

2 8 NOV 2011	For office use only
	Application No
ATTENTIONOF	Date received 3 2 0 1 1 0 9 9 8 P
SOLD Reserve	Fee paid £ Receipt No:

2. Agent Name and Address

First name:

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

Application for Planning Permission. Town and Country Planning Act 1990

You can complete and submit this form electronically via the Planning Portal by visiting www planningportal gov uk/apply Publication of applications on planning authority websites

Please note that the information provided on this application form and in supporting documents may be published on the Authority's website. If you require any further clarification, please contact the Authority's planning department.

Please complete using block capitals and black ink

First name: DAV (D

1. Applicant Name and Address

Title:

Last name:

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

Title:

Last name:

Company (optional):			Compar	ny al):	
Unit:	House number:	House suffix:	Unit:	House number:	House suffix:
House name:	WALLBANKS FR	1	House name:		
Address 1:	CHIPPING RO		Address	1:	
Address 2:	CHAIGLEY		Address	2:	
Address 3:		TV	Address	3:	
Town:	CLITHEROE] Town:		
County:	LANCS		County:		
Country:	ENGLAND		Country	:	
Postcode:	BB73LX		Postcod	e:	
	otion of the Proposal ribe the proposed development, in	ncluding any change	of use:		
	W BUILD S INIMAL FRED SOLAR P.V F	& HAY	e Im	PLEMENTS	FOOF PSTCH,
	ling, work or change of use alread	y started?	Yes	✓ No	·
	state the date when building, were started (DD/MM/YYYY):			(date must be pre-applic	ation submission)
lf Yes, please	ng, work or change of use been co state the date when the building, use was completed: (DD/MM/YYY	work	Yes	✓ No(date must be pre-application)	ition submission)

4. Site Address Details	5. Pre-application Advice
Please provide the full postal address of the application site	Has assistance or prior advice been sought from the local
Unit: House House suffix:	authority about this application?
House NALLBANKS FM	If Yes, please complete the following information about the advice
Address 1: CHIPPING RD	you were given (This will help the authority to deal with this application more efficiently) Please tick if the full contact details are not
Address 2: CHAIGLEY	known, and then complete as much as possible:
Address 3:	Officer name:
Town: CLITHENSE	
County: LANCS	Reference:
Postcode (optional): BB 2 3LX	
Description of location or a grid reference (must be completed if postcode is not known):	Date (DD/MM/YYYY); (must be pre-application submission)
Easting: Northing:	Details of pre-application advice received?
Description:	
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	Do the plans incorporate areas to store and aid the collection of waste? Yes No
is a new or altered pedestrian	If Yes, please provide details:
access proposed to or from the public highway?	
Are there any new public roads to be	
provided within the site? Yes Vio	
Are there any new public	
rights of way to be provided within or adjacent to the site? Yes Vo	
Do the proposals require any diversions	Have arrangements been made
/extinguishments and/or Creation of rights of way? Yes No	for the separate storage and collection of recyclable waste? 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	If Yes, please provide details:
(s)/drawings(s)	
8. Authority Employee / Member	
With respect to the Authority, I am: (a) a member of staff	Do any of these statements apply to you? Yes No
(b) an elected member (c) related to a member of staff	
(d) related to an elected member	ur .
If Yes, please provide details of the name, relationship and role	
	•

applicable, please sta	LE WHAT HISTORIAN AIC	to pe asee ener.	nally. Include type, colour and r		1 0	T
	Existing (where applicable)		Proposed		Not applicable	Don Kno
Walls			NATURAL	_ STO√E		
Roof			BLUE	SLATE		
Windows			Timber			
Doors			TimBen			
Boundary treatments e g fences, walls)						
Vehicle access and hard-standing			C12US+4E1)	STONE		
Lighting			STRIP	UGHTS		
Others (please specify)						
			(s)/drawing(s)/design and acces	ss statement?	Yes	
0. Vehicle Parkir			number of on-site parking spac	-ac-		
Type of Vehic		Total Existing	Total proposed (includ spaces retained)	ing D	ifference n spaces	
Cars		6	6			
Light goods veh public carrier ve	nicles/					
Motorcycle	i					
Disability spa	ces					
Cycle space						
Other (e.g. B		<u>. </u>	-			-
Other (e.g. B		·				

