



Optimisation

September 2024
Presented by Jim Woolcock

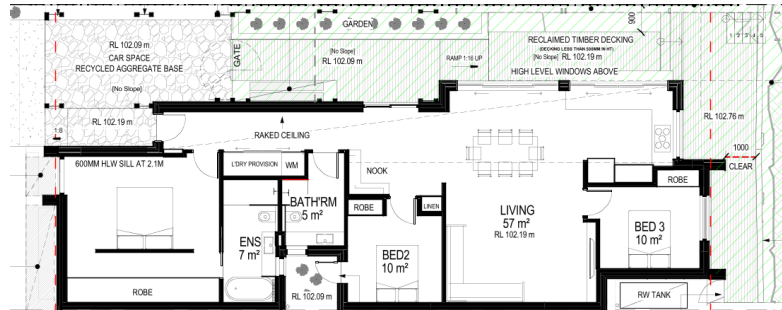
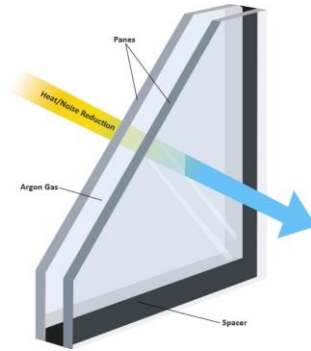
10 STAR
HOME



A NORMAL HOUSE



INPUTS



Nationwide House Energy Rating Scheme
NATHERS Certificate No. 0004466397
 Generated on 22 Feb 2020 using CSIRO Accurate Sustainability V2.4.1.13

Property
 Address: Unit 1, 37 Graham Road - Highgate, VIC, 3190
 Lot/DP: Lot/DP 442528, 10/1 Y
 NCC Class: 1.4
 Type: New Home

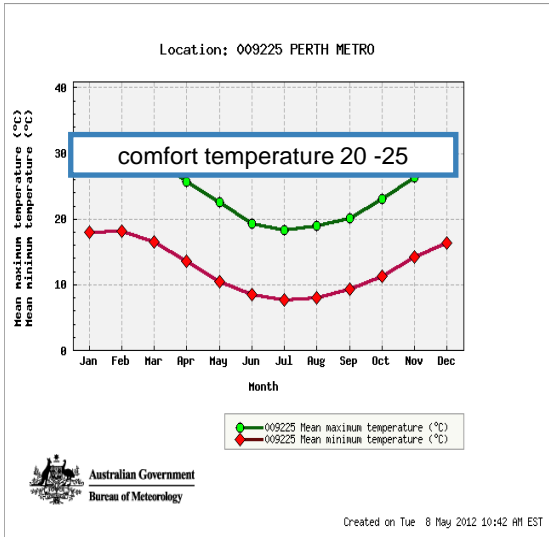
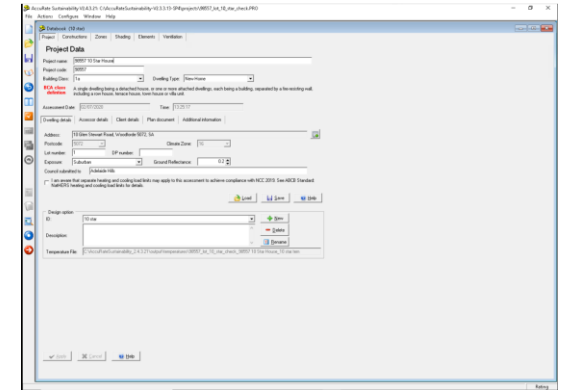
Plans
 Main Plan: 19
 Prepared by: d

Construction and environment
 Assessed floor area (m²): 250.0
 Condition: 200.0
 Unconditioned: 0.0

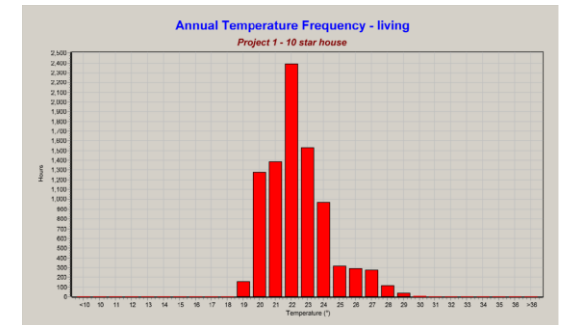
Exposure Type
 Suburban
 NATHERS climate zone: 1

