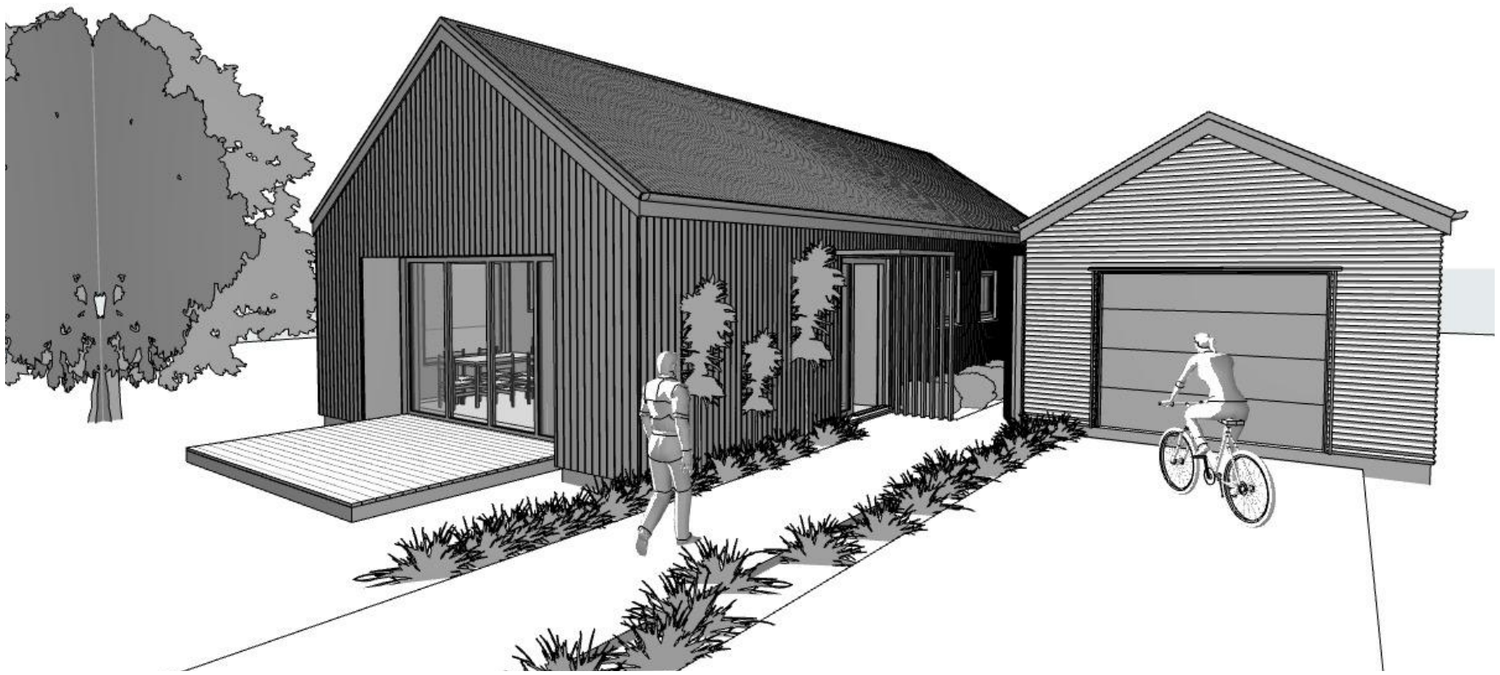
I SHEET INDEX - CONCEPT		
SHEET ID	**SHEET Name**	**REV ID**
A00	COVER PAGE	C
A01	SCHEME 1 FLOOR PLAN	C
A02	ALTERNATIVE FLOOR PLAN FO...	C
A03	ELEVATIONS	C
A04	SECTIONS & WD SCHEDULE	C
A05	3D VIEWS EXTERIOR	C
A06	3D VIEWS INTERIOR	C
A07	KEY HEALTHY HOME SYSTEMS	C
A08	BUILDING PERFORMANCE	C
A09	BUILDING PERFORMANCE	C

