REGAL LONDON Ryder

100-100A Chalk Farm Road
Planning Pre Commencement Condition Discharge
Condition 24

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BUSINESS
IN THE
COMMUNITY

Contents

Project number
11464:00

Document reference
CHALF-RYD-YY-RP-A-XXX.P1_Planning Pre Commencement Condition 24

Revision
P1

Date
17 April 2025

Author
Blerina Berisha

Checked by
Julie Hutchinson

This document has been designed to be viewed / printed A3 double sided.

Introduction

This information was previously granted approval on 27 November 2024, in accordance with the requirements outlined in the planning conditions of the planning application referenced as 2024/0479/P.
The following document has been prepared by Ryder Architecture on behalf of Regal London to illustrate the details in pursuance of discharging the planning condition noted below under planning application reference number 2024/0479/P.

Pre Commencement Condition 22: Solar PV

Prior to commencement of above ground works (other than demolition, site clearance and preparation), drawings, overshadowing assessment and data sheets aiming to maximise the provision of solar photovoltaics by showing the location, extent and energy generation capacity (at least 30.4kWp) and associated equipment to be installed on the building shall have been submitted to and approved by the local planning authority in writing. The measures shall include the installation of a meter to monitor the energy output from the approved renewable energy systems. A site specific lifetime maintenance schedule for each system, including safe roof access arrangements, shall be provided. The cells shall be installed in full accordance with the details approved by the local planning authority and permanently retained and maintained thereafter.

Reason: To ensure the development provides adequate on site renewable energy facilities in accordance with the requirements of policy CC1 (Climate change mitigation) of the London Borough of Camden Local Plan 2017.

Information

Evidence	Consultant
24. PV System Stage 2 Planning Information	London MEP

Regal London
4-5 Coleridge Gardens
London
London
NW6 3QH

Wednesday, 16 April 2025

Planning Condition 24 – Solar PV

Solar PV

Prior to commencement of above ground works (other than demolition, site clearance and preparation), drawings, overshadowing assessment and data sheets aiming to maximise the provision of solar photovoltaics by showing the location, extent and energy generation capacity (at least 30.4kWp) and associated equipment to be installed on the building shall have been submitted to and approved by the Local Planning Authority in writing. The measures shall include the installation of a meter to monitor the energy output from the approved renewable energy systems. A site-specific lifetime maintenance schedule for each system, including safe roof access arrangements, shall be provided. The cells shall be installed in full accordance with the details approved by the Local Planning Authority and permanently retained and maintained thereafter.

Reason: To ensure the development provides adequate on-site renewable energy facilities in accordance with the requirements of policy CC1 (Climate change mitigation) of the London Borough of Camden Local Plan 2017.

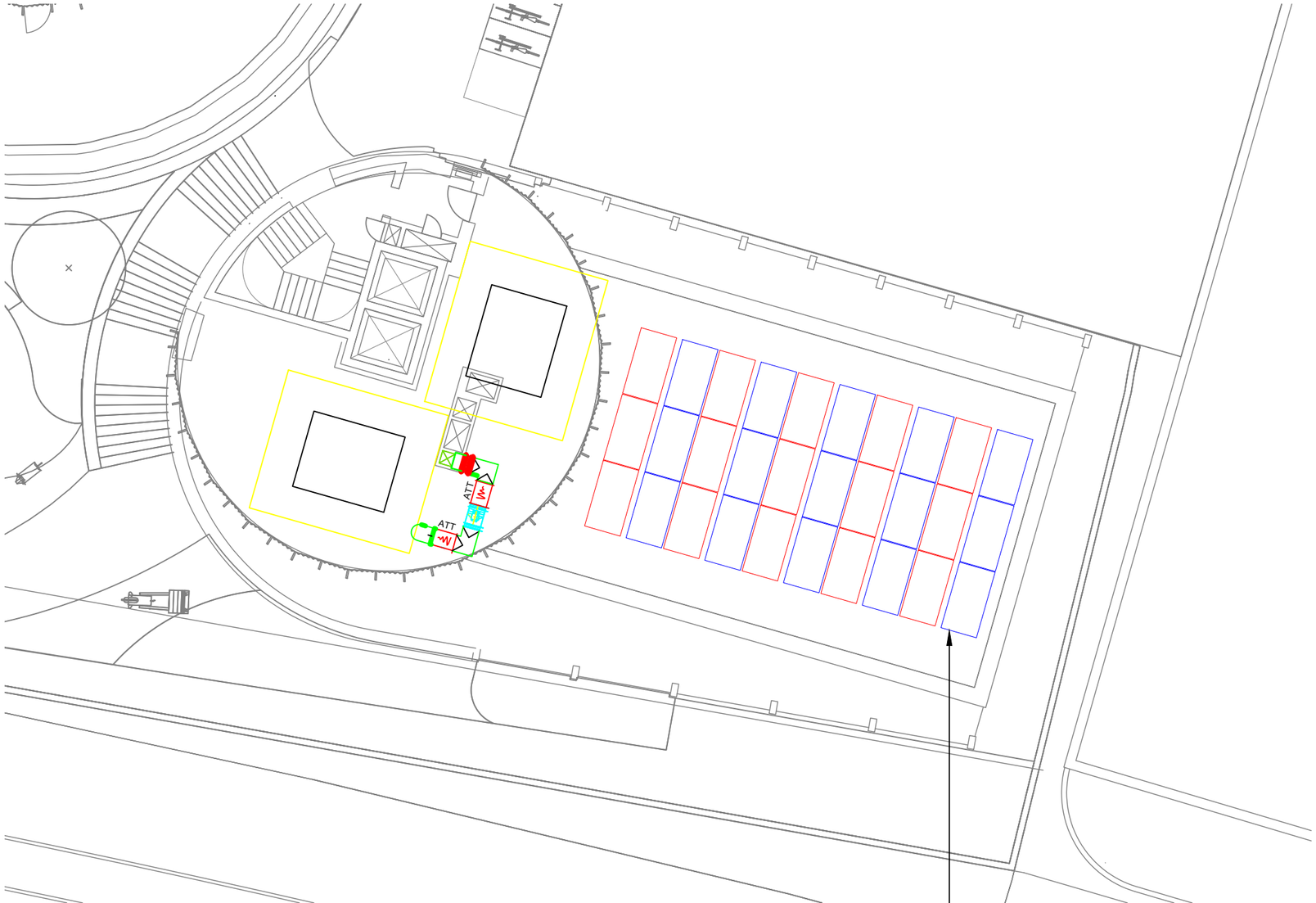
LMEP Comments:
Please see attached our design inline with the above.

