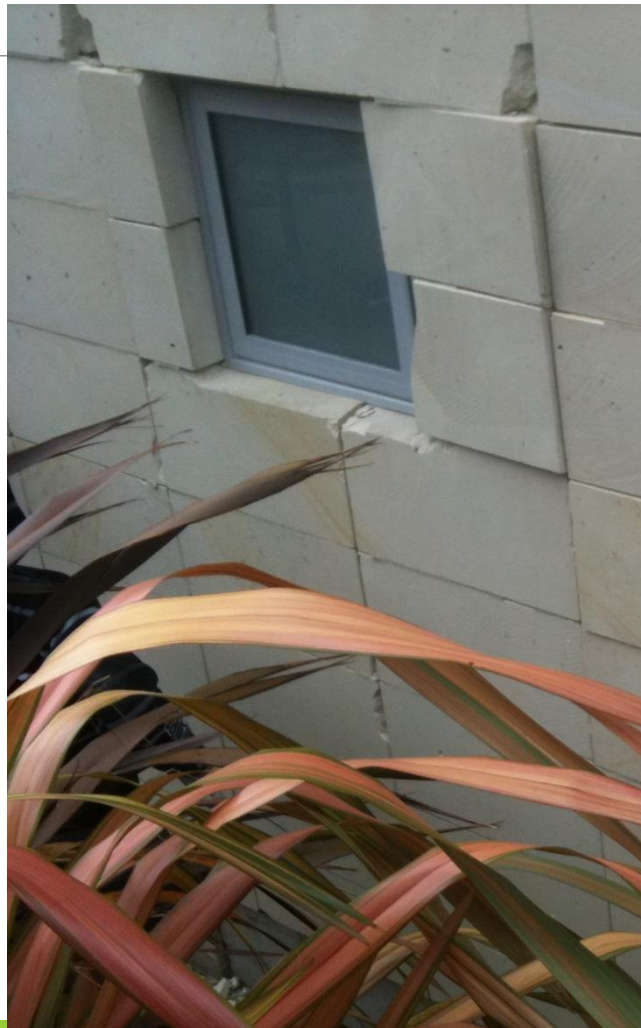


Retrofit for the Future



Post Quake  
SUPER-RENO Broad Oaks



Moderately Munted



The icing on the quake

Selwyn Road House 2011



-5° C

**Thermal Break**

21° C



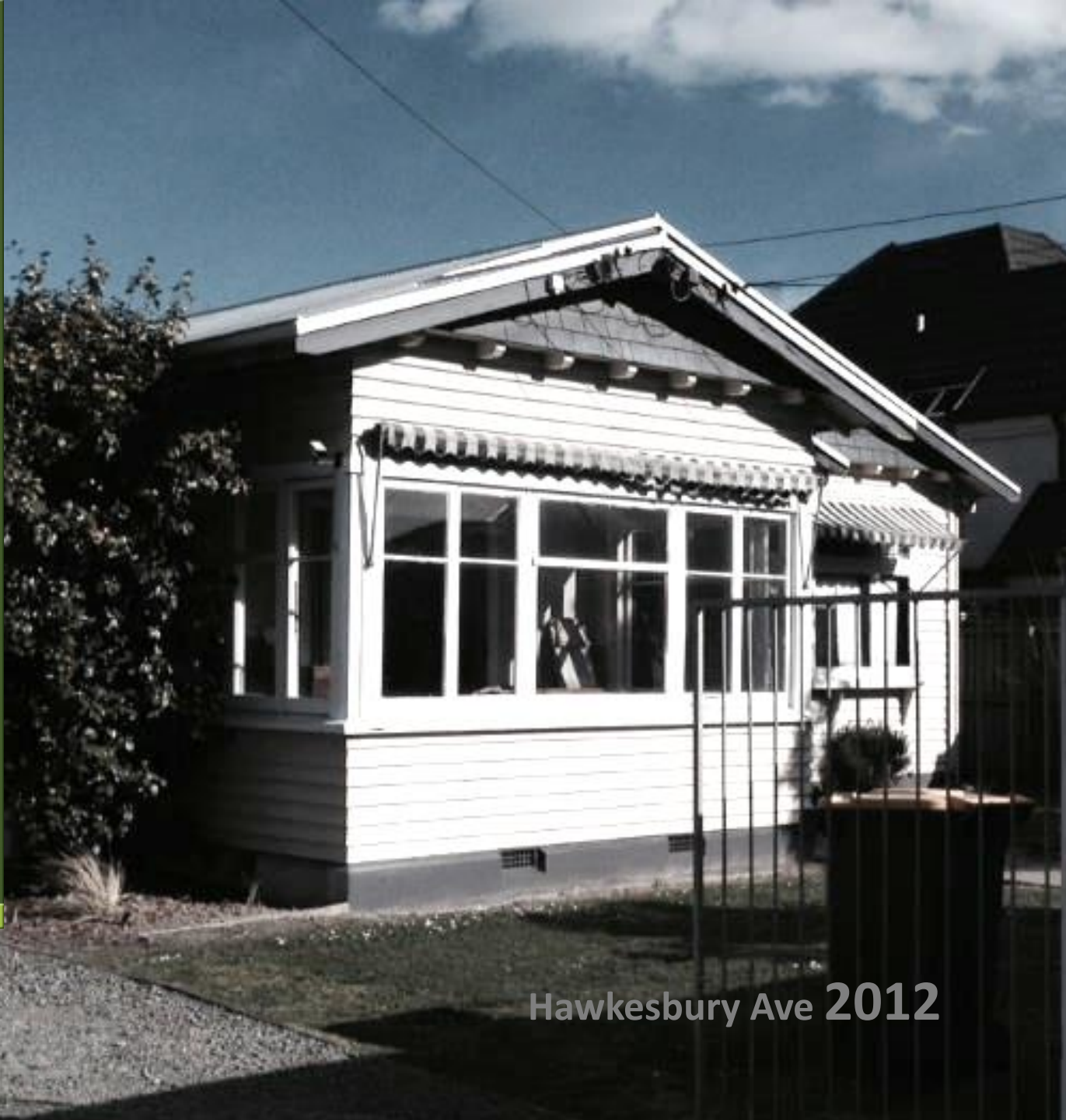


Our healthy home standards aren't good enough...