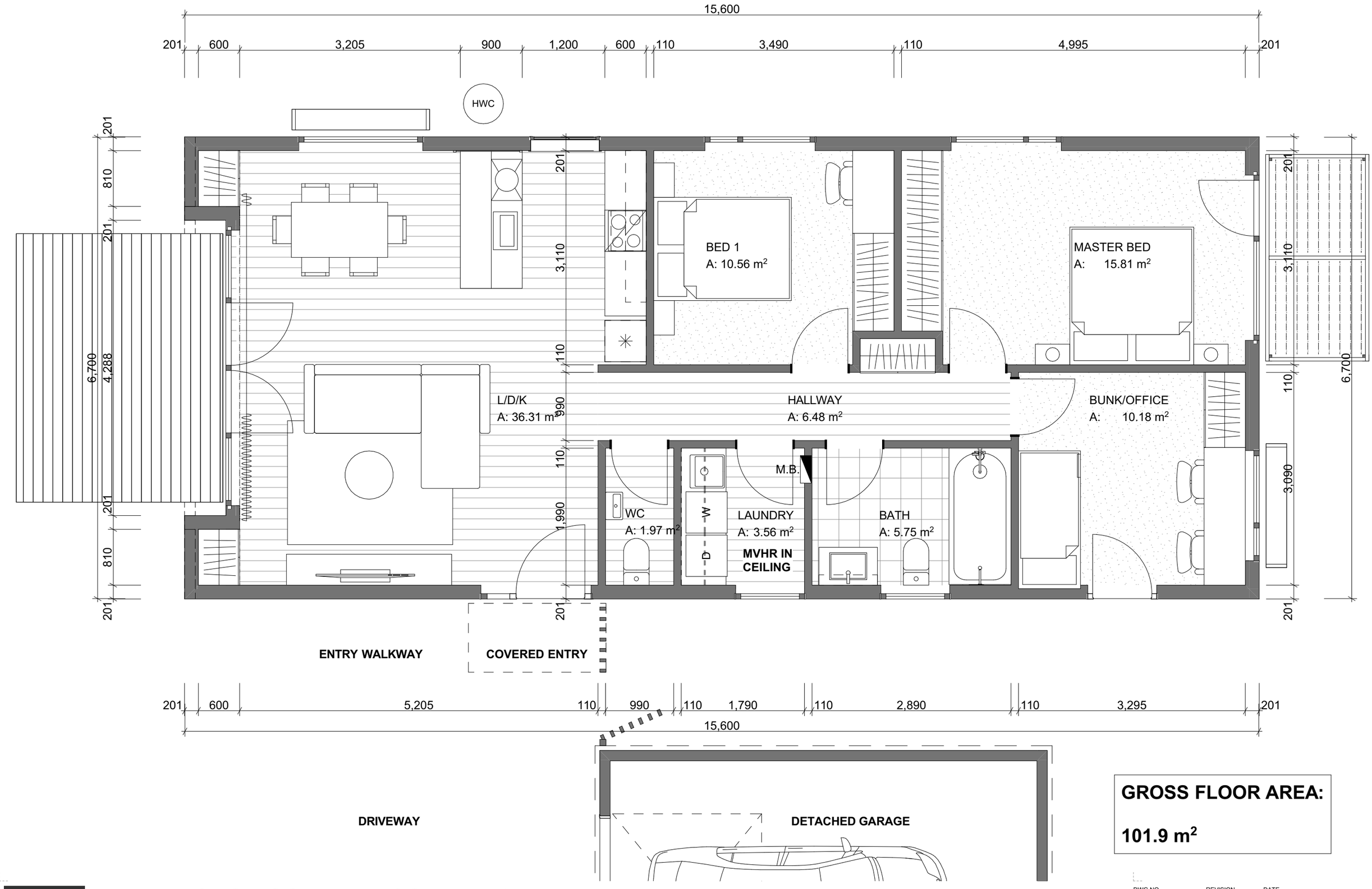


WARM HOUSE COMPANY SCHEME 1

AFFORDABLE HIGH PERFORMANCE PLANS FOR WARM HOUSE COMPANY

CONCEPT
JAN 2022

RESPOND —— ARCHITECTS