Kind Regards,
Saul Green

0203 909 8880
info@londonmep.co.uk
www.londonmep.co.uk
London MEP Group Ltd, 7th Floor, Landmark House, 1 The Broadway, Loughton, Essex, IG10 2FA

PROJECT DESCRIPTION:	
SYSTEM SIZE	16.05KW DC STC
MODULE TYPE	(30) LONGI SOLAR LR5-66HTH-535M 535W

INDEX SHEET	
A.00	SITE PLAN
A.01	LAYOUT PLAN
S.00	FRAMING DETAILS
D.00-D01	SPECIFICATION SHEETS



SITE PLAN
1 SCALE: 1:150

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C6 SPECTRUM
BUSINESS ESTATE
ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(RESI ROOFS)

SHEET NAME

SITE PLAN

SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

A.00

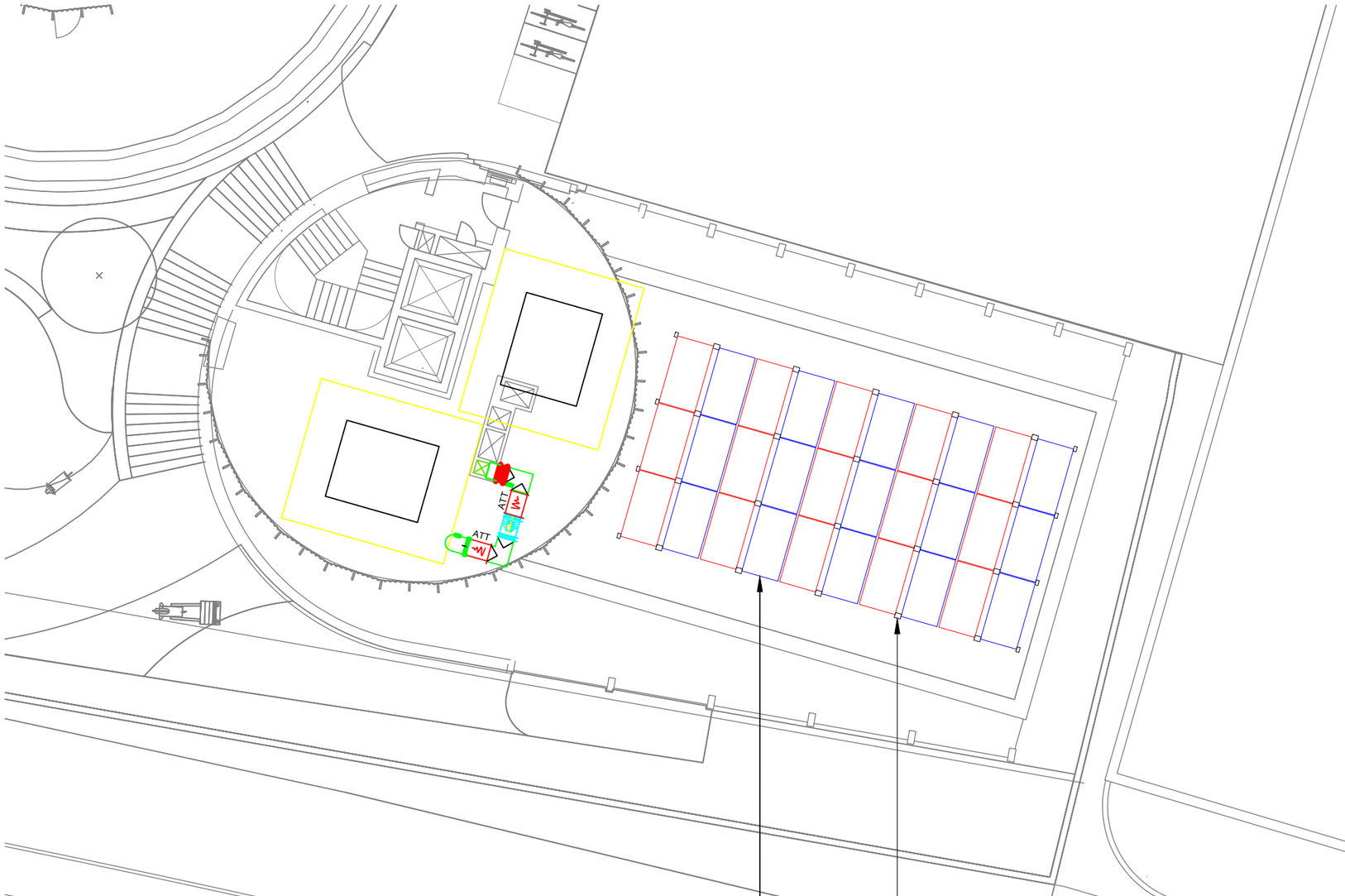
MODULES AREA & ROOF AREA CALC'S

# OF MODULES	MODULES AREA (Sq. Meter)	ROOF AREA (Sq. Meter)	ROOF AREA COVERED BY MODULES (%)
30	71.10	128.42	55.37

LEGENDS

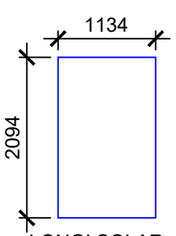
EAST FACING MODULE

WEST FACING MODULE



RENUSOL (FS PRO 10 - E/W)
ATTACHMENT (TYP.)