Thermal performance
 Heating: 106.7 MJ/m²
 Cooling: 12.3 MJ/m²

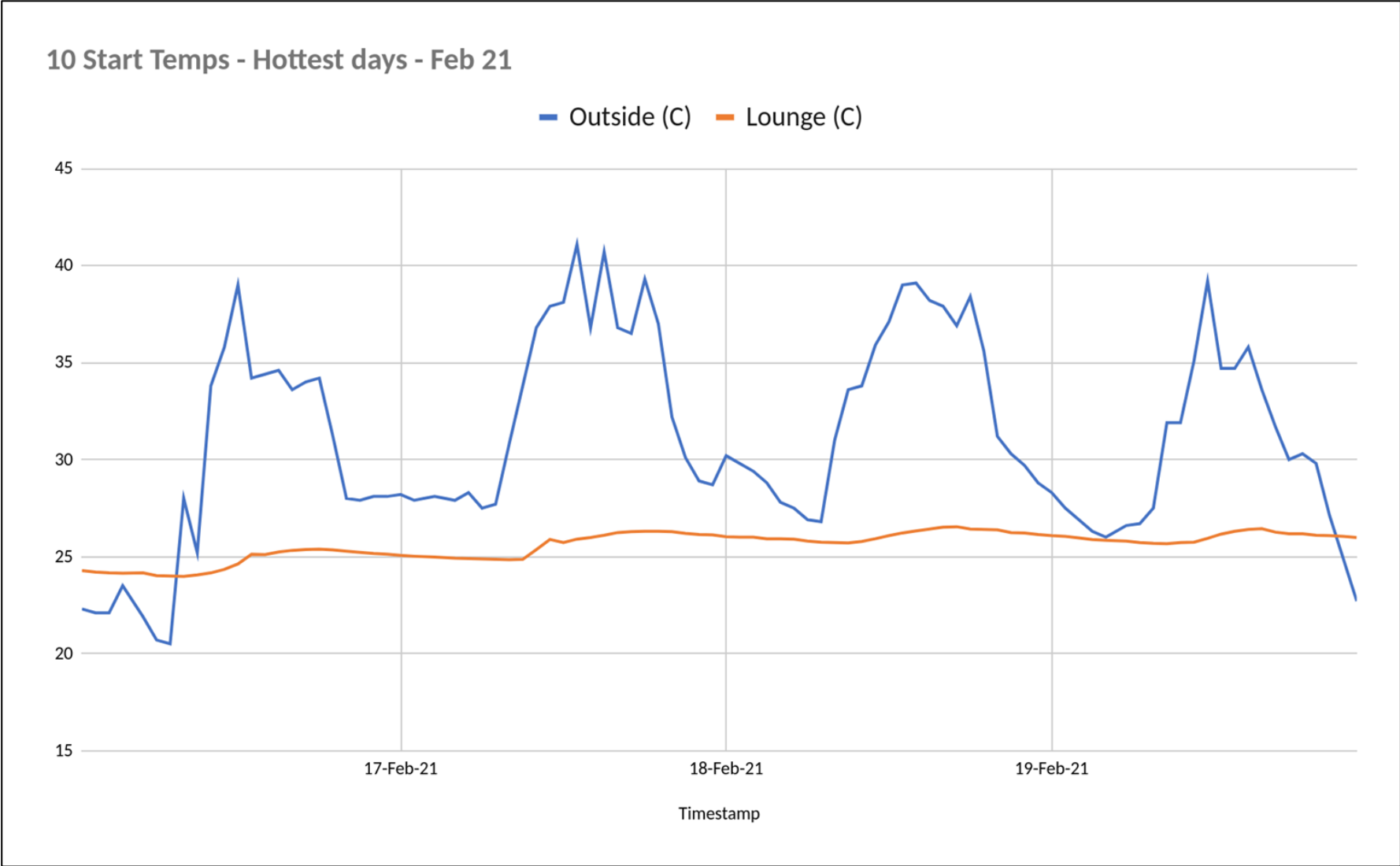
6.0
 NATIONWIDE HOUSE ENERGY RATING SCHEME
 119.0 MJ/m²