11. Foul Sewage	12. Assessment of Flood Risk
Please state how foul sewage is to be disposed of: Mains sewer Cess pit Septic tank Other	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
Package treatment plant	If Yes, you will need to submit a Flood Risk Assessment to consider the risk to the proposed site
Are you proposing to connect to the existing drainage system? If Yes, please include the details of the existing system on the application drawings and state references for the plan(s)/drawing(s):	Is your proposal within 20 metres of a watercourse (e.g. river, stream or beck)? Will the proposal increase the flood risk elsewhere? Yes No
pianto//drawningto/.	How will surface water be disposed of?
	Sustainable drainage system Existing watercourse
N/A	Soakaway Pond/fake
	Main sewer
13. Biodiversity and Geological Conservation	14. Existing Use
To assist in answering the following questions refer to the guidance	Please describe the current use of the site.
notes for further information on when there is a reasonable likelihood that any important biodiversity or geological conservation features may be present or nearby and whether they are likely to be affected by your proposals	PART OF OLD FARMYARD
Having referred to the guidance notes, is there a reasonable likelihood of the following being affected adversely or conserved	Is the site currently vacant?
and enhanced within the application site, or on land adjacent to or near the application site?	If Yes, please describe the last use of the site:
a) Protected and priority species: Yes, on the development site Yes, on land adjacent to or near the proposed development No	When did this use end (if known)? DD/MM/YYYY PRE 1990
b) Designated sites, important habitats or other biodiversity features:	(date where known may be approximate)
Yes, on the development site	Does the proposal involve any of the following? If yes, you will need to submit an appropriate contamination assessment with your application
Yes, on land adjacent to or near the proposed development No	Land which is known to be contaminated? Yes 📝 No
c) Features of geological conservation importance:	Land where contamination is suspected for all or part of the site? Yes No
Yes, on the development site Yes, on land adjacent to or near the proposed development No	A proposed use that would be particularly vulnerable to the presence of contamination?
15. Trees and Hedges	16. Trade Effluent
Are there trees or hedges on the proposed development site? Yes No	Does the proposal involve the need to dispose of trade effluents or waste? Yes No
And/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 V No lf Yes to either or both of the above, you may need to provide a full Tree Survey, at the discretion of your local planning authority. If a Tree Survey is required, this and the accompanying plan should be submitted alongside your application. 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	If Yes, please describe the nature, volume and means of disposal of trade effluents or waste
construction - Recommendations'.	