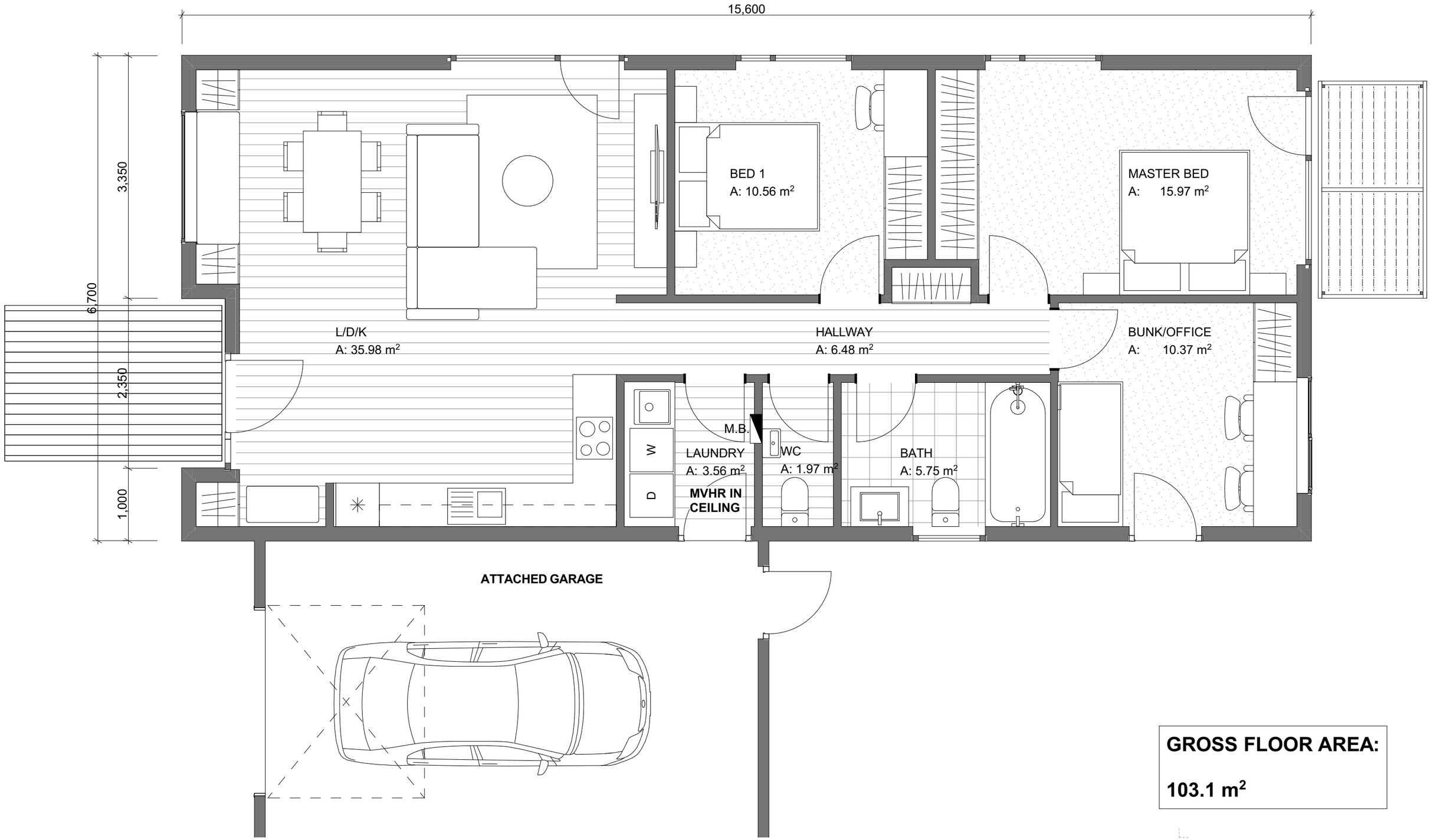
GROSS FLOOR AREA:

101.9 m²

WARM HOUSE COMPANY SCHEME 1

SCHEME 1 FLOOR PLAN

DWG NO.	REVISION	DATE
A01	C	24/01/2022



GROSS FLOOR AREA:

