



New Lodge Community Centre, New Lodge Crescent, Barnsley S71 1SH

Barnsley Metropolitan Borough Council

Erection of new extension (8.4m²) with a monopitch roof to the south facing gable and replacement of the existing metal sheet pantile effect roof with new concrete pantile covering and photovoltaic installations. Replacement cladding to the east and west facing gable elevations. External works to include resurfacing, a new fenced compound area and new boundary fencing. Internal refurbishment.

Planning Application | P1

20 July 2023

BC2206 2

Design and Access Statement

New Lodge Community Centre

Project no: BC2206 2
 Document title: Erection of new extension (8.4m²) with a monopitch roof to the south facing gable and replacement of the existing metal sheet pantile effect roof with new concrete pantile covering and photovoltaic installations. Replacement cladding to the east and west facing gable elevations. External works to include resurfacing, a new fenced compound area and new boundary fencing. Internal refurbishment.
 Document No. Design and Access Statement
 Revision: P1
 Date: 20 July 2023
 Client name: Barnsley Metropolitan Borough Council
 Client no:
 Project manager: Andrew Bardon
 Author: Marcus Storey
 File name: S:\Property\00000 - EXTERNAL CLIENTS\Barnsley MB Council\BC2206 - BMBC Principal Towns Sch 22 -25\2. New Lodge Comm Centre\00 Internal Admin\07 Authority

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Document history and status

Revision	Date	Description	By	Review	Approved
P1	20.07.2023	Design and Access Statement	MJS	BJL	NRL

Limitations

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1. Introduction

1.1 The Applicant

This planning support statement has been prepared by Align Property Partners to support a full planning application submitted on the behalf of Barnsley Metropolitan Borough Council.

1.2 Application Description

Erection of new extension (8.4m²) with a monopitch roof to the south facing gable and replacement of the existing metal sheet pantile effect roof with new concrete pantile covering and photovoltaic installations. Replacement cladding to the east and west facing gable elevations. External works to include resurfacing, a new fenced compound area and new boundary fencing. Internal refurbishment.

1.3 Supporting Statement

This document provides background and technical information required to assist in determining the planning application. Its primary purpose is to set out the key planning considerations and how these are addressed in the design of the proposed development.

1.4 Supporting Documentation and Drawings

The following plans and documents are provided as part of the planning application:

Document No.	Rev	Title	Scale
BC2206 02-APP-XX-XX-DR-B-000001	P1	Site Location Plan	1:1250
BC2206 02-APP-XX-XX-DR-B-000010	P1	Existing Site Plan	1:200
BC2206 02-APP-XX-XX-DR-B-000020	P1	Proposed Site Plan	1:200
BC2206 02-APP-XX-XX-DR-B-000040	P1	Site Compound Plan	1:200
BC2206 02-APP-XX-XX-DR-B-000120	P1	Existing & Proposed Plans	1:200
BC2206 02-APP-XX-XX-DR-B-000130	P1	Proposed Roof Plans	1:100
BC2206 02-APP-XX-XX-DR-B-000140	P1	Topographical & Utilities Plan	1:200
BC2206 02-APP-XX-XX-DR-B-000200	P1	Existing Elevations	1:50
BC2206 02-APP-XX-XX-DR-B-000220	P1	Proposed Elevations	1:50
	P1	Design and Access Statement	

Table 1 Planning Application Drawings and Documents

2. Site Location and Description

2.1 Site Features and Constraints

New Lodge Community Centre is situated in Barnsley and is accessed via New Lodge Crescent which forms the properties main entrance and will provide a practical access route to be utilised during the building works. The site is surrounded by residential dwellings and is not located within a conservation area with no listed buildings identified.

The community centre has a metal frame structure with red facing brickwork and a red pantile effect metal sheet roof. The windows and doors are predominantly UPVC. The grounds comprise small tarmac yards with grassed areas and a metal spear top boundary fence.

3. Detailed Description of Proposal

3.1 Reason for Development

The property is run down with some of the building materials coming to the end of their useful life requiring replacing and refurbishment. The extension will provide a new office and create new space internally for storage. Decarbonisation has been considered with the introduction of new solar panels and an air source heat pump. The overall outlook is to create a comfortable and useful space for the community.

