



RIBBLE VALLEY
BOROUGH COUNCIL

22 SEP 2011

FOR THE
ATTENTION OF

For office use only

Application No

Date received

Fee paid £

Receipt No:

320110769P

Council Offices, Church Walk, Clitheroe, Lancashire. BB7 2RA Tel: 01200 425111 www.ribblevalley.gov.uk

Application for Planning Permission. Town and Country Planning Act 1990

Publication of planning applications on council websites

Please note that with the exception of applicant contact details and Certificates of Ownership, the information provided on this application form and in supporting documents may be published on the council's website.

If you have provided any other information as part of your application which falls within the definition of personal data under the Data Protection Act which you do not wish to be published on the council's website, please contact the council's planning department.

Please complete using block capitals and black ink.

It is important that you read the accompanying guidance notes as incorrect completion will delay the processing of your application.

1. Applicant Name and Address

Title: MR First name: PETER
Last name: MARGERISON
Company (optional):
Unit: House number: House suffix:
House name: LOW FARM
Address 1: RIBCHESTER ROAD
Address 2: CLAYTON-LE-DALE
Address 3:
Town: BLACKBURN
County: LANCASHIRE
Country: ENGLAND
Postcode: BB1 9EE

2. Agent Name and Address

Title: First name:
Last name:
Company (optional):
Unit: House number: House suffix:
House name:
Address 1:
Address 2:
Address 3:
Town:
County:
Country:
Postcode:

3. Description of the Proposal

Please describe the proposed development, including any change of use:

INSTALLATION OF A 10KW SOLAR PV PANEL SYSTEM
~~AS PER ATTACHED DRAWING FOR APPROVAL~~ TO
SOUTH FACING ROOF SLOPE OF EXISTING
POULTRY BUILDING

Has the building, work or change of use already started?

☐ Yes

☒ No

If Yes, please state the date when building, work or use were started (DD/MM/YYYY):

(date must be pre-application submission)

Has the building, work or change of use been completed?

☐ Yes

☒ No

If Yes, please state the date when the building, work or change of use was completed: (DD/MM/YYYY):

(date must be pre-application submission)

4. Site Address Details

Please provide the full postal address of the application site

Unit: House number: House suffix:

House name: LOW FARM

Address 1: RIBCHESTER ROAD

Address 2: CLAYTON-LE-DALE

Address 3:

Town: BLACKBURN

County: LANCASHIRE

Postcode (optional): BB1 9EE

Description of location or a grid reference.
(must be completed if postcode is not known):

Easting: Northing:

Description:

5. Pre-application Advice

Has assistance or prior advice been sought from the local authority about this application? ☐ Yes ☒ No

If Yes, please complete the following information about the advice you were given. (This will help the authority to deal with this application more efficiently)

Please tick if the full contact details are not known, and then complete as much as possible: ☐

Officer name:

Reference:

Date (DD/MM/YYYY):
(must be pre-application submission)

Details of pre-application advice received?

6. Pedestrian and Vehicle Access, Roads and Rights of Way

Is a new or altered vehicle access proposed to or from the public highway? ☐ Yes ☒ No

Is a new or altered pedestrian access proposed to or from the public highway? ☐ Yes ☒ No

Are there any new public roads to be provided within the site? ☐ Yes ☒ No

Are there any new public rights of way to be provided within or adjacent to the site? ☐ Yes ☒ No

Do the proposals require any diversions /extinguishments and/or creation of rights of way? ☐ Yes ☒ No

If you answered Yes to any of the above questions, please show details on your plans/drawings and state the reference of the plan(s)/drawings(s)

8. Neighbour and Community Consultation

Have you consulted your neighbours or the local community about the proposal? ☐ Yes ☒ No

If Yes, please provide details:

9. Council Employee / Member

Is the applicant or agent related to any member of staff or elected member of the council? ☐ Yes ☒ No

If Yes, please provide details:

12. Foul Sewage

Please state how foul sewage is to be disposed of:

- ☐ Mains sewer
 ☐ Cess pit
☐ Septic tank
 ☐ Other
☐ Package treatment plant

Are you proposing to connect to the existing drainage system? ☐ Yes ☐ No

If Yes, please include the details of the existing system on the application drawings and state references for the plan(s)/drawing(s):

13. Assessment of Flood Risk

Is the site within an area at risk of flooding? (Refer to the Environment Agency's Flood Map showing flood zones 2 and 3 and consult Environment Agency standing advice and your local planning authority requirements for information as necessary)

☐ Yes ☒ No

If Yes, you will need to submit a Flood Risk Assessment to consider the risk to the proposed site

Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)? ☐ Yes ☒ NoWill the proposal increase the flood risk elsewhere? ☐ Yes ☒ No

How will surface water be disposed of?