(30) LONGI SOLAR LR5-66HTH-535M
535W MODULES



LONGI SOLAR
LR5-66HTH-535M
535W MODULE

N

1 LAYOUT PLAN
SCALE: 1:150

EG SOLAR
Renewable Energy Specialists

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BUSINESS ESTATE
ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(RESI ROOFS)

SHEET NAME

LAYOUT PLAN

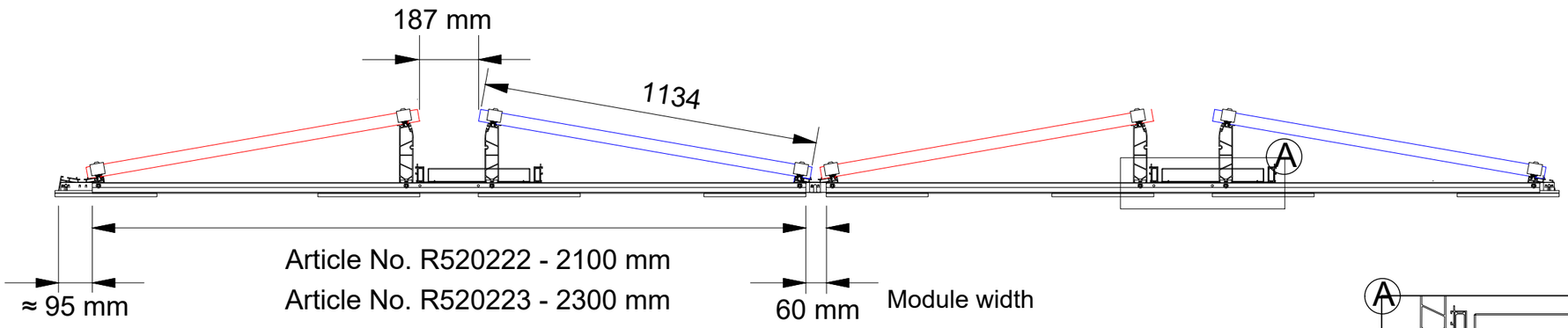
SHEET SIZE

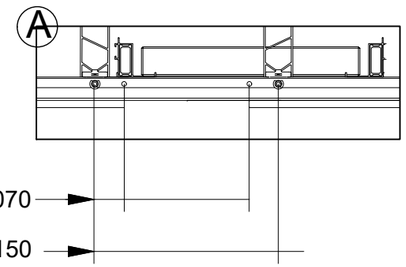
ANSI B
279 X 432

SHEET NUMBER

A.01

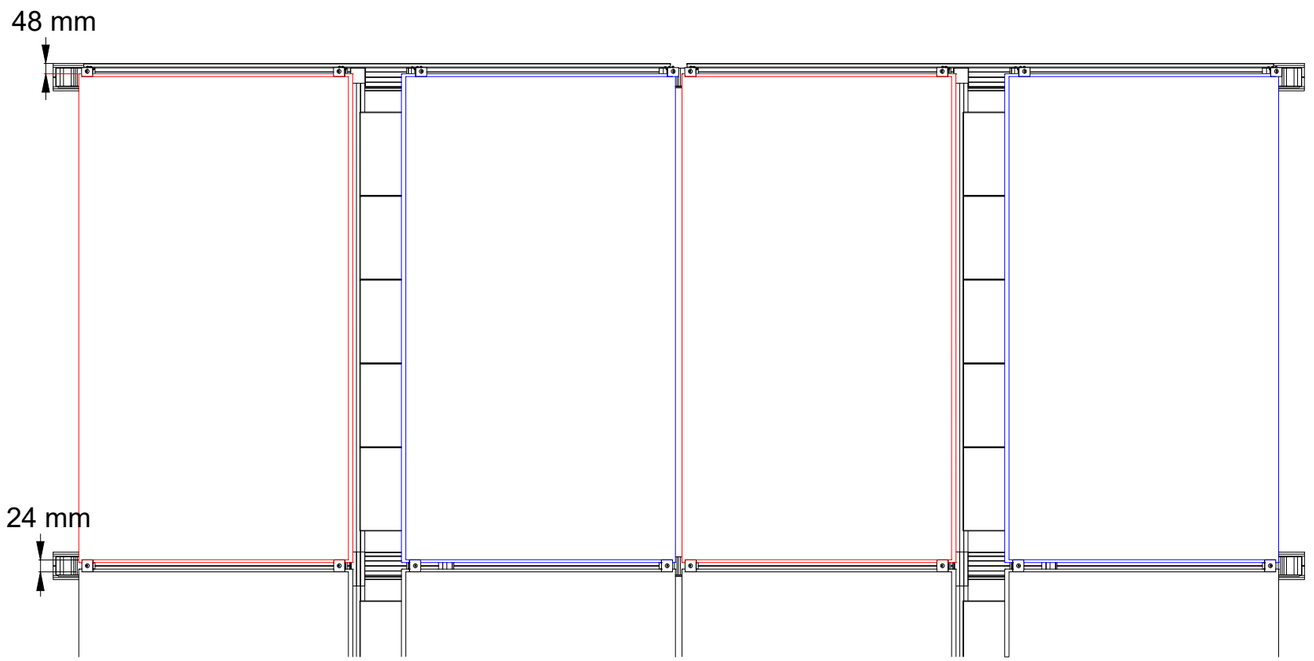
R520222/R520223 - 990-1.030/1.031-1.070





Details A

1 SIDE VIEW
SCALE: NTS



2 TOP VIEW
SCALE: NTS

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ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(RESI ROOFS)

SHEET NAME
FRAMING DETAILS

SHEET SIZE
ANSI B
279 X 432

SHEET NUMBER
S.00

Hi-MO 6
Explorer

LR5-66HTH
520~540M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability

25 25-year Warranty for Materials and Processing

25 25-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

LONGi

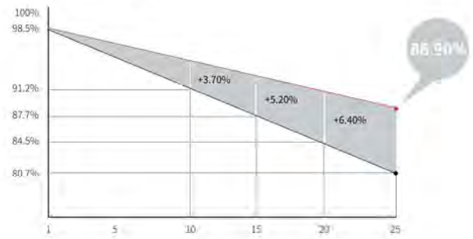
Hi-MO 6

LR5-66HTH 520~540M

22.7%	0~3%	<1.5%	0.40%
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION

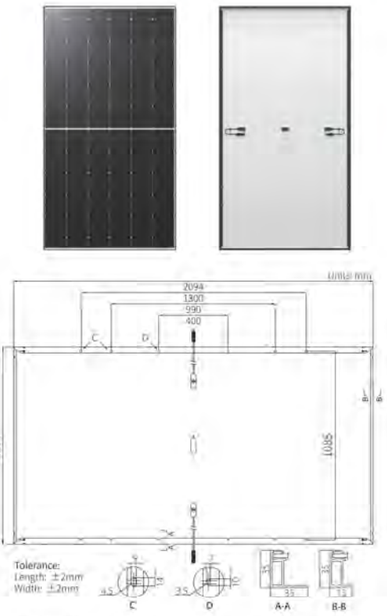
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm², ±1400mm length can be customized
Connector	EVO2
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.0kg
Dimension	2094×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 682pcs per 40' HC



