Planning Services, Adur District Council

Civic Centre,
Ham Road,
Shoreham-by-Sea,
West Sussex,
BN43 6PR

Tel : (01273) 263222 (calls may be recorded)
website : www.adur.gov.uk
e-mail : developmentcontrol@adur.gov.uk

ADUR DISTRICT COUNCIL
PLANNING DIVISION
PLAN No. ADC003369
DATE 23 JAN 2009

Householder Application for Planning Permission for works or extension to a dwelling.
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:	MRS
First name:	
Last name:	PUGSLEY
Company (optional):	
Unit:	
House number:	
House suffix:	
House name:	66 THE MEADWAY
Address 1:	
Address 2:	
Address 3:	
Town:	SHOREHAM BY SEA
County:	WEST SUSSEX
Country:	
Postcode:	BN43 5RP

2. Agent Name and Address

Title:	MR
First name:	BAZ
Last name:	WYATT
Company (optional):	SOLAR DIRECT UK
Unit:	25B
House number:	
House suffix:	
House name:	
Address 1:	WOOLSBRIDGE IND PARK
Address 2:	THREE LEGGED CROSS
Address 3:	
Town:	WIMBORNE
County:	DORSET
Country:	
Postcode:	BH21 6SP

3. Description of Proposed Works

Please describe the proposed works:

INSTALL SOLAR PANELS

3. Description of Proposed Works (continued)

Has the work already started? ☐ Yes ☒ No

If Yes, please state when the work was started (DD/MM/YYYY): _____ (date must be pre-application submission)

Has the work already been completed? ☐ Yes ☒ No

If Yes, please state when the work 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: 66 House suffix: _____

House name: _____

Address 1: THE MEADWAY

Address 2: _____

Address 3: _____

Town: SHOREHAM BY SEA

County: WEST SUSSEX

Postcode (optional): BN43 5RP

5. 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

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

If Yes to any questions, please show details on your plans or drawings and state the reference number(s) of the plan(s)/ drawing(s):

6. 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 possible: ☐

Officer name:

Reference:

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

Details of the pre-application advice received:

7. Trees and Hedges

Are there any trees or hedges on your own property or on adjoining properties which are within falling distance of your boundary? ☐ Yes ☒ No

If Yes, please mark their position on a scaled plan and state the reference number of any plans or drawings:

Will any trees or hedges need to be removed or pruned in order to carry out your proposal? ☐ Yes ☒ No

If Yes, please show on your plans which trees by giving them numbers e.g. T1, T2 etc, state the reference number of the plan(s)/ drawing(s) and indicate the scale.

8. Parking

Will the proposed works affect existing car parking arrangements? ☐ Yes ☒ No

If Yes, please describe:

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:

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			☒	☐	
Roof		**SEE BROCHURE ATTACHED**	☐	☐	
Windows			☒	☐	
Doors			☒	☐	
Boundary treatments (e.g. fences, walls)			☒	☐	
Vehicle access and hard-standing			☒	☐	
Lighting			☒	☐	
Others (please specify)			☒	☐	

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:

ELEVATIONS	**40/PUGS/6874/BW/01**
BLOCK PLANS	**40/PUGS/6874/BW/02**
SITE PLANS	**40/PUGS/6874/BW/03**

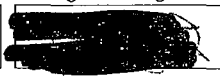
11. Certificates

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):
		20/01/2009

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):

Signed - Applicant:	Or signed - Agent:	Date (DD/MM/YYYY):

11. 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 with at least 7 years left to run)* of 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: [redacted]

Date (DD/MM/YYYY): 20/01/2009

~~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):

12. 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: ☒

3 copies of a plan which identifies the land to which the application relates drawn to an identified scale and showing the direction of North: ☒

3 copies of other plans and drawings or information necessary to describe the subject of the application: ☒

3 copies of a design and access statement where proposed works fall within one of the following designated areas: ☒

- National Park
- Site of special scientific interest
- Conservation area
- Area of outstanding natural beauty
- World Heritage Site
- The Broads

The correct fee: ☒

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): ☒

13. 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: [redacted]

Date (DD/MM/YYYY): 20/01/2009 (date cannot be pre-application)

14. Applicant Contact Details

Telephone numbers

Country code:	National number:	Extension number:
[redacted]	[redacted]	

Country code:	Mobile number (optional):

Country code:	Fax number (optional):

Email address (optional):

15. Agent Contact Details

Telephone numbers

Country code:	National number:	Extension number:
01202	811170	

Country code:	Mobile number (optional):

Country code:	Fax number (optional):

Email address (optional): baz@simpleesolar.co.uk

16. 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:

ADUR DISTRICT COUNCIL
PLANNING DIVISION
PLAN No. AD/00336/09
DATE 23 JAN 2009

Solar Direct

Adur District Council
Civic Centre - Planning Department
Ham Road
SHOREHAM
West Sussex
BN43 6PR

Date 20 January 2009
Our Ref Pugsley SD406874

DESIGN & ACCESS STATEMENT

Name **Address of applicant**

Mrs Pugsley 66 The Meadway SHOREHAM West Sussex BN43 5RP

Application Site (if different from above)

Same as above

Justification for the proposal

We propose to install solar panels on the south facing flat roof dormer at the rear of the property to heat the domestic hot water cylinder and give our customer a saving on there heating bills and save on valuable fossil fuel energy.

Solar panels need to be placed in a south facing position and in an accessible distance from the hot water cylinder. The panels require sunlight and ultra violet light to heat the tubes the south facing roof is the most effective position for the panels.