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17. Residential U	nits (l	nclu	ding	Cor	ver	sion)		17.AN			3	21	71	109	n 0
Does your proposal ir If Yes, please complet	aclude t	he aa	ain. Io	ss or c	hano	e of use of	reside low:	ntial units? Yes	Ø	No			<i>J</i> 1	105	90
	Propo	sed	Hou	sing				Existing Housing							
Market	Not				1	rooms	Total		Not		7	T		rooms	Tota
Housing	known	1	2	3	4+	Unknowr	1	Housing Houses	known	1 וּנ	2	3	4+	Unknowi	n
Houses	 	-	+-	╂		-	-	Flats and maisonette	s		-			<u> </u>	
Flats and maisonettes		├	╁	-	ļ		 	Live-work units			-	+-	┼		
Cluster flats			┼	+			ļ	Cluster flats		\vdash	-		 	 	
Sheltered housing		 	-					Sheltered housing	1 🖰	-	-	\vdash	-		<u> </u>
Bedsit/studios		<u> </u>	-	-	 	<u> </u>		Bedsit/studios		-	 	-		_	-
		-	-	-		<u> </u>	 	Unknown type	片片	-	-	-	-	 	+
Unknown type	<u>; </u>	intale	- (0.1.)	<u> </u>	d L 0	<u> </u> :+f+g)=		Onknown type		otal.	- (0.)	3 2 6 4	<u> </u>	(+f+g) =	
		Otals	\\\ \(\tau\)	7+6+	ute	+1+y)=				Otals) (U + L	7+67	ute	(+1+y)=	0
Social Rented	Not					rooms	Total	Social Rented	Not					rooms	Tota
3.5	known	1	2	3	4+	Unknown		Nouses	known	1	2	3	4+	Unknowr	1
Houses		<u> </u>	-	<u> </u>				Houses Flats and maisonettes		<u> </u>	+				-
Flats and maisonettes				<u> </u>		ļ		Live-work units	 - -		 			 	
Live-work units				-		1		Cluster flats		-	-	-			-
Cluster flats				-						 	ļ				-
Sheltered housing			-					Sheltered housing			-	-		ļ	
Bedsit/studios			 					Bedsit/studios		-	 		<u> </u>		-
Unknown type	L		(4	. 6	-	Unknown type \Box Totals $(a+b+c+d+e+f+g) =$					-		
		otais	(a+b)) + C +	a+e	+ f + g) ==	0			otals	{a+b)+(+	a + e	$+t+g_{j}=$	0
	Not		Num	ber of	Bedr	ooms	Total		Not		Numl	per of	Bedr	ooms	Tota
Intermediate	known	1	2	3		Unknown		Intermediate	known	1	2	3		Unknown	
Houses								Houses							
Flats and maisonettes			<u> </u>					Flats and maisonettes			ļ			ļ	
Live-work units								Live-work units						<u> </u>	<u></u>
Cluster flats								Cluster flats							
Sheltered housing		····						Sheltered housing							ļ
Bedsit/studios			ļ					Bedsit/studios							ļ
Unknown type			<u> </u>					Unknown type							
	To	otals	(a + b	+ C +	d+e	+f+g)=	0		T	otals	(a+b	ተርተ	d+e	+f+g)=	0
			.		0 - 1		Total		T 1		N le	. f	ב		Total
Key worker	Not known	1	Numb 2	per or		unknown	TOtal	Key worker	Not known	1	Numb 2	3		Unknown	1 Otal
Houses						·		Houses					-		
Flats and maisonettes								Flats and maisonettes		٠					
Live-work units								Live-work units							
Cluster flats		. — . – <u>.</u> .						Cluster flats							
Sheltered housing								Sheltered housing							
Bedsit/studios							,	Bedsit/studios							
Unknown type								Unknown type							
	To	tals	(a + b	+ C+	d+e	+ f + g) =	5		To	otals	(a + b	+ < +	d+e	+f+g)=	0
Total proposed re	esident	ial u	nits	(A + I	3 + C	+ D) =		Total existing	residen	ıtial ı	ınits	(E+	F+G	i+H)=	
										-	-				
TOTAL NET GAIN or	LOSS of	RES	IDEN	TIAL	JNITS	(Propose	d Hou	sing Grand Total - Exis	ting Ho	usin	g Grai	nd To	tal):		

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If yo	ou have answered Yes to			ase add details	in the follow	ing table:	
υ	se class/type of use	Existing gross internal floorspace (square metres)		Gross internation to be lost by use or de (square	change of molition	Total gross internal floorspace proposed (including change of use)(square metres)	Net additional gross internal floorspace following developmer (square metres)
A 1	Shops						
	Net tradable area:						
A2	Financial and professional services						
А3	Restaurants and cafes						
A4	Drinking establishmen	ts 🔲					
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			 			
C2	residence Residential institutions			·····	1		
D1	Non-residential						
D2	institutions Assembly and leisure						
OTHER							
Please						0 d V	
pecify	Total			~			
in add	lition, for hotels, residen	tial inst	titutions and hos	tels please ad	ditionally indi	cata the loss or gain of	rooms
	Type of use Not applicable		ng rooms to be lo of use or demo	st by change	Total rooms	proposed (including nges of use)	Net additional rooms
C1	Hotels 🗌						
	Residential Institutions						
THER				,			
lease secify							
	oloyment						
_	mplete the following inf	ormatic	on regarding em	ployees:			
			Full-time	Part-	time		ıl full-time
Exis	ting employees		D	0		ec	uivalent
Prop	osed employees	0		0		<u> </u>	
. Hou	rs of Opening			1	1		
Please	state the hours of open	ing for	each non-reside	ntial use propo	sed:		
	Use M	onday t	to Friday	Saturday	,	Sunday and Bank Holidays	Not known
V/	A						
	·						