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR5-66HTH-520M		LR5-66HTH-525M		LR5-66HTH-530M		LR5-66HTH-535M		LR5-66HTH-540M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	520	388.6	525	392.3	530	396.0	535	399.8	540	403.5
Open Circuit Voltage (Voc/V)	47.58	44.68	47.73	44.82	47.88	44.96	48.03	45.10	48.18	45.24
Short Circuit Current (Isc/A)	14.05	11.35	14.12	11.41	14.20	11.47	14.28	11.53	14.36	11.59
Voltage at Maximum Power (Vmp/V)	39.91	36.42	40.06	36.55	40.22	36.70	40.38	36.85	40.53	36.99
Current at Maximum Power (Imp/A)	13.03	10.68	13.11	10.74	13.18	10.80	13.25	10.86	13.33	10.92
Module Efficiency(%)	21.9		22.1		22.3		22.5		22.7	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 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	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

LONGi

No.8369 Shangyuan Road, Xi'an Economic And Technological Development Zone, Xi'an, Shaanxi, China
Web: www.longi.com

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C6 SPECTRUM BUSINESS ESTATE
ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(RESI ROOFS)

SHEET NAME

SPECIFICATION SHEET

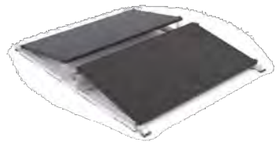
SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

D.00

Renusol Europe GmbH



System Datasheet

Renusol FS Pro 10-EW

General

System	Ballasted PV-mounting system
Content	Base rail with pre-assembled building protection, eaves support and ridge support, eaves support, module clamps
System warranty	10 years, 20 years with PV configurator design
Application area	Flat roof on industrial, agricultural (except hydrogen sulfide exposition) and residential buildings
Roof covering	Bitumen, concrete, foil, gravel, trapezoidal sheet metal
Roof slope	max. 5° without additional measures

Montagevariante

FS Pro 10-EW

You can find further mounting options at www.renusol.com. The Renusol FS Pro 10-EW is available as a system with three rails, as portrait mounting, with a clamp on the long side, as well as a fixed version on trapezoidal sheet metal and roof-penetrating with third-party products.

System properties

System orientation	East-West
Module tilt	10°
System weight approx.	1,15 kg/m²plus ballast (project specific)
Weight PV-module included approx.	11,8 kg/m²plus ballast (project specific)
Friction coefficient approx.	μ =0,5 is to be determined and ensured upon installation surface.
Material	Aluminium, stainless steel, galvanised sheet steel, PC, PE
Minimum edge distance	0,6 m
Max. Wind Dynamic Pressure	q_P=1,5 kN/m² (with simultaneously acting snow load of s_K=1,5 kN/m²)
Max. Wind Dynamic Pressure	q_P=1,0 kN/m² (with simultaneously acting snow load of s_K=2,5 kN/m²)
Maximum snow load	s_d=2,0 kN/m² for 2 floor rails
Maximum snow load	s_d=3,0 kN/m² for 3 floor rails

Modules

Type	Framed modules. Approval for clamping in the corner area to be provided by the customer
Module width	R520222: 990-1.070 mm, R520223: 1.071-1.150 mm, R520229: 1.180-1.310 mm
Module guidance	Horizontal

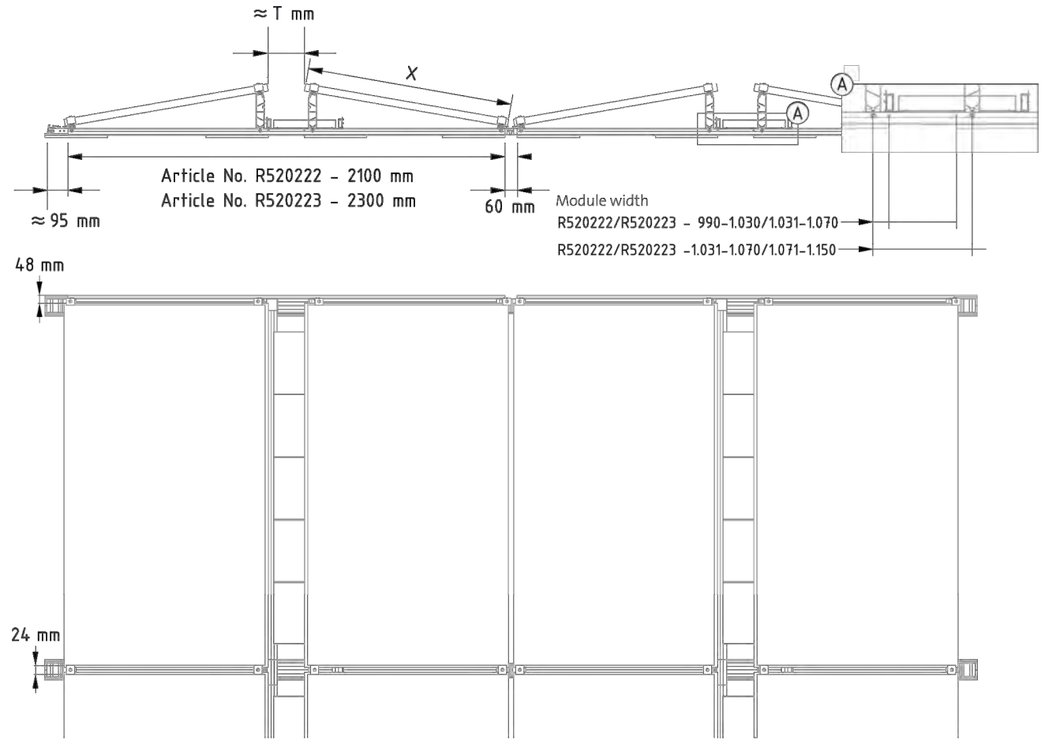
Certifications& Services

Wind loads	Determined in wind tunnel tests by I.F.I Institut für Industrieaerodynamik GmbH
Fire behaviour	Classification: E (DIN EN 13 501-1) / Identification no. 0672
PV layout & Ballast plan	Provided by Renusol PV Configurator (www.pv-configurator.com)

