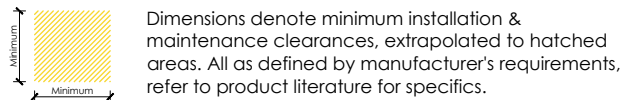
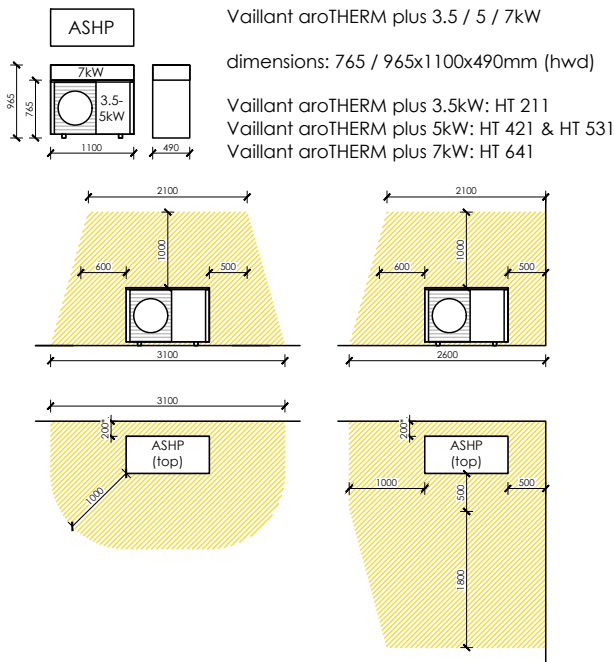


LOW CARBON PLANT

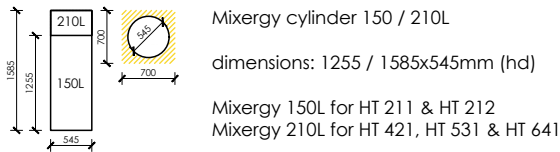


ASHP

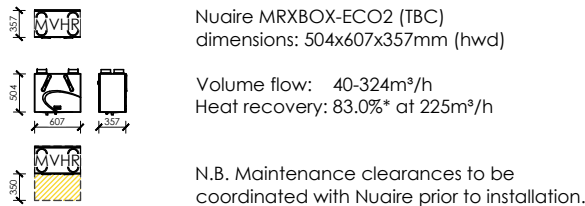


*Clearance for heating only; +50mm if ASHP provides cooling.