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22. Industrial or Commercial Proce	sses and Machinery							
be carried out on the site and the end produ	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 develo	pment? Yes 📝 No							
If the answer is Yes, please complete the foll	owing table:							
·	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 operational throughput in tonnes (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 operati	onal throughput of the following waste streams:							
Municipal								
Construction, demolition and e								
Commercial and industr	al							
Hazardous		a data-minad Vous-wacto						
If this is a landfill application you will need to planning authority should make clear what i	provide further information before your application can be nformation it requires on its website.	e determined Tour waste						
23. Hazardous Substances								
Does the proposal involve the use or storage the following materials in the quantities state	of any of ed below? Yes No No Not applicable	· •						
If Yes, please provide the amount of each sul	ostance that is involved:							
Acrylonitrile (tonnes)	Ethylene oxide (tonnes)	Phosgene (tonnes)						
Ammonia (tonnes)	Hydrogen cyanide (tonnes) Sulph	ur dioxide (tonnes)						
Bromine (tonnes)	Liquid oxygen (tonnes)	Flour (tonnes)						
Chlorine (tonnes)	uid petroleum gas (tonnes) Refined w	rhite sugar (tonnes)						
Other:	Other:							
Amount (tonnes):	Amount (tonnes):	The second secon						

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24. Ownership 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 (Development Management Procedure) (England) Order 2010 Certificate under Article 12 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

which the application relates	المستقرات	m , (mm) (1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1
Signed - Applicant:	Or signed - Agent:	Date (DD/MM/YYYY):
		Z8-11-11
I certify/ The applicant certifies that I h	CERTIFICATE OF OWNERSHIP - CERTIFICATE B evelopment Management Procedure) (England) Order 2019 have/the applicant has given the requisite notice to everyone e- tion, was the owner (owner is a person with a freehold interest or Iding to which this application relates	else (as listed below) who, on the day
Name of Owner	Address	Date Notice Served
Signed · Applicant:	Or signed - Agent:	Date (DD/MM/YYYY):
100		
interest or leasehold interest with been unable to do so The steps taken were:	a at least 7 years left to run) of the land or building, or of a part of	it, but I have/ the applicant has
Name of Owner	Address	Date Notice Served
	Addicas	
Notice of the application has been publicirculating in the area where the land is	ished in the following newspaper on the following than 21 days before	date (which must not be earlier ore the date of the application):
igned - Applicant:	Or signed - Agent:	Date (DD/MM/YYYY):