3.2 Scale

The extension will increase the scale of the building by 8.4m².

3.3 Appearance

The proposal aims to maintain the existing aesthetic of the property as far as reasonably practicable using materials to match the existing.

3.4 Layout

Minor alterations will be made to the layout internally and local to the extension in order to create new storage space.

3.5 Use

The building will continue to be used as a community centre.

3.6 Amount

The overall building size will be slightly increased by the extension however it will be in keeping with the existing building proportions as far as reasonably practicable.

3.7 Access

Existing access and egress routes will be maintained.

3.8 Landscaping

Resurfacing tarmacadam yards and footpaths to the building perimeter, Install a new Scandinavian Redwood close boarded timber fence compound area for the air source heat pump to the south facing elevation and a new metal bow top boundary fence 1.8m (h) to replace the existing metal spear top fence.

3.9 Risk from Flooding

The site does not lie within an area with a history of flooding.

4 Conclusion

In conclusion, the applicant seeks permission to construct a new extension, install a new concrete pantile roof covering, install photovoltaic panels and air source heat pump with timber fence compound area, resurface yards and footpaths, replace and install new boundary fencing and internal refurbishment. Materials will be to match the existing as far as reasonably practicable and the proposals will not degrade the architectural merit of the existing property.

Appendix A – Photovoltaic Panels

Hi-MO 4m

LR4-72HIH 445~465M

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - M6 Gallium-doped Wafer
 - 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

12

12-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

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

ISO 45001: 2018: Occupational Health and Safety

LONGI



21.4%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

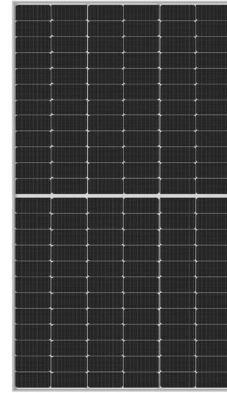
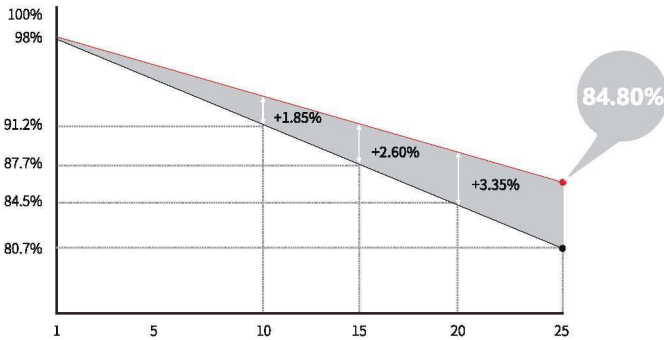
<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