- ☐ Sustainable drainage system
 ☐ Existing watercourse
☐ Soakaway
 ☐ Pond/lake
☐ Main sewer

14. Biodiversity and Geological Conservation

Is there a reasonable likelihood of the following being affected adversely or conserved and enhanced within the application site, or on land adjacent to or near the application site?

a) Protected and priority species:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

b) Designated sites, important habitats or other biodiversity features:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

c) Features of geological conservation importance:

- ☐ Yes, on the development site
☐ Yes, on land adjacent to or near the proposed development
☒ No

15. Existing Use

Please describe the current use of the site:

POULTRY REARING HOUSE

Is the site currently vacant? ☐ Yes ☒ No

If Yes, please describe the last use of the site:

 When did this use end (if known)?
 DD/MM/YYYY
 (date where known may be approximate)

Does the proposal involve any of the following:

Land which is known to be contaminated? ☐ Yes ☒ NoLand where contamination is suspected for all or part of the site? ☐ Yes ☒ NoA proposed use that would be particularly vulnerable to the presence of contamination? ☐ Yes ☒ No

If you have answered Yes to any of the above, you will need to submit an appropriate contamination assessment

16. Trees and HedgesAre there trees or hedges on the proposed development site? ☐ Yes ☒ NoAnd/or: Are there trees or hedges on land adjacent to the proposed development site that could influence the development or might be important as part of the local landscape character? ☐ Yes ☒ No

If Yes to either or both of the above, you will need to provide a full Tree Survey, with accompanying plan before your application can be determined. Your Local Planning Authority should make clear on its website what the survey should contain, in accordance with the current 'BS5837: Trees in relation to construction - Recommendations'

17. Trade EffluentDoes the proposal involve the need to dispose of trade effluents or waste? ☐ Yes ☒ No

If Yes, please describe the nature, volume and means of disposal of trade effluents or waste

10. Materials

If applicable, please state what materials are to be used externally. Include type, colour and name for each material:

	Existing (where applicable)	Proposed	Not applicable	Don't Know	Drawing references if applicable
Walls	N/A	N/A	☐	☐	
Roof	DRAGON GREEN BOX PROFILE TIN SHEETS	N/A	☐	☐	
Windows	N/A	N/A	☐	☐	
Doors	N/A	N/A	☐	☐	
Boundary treatments (e.g. fences, walls)	N/A	N/A	☐	☐	
Vehicle access and hard-standing	N/A	N/A	☐	☐	
Lighting	N/A	N/A	☐	☐	
Others (please specify)	N/A	MONO CRYSTALLINE PHOTOVOLTAIC PANELS BLACK WITH ALUMINIUM FRAME	☐	☐	

Are you supplying additional information on submitted plan(s)/drawing(s)/design and access statement?

☒ Yes

☐ No

If Yes, please state references for the plan(s)/drawing(s)/design and access statement:

SPECIFICATION BROCHURE + PHOTOGRAPHS
+ DRAWINGS

11. Vehicle Parking

Please provide information on the existing and proposed number of on-site parking spaces:

Type of Vehicle	Total Existing	Total proposed (including spaces retained)	Difference in spaces
Cars			
Light goods vehicles/ public carrier vehicles			
Motorcycles			
Disability spaces			
Cycle spaces			
Other (e.g. Bus)			
Other (e.g. Bus)			

18. Residential Units (Including Conversion)

Does your proposal include the gain, loss or change of use of residential units?
 If Yes, please complete details of the changes in the tables below:

☐ Yes☒ No**Proposed Housing**

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Total proposed residential units (A+B+C+D) =

Existing Housing

Market Housing	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Social Rented	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Intermediate	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Key worker	Not known	Number of Bedrooms					Total
		1	2	3	4+	Unknown	
Houses	☐						
Flats and maisonettes	☐						
Live-work units	☐						
Cluster flats	☐						
Sheltered housing	☐						
Bedsit/studios	☐						
Unknown type	☐						
Totals (a+b+c+d+e+f+g) =							

Total existing residential units (E+F+G+H) =

TOTAL NET GAIN or LOSS of RESIDENTIAL UNITS (Proposed Housing Grand Total - Existing Housing Grand Total):

19. All Types of Development: Non-residential Floorspace

Does your proposal involve the loss, gain or change of use of non-residential floorspace?