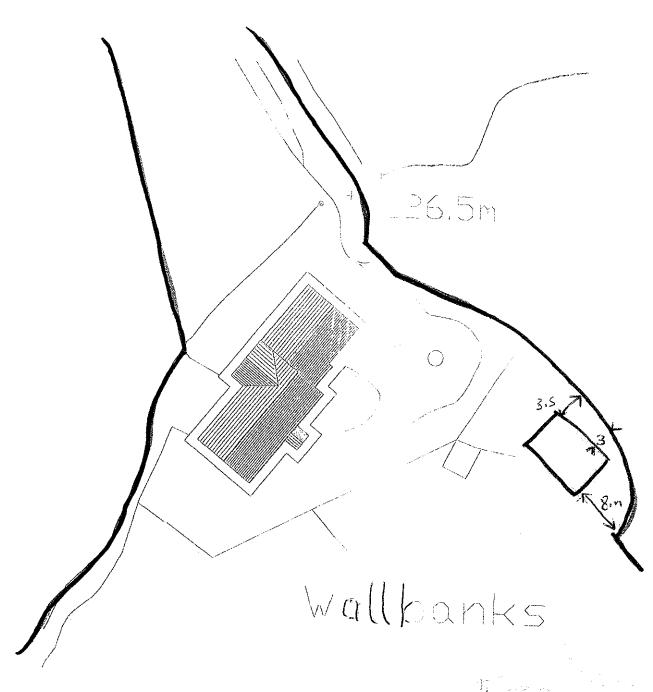
		320110998P
24. Ownership Certificates (continue	ERTIFICATE OF OWNERSHIP - CERT	
I certify/ The applicant certifies that: Certificate A cannot be issued for this a All reasonable steps have been taken t date of this application, was the owner of any part of the land to which this ap	application to find out the names and addresses of the property of the propert	of everyone else who, on the day 21 days before the
The steps taken were:		
Notice of the application has been published in (circulating in the area where the land is situat	n the following newspaper ed):	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):
25. Agricultural Land Declaration Town and Country Planning (Developm Agricultural L	AGRICULTURAL LAND DECLARAT nent Management Procedure) (Eng and Declaration - You Must Complete	land) Order 2010 Certificate under Article 12
(A) None of the land to which the application to Signed - Applicant:	relates is, or is part of, an agricultural i Or signed - Agent:	holding Date (DD/MM/YYYY):
Signed - Applicant		28-11-11
(B) I have/ The applicant has given the requisit before the date of this application, was a tenat	re notice to every person other than not of an agricultural holding on all or	
as listed below: Name of Tenant	Address	Date Notice Served
at the live of	Or signed - Agent:	Date (DD/MM/YYYY):
Signed - Applicant:	Of Signed Agents	
26. Planning Application Requireme	ents - Checklist	
	re you have sent all the information in ition being deemed invalid lt will no	n support of your proposal Failure to submit all t be considered valid until all information required by
The original and 3 copies of a completed and o	dated The correc	
application form: The original and 3 copies of the plan which ide	entifies if required	nal and 3 copies of a design and access statement, if (see help text and guidance notes for details):
the land to which the application relates drawl identified scale and showing the direction of N	n to an The origin Ownershi	nal and 3 copies of the completed, dated p Certificate (A, B, C, or D - as applicable):
The original and 3 copies of other plans and do information necessary to describe the subject	of the sphilestion: () The offoli	nal and 3 copies of the completed, dated Certificate (Agricultural Holdings):

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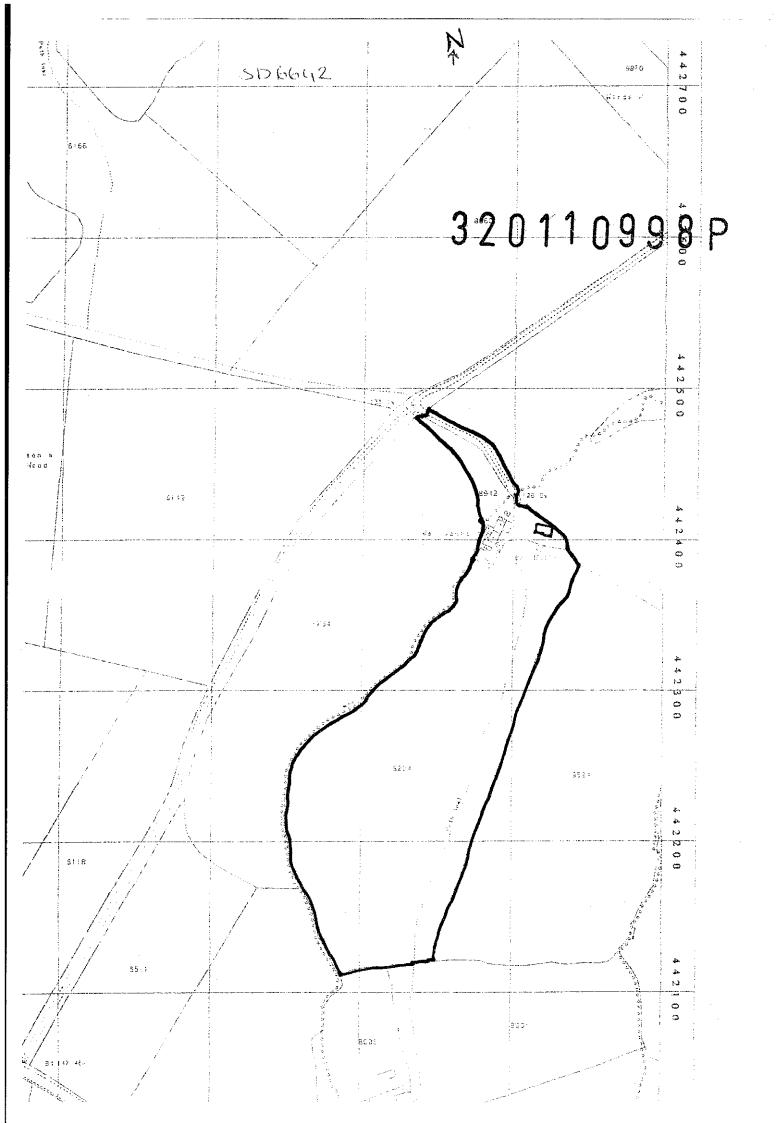
27. Declaration	ont as described in th	his form and the accompanying plans/drawings and additional
information		
Signed - Applicant:	Or signed - Agent:	Date (DD/MM/YYYY): 28 -/ (-/ date cannot be pre-application)
28. Applicant Contact Details		29. Agent Contact Details
Telephone numbers		Telephone numbers
Country code: National number:	Extension number:	Country code: National number: Extension number:
Country code: Mobile number (optional):		Country code: Mobile number (optional):
Country code: Fax number (optional):		Country code: Fax number (optional):
Email address (optional):		Email address (optional):
30. Site Visit		
Can the site be seen from a public road, public fo	otpath, bridleway o	r other public land? Yes No
If the planning authority needs to make an appo out a site visit, whom should they contact? (Pleas	intment to carry e select only one)	Agent Applicant Other (if different from the agent/applicant's details)
If Other has been selected, please provide:		Telephone number:
Contact name:		receptione number.
Email address:		