103.1 m²

R — A

WARM HOUSE COMPANY SCHEME 1

ALTERNATIVE FLOOR PLAN FOR ATTACHED GARAGE

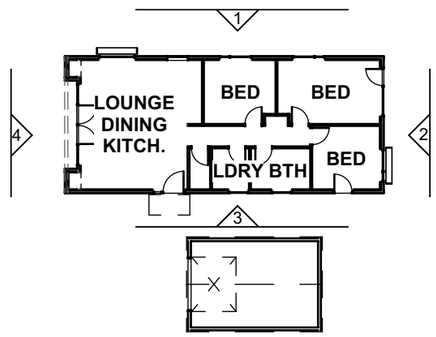
DWG NO.	REVISION	DATE
A02	C	24/01/2022

1 NORTH ELEVATION PROPOSED 1:100

2 EAST ELEVATION PROPOSED 1:100

3 SOUTH ELEVATION PROPOSED 1:100

4 WEST ELEVATION PROPOSED 1:100

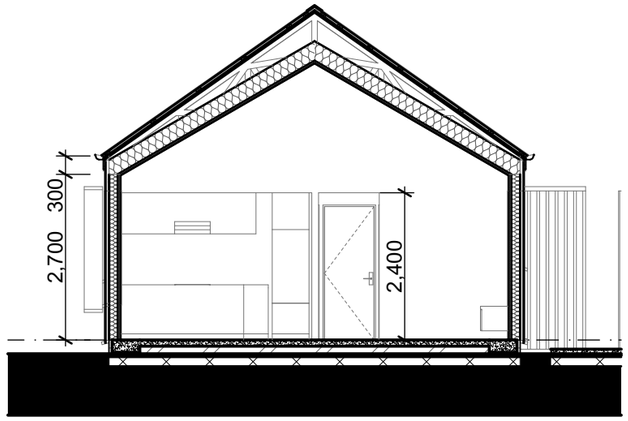


R — A

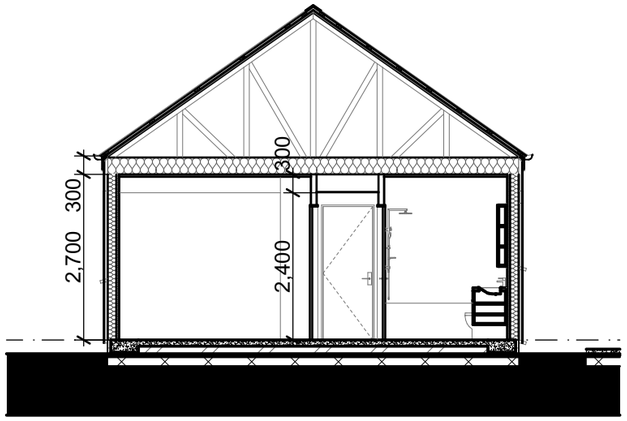
WARM HOUSE COMPANY SCHEME 1

ELEVATIONS

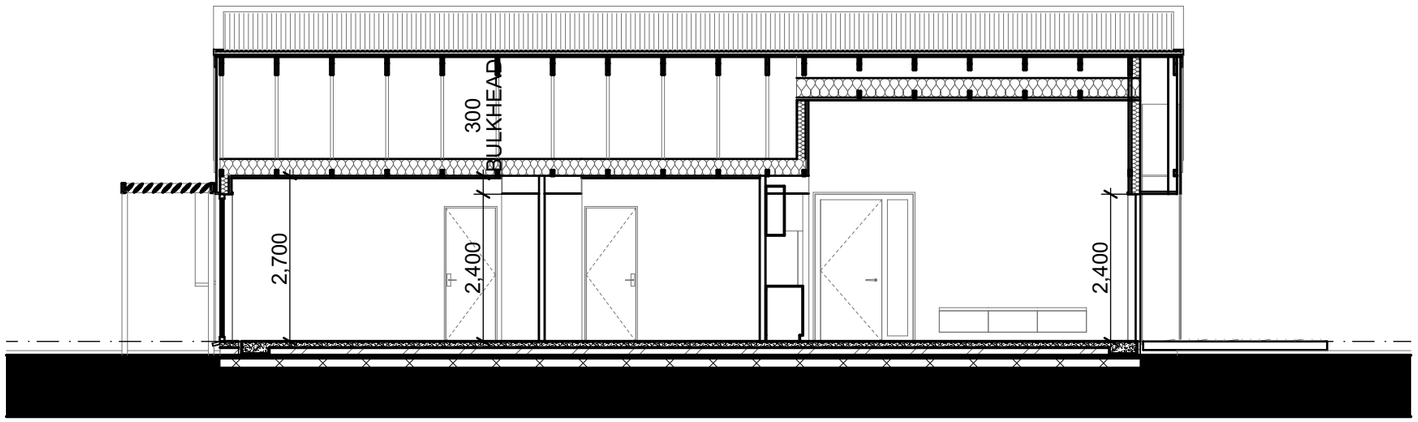
DWG NO. A03
REVISION C
DATE 24/01/2022



1 SECTION A 1:100

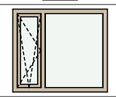
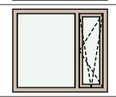
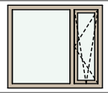