☐ Yes☒ No

If you have answered Yes to the question above please add details in the following table:

Use class/type of use	Not applicable	Existing gross internal floorspace (square metres)	Gross internal floorspace to be lost by change of use or demolition (square metres)	Total gross internal floorspace proposed (including change of use)(square metres)	Net additional gross internal floorspace following development (square metres)
A1	Shops	☐			
	Net tradable area:	☐			
A2	Financial and professional services	☐			
A3	Restaurants and cafes	☐			
A4	Drinking establishments	☐			
A5	Hot food takeaways	☐			
B1 (a)	Office (other than A2)	☐			
B1 (b)	Research and development	☐			
B1 (c)	Light industrial	☐			
B2	General industrial	☐			
B8	Storage or distribution	☐			
C1	Hotels and halls of residence	☐			
C2	Residential institutions	☐			
D1	Non-residential institutions	☐			
D2	Assembly and leisure	☐			
OTHER	Please specify	☐			
		☐			
	Total				

In addition, for hotels, residential institutions and hostels, please additionally indicate the loss or gain of rooms

Use class	Type of use	Not applicable	Existing rooms to be lost by change of use or demolition	Total rooms proposed (including changes of use)	Net additional rooms
C1	Hotels	☐			
C2	Residential Institutions	☐			
Other	Hostels	☐			

20. Employment

Please complete the following information regarding employees:

	Full-time	Part-time	Total full-time equivalent	Not known
Existing employees				
Proposed employees				

21. Hours of Opening

Please state the hours of opening for each non-residential use proposed:

Use	Monday to Friday	Saturday	Sunday and Bank Holidays	Not known

22. Site Area

Please state the site area in hectares (ha)

20

23. Industrial or Commercial Processes and Machinery

Please describe the activities and processes which would be carried out on the site and the end products including plant, ventilation or air conditioning. Please include the type of machinery which may be installed on site:

Is the proposal a waste management development? ☐ Yes ☒ No

If the answer is Yes, please complete the following table:

	Not applicable	The total capacity of the void in cubic metres, including engineering surcharge and making no allowance for cover or restoration material (or tonnes if solid waste or litres if liquid waste)	Maximum annual (tonnes if solid waste or litres if liquid waste)
Inert landfill	☐		
Non-hazardous landfill	☐		
Hazardous landfill	☐		
Energy from waste incineration	☐		
Other incineration	☐		
Landfill gas generation plant	☐		
Pyrolysis/gasification	☐		
Metal recycling site	☐		
Transfer stations	☐		
Material recovery/recycling facilities (MRFs)	☐		
Household civic amenity sites	☐		
Open windrow composting	☐		
In-vessel composting	☐		
Anaerobic digestion	☐		
Any combined mechanical, biological and/or thermal treatment (MBT)	☐		
Sewage treatment works	☐		
Other treatment	☐		
Recycling facilities construction, demolition and excavation waste	☐		
Storage of waste	☐		
Other waste management	☐		
Other developments	☐		

Please provide the maximum annual operational throughput of the following waste streams:

Municipal	
Construction, demolition and excavation	
Commercial and industrial	
Hazardous	

If this is a landfill application you will need to provide further information before your application can be determined. Your waste planning authority should make clear what information it requires on its website.

24. Hazardous Substances

Does the proposal involve the use or storage of any of the following materials in the quantities stated below? ☐ Yes ☒ No ☐ Not applicable

If Yes, please provide the amount of each substance that is involved:

Acrylonitrile (tonnes)		Ethylene oxide (tonnes)		Phosgene (tonnes)	
Ammonia (tonnes)		Hydrogen cyanide (tonnes)		Sulphur dioxide (tonnes)	
Bromine (tonnes)		Liquid oxygen (tonnes)		Flour (tonnes)	
Chlorine (tonnes)		Liquid petroleum gas (tonnes)		Refined white sugar (tonnes)	

Other:

Other:

Amount (tonnes):

Amount (tonnes):

25. Certificates

One Certificate A, B, C, or D, must be completed, together with the Agricultural Holdings Certificate with this application form

CERTIFICATE OF OWNERSHIP - CERTIFICATE A

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/The applicant certifies that on the day 21 days before the date of this application nobody except myself/ the applicant was the owner (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of any part of the land or building to which the application relates

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

22/9/11

CERTIFICATE OF OWNERSHIP - CERTIFICATE B

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/ The applicant certifies that I have/the applicant has given the requisite notice to everyone else (as listed below) who, on the day 21 days before the date of this application, was the owner (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of any part of the land or building to which this application relates

Name of Owner	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

CERTIFICATE OF OWNERSHIP - CERTIFICATE C

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/ The applicant certifies that:

§ Neither Certificate A or B can be issued for this application

§ All reasonable steps have been taken to find out the names and addresses of the other owners (*owner is a person with a freehold interest or leasehold interest with at least 7 years left to run*) of the land or building, or of a part of it, but I have/ the applicant has been unable to do so

The steps taken were:

--

Name of Owner	Address	Date Notice Served

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

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Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

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25. Certificates (continued)**CERTIFICATE OF OWNERSHIP - CERTIFICATE D**

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

I certify/ The applicant certifies that:

- § Certificate A cannot be issued for this application
- § All reasonable steps have been taken to find out the names and addresses of everyone else who, on the day 21 days before the date of this application, was the owner (owner is a person with a freehold interest or leasehold interest) or any part of the land to which this application relates, but I have/ the applicant has been unable to do so

The steps taken were:

Notice of the application has been published in the following newspaper (circulating in the area where the land is situated):

On the following date (which must not be earlier than 21 days before the date of the application):

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

AGRICULTURAL HOLDINGS CERTIFICATE

Town and Country Planning (General Development Procedure) Order 1995 Certificate under Article 7

Agricultural Land Declaration - You Must Complete Either A or B

(A) None of the land to which the application relates is, or is part of, an agricultural holding

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

B) I have/ The applicant has given the requisite notice to every person other than myself/ the applicant who, on the day 21 days before the date of this application, was a tenant of an agricultural holding on all or part of the land to which this application relates, as listed below:

Name of Tenant	Address	Date Notice Served

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

26. Planning Application Requirements - Checklist

Please read the following checklist to make sure you have sent all the information in support of your proposal. Failure to submit all information required will result in your application being deemed invalid. It will not be considered valid until all information required by the Local Planning Authority has been submitted.

3 copies of a completed and dated application form: ☒The correct fee: ☒3 copies of the plan which identifies the land to which the application relates drawn to an identified scale and showing the direction of North: ☒3 copies of a design and access statement: ☒3 copies of other plans and drawings or information necessary to describe the subject of the application: ☒3 copies of the completed, dated Article 7 Certificate (Agricultural Holdings): ☒3 copies of the completed, dated Ownership Certificate (A, B, C, or D - as applicable): ☒**27. Declaration**

I/we hereby apply for planning permission/consent as described in this form and the accompanying plans/drawings and additional information.

Signed - Applicant:

Or signed - Agent:

Date (DD/MM/YYYY):

(date cannot be pre-application)

28. Applicant Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

29. Agent Contact Details

Telephone numbers

Country code: National number: Extension number:

Country code: Mobile number (optional):

Country code: Fax number (optional):

Email address (optional):

30. Site Visit

Can the site be seen from a public road, public footpath, bridleway or other public land?

☒ Yes

☐ No

If the planning authority needs to make an appointment to carry out a site visit, whom should they contact? *(Please select only one)*

☐ Agent

☒ Applicant

☐ Other (if different from the agent/applicant's details)

If Other has been selected, please provide:

Contact name:

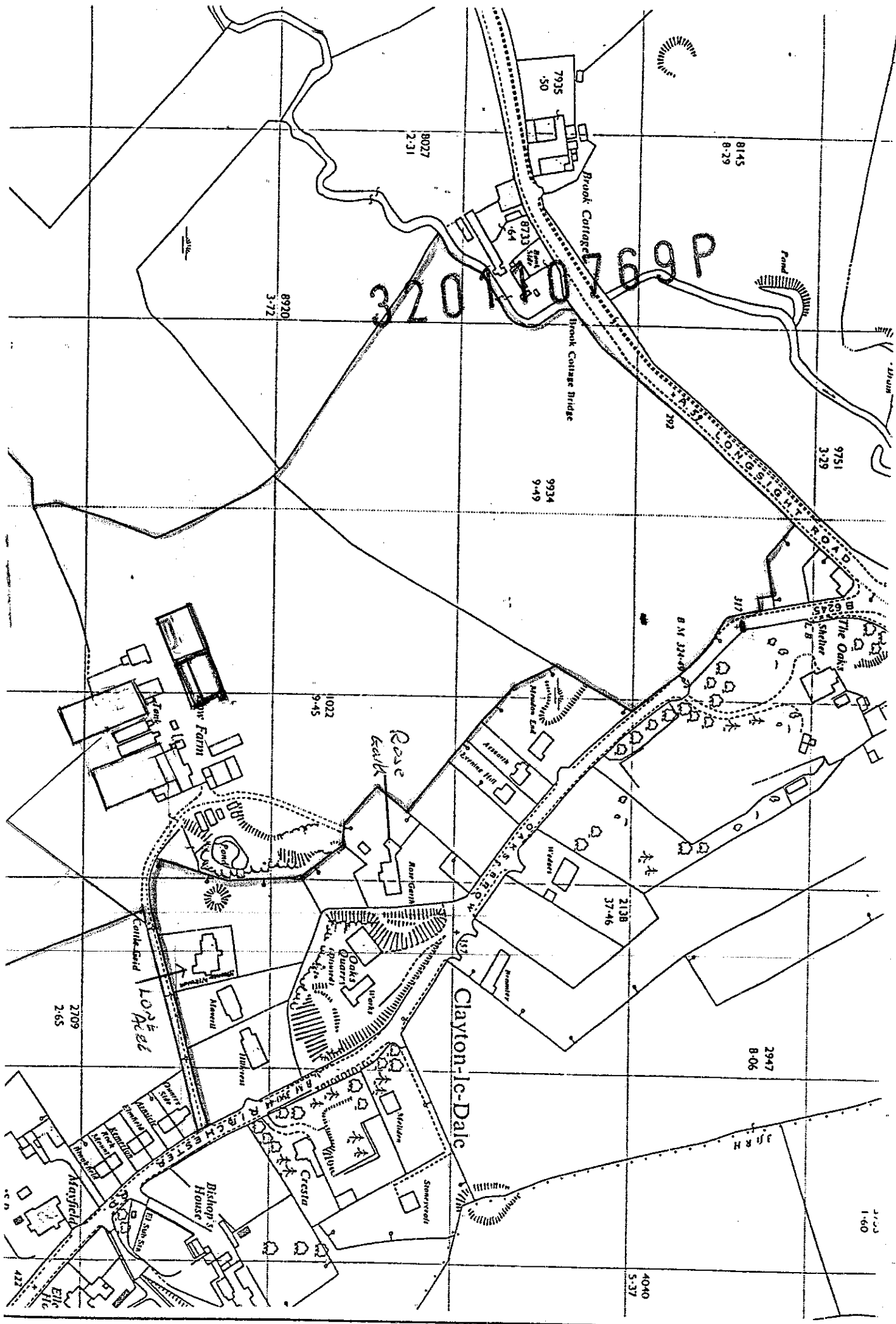
Telephone number:

Email address:

[illegible]

SCALE 1:2500

PLAN REFERRED TO FOR IDENTIFICATION PURPOSES ONLY



DESIGN AND ACCESS STATEMENT

SOLAR PV INSTALLATION
LOW FARM
RIBCHESTER ROAD
CLAYTON-LE-DALE
BLACKBURN

SITE INFORMATION

The application site is within an established farm off Ribchester Road, Clayton-le-dale. The site is set down on a west slope of the valley and the building application is within a group of buildings. The applicant owns the site and 20 hectares of farmland around the building application. The building was completed 18 months ago, and is an open plan portal frame structure, with a control-room at the end. The building is used for poultry rearing. The roof is clad with dragon-green box profile sheets, on timber prelims across the portal rafters.

DESIGN

The proposal is for a new Solar PV installation on the south facing slope of the building, comprising 40 x 250W MCS certified mono crystalline panels providing 10kwp. The whole installation is to be mounted on stainless steel clamps across the bottom left edge of the south facing slope. The individual panel dimensions are 1650 x 992 x 46mm thick and they are to be aligned in a landscape across the roof decking. The overall projection from the profile sheeting does not exceed 200mm. All electric cabling is to be concealed from view and taken to locations where the main incoming supplies are positioned. The inverters which convert DC output to a serviceable AC supply are to be installed in the same building. Full details are to be clarified by the specialist MCS certified electrical contractor.

ACCESS AND FACILITY BENEFITS

The installation is permanent across the roof and access for any maintenance must be via a hoist and operatives must be harnessed to repair any of the panels. A full completion pack detailing the installation information including the necessary certifications/guarantees etc will be issued to the owners of the panels. The applicant will benefit from the Feed in Tariffs and energy savings provided by the power generated by the panels during the daylight hours. The inverters will ensure that all the power generated by the Solar panels will be used for any electricity demands by the farm. The approximate annual carbon reduction achieved by the installation will be 12 tonnes.