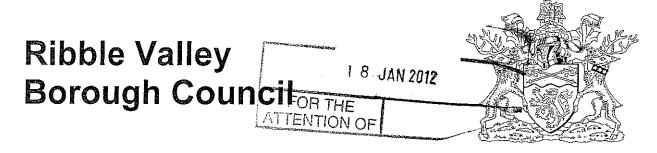
Logation Plant.

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Sile Plan - 1500





DESIGN AND ACCESS STATEMENT **PRO-FORMA** 320110998P

From the 10 August 2006, planning applications relating to certain types of developments are required to be submitted with a design and access statement. When submitting an application, failure to provide a design and access statement of sufficient standard may result in a delayed registration of the application

What Applications Need to be Accompanied by a Design and Access Statement?

Most planning applications have to be accompanied by a design and access statement, the exceptions being:

- material change in the use of land or buildings, unless it also involves operational development;
- engineering or mining operations;

the setting of the development?

development of an existing dwellinghouse, or development within the curtilage or a dwellinghouse for any purpose incidental to the enjoyment of the dwellinghouse, where no part of that dwellinghouse or curtilage is within a designated area or is a listed building 'Designated Areas' include: • Conservation Areas; • Sites of Special Scientific Interest (SSSI); and • Areas of Outstanding Natural Beauty (AONB).

Process What factors have you considered when deciding upon the use, design, scale, layout and materials used in the proposed development? of plot, other nearby buildings, effects on landscape llse What will the extension/development be used for and justify why this is necessary? Used for string animal feed and how ster to keep it day and free of vermin. Also storing machinery to be used on the land to keep it day and secure Amount

What is the proposed size of the extension/development and why is this necessary and appropriate for

the setting of the development?

Size is 62 m² - floorspace which is adequate for the requirements.

Also two building on site are to be removed.

Layout Why have you chosen the layout specified in the planning application and how did you eliminat alternative options?
The legat was chosen because it will fit in with other buildings on site.
Scale Is the scale of the extension/development in keeping with the context of the site and in what way?
The building is in context with the site as it is not big out obtasive.
Landscaping If appropriate, specify the boundary treatments and any landscaping included in the development. You may need to justify why certain materials or planting have been used?
Herdstereling crea will be made to front and side of building Boundary Pence will be replaced and trees planted to rear.
Appearance Specify how the extension/development fits in terms of its appearance and include details of materials to be used
The wells are to be cled with local gitstone to match near paperness. But to be blue state to match
Rot to be blue side to moteh
Access
Explain how the extension/development will be accessed by vehicles and people. You should consider the need for access by all members of society and emergency vehicles
Building will be accessed by large grase type abor and