Renusol Europe GmbH

System Datasheet

Renusol FS Pro 10 EW



Rail length	R520222 - **2100 mm**	
Row spacing		2160 mm
Module width	X:	Min: 990 mm
		Max: 1070 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S(X):	≈ Min: 8,7°

Rail length	R520223 - **2300 mm**	
Row spacing		2360 mm
Module width	X:	Min: 1071 mm
		Max: 1.150 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S:	≈ Min: 8,7°

FS-Pro 10 EW 10|01|2024-V1
EN | Renusol System Datasheet
Misprints and errors, technical or other changes and changes in the availability of products are expressively reserved

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ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(RESI ROOFS)

SHEET NAME

SPECIFICATION SHEET

SHEET SIZE

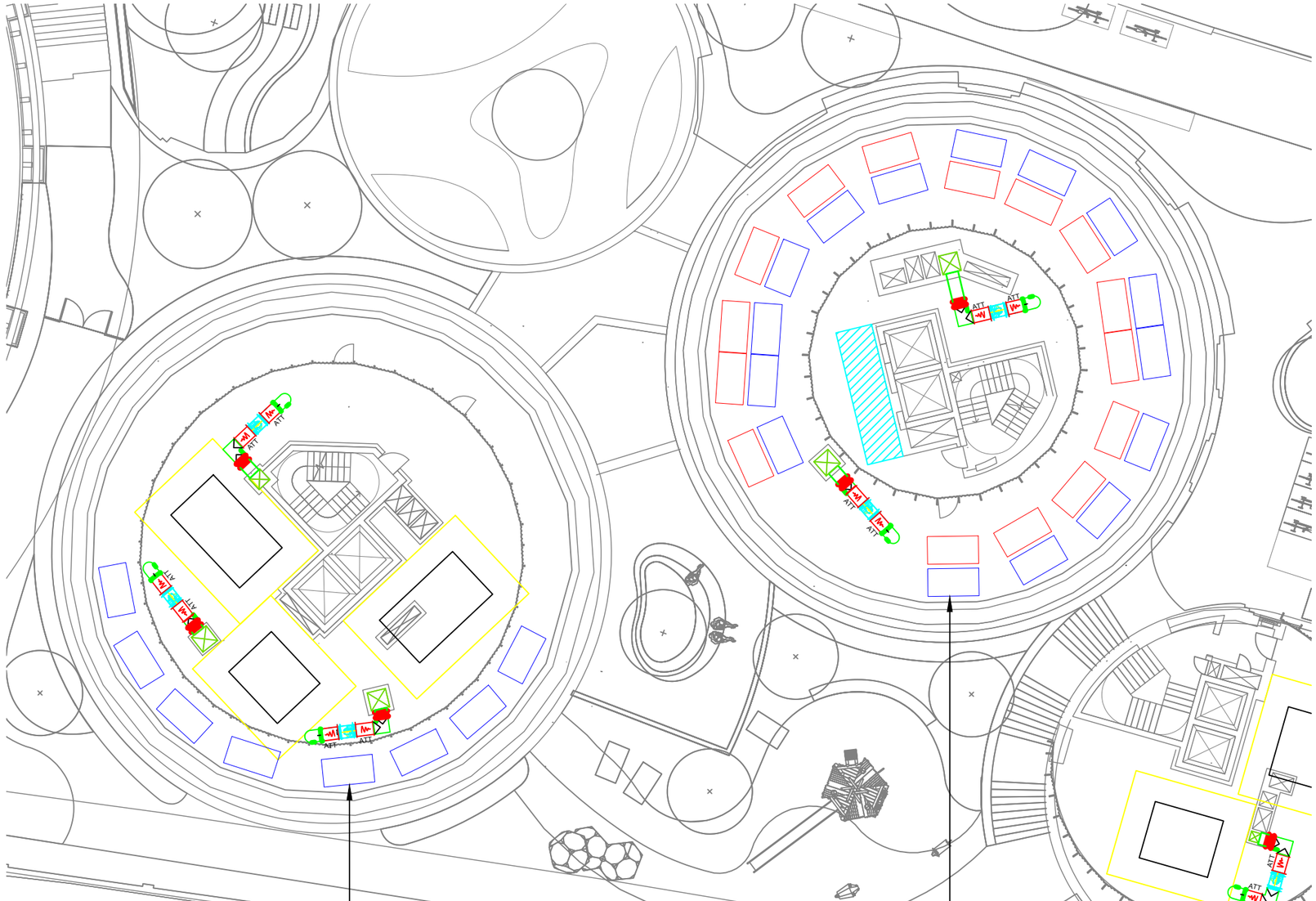
ANSI B
279 X 432

SHEET NUMBER

D.01

PROJECT DESCRIPTION:	
SYSTEM SIZE	20.33KW DC STC
MODULE TYPE	(38) LONGI SOLAR LR5-66HTH-535M 535W

INDEX SHEET	
A.00	SITE PLAN
A.01	LAYOUT PLAN
S.00	FRAMING DETAILS
D.00-D01	SPECIFICATION SHEETS



ARRAY 01: (08) LONGI SOLAR
LR5-66HTH-535M 535W MODULES

ARRAY 01: (30) LONGI SOLAR
LR5-66HTH-535M 535W MODULES

N

1 SITE PLAN
SCALE: 1:200

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BUSINESS ESTATE
ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(STUDENT ROOFS)