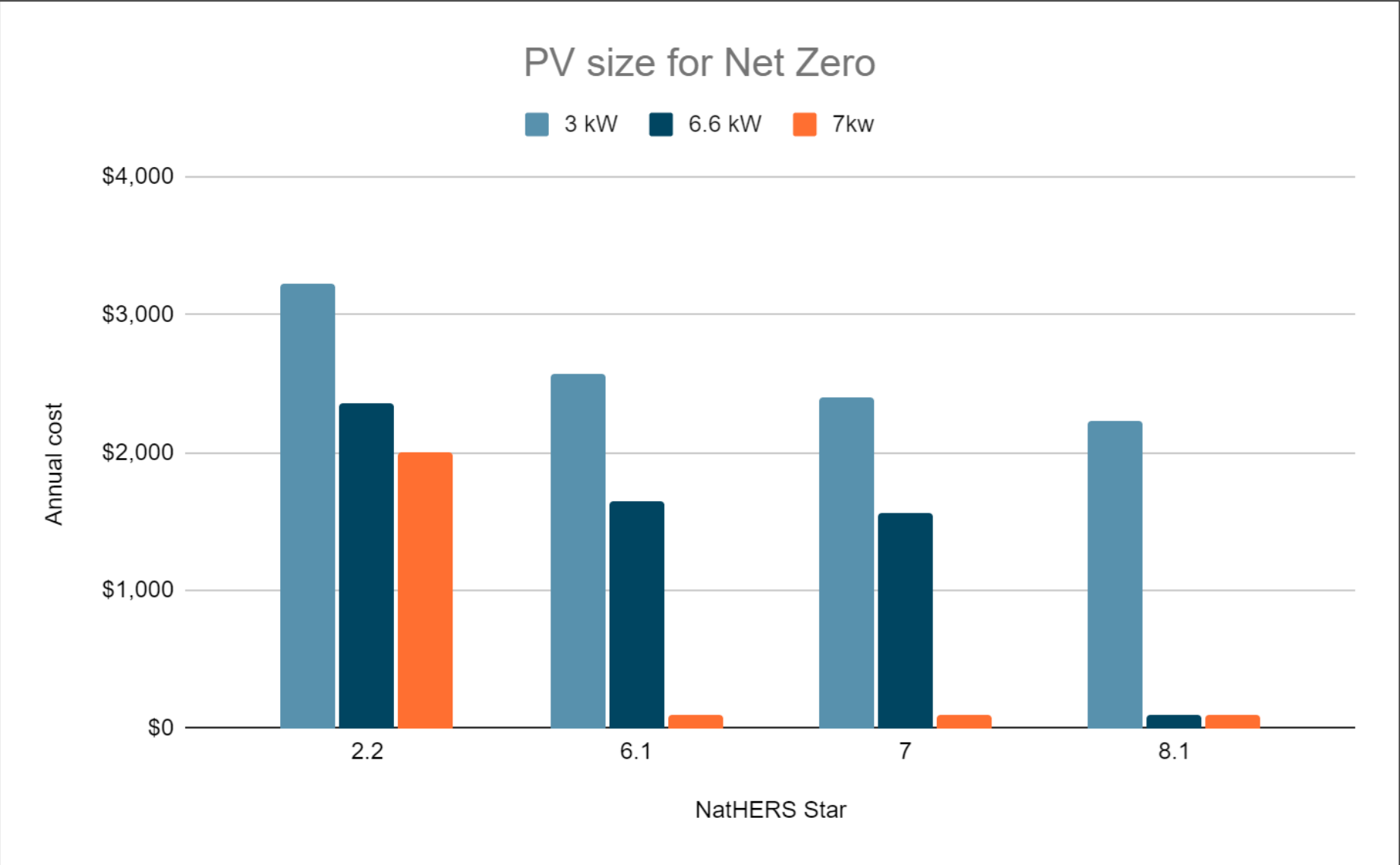
Created on Tue 8 May 2012 10:42 AM EST



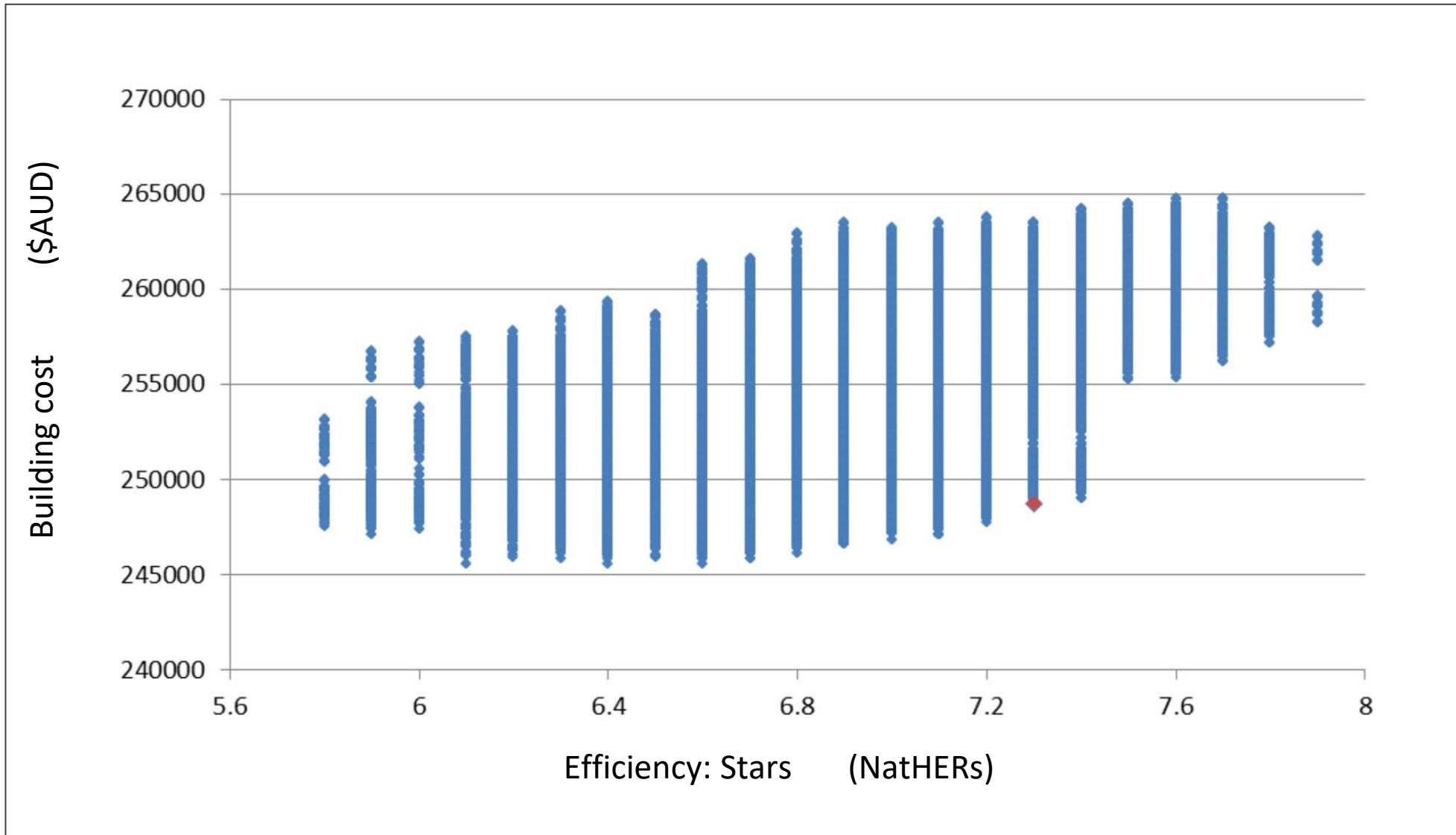
TEMPERATURE PREDICTION



NET ZERO



POSSIBLE OUTCOMES



Hubble.sh



MBA test

⚠ 5.7



↑ Ceiling Insulation → R4.1 ★ 5.8 \$90.00 ✓



🧱 External Wall Construction → Brick Cavity ★ 5.9 \$124.40 ✓



🧱 External Wall Construction → Reverse Brick Veneer ★ 5.9 \$146.85 ✓



🪟 Main Glazing System → Double Aluminium Low-E ★ 6.0 \$176.27 ✓



🪟 Main Glazing System → Double Aluminium Clear ★ 6.0 \$184.31 ✓

🪟 Main Glazing System → Single uPVC Low-E ★ 6.0 \$185.51 ✓

📐 Window to Floor Ratio → 22% ★ 6.0 \$192.14 ✓

🪟 Main Glazing System → Single uPVC ★ 6.0 \$192.47 ✓

↑ Ceiling Insulation → R5.0 ★ 6.0 \$192.64 ✓

↑ Ceiling Insulation → R6.0 ★ 6.1 \$197.79 ✓