1 8 JAN 2012

ADDITIONAL INFORMATION REQUIRED FOR NEW AGRICULTURAL BUILDINGS AND FARMHOUSES



Ribble Valley Borough Council Application No:

Agricultural /Countryside Planning Application

320110998 P

(Please note if the proposal is for a non-agricultural building question	ns relating to labour workforce will not be relevant)
Applicant Name Doid Inchem Application site Wellberles to C Proposed Development Storage build Previous Applications	•
Application site Wellberles to	2hacles
Proposed Development Storage hould	2.5
Previous Applications	25
The second of th	TERMINITED TO THE CONTRACT OF
1. Land	
Owned 3 Acres	B. Coll. of Baseline of the control of the second of the s
HARTON OF BUILDING ORDER LITTLE STREET STREET, STREET STREET, 24 TO THE STREET STREET, STREET STREET, STREET,	
Rented	

Short-term Land use: Pasture Meadow	Member 1 Met
Land Quality (DA/SDA/NVZ)	 Control of the control of the control
2. Enterprise	
Dairy: Pedigree/commercial Dairy Cows	

n-calf heifers Bulling heifers	
Young stock	Milk Quota
Beef Breeding: suckler cows	
Dalving Heifers	
Beef Rearing: Store Cattle (ages)	
BUTTANNA CARAMATA CA	
Calves Age at purchase Age	
Sheep: Pedigree/commercial. Breeding ewes	
ambing period	d location
Other No livestack as xet, h	pin to preace the
other No livestacle as xet, he ground first - discinge etc	
	ert om de permittististististististististististististi

3. Labour & Accommodation

Name	Age	Basis (F/t, P/t, Cas)	Hours of work/length	Main duties	Address and years
				·	
Misc					
Existing Dwellings .		pportragneris klimatik († 64	ренем журоветт телет		SSST HEATTENANT OF STREET
Other Properties (in	cl. occupiers	5)		a waa kaada a ca ba ca ka a waa ca c	
Previously owned p					
Available properties	in locality	1. h	r nei Melas e de la Mesa Mesa e P. P. E.	April March 1984 and	gravitatian aktimbel keburu
4. Proposed Develo					
Need					
#1555 K 1 (1 ST #1) C #1 E E E E E E E E E					
и с поли я , с и ст. тит. и с с т. т. е 0.1 бето 0					
Siting					
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7. Farm Buildings

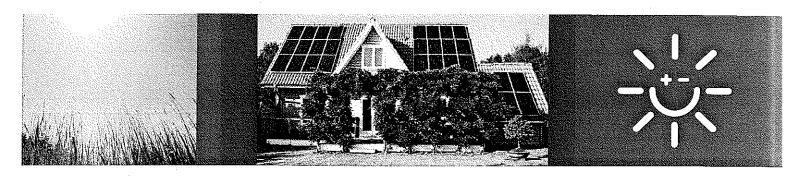
(Please give details of existing farm buildings and their uses)

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Monocrystalline silicon photovoltaic modules



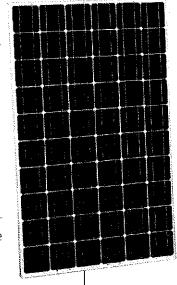
Say yes to solar power! Because it protects the climate.

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Innovations from a photovoltaic pioneer

As a solar specialist with more than 50 years of experience in photovoltaics (PV), Sharp makes significant contributions to groundbreaking progress in solar technology

Sharp photovoltaic modules in the NU series are designed for applications with high power requirements. These quality monocrystalline modules produce a continuous, reliable yield, even under demanding operational conditions



All Sharp NU series modules offer system integration which is optimal both technically and economically, and are suitable for installations in on and off-grid PV systems

Certificates and approvals

All modules are tested and certified according to

- IEC/EN 61215 and IEC/EN 61730, Application class A
- Safety class II
- **■** (E