2 SECTION B 1:100



3 SECTION D 1:100

WD TOTAL AREA

ID	QTY	W x H	VIEW FROM OUTSIDE	AREA
D01	1	1,600× 2,400		3.84
D02	1	4,000× 2,400		9.60
D03	1	1,000× 2,400		2.40
W01	1	1,800× 1,800		3.24
W02	1	1,000× 2,400		2.40
W03	1	1,600× 1,400		2.24
W04	1	1,600× 1,400		2.24
W05	1	2,400× 2,400		5.76
W06	1	1,600× 1,400		2.24
W07	1	1,000× 1,000		1.00
W08	1	1,000× 1,000		1.00

35.96 m²

4 WD SCHEDULE 1:1

R — A

WARM HOUSE COMPANY SCHEME 1

SECTIONS & WD SCHEDULE

DWG NO. A04 | REVISION C | DATE 24/01/2022

EXTERIOR 1

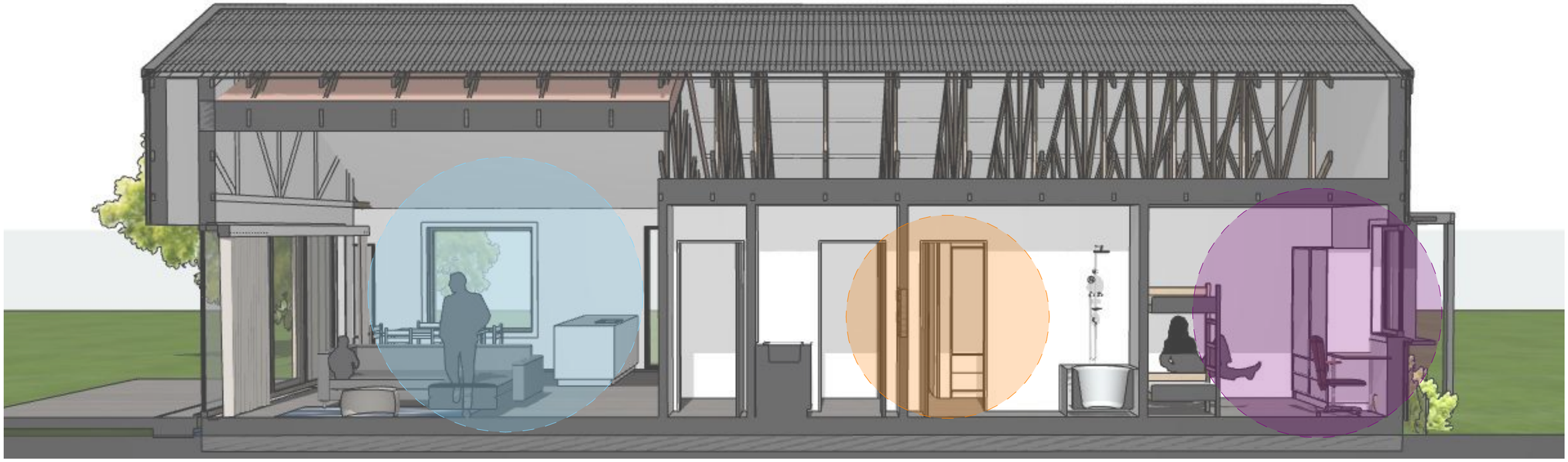
EXTERIOR 2

R — A

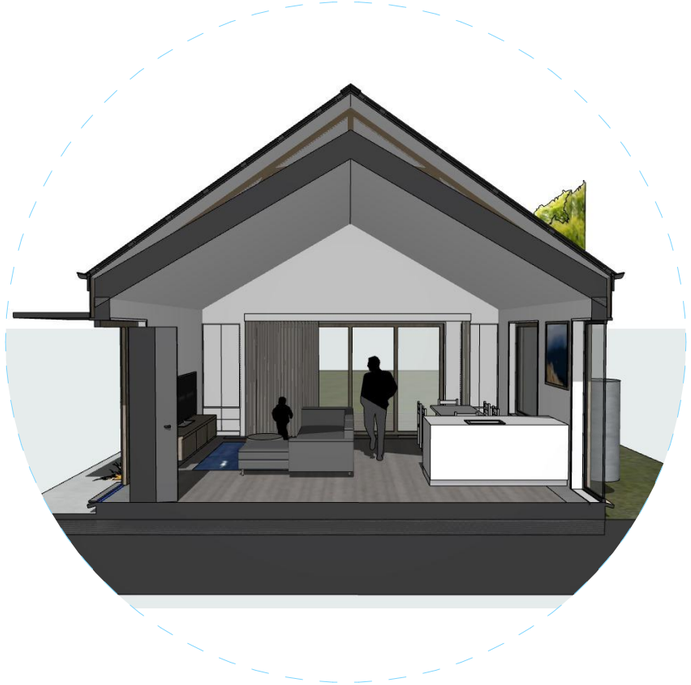
WARM HOUSE COMPANY SCHEME 1

3D VIEWS EXTERIOR

DWG NO.	REVISION	DATE
A05	C	24/01/2022



LONG SECTION



LIVING, DINING, KITCHEN

BATH & LAUNDRY

BEDROOMS

R — A

WARM HOUSE COMPANY SCHEME 1