High Performance 60 Cell Mono crystalline 156x156mm Solar Photovoltaic Module

Model Number: CNPV-230M to CNPV-255M // Power Range : 230Wp to 255Wp

Typical Electrical Characteristics

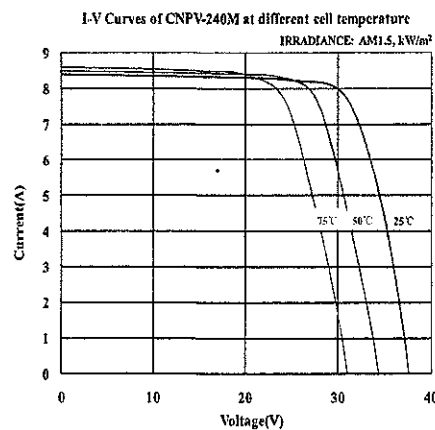
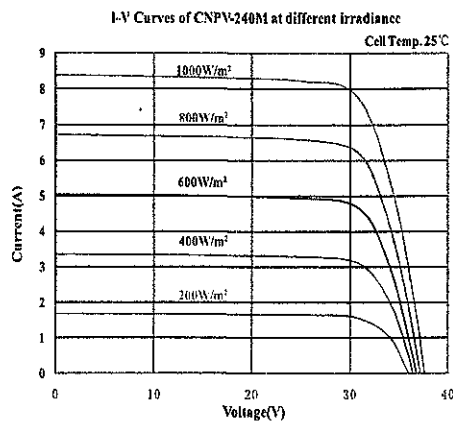
Model Number	UOM	Standard PV Modules			Premium PV Modules		
		CNPV-230M	CNPV-235M	CNPV-240M	CNPV-245M	CNPV-250M	CNPV-255M
Rated Maximum Power-P _{max}	Wp	230	235	240	245	250	255
Power Tolerance	%	±3	±3	±3	±3	±3	±3
Maximum Power Voltage-V _{mp}	V	30.3	30.7	30.8	30.9	31.0	31.3
Maximum Power Current-I _{mp}	A	7.60	7.65	7.80	7.93	8.07	8.15
Open Circuit Voltage-V _{oc}	V	37.2	37.5	37.6	37.7	37.8	37.9
Short Circuit Current-I _{sc}	A	8.20	8.30	8.40	8.50	8.60	8.70
Maximum System Voltage-V _{DC}	V	1000					
Encapsulated Solar Cell Efficiency-η _c	%	16.0	16.4	16.7	17.1	17.5	17.8
Module Efficiency-η _m	%	14.1	14.4	14.7	15.0	15.3	15.6
Solar Cell and Configuration		60 cells (156x156 mm) in a 6x10 matrix connected in series					
Solar Cell Technology & Size	mm	Mono Crystalline 156x156 mm					
Cable Type Diameter		4mm ² (12AWG) TÜV certified					
Type of Connector		IP67 Type IV					
Junction Box		IP65 1000VDC, TÜV&UL Certified					
Number of Bypass Diodes & Type		3 Nos. Schottky By-pass diodes					
Maximum Series Fuse Rating	A	14					
Temperature coefficient of Power	%/°C	-0.45					
Temperature coefficient of V _{oc}	%/°C	-0.35					
Temperature coefficient of I _{sc}	%/°C	0.05					
Nominal Operating Cell Temperature-NOCT	°C	45 ±2					
Standard Test Conditions	STC	STC: AM=1.5, 1000W/m ² , Cells Temperature 25°C					
Operating Temperature	°C	-40~+85					
Product Certifications		IEC61215, IEC61730 & CE					

Mechanical & Packaging Characteristics

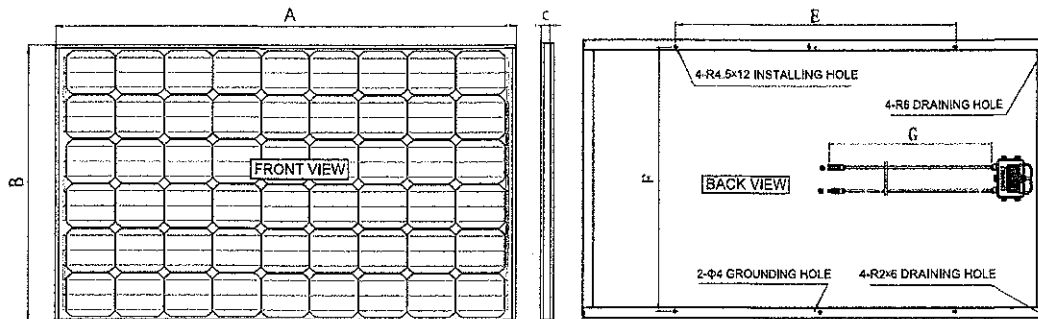
Dimensions A×B×C	mm	1650×992×46
Installation Hole Dimensions E×F	mm	990×941
Cable Length G	mm	1000
Weight	Kg	20
Number of Draining Holes in Frame		8
Construction		Superstrate:High transmission 3.2mm tempered low iron glass;Substrate:White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminium alloy type 6063T5; Color:silver
Packing Configuration and Quantity per Pallet		20 pcs per carton and one carton per pallet
Container Loading Capacity		520 pcs per 40 ft high cubic container