Three panels are required each panel is 1.64m high x 0.7m wide with six tube. Overall size will be 1.64m high x 2.1m wide with 18 tubes.

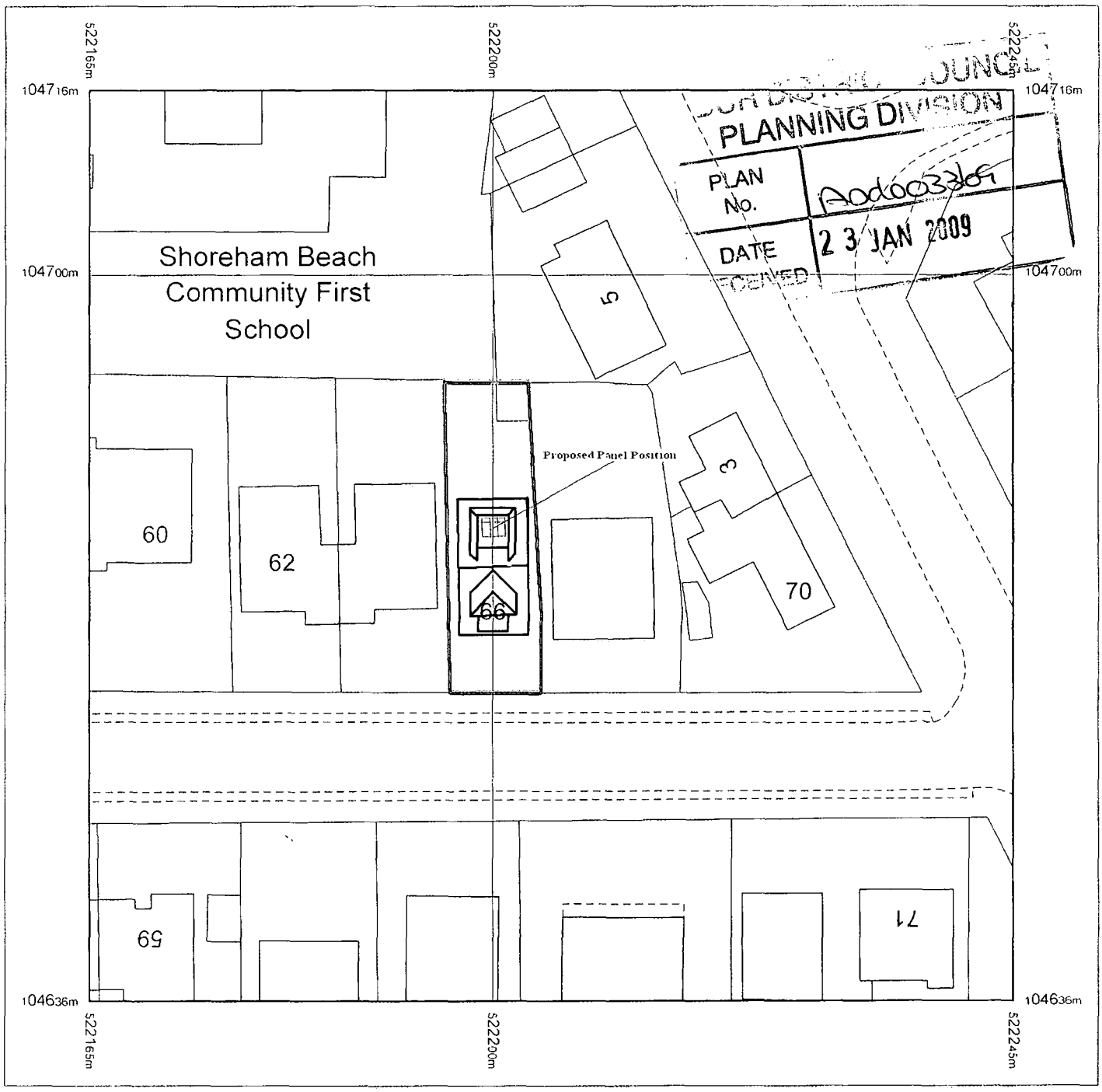
A flow and return pipe in 15mm copper tube is required between the panels on a sealed system to a new hot water cylinder the old one being replaced on installation of the system.

This will give our customer substantial savings on their fuel bill and save valuable fossil fuel energy which will help to preserve our National Parks and Conservation Areas so that future generations can enjoy our beautiful Earth.

Layout

The panels that we use have been chosen because they have a 95% efficiency rate and have a modern slim line design. The panels when fitted on the roof look similar to a velex window.

OS Sitemap®



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Metres
0 5 10 15 20

Scale 1:500

Supplied by: **Gormans**
Serial number: 00770400
Centre coordinates: 522205 104676.25