3D VIEWS INTERIOR

DWG NO.	REVISION	DATE
A06	C	24/01/2022

Timber Aluminium composite frame, triple glazed window

Mid-range centralised heat recovery ventilation system with smart control (In-line connection with heat pump optional)

Fully insulated slab and foundation

Air and vapour control membrane

R — A

WARM HOUSE COMPANY SCHEME 1

KEY HEALTHY HOME SYSTEMS

DWG NO.	REVISION	DATE
A07	C	24/01/2022

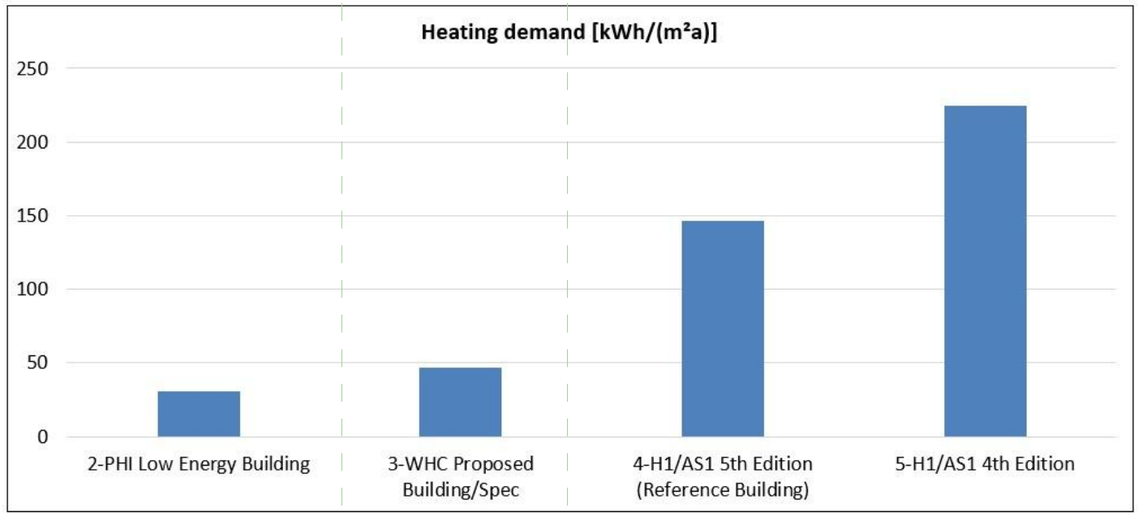
ENERGY MODEL RESULT CHARTS

This building has been energy modelled in PHPP (Passive House Planning Package) software in 4 different building performance standards. They are:
1. PHI Low-energy building
2. WHC proposed building/spec
3. H1/AS1 5th edition (new building code)
4. H1/AS1 4th edition (old building code under transition.)