HALF-CELL
Lower operating temperature

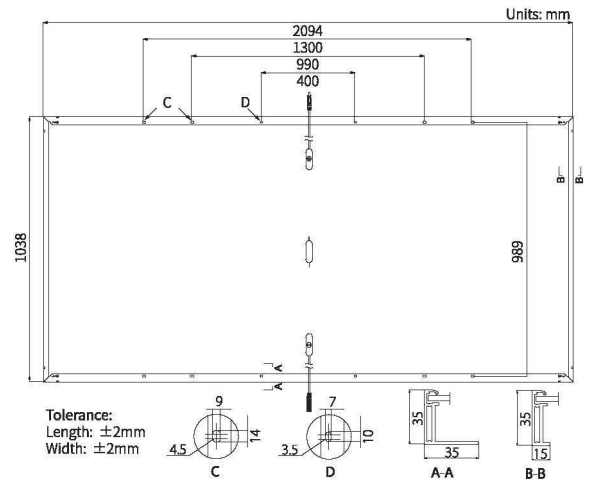
Additional Value

25-Year Power Warranty



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24.3kg
Dimension	2094×1038×35mm
Packaging	30pcs per pallet / 150pcs per 20' GP / 660pcs 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	LR4-72HIH-445M		LR4-72HIH-450M		LR4-72HIH-455M		LR4-72HIH-460M		LR4-72HIH-465M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	445	334.3	450	338.0	455	341.8	460	345.5	465	349.3
Open Circuit Voltage (Voc/V)	49.1	46.2	49.3	46.4	49.5	46.5	49.7	46.7	49.9	46.9
Short Circuit Current (Isc/A)	11.53	9.35	11.60	9.41	11.66	9.46	11.73	9.51	11.79	9.56
Voltage at Maximum Power (Vmp/V)	41.3	38.4	41.5	38.6	41.7	38.8	41.9	39.0	42.1	39.2
Current at Maximum Power (Imp/A)	10.78	8.70	10.85	8.75	10.92	8.81	10.98	8.86	11.05	8.91
Module Efficiency(%)	20.5		20.7		20.9		21.2		21.4	

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	20A
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	-0.265%/°C
Temperature Coefficient of Pmax	-0.340%/°C

Appendix B – Air Source Heat Pump

PUZ-HWM140VHA(-BS)

Ecodan R32

Monobloc Air Source Heat Pump

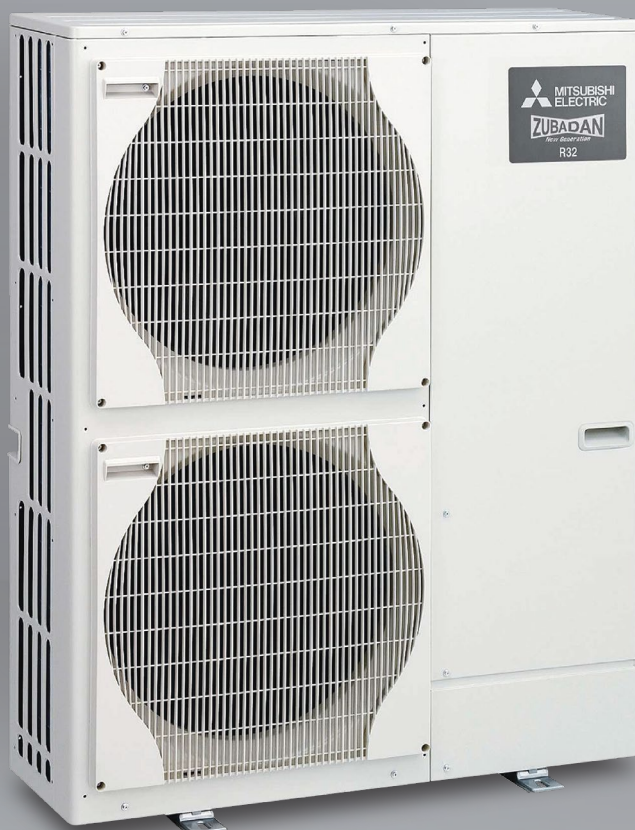


Key Features:

- A+++ high efficiency system
- Compact design
- Maintains full heating capacity at low temperatures
- Zero carbon solution
- MELCloud enabled

Key Benefits:

- Ultra low running cost
- Minimal installation space required
- Confident and quick product selection
- Help to tackle the climate crisis
- Remote control, monitoring, maintenance and technical support