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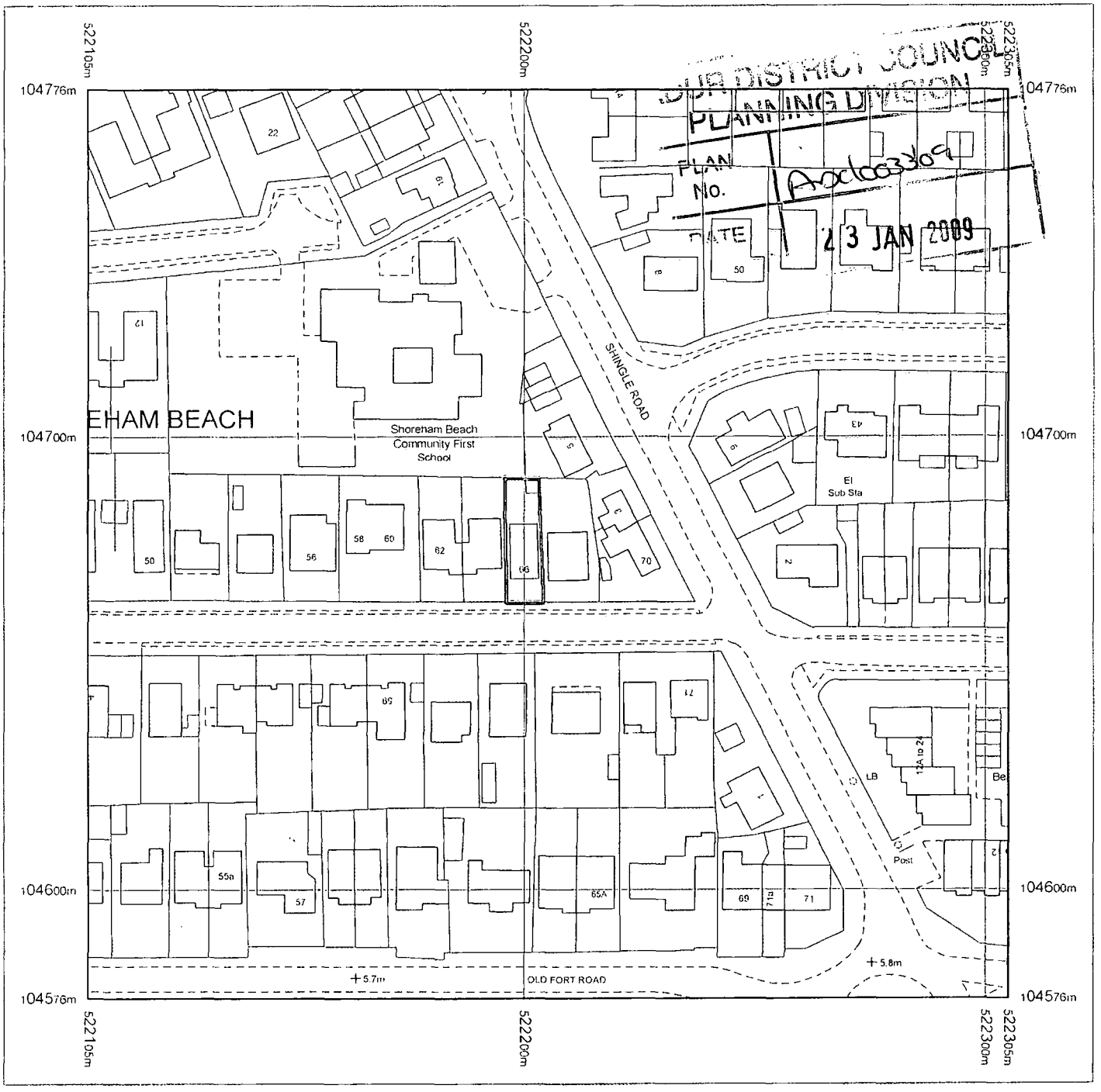
Drawing No 40/PUGS/6874/BW/02

OS Sitemap®



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The representation of features as lines is no evidence of a property boundary.

Metres
0 20 40

Scale 1:1250

Supplied by: **Gormans**
Serial number: 00770500
Centre coordinates: 522205 104676

Further information can be found on the OS Sitemap Information leaflet or the Ordnance Survey web site: www.ordnancesurvey.co.uk

Drawing No **40/PUGS/6874/BW/03**

Scale

As solar panels are designed to absorb the energy of the sun and ultraviolet light they have been made of modern day material of aluminum and evacuated glass tubes. The panels come in one size 1.64m high x 0.7m wide. The size of the cylinder and it demand determines how many panels we will need to use to give a sufficient supply of hot water to our customer.

The panels will be sited centrally and in line with the windows.

Landscaping/Treatment of outdoor space

The needs of the disabled or older people does not apply to the installation of solar panels.

Appearance

The solar panels are a modern slim line design.
Please see brochure and example photos of solar installations.

Access

The needs of the disabled or older people does not apply to the installation of solar panels.