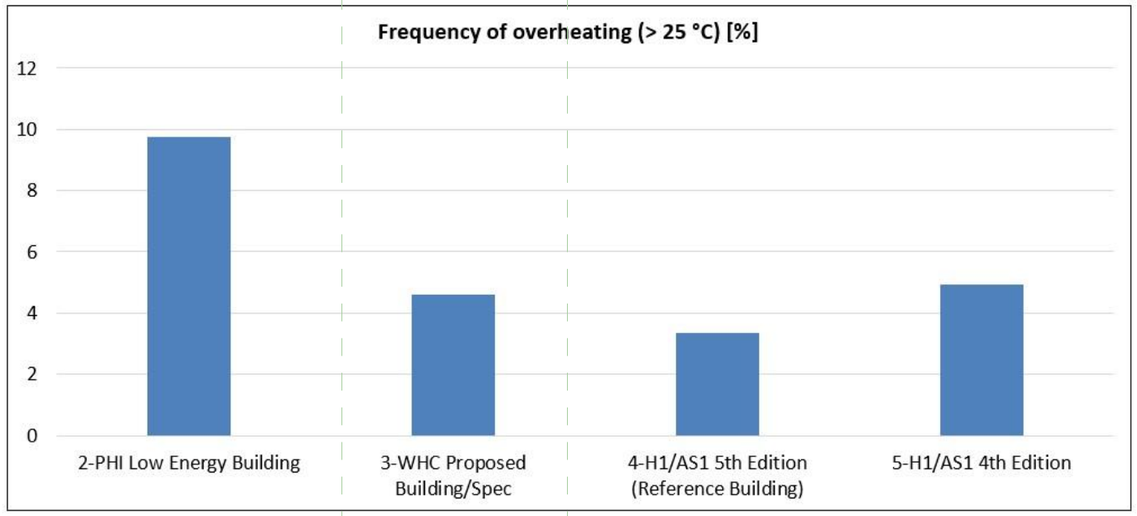
All 4 different oriantations are also assessed with the assumption of neighbours on 3 sides like in a typical subdivision. With even distribution of windows in the current design, the differences are within 10% no matter how we oriantate the building. The shading, however, must be assessed on project by project basis to guarantee optimal performance.

The performance comparison charts on the right will show you how easy to keep warm in winter and how the house naturally stay cool enough in summer.

Please refer to the next page for detailed break down of the results and specs.



The heating demand of the Warm House Company building comsumes 3X less energy compared to the new building code and 4X+ vs the old building code.



The overheating potential in summer with adequate shading means our proposed building overheats less than 5% in a year. This is based on the worst case oriantation senario and all windows closed.

R — A

WARM HOUSE COMPANY SCHEME 1

BUILDING PERFORMANCE

DWG NO. A08 | REVISION C | DATE 24/01/2022

ENERGY MODEL RESULT TABLE AND SPEC

	Select the active variant here >>>>>>>	PHI Low Energy Building	WHC Proposed Building/Spec	H1/AS1 5th Edition (Reference Building)	H1/AS1 4th Edition
	Units	2	3	4	5
Heating demand	kWh/(m²a)	30.4	46.8	146.3	224.3
Frequency of overheating (> 25 °C)	%	9.7	4.6	3.3	4.9

Floor	The energy model reveals the difficulty of achieving a certified project without specific windows and doors design to optimise solar gain and essential shading on specific site. Therefore, the general spec reference is unavailable	R4.0 Fully insulated slab and edges	R1.7 Only edge insulation	R0.8-1.0 Uninsulated slab and edges
Wall		R4.4 140+45mm counter insulated wall framing / insulation	R2 Insulated 90 framing with high timber content	R2 Insulated 90 framing with high timber content
Roof		R7.6 275+45mm counter insulated roof framing / insulation	R6.6 210+45mm counter insulated roof framing / insulation	R3.3 140mm insulation between framing
Windows		R1.0 Timber frame + Lowe triple glazing	R0.5 Thermally broken aluminium frame + Lowe double glazing	R0.26 Aluminium frame + low tech double glazing
Ventilation		Heat recovery ventilation system up to 72% efficiency	Opening window only	Opening window only
Airtightness		ACH 1 under blower door test with air/vapour control layer	ACH 4-5 under blower door test, air/vapour unregulated	ACH 4-5 under blower door test, air/vapour unregulated