRADATION	0.35% YEAR 2-30 POWER DEGRADATION	BC-CELL LOWER OPERATING TEMPERATURE
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Additional Value



Mechanical Parameters

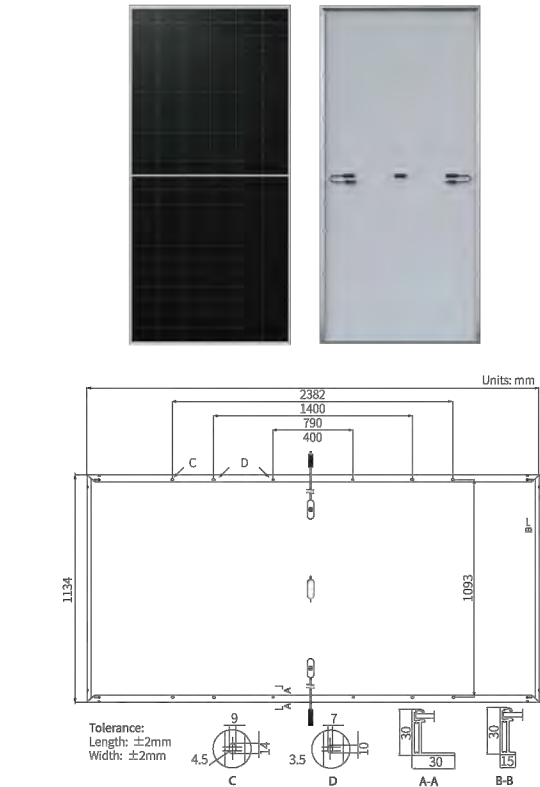
Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm/±1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	28.5kg
Dimension	2382×1134×30mm
Packaging	36pcs per pallet / 144pcs per 20' GP / 720pcs per 40' HC

Electrical Characteristics

Module Type	STC: AM1.5 1000W/m² 25°C		NOCT: AM1.5 800W/m² 20°C 1m/s		Test uncertainty for Pmax: ±3%	
	LR7-72HVH-630M	LR7-72HVH-635M	LR7-72HVH-640M	LR7-72HVH-645M	LR7-72HVH-650M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	630	480	635	483	640	487
Open Circuit Voltage (Voc/V)	53.50	50.84	53.60	50.94	53.70	51.04
Short Circuit Current (Isc/A)	14.97	12.02	15.05	12.09	15.13	12.15
Voltage at Maximum Power (Vmp/V)	44.16	41.96	44.26	42.06	44.36	42.15
Current at Maximum Power (Imp/A)	14.27	11.44	14.35	11.50	14.43	11.56
Module Efficiency(%)	23.3		23.5		23.7	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	IEC Class C



Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

Specifications included in this datasheet are subject to change without notice.
LONGi reserves the right of final interpretation. (20241118 BGV02 Draft)



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D.00

PROJECT SUPPORT

Technical advice

- Project design and ballast calculation
- Installation training on site

Extensive technical project documentation

- Ballast plan
- Electrotechnical safety (grounding and bonding)
- Roof load (snow and point load)