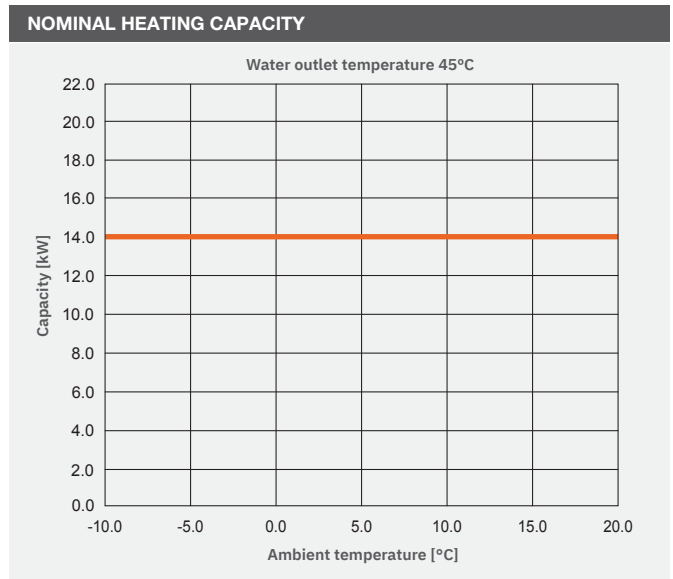
ecodan[®]
Renewable Heating Technology

OUTDOOR UNIT		PUZ-HWM140VHA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++
	η_s	131%
	SCOP (MCS)	3.26
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+++
	η_s	176%
	SCOP (MCS)	4.33
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A+
	η_{wh}	130%
HEATING ² (A-7/W35)	Capacity (kW)	14
	Power Input (kW)	5.71
	COP	2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-28 ~ +35
SOUND DATA ³	Pressure Level at 1m (dBA)	53
	Power Level (dBA) ⁴	67
WATER DATA	Pipework Size (mm)	28
	Flow Rate (l/min)	40.1
	Water Pressure Drop (kPa)	20
DIMENSIONS (mm)	Width	1020
	Depth	330 + 30*7
	Height	1350
WEIGHT (kg)		132
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz
	Phase	Single
	Nominal Running Current [MAX] (A) ⁵	13.8 [35]
	Fuse Rating - MCB Sizes (A) ⁶	40
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	3.3

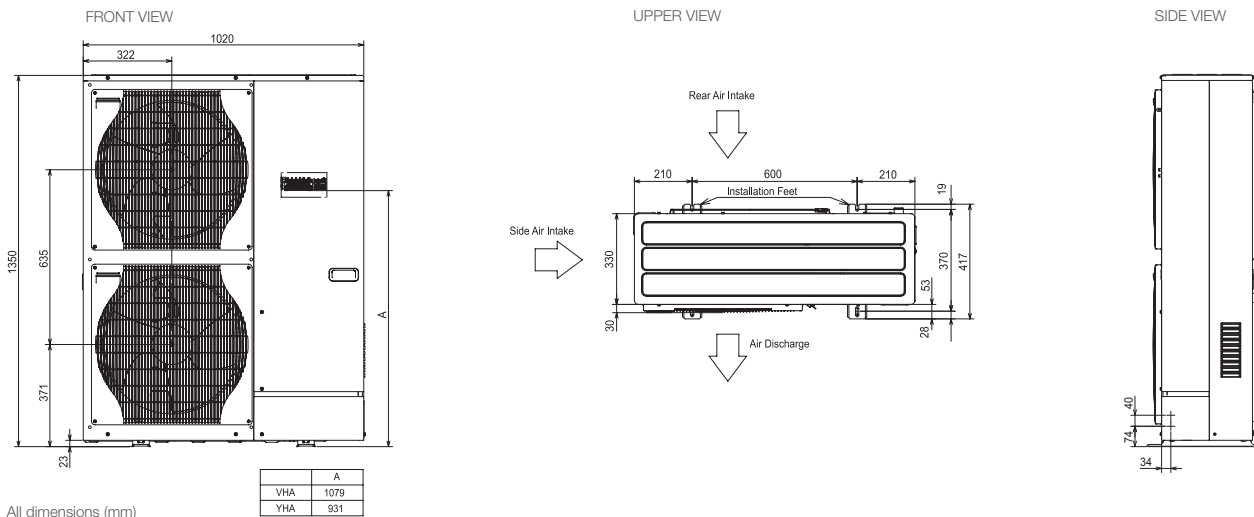
Notes:

- *1 Combination with E*PT20X Cylinder
- *2 Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.
- *3 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.
- Low Noise mode accessory (reference PAC-SA89TA-EP) available for VHA chassis.
- *4 Sound power level tested to BS EN12102.
- *5 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.
- *6 MCB Sizes BS EN60898-2 & BS EN60947-2.
- *7 Grille.

η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency



PUZ-HWM140VHA(-BS) DIMENSIONS



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Changes for the Better

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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of September 2020



Appendix C – Photographs



North Facing Elevation



South Facing Elevation



West Facing Elevation



East Facing Elevation



Boundary Fencing