Hubble.sh

Design Analysis

Title (change if required)
2024-08-29

MBA test

2024-08-29

[\(Reset overrides\)](#)

Field Overrides

- Building Design
Single Storey CSO...
- Roof Construction
Colorbond
- Roof Foil
None
- Roof Insulation
None
- Roof Colour
Medium (≥ 0.4 and...)
- Ceiling Insulation
R3.5
- Ceiling Fans
Ceiling Fans
- External Wall Construction
Brick Veneer

	NCC 2, Nat. 10 - Brisbane	NCC 5, Nat. 16 - Adelaide	NCC 5, Nat. 17 - Sydney	NCC 5, Nat. 13 - Perth	NCC 6, Nat. 21 - Melbourne	NCC 7, Nat. 24 - Canberra	NCC 7, Nat. 26 - Hobart
N	5.5	5.6	5.6	5.7	5.7	5.7	5.6
NE	5.6	5.8	5.8	5.9	5.9	5.9	5.9
E	6.4	6.6	6.4	6.9	6.7	6.7	6.6
SE	6.0	6.2	6.0	6.3	6.2	6.2	6.2
S	5.8	5.9	5.7	6.0	6.0	6.0	6.0
SW	5.5	5.7	5.6	5.8	5.7	5.7	5.7
W	5.8	5.9	5.8	6.0	5.9	5.9	5.9