FIXING PANELS TO A FLAT ROOF

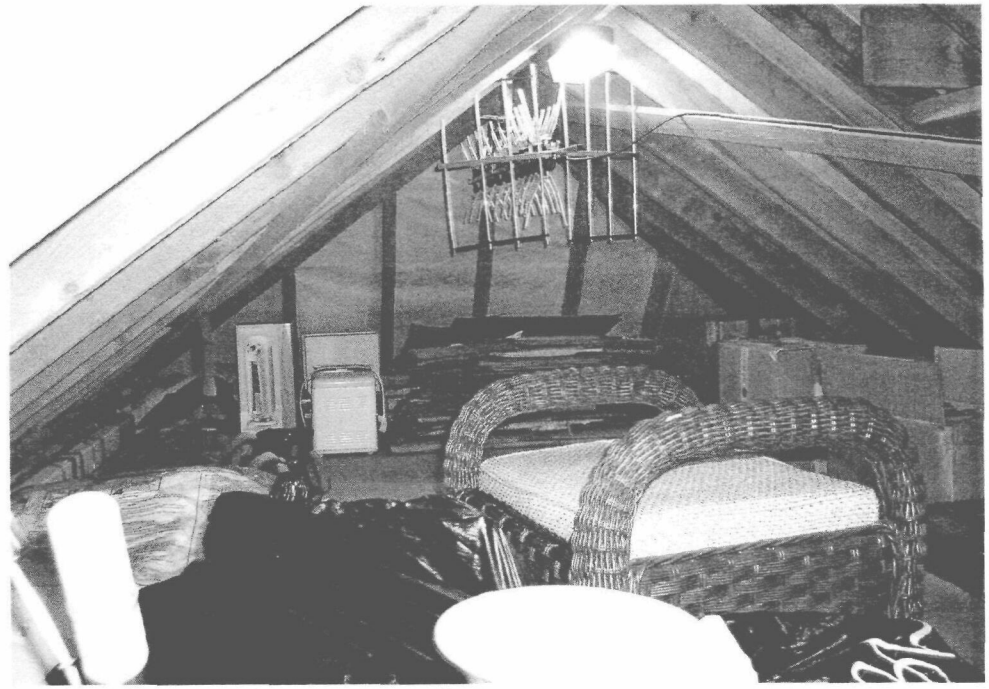
1. A baton is fixed to the flat roof at the front and back of the panel.
2. Uprights are fixed to the baton to make a frame so that it raises the back of the panel to a minimum of 10 Degrees.
3. The panels are laid on the roof and fixed together and bolted to the frame.
4. The pipework at each end of the panels will go through the roofing material the same as a soil stack with a weathering collar.



Signature of agent _____
For & on behalf of Mrs Pugsley

Date: 20 January 2009








PLAN
No.

Shingle Rd
Proposed Panel Position
66 The Meadway, Shoreham-by-S
© 2008 Tele Atlas

Solar Direct UK

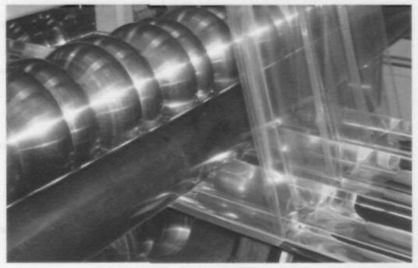
Evacuated tube collectors

COUNCIL
PLANNING DIVISION
PLAN No. Acc6033/09
DATE RECEIVED 23 JAN 2009



ritter Solar











Ritter Solar GmbH & Co. KG

The company Ritter Solar GmbH & Co. KG is a manufacturer of highly efficient evacuated tube collectors with or without CPC reflectors.

Alfred T. Ritter, the principal shareholder, is likewise well-known for his chocolate factory and by his many and various environmentally relevant commitments.

With its high-quality solar products combined with high efficiency and easy assembly, Ritter Solar has rapidly established itself as the largest German manufacturer of evacuated tube collectors.

Meanwhile, the most noteworthy providers of solar technology in Europe rank among our customers.

Research and development

Today, Ritter Solar is a forge of ideas for innovative high-tech evacuated tube collectors. Product optimization and technical innovation are the focus of our firm's philosophy.

Production facilities

In fully automated production facilities with a manufacturing area of more than 9000 m² and modern machinery, Ritter Solar possesses sufficient capacities to be able to provide distinguished system providers and bulk purchasers with high-tech collectors.

Awards

Ritter Solar collectors have received the very best evaluations by Stiftung Warentest as well as from various consumer and environmental magazines.

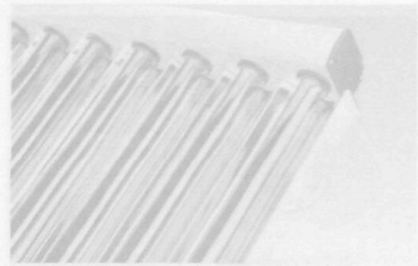
The evacuated tube collector CPC azzurro, manufactured for Paradigma, was distinguished by Industrie Forum with the Design Award 2000.

In 1997, Alfred T. Ritter, the principal shareholder, was honoured by World Wide Fund for Nature (WWF) and the business magazine Capital as Eco manager of the year. He was awarded the Prognos Award for 1998 by Prognos Institute

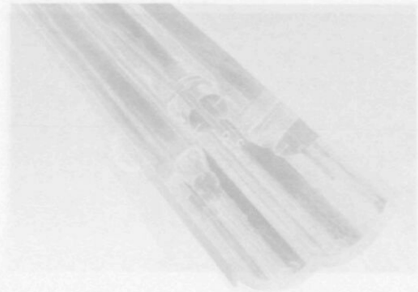
In 2003 followed the honouring with the German Solar Award by EUROSOLAR (European Association for Renewable Energy) for a special personal commitment in the area of renewable energies.