High Performance Mono Crystalline SPV Module

I-V Characteristics at Different Irradiance & Temperature



Dimensional Characteristics



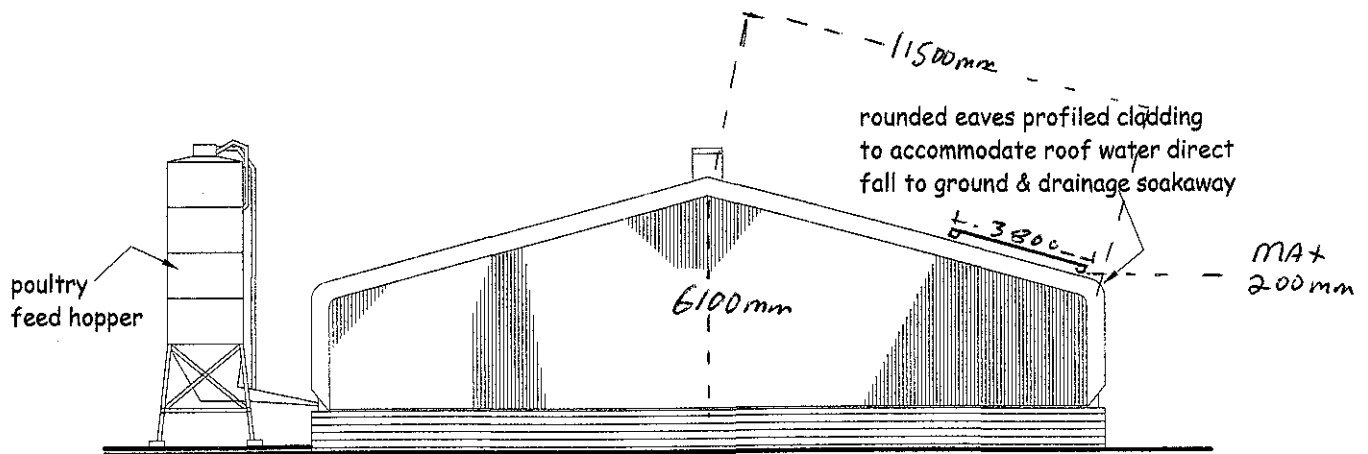
Note: This publication summarizes product warranty and specifications, which are subject to change without notice. Additional information may be found on our website: www.cnpv-power.com

SALIENT FEATURES	WARRANTY	CERTIFICATIONS
Customer Driven Product Portfolio Market Focused European Insurance ARC with High Transmission Superstrate > 95%-Premium Products Industry Leading Snow Loading Capacity: 8000Pa Proven Key Raw Materials Selection 100% Electro Luminescence Pre-screening 10 Years Workmanship Warranty The best \$/kWh under the Sun	- Manufacturing: 10 years - Power Production: 90%: 12 years 80%: 25 years - Dual insurance policy with reputed European insurance companies	

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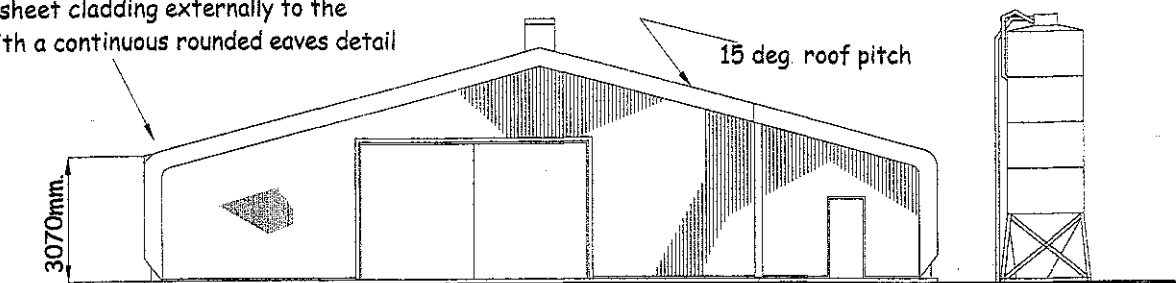
P. MARKERISOR. Low Farm