NW	5.6	5.7	5.7	5.7	5.7	5.7	5.7

MBA test

2024-08-29

[\(Reset overrides\)](#)

Field Overrides

- Building Design
Single Storey CSO...
- Roof Construction
Colorbond
- Roof Foil
Reflective
- Roof Insulation
R1.8
- Roof Colour
Medium (≥ 0.4 and...)
- Ceiling Insulation
R5.0
- Ceiling Fans
No ceiling fans used
- External Wall Construction
Brick Veneer

	NCC 2, Nat. 10 - Brisbane	NCC 5, Nat. 16 - Adelaide	NCC 5, Nat. 17 - Sydney	NCC 5, Nat. 13 - Perth	NCC 6, Nat. 21 - Melbourne	NCC 7, Nat. 24 - Canberra	NCC 7, Nat. 26 - Hobart
N	7.0	7.1	7.1	7.1	7.1	7.0	6.9
NE	7.2	7.4	7.4	7.3	7.4	7.3	7.1
E	7.8	7.9	7.9	8.0	8.0	7.8	7.7
SE	7.4	7.5	7.4	7.5	7.5	7.3	7.3
S	7.0	7.2	7.1	7.1	7.2	7.1	7.0
SW	6.7	6.8	6.8	6.7	6.8	6.6	6.5
W	6.9	6.9	6.9	6.9	6.9	6.8	6.7
NW	6.9	6.9	6.9	6.8	6.9	6.8	6.7