SHEET NAME

SITE PLAN

SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

A.00

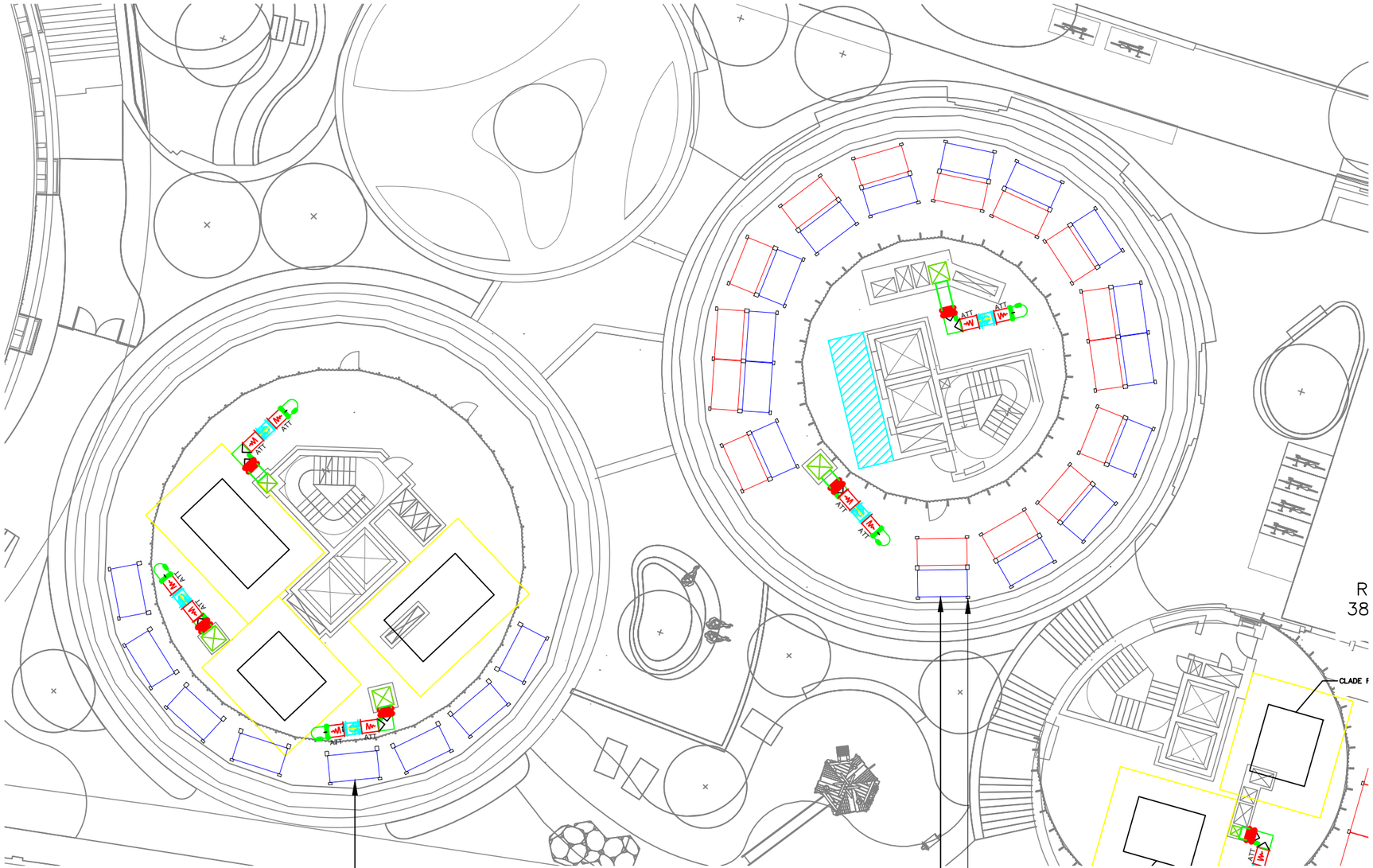
MODULES AREA & ROOF AREA CALC'S

# OF MODULES	MODULES AREA (Sq. Meter)	ROOF AREA (Sq. Meter)	ROOF AREA COVERED BY MODULES (%)
38	90.06	602.76	14.94

LEGENDS

EAST FACING MODULE

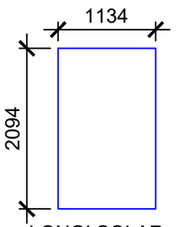
WEST FACING MODULE



ARRAY 01: (08) LONGI SOLAR
LR5-66HTH-535M 535W MODULES

RENUSOL (FS PRO 10 - E/W)
ATTACHMENT (TYP.)

ARRAY 01: (30) LONGI SOLAR
LR5-66HTH-535M 535W MODULES



LONGI SOLAR
LR5-66HTH-535M
535W MODULE

N

1 LAYOUT PLAN
SCALE: 1:200

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BUSINESS ESTATE
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ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
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CHALK FARM ROAD
(STUDENT ROOFS)

SHEET NAME

LAYOUT PLAN

SHEET SIZE

ANSI B
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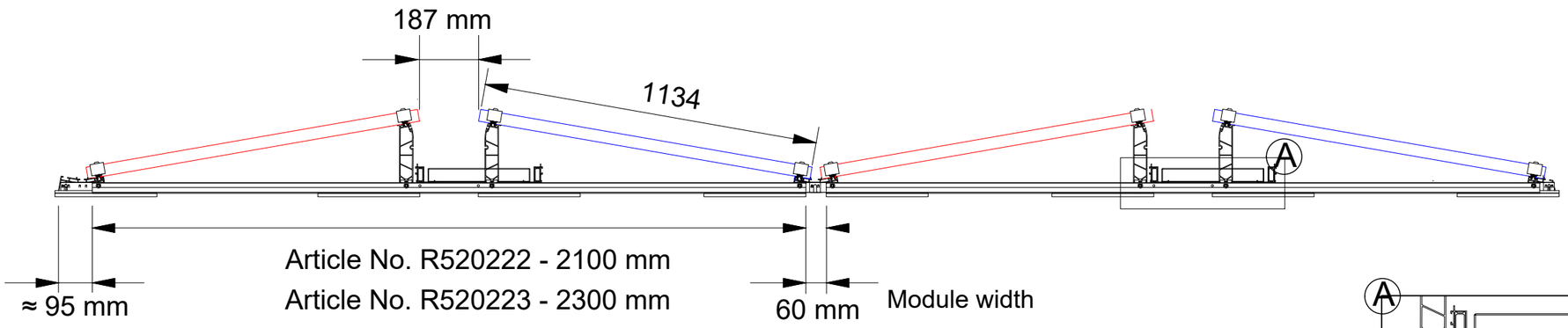
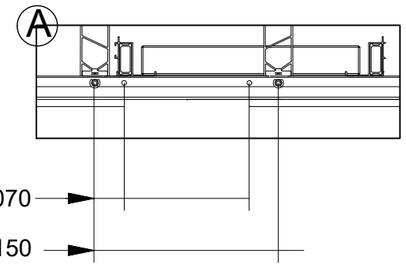
SHEET NUMBER