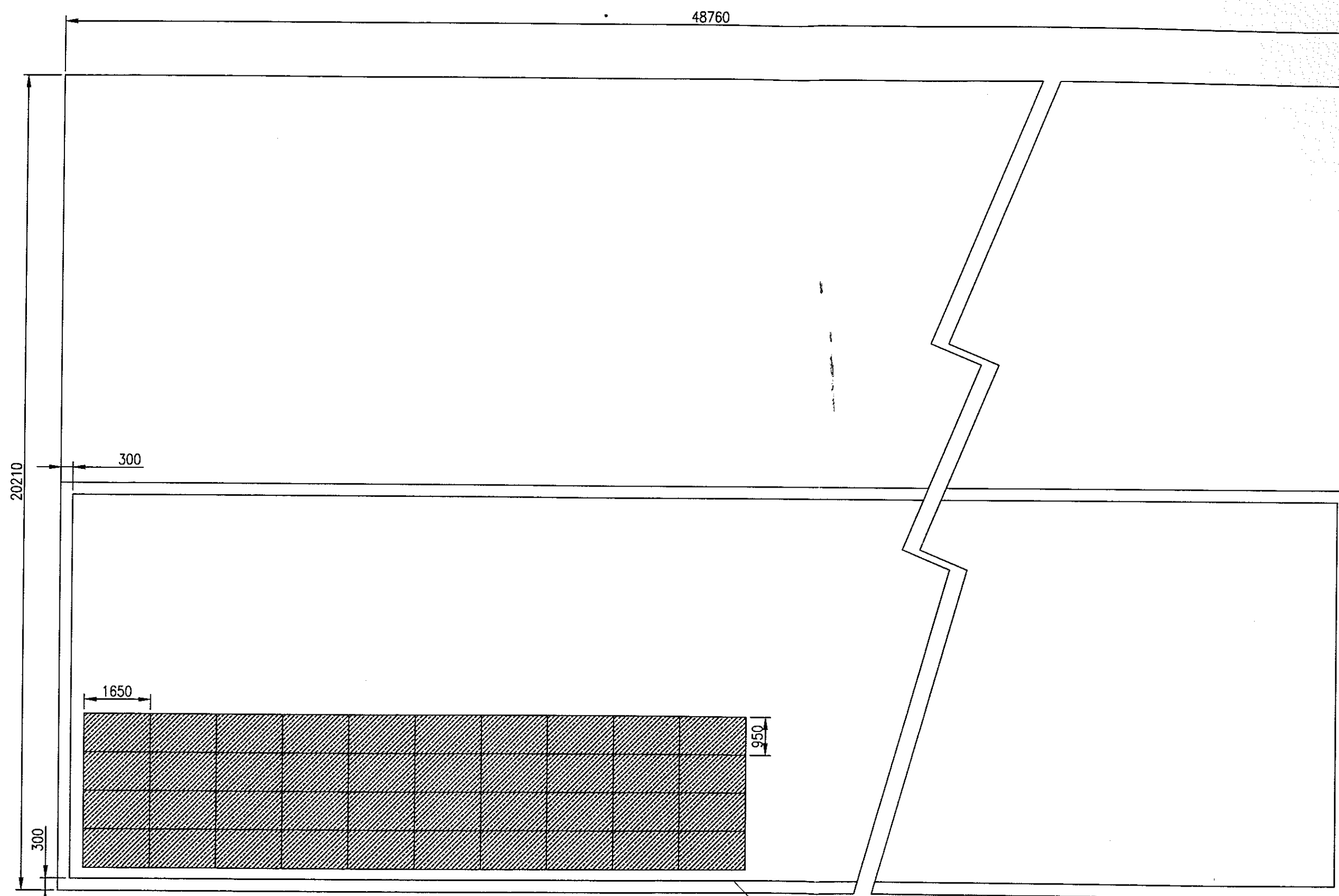


REAR ELEVATION

SCALE 1:200

profiled steel sheet cladding externally to the roof & walls with a continuous rounded eaves detail





ROOF PLAN

Solar Panels to be set a minimum of 300 mm from edge of roof



Rev	Date	Amendments	Scale
Drawn	AD	Date: SEPT-2011	Scale: 1:100@A3
Checked	WJD	Date: SEPT-2011	
Project Title			
LOW_FARM			
Drawing Title			
SOLAR_PANEL_LAYOUT			
 William Dyer Electrical Uk Ltd Electrical Engineers and Contractors 200 E. The Quadrant, Southwold, Suffolk IP19 1UB Tel: 01493 820000 Fax: 01493 820001 Email: sales@willemdyer.co.uk			
Drawing No			Rev
WJD-AD_SOLAR_PV			