COMMERCIAL

Window to wall ratio %

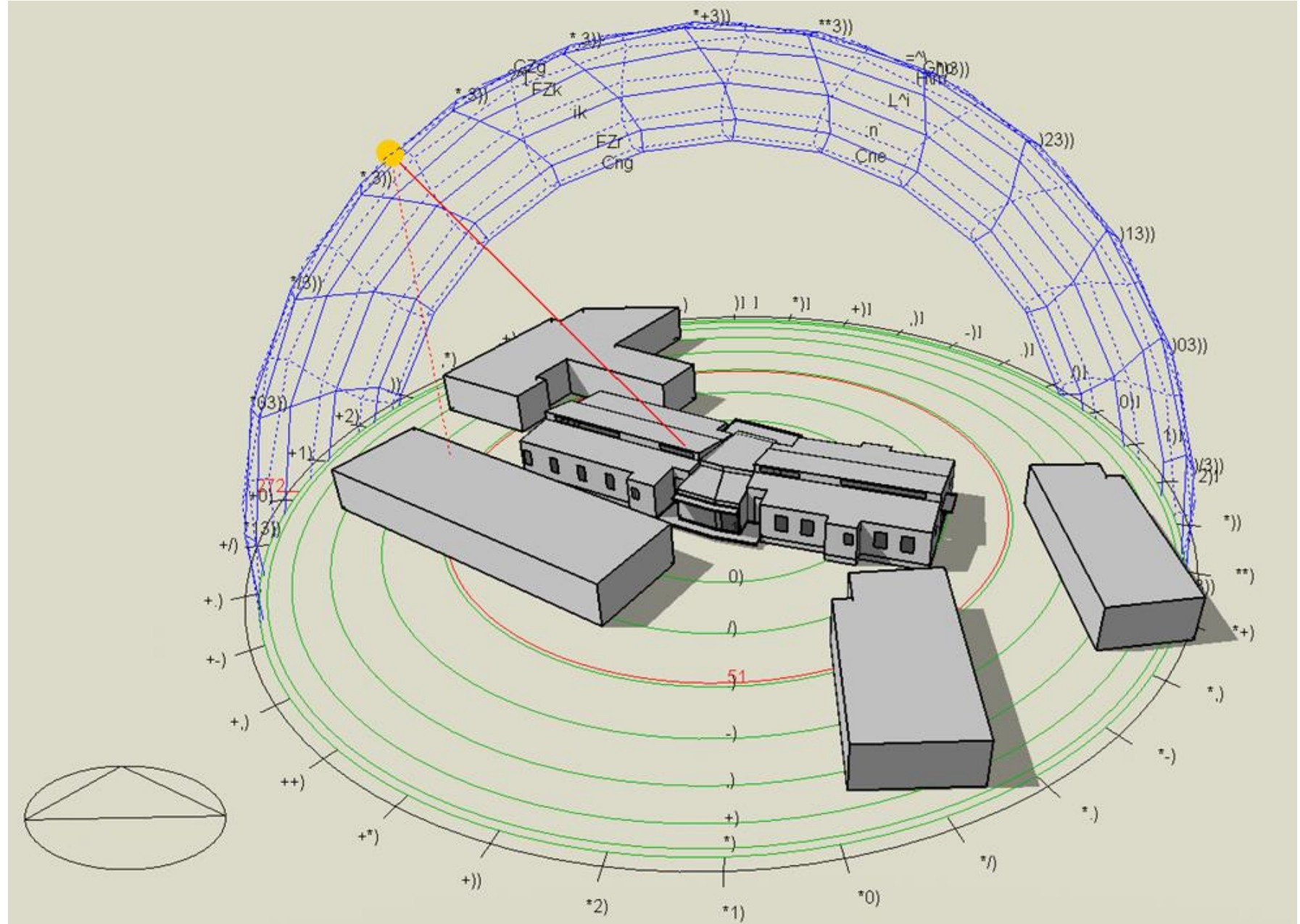
- 0-15%
- 15-30%
- 30-50%

Shading

- No shading
- 0.5m shading
- 1 m shading

Colour

- Light
- Medium
- Dark



Process

Client goals

- Net-Zero?
- No Bills?
- Allergies?
- Comfort?



Information

- Plans
- Occupancy
- Materials
- Appliances



Report

- Confirm goal
- Design changes
- Materials
- Cost benefit



Phone

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Enquiries

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