A.01

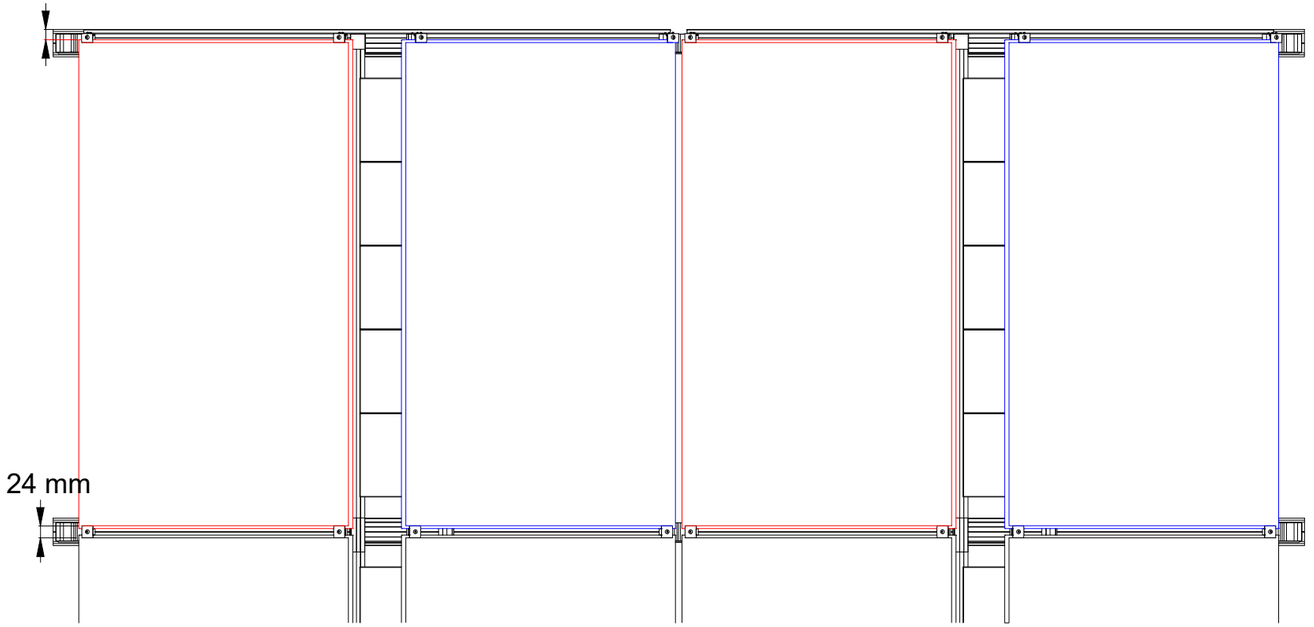
R520222/R520223 - 990-1.030/1.031-1.070





Details A

1 SIDE VIEW
SCALE: NTS



2 TOP VIEW
SCALE: NTS

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ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(STUDENT ROOFS)

SHEET NAME
FRAMING DETAILS

SHEET SIZE
ANSI B
279 X 432

SHEET NUMBER
S.00

Hi-MO 6
Explorer

LR5-66HTH
520~540M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability

25 25-year Warranty for Materials and Processing

25 25-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

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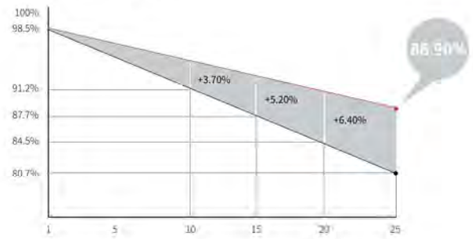
Hi-MO 6

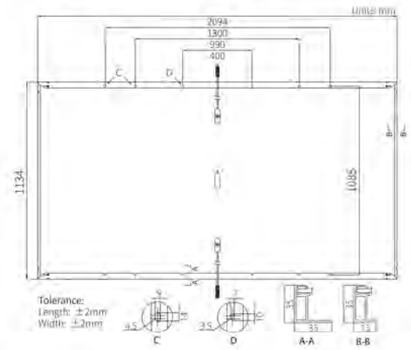
LR5-66HTH 520~540M

22.7%	0~3%	<1.5%	0.40%
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION

Additional Value

25-Year Power Warranty





Mechanical Parameters

Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm², ±1400mm length can be customized
Connector	EVO2
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.0kg
Dimension	2094×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 682pcs per 40' HC

Electrical Characteristics

STC : AM1.5 1000W/m² 25°C NOCT : AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax: ±3%

Module Type	LR5-66HTH-520M		LR5-66HTH-525M		LR5-66HTH-530M		LR5-66HTH-535M		LR5-66HTH-540M	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	520	388.6	525	392.3	530	396.0	535	399.8	540	403.5
Open Circuit Voltage (Voc/V)	47.58	44.68	47.73	44.82	47.88	44.96	48.03	45.10	48.18	45.24
Short Circuit Current (Isc/A)	14.05	11.35	14.12	11.41	14.20	11.47	14.28	11.53	14.36	11.59
Voltage at Maximum Power (Vmp/V)	39.91	36.42	40.06	36.55	40.22	36.70	40.38	36.85	40.53	36.99
Current at Maximum Power (Imp/A)	13.03	10.68	13.11	10.74	13.18	10.80	13.25	10.86	13.33	10.92
Module Efficiency(%)	21.9		22.1		22.3		22.5		22.7	

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2 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	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

LONGi

No.8369 Shangyuan Road, Xi'an Economic And Technological Development Zone, Xi'an, Shaanxi, China
Web: www.longi.com