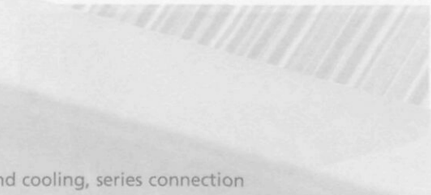
ritterSolar

Ritter Solar GmbH & Co. KG
Kuchenäcker 1 · D-72135 Dettenhausen
Phone +49(0)7157 5359-0 · Fax +49(0)7157 5359-20
info@rittersolar.de · www.rittersolar.de



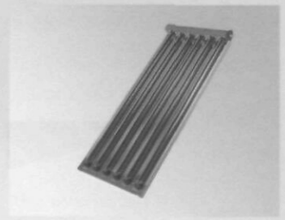


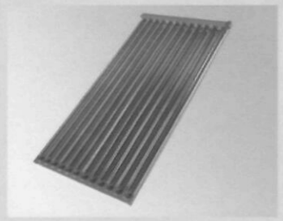


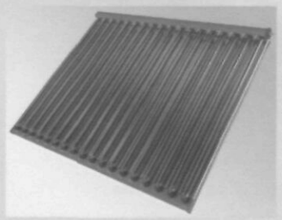


Evacuated tube collectors
CPC 6 OEM, CPC 12 OEM, CPC 18 OEM

for domestic water heating, backup space heating and cooling, series connection

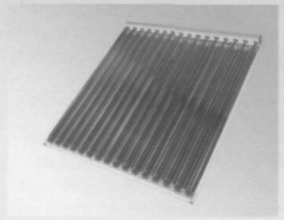


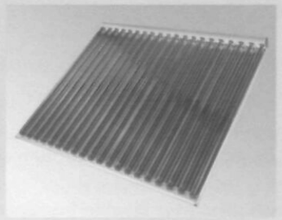




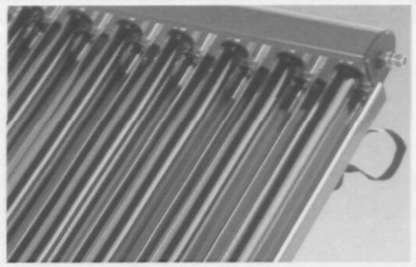
Evacuated tube collectors
CPC 16 w OEM, CPC 20 w OEM

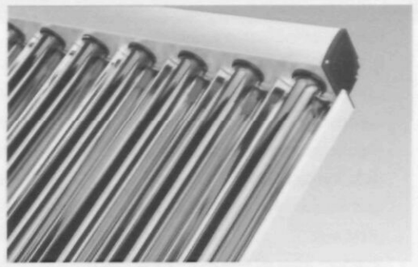
for domestic water heating, no series connection

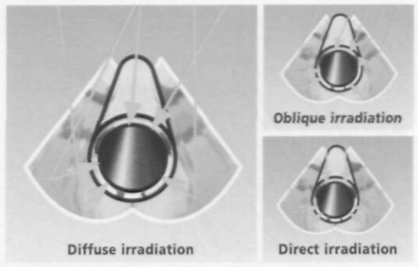


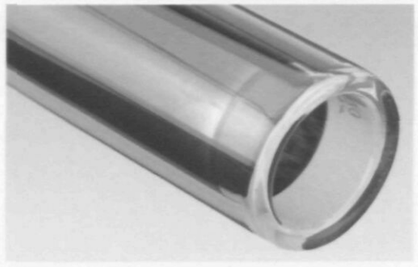


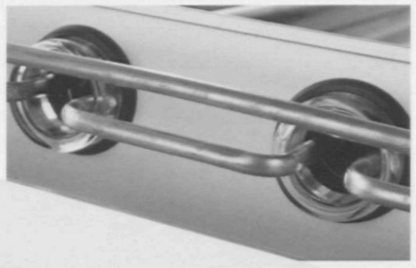
Solar Direct UK

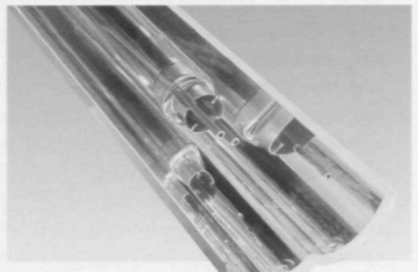


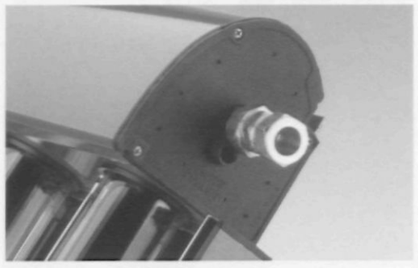




















www.solardirectuk.co.uk
www.rittersolar.de

The evacuated tube collectors

The Ritter Solar evacuated tube collector consists of 3 main components:

- Evacuated tubes
- CPC mirror
- and collecting box with heat transfer unit

The evacuated tubes

The evacuated tube is a product that is optimized in geometry and performance.

The tubes are composed of two concentric glass tubes that are half spherically closed on one side and fused together on the other side. The gap between the tubes is evacuated and afterwards hermetically plugged (vacuum insulation).

The highly selective sputter layer (aluminium nitrite) is applied to the exterior of the internal tube in vacuum.

The CPC mirror

In order to increase the efficiency of the evacuated tubes, a highly reflecting, weather-proof CPC mirror (**C**ompound **P**arabolic **C**oncentrator) is placed behind the evacuated tubes.
The special mirror geometry ensures that even at unfavourable irradiation angles direct and diffuse sunlight falls onto the absorber. Due to the particular mirror geometry, the power yield over the course of the day is almost constant.

Collecting box with heat transfer unit

The collecting and distribution pipes are located inside the collecting box.

In each evacuated tube there is a U pipe with direct flow-through that is connected to the collecting or distribution pipes. This U pipe is seamed in a heat guide plate in the interior of the evacuated tube that transmits the heat from the interior tube to the U pipe.