Logistical support

- Project-based delivery
- Express delivery



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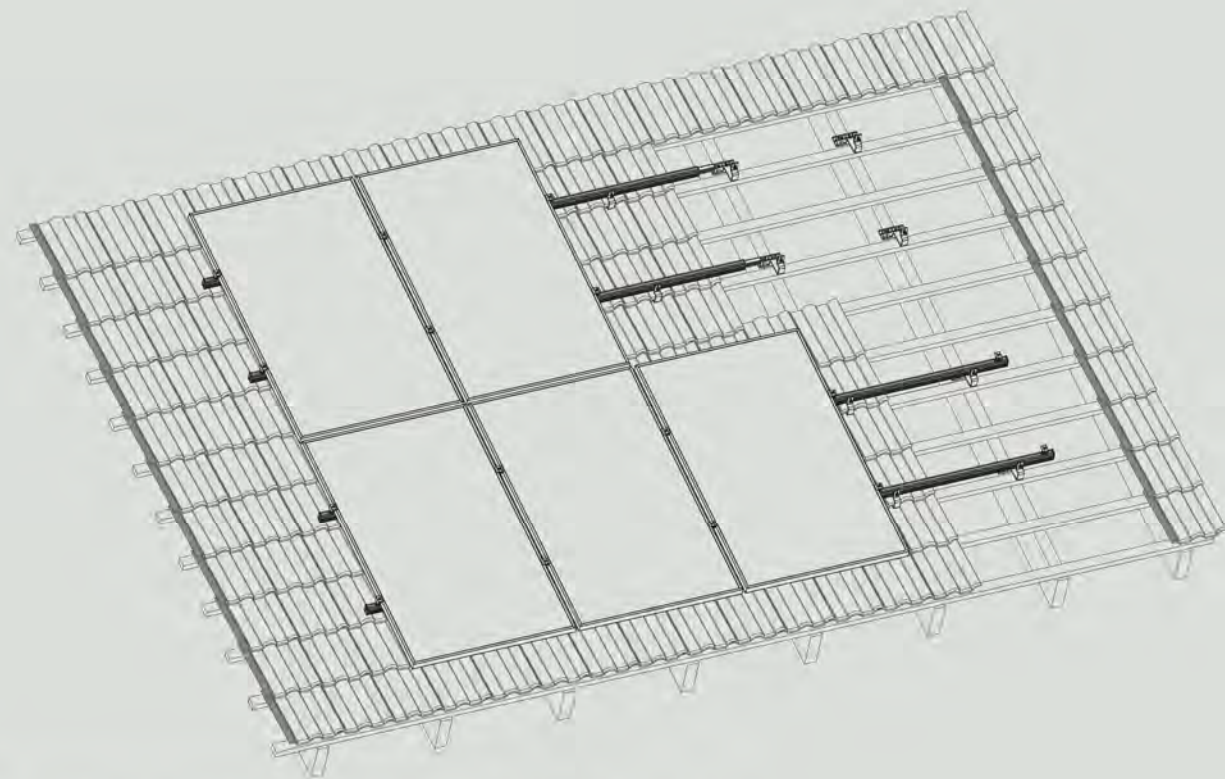
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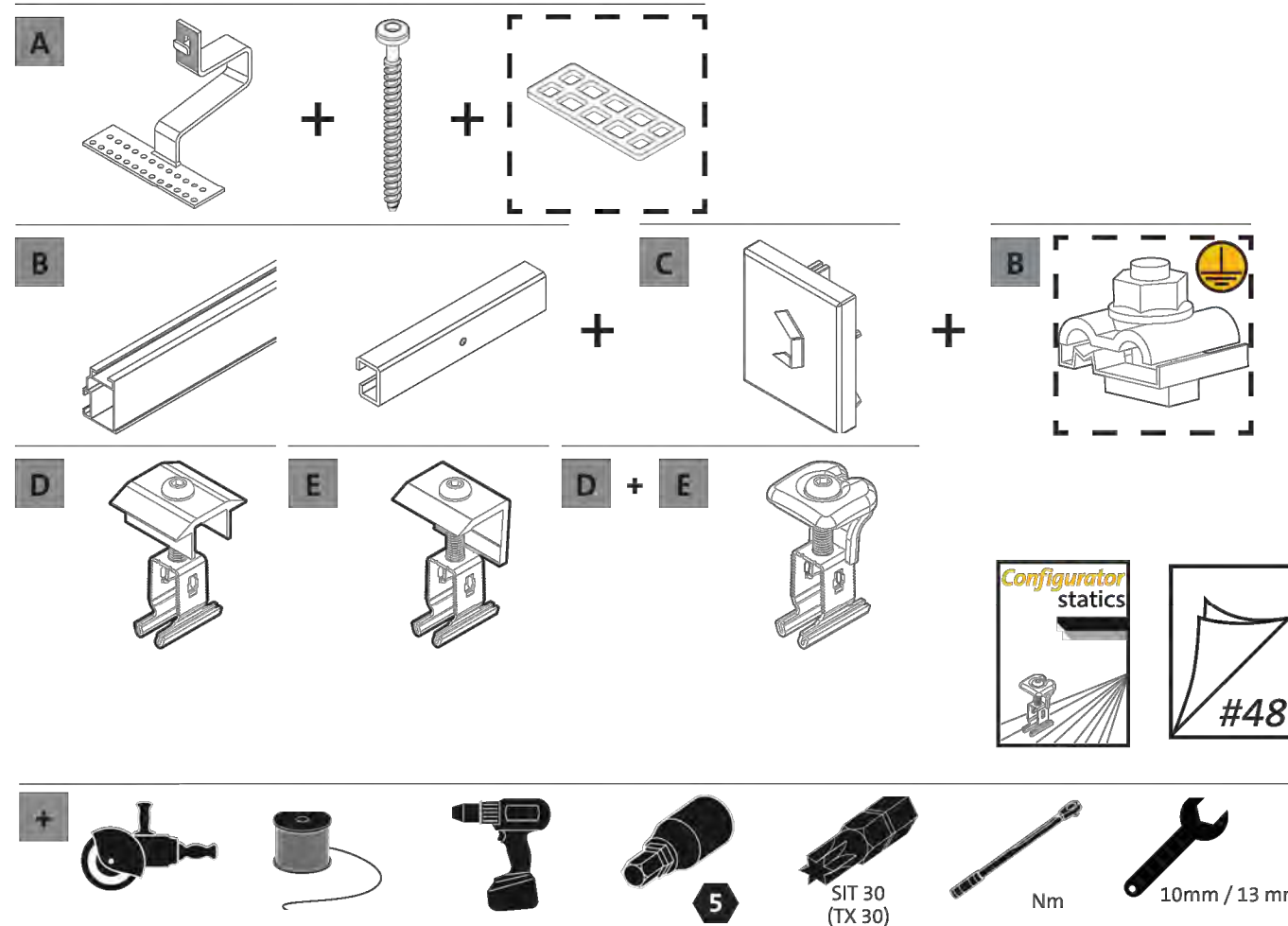
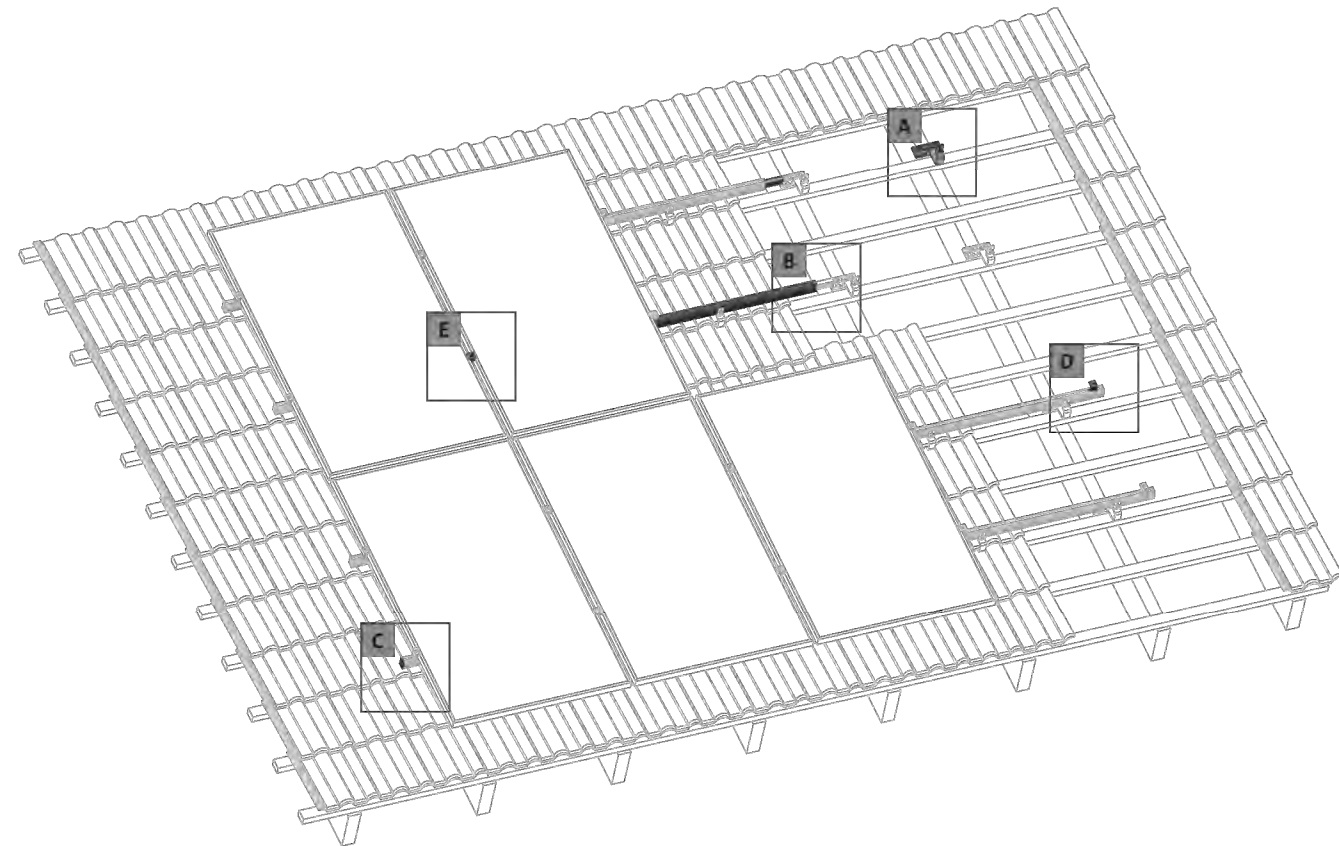
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DE | Read these installation instructions carefully before starting the installation!
Only competent, qualified persons are allowed to carry out the installation!

One-layer rail system - vertical module alignment - overview



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