Hot Water Cylinder

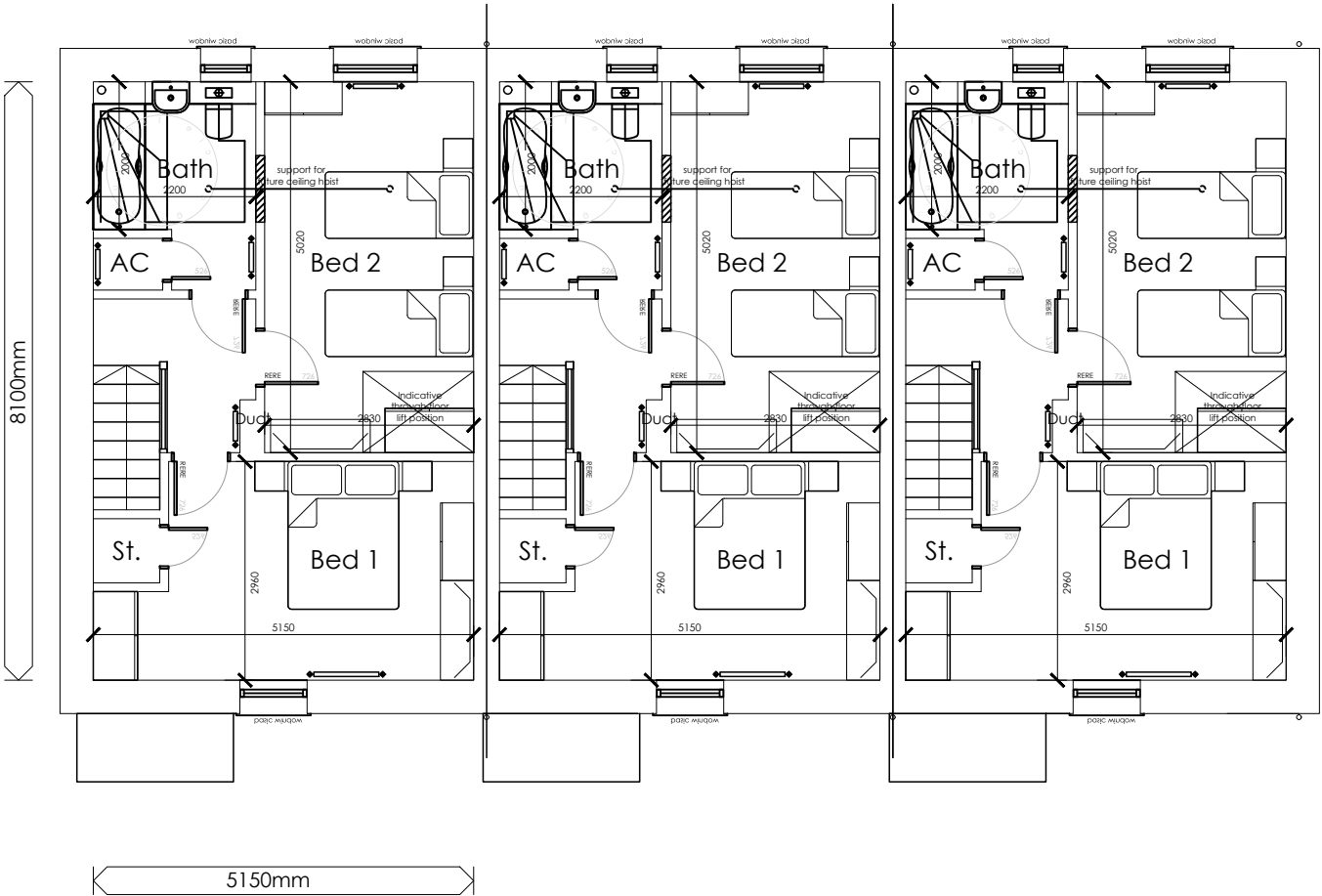


MVHR



Battery Storage

Further discussion is required to consider the impact of PAS 63100 : 2024, which effectively precludes the indoor installation of storage batteries.



4 person, 2 bedroom house GIA: 83.44 sq.m

WDQR21 COMPLIANT CRITICAL DIMENSIONS:

Bedroom 1 Area: 13.45 sq.m

Bedroom 2 Area: 14.21 sq.m

ASSUMED CONSTRUCTIONS

External walls	451mm
Internal walls	120mm
Intermediate floors	300mm

NB: The currently assumed external wall thickness of 451mm requires the use of PIR or similar petrochemical insulants in order to achieve the fabric u-value requirements of WDQR 2021 & revised AD: L (Wales) 2022 that are necessary for delivery of demand-based energy standards.

Increasing the allowance for external wall thickness to a notional 500mm would facilitate both the specification of natural/non-flammable insulation and closer alignment with Delivering Net Zero.

STORAGE

WDQR 2021 General Storage Requirements
4 Person 2 Bedroom House: 2.5m²

GF	
Store	1.17m²
Total:	1.17m²

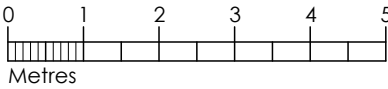
FF	
Airing Cupboard (AC) Store	0.66m²
0.78m²	
Total:	1.44m²

Overall Total Storage: 2.61m²

FLOOR AREA

WDQR 2021 Area Requirements
4 Person 2 Bedroom House: 83m²

GIA: 83.44m²



A3

Original sheet size

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Rev	Date	By	CHK	Description

Client:
Hedyn

Project:
Midway Lane

Drawing Title:
First Floor Plans
421

Drawing Status:
CONCEPT DESIGN

Date:
July 26

Drawn By: | Director | Scale:
cc 1:100 @ A3

Job No:
2800

Opt. | Drawing No.
421(03) 201

Rev.

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