Characteristics:

Easy to assemble:

- Easy to handle and light-weight collector modules permit short assembly times.
- Flexible hydraulic connections due to symmetrical collector design – placement of the sensor is possible on the right or on the left side.
- Retaining loops attached to the collector frame permit safe and easy transport on the roof, or they can be used as transportation loops for fast assembly by crane.
- Injury-free handling: Sharp mirror edges are set laterally in the aluminium frame profile. The profile terminations of the collector frame are enclosed in rubber profiles.
- A sun-protective plastic film is stretched over the collector for shipping that permits a start-up of the solar plant also during strongest sun exposure.

Easy to service:

- Due to a special mounting technology, the evacuated tubes and the mirrors can be changed without tools, if necessary.
- The "dry connection" makes emptying of the unit for tube exchange redundant.
- Simple and type-pure recycling of the individual components.

Service life:

- Pure glass-glass bonding of the tube ensures a durable vacuum and thus consistently high power yields.
- High-quality and rustproof materials guarantee trouble-free operation and a long service life.

Series		CPC 6 OEM	CPC 12 OEM	CPC 18 OEM	CPC 16 w OEM	CPC 20 w OEM
Number of evacuated tubes		6	12	18	16	20
η_0 (Aperture area), DIN 4757-4 or EN 12975	%	66.1	66.1	66.1	58.1	58.1
c_1 with wind, in relation to aperture area	W/(m²k)	0.82	0.82	0.82	0.928	0.928
c_2 with wind, in relation to aperture area	W/(m²k²)	0.0064	0.0064	0.0064	0.001	0.001
yield forecast (location: Würzburg, Germany, 3 m² surface)	kWh/m²a	660	660	660	596	596
yield forecast (location: Würzburg, Germany, 5 m² surface)	kWh/m²a	586	586	586	550	550
grid measurements (length, height, depth)	m	0.70 x 1.64 x 0.1	1.39 x 1.64 x 0.1	2.08 x 1.64 x 0.1	1.85 x 1.90 x 0.1	2.31 x 1.90 x 0.1
gross area	m²	1.15	2.28	3.41	3.52	4.37
aperture area	m²	1.0	2.0	3.0	3.2	4.0
absorber capacity	l	0.8	1.6	2.4	2.5	3.1
weight	kg	19	37	54	57	72
max. working pressure burden	bar	10	10	10	10	10
max. stagnation temperature	°C	295	295	295	295	295
connection diameter of inlet and outlet tube	mm	15	15	15	12	12
feeler sleeve	mm	6	6	6	4	4
material of collector		Al / Cu / glass / silicone / PBT / EPDM / TE				
material of glass tube		borosilicate glass 3.3				
material selective absorber layer		aluminium nitrite				
glass tube (outside and inside thickness/wall thick./tube len.)	mm	47/37/1.6/1500	47/37/1.6/1500	47/37/1.6/1500	47/37/1.6/1800	47/37/1.6/1800
colour (aluminium frame profile, powder-coated)	RAL	7015	7015	7015	aluminium grey	aluminium grey
colour (plastic parts)		black	black	black	black	black
thermal shock test	ITW test number	02COL282				
impact-from-hail test according to DIN EN 12975-2	TÜV test number	435/142448				
EU design type test	TÜV test number	Z-DDK-MUC-04-1000-29919-005				

- German market leader in the production of tube collectors
- Individual collector design
- Hail safe and thermal shock tested
- Highest energy yields and excellent design

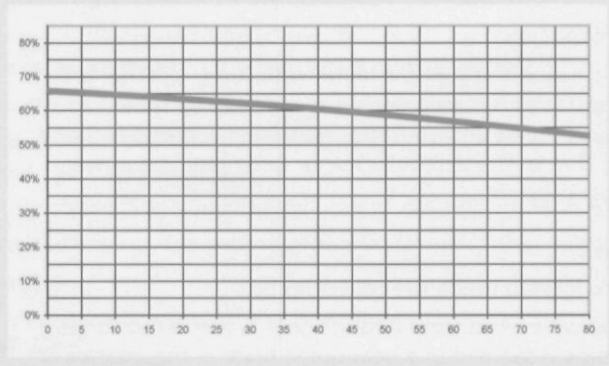


Sole UK Agents for Ritter Products
Solar Direct UK, Unit 25B, Woolsbridge Industrial Park, Three Legged Cross, Wimborne BH21 6SP.
Tel: 01202 828264 Fax: 01202 822308

ritter Solar

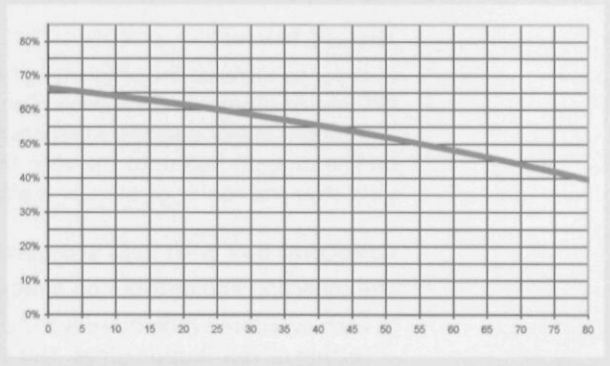
Collector efficiency

with an irradiation Eg of 800 W/m²



$\Delta T = T_{collector} - T_{ambient\ air}$ [K]

with an irradiation Eg of 400 W/m²



$\Delta T = T_{collector} - T_{ambient\ air}$ [K]