Sharp is certified based on

■ ISO 9001:2008 and ISO 14001:2004

Product features

- High-performance photovoltaic modules made of monocrystalline (156 5 mm)² silicon solar cells with module efficiencies of up to 14 3 %.
- Production controlled positive power tolerance from 0 to +5%
 Only modules will be delivered that have the specified power or more for high energy yield
- Delivery of modules in 5-watt intervals
- Improved temperature coefficient to reduce power losses at higher temperatures
- High power performance even at lower irradiations

Quality from Sharp

Benchmarks are set by the quality standards of Sharp Solar Continual checks guarantee a consistently high level of quality Every module undergoes visual, mechanical, and electrical inspection. This is recognisable by means of the original Sharp label, the serial number, and the Sharp guarantee:

- 5-year product guarantee
- 10-year performance guarantee on a power output of 90%
- 25-year performance guarantee on a power output of 80%

The detailed guarantee conditions and additional information can be found at www.sharp.eu/solar.

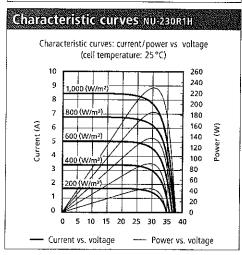
Electrical data (at STC)						
		NU-235R1H	NU-230R1H	NU-225R1H	NU-220R1H	
Maximum power	P _{max}	235	230	225	220	W_p
Open-circuit voltage	V _{oc}	37 9	37 7	37 5	37 3	v
Short-circuit current	I _{sc}	8 49	8 43	8 37	8 31	Α
Voltage at point of maximum power	·V _{mpp}	30 3	30 0	29 7	29 4	٧
Current at point of maximum power	l _{mpp}	7 76	7 67	758	7 49	Α
Module efficiency	η _m	143	14 0	13 7	13.4	%
STC = Standard Test Conditions: irradiance 1,000 V Rated electrical characteristics are within $\pm 10\%$ of	N/m², AM 1.5, cell tempo the indicated values of I	erature 25 °C. _{SC} , V _{OC} and 0 to +5% of P _m	ax (power measurement t	olerance ±3%).		

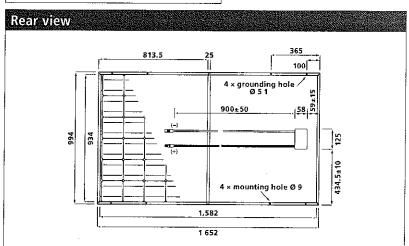
		NU-235R1H	NU-230R1H	NU-225R1H	NU-220R1H	
Maximum power	P _{max}	169 7	166 1	162 5	158 9	W_p
Open-circuit voltage	V_{oc}	371	37 0	36.8	36 6	٧
Short-circuit current	^f sc	6 84	6 79	6 75	6 70	А
Voltage at point of maximum power	V_{mpp}	27 2	26 9	26 6	26 3	V
Nominal Operating Cell Temperature	NOCT	47 5	47 5	47 5	47 5	°C

Limit values	
Maximum system voltage	1 000 V DC
Over-current protection	15 A
Temperature range	-40 to +90°C
Maximum mechanical load	2,400 N/m²

Mechanical o	lata
Length	1 652 mm (+/-3 0 mm)
Width	994 mm (+/-2 0 mm)
Depth	46 mm (+/~0 8 mm)
Weight	19 kg

Temperatu	re coefficient
P _{max}	−0 457 % / °C
Voc	−0 323 % / °C
l _{sc}	+0.020 % / °C





General data

Connector

Cells monocrystalline 156 5 mm × 156 5 mm 60 cells in series

Front glass low iron tempered glass, 3 mm
Frame anodized aluminium alloy silver

Connection box PPE/PPO resin IP65 rating $58 \times 125 \times 15$ mm 3 bypass diodes

Cable 4 mm² length 900 mm

SMK (MC4 compatible) Type CCT9901-2361F/2451F (Catalogue no P51-7H/R51-7) IP67 rating

To extend the module connection leads, only use SMK connector from the same series or MultiContactAG MC4 connector (PV-KST04/PV-KBT04)

Registration

Sharp Solar guarantees the safety, quality and value of your product over many years — the only thing we ask you to do is to register your modules with the serial number, so that we can send you the guarantee certificate Register your modules quickly and easily at www brandaddedvalue. net

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