EG SOLAR
Renewable Energy Specialists

C6 SPECTRUM BUSINESS ESTATE
ANTHONYS WAY,
ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(STUDENT ROOFS)

SHEET NAME

SPECIFICATION SHEET

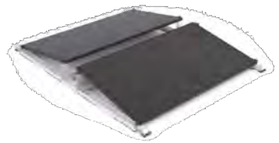
SHEET SIZE

ANSI B
279 X 432

SHEET NUMBER

D.00

Renusol Europe GmbH



System Datasheet

Renusol FS Pro 10-EW

General

System	Ballasted PV-mounting system
Content	Base rail with pre-assembled building protection, eaves support and ridge support, eaves support, module clamps
System warranty	10 years, 20 years with PV configurator design
Application area	Flat roof on industrial, agricultural (except hydrogen sulfide exposition) and residential buildings
Roof covering	Bitumen, concrete, foil, gravel, trapezoidal sheet metal
Roof slope	max. 5° without additional measures

Montagevariante

FS Pro 10-EW

You can find further mounting options at www.renusol.com. The Renusol FS Pro 10-EW is available as a system with three rails, as portrait mounting, with a clamp on the long side, as well as a fixed version on trapezoidal sheet metal and roof-penetrating with third-party products.

System properties

System orientation	East-West
Module tilt	10°
System weight approx.	1,15 kg/m²plus ballast (project specific)
Weight PV-module included approx.	11,8 kg/m²plus ballast (project specific)
Friction coefficient approx.	μ =0,5 is to be determined and ensured upon installation surface.
Material	Aluminium, stainless steel, galvanised sheet steel, PC, PE
Minimum edge distance	0,6 m
Max. Wind Dynamic Pressure	q_P=1,5 kN/m² (with simultaneously acting snow load of s_K=1,5 kN/m²)
Max. Wind Dynamic Pressure	q_P=1,0 kN/m² (with simultaneously acting snow load of s_K=2,5 kN/m²)
Maximum snow load	s_d=2,0 kN/m² for 2 floor rails
Maximum snow load	s_d=3,0 kN/m² for 3 floor rails

Modules

Type	Framed modules. Approval for clamping in the corner area to be provided by the customer.
Module width	R520222: 990-1.070 mm, R520223: 1.071-1.150 mm, R520229: 1.180-1.310 mm
Module guidance	Horizontal

Certifications& Services

Wind loads	Determined in wind tunnel tests by I.F.I Institut für Industrieaerodynamik GmbH
Fire behaviour	Classification: E (DIN EN 13 501-1) / Identification no. 0672
PV layout & Ballast plan	Provided by Renusol PV Configurator (www.pv-configurator.com)

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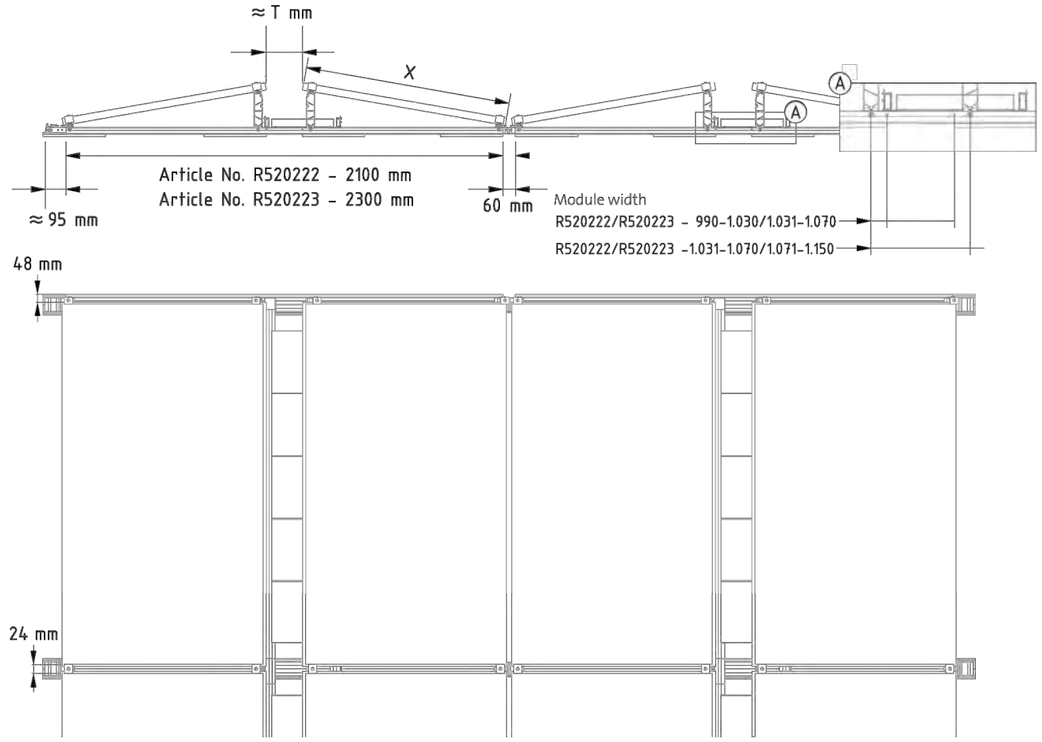
System Datasheet

Renusol FS Pro 10 EW



Rail length	R520222 - **2100 mm**	
Row spacing		2160 mm
Module width	X:	Min: 990 mm
		Max: 1070 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S(X):	≈ Min: 8,7°

Rail length	R520223 - **2300 mm**	
Row spacing		2360 mm
Module width	X:	Min: 1071 mm
		Max: 1.150 mm
Passageway	T:	Min: 17 mm
		Max: 187 mm
System width		Module length + 65 mm
Shading angle	S:	≈ Min: 8,7°

FS-Pro 10 EW 10|01|2024-V1
EN | Renusol System Datasheet
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EGSOLAR
Renewable Energy Specialists

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ROCHESTER, KENT
ME2 4NP

PRO.DATE	11/04/2025
DESIGN BY	DR
CHECKED BY	JD

PROJECT NAME

CHALK FARM ROAD
(STUDENT ROOFS)

SHEET NAME

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SHEET SIZE

ANSI B
279 X 432

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D.01

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