FO-0001 V1.0 06/04 GB

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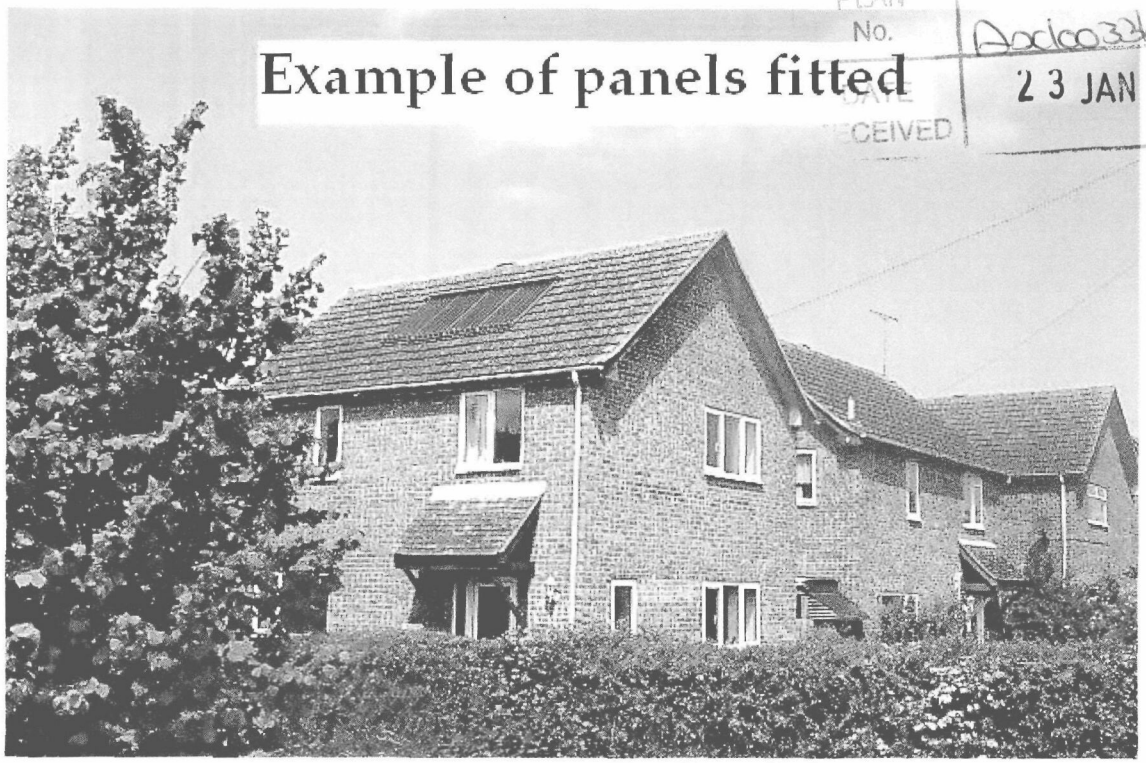
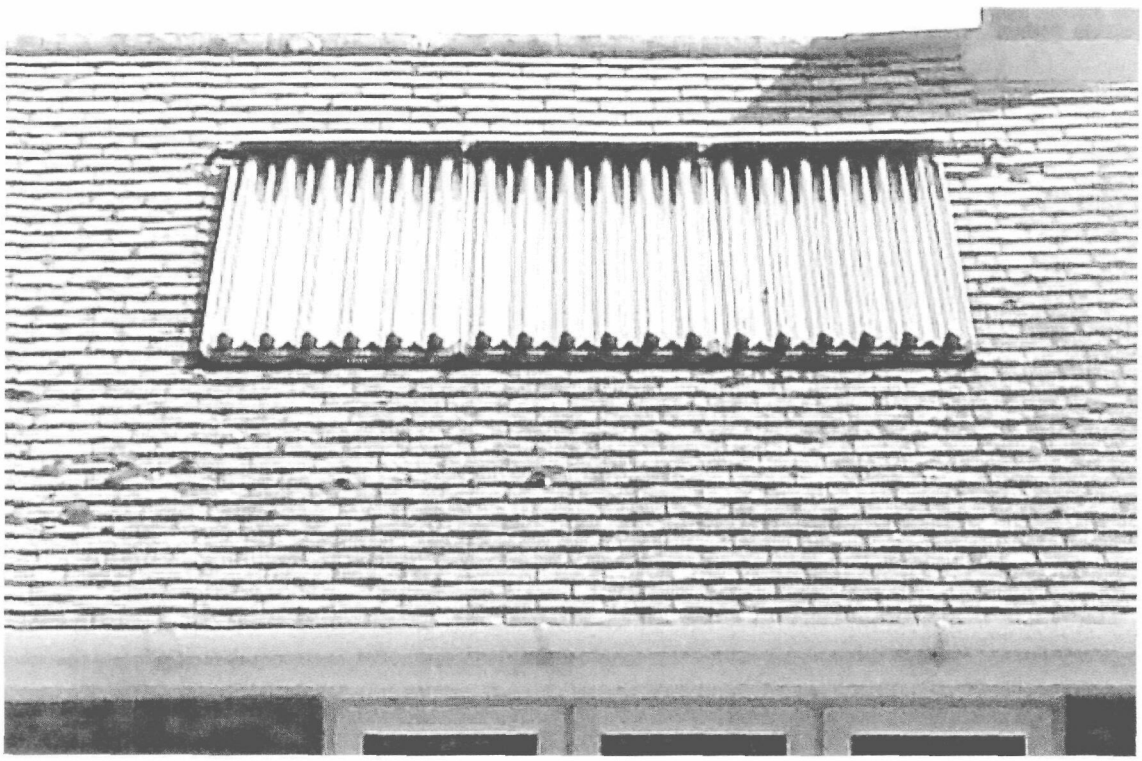
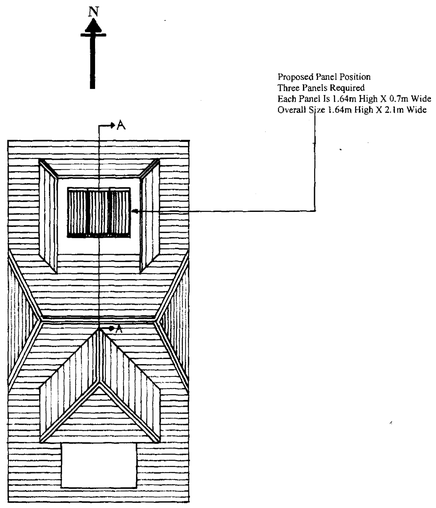
DATE RECEIVED 23 JAN 2009

Example of panels fitted

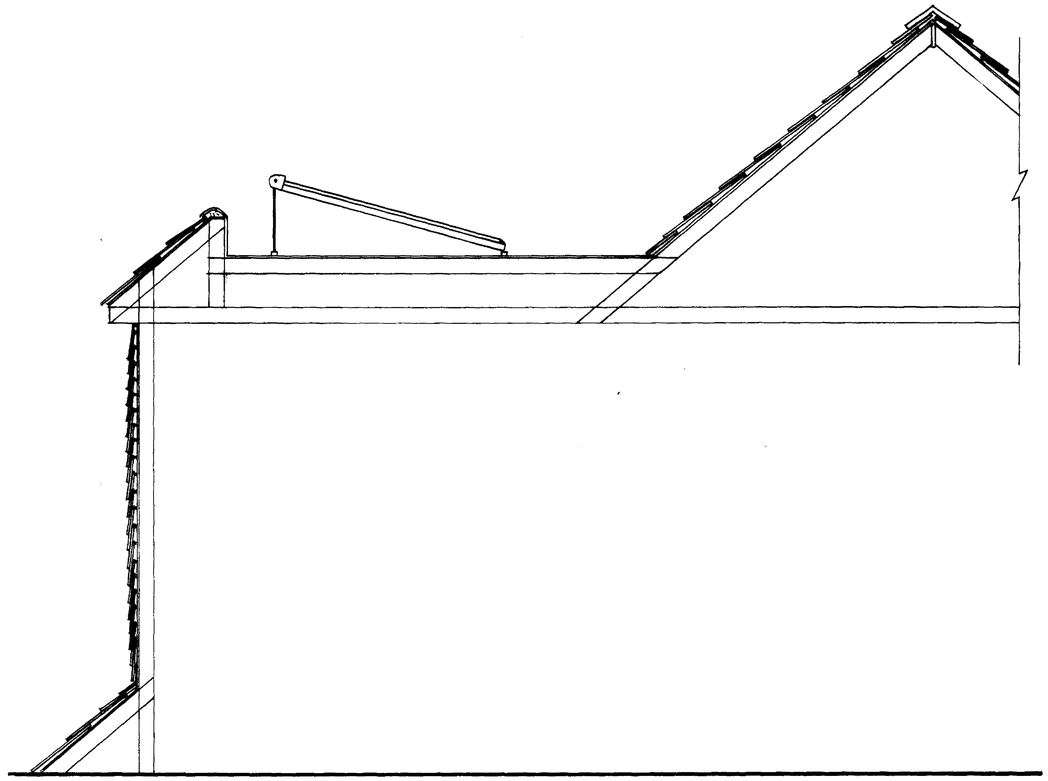






Proposed Panel Position
Three Panels Required
Each Panel Is 1.64m High X 0.7m Wide
Overall Size 1.64m High X 2.1m Wide

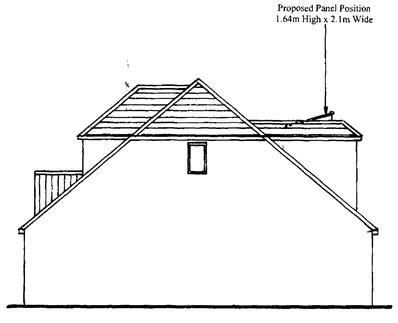
PLAN VIEW



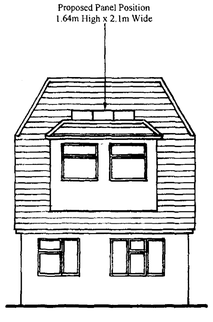
SECTION A-A



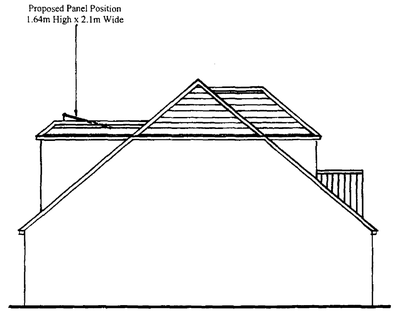
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

PLANNING DIVISION
PLAN No. A06003367
DATE RECEIVED 23 JAN 2009

Solar Direct UK

Drawing Title

PROPOSED INSTALLATION OF SOLAR PANELS

Client

MRS PUGSLEY

Job Title

66 THE MEADWAY

Scale

1:100 1:20

Date **20-Jan-09**

Drawn By **B.WYATT**

Drawing No

40/PUGS/SD406874/BW/01