**NOTHING ELSE MATTERS WHEN YOU CAN'T BREATHE!**

Katheren Leitner | CEO, Asthma New Zealand



Hawkesbury Ave 2012

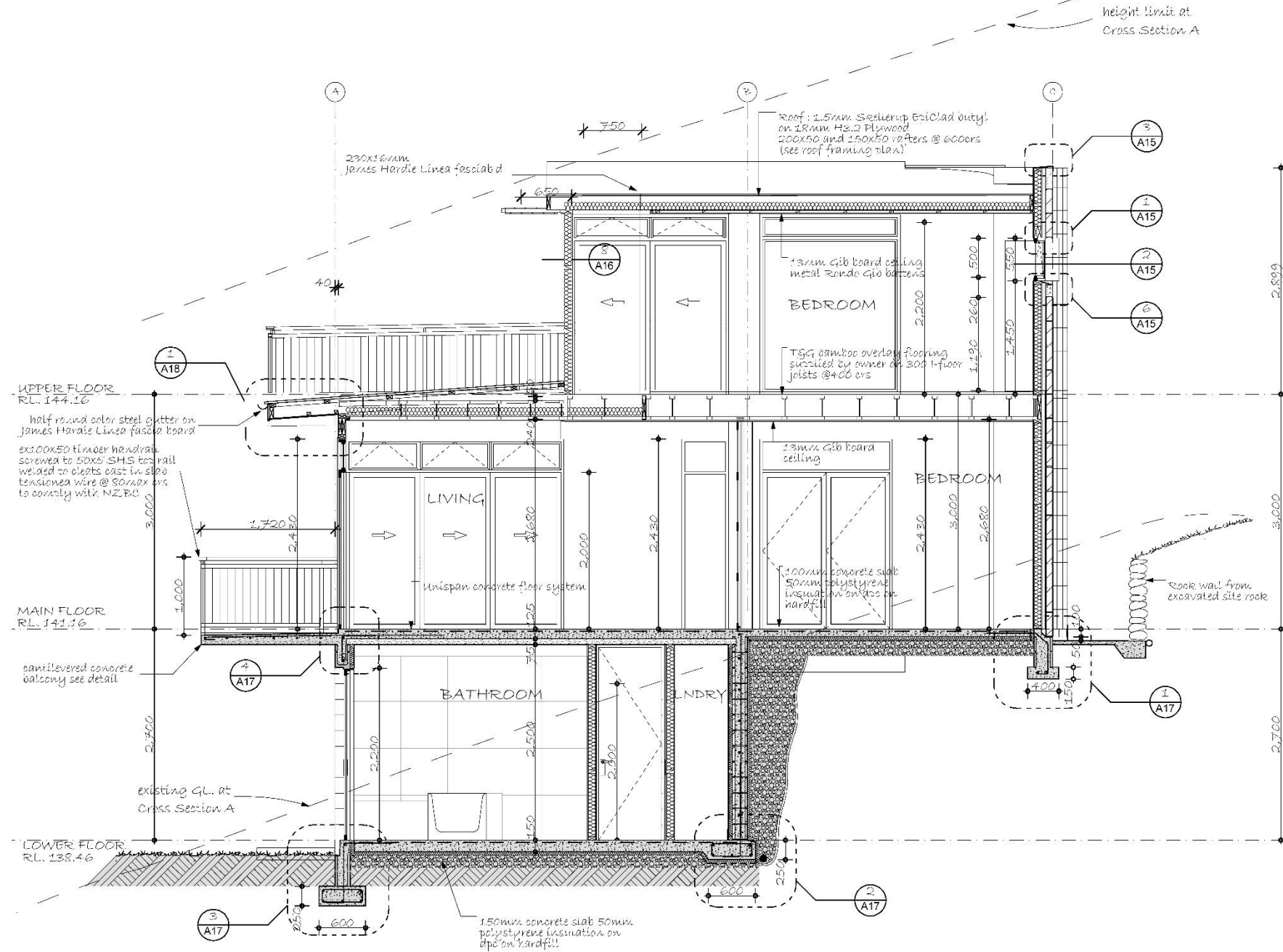
# Sodden House Syndrome



# SuperReno



Somerfield House 2014



**CROSS SECTION A**

Scale: 1:50

249 Moorhouse Avenue  
PO Box 22 684  
Christchurch  
Ph +64 3 374 9490  
Fax +64 3 374 9491  
Email: bob@bbarc.com

Contractor to verify dimensions & site conditions. All work to comply with current New Zealand Building Code ([www.dbh.govt.nz](http://www.dbh.govt.nz)) & the relevant New Zealand Standards specified including amendments. Drawings & designs are copyright of Bob Burnett Architecture 2005

**bob burnett**  
ARCHITECTURE

File Name: 3315 6 Runwick Lane Amend.tbk

Date:	24.02.06	No:	A	Amendment:	deck framing updated	Initials:	
Design:	BB & SY	Drawn:	BB & SY				
Total Drawings in Set:	36	To scale on:	A3	Project Size:	25/08/05		

Project Status:  
**CONSENT**

Print Date:  
Wednesday, 5 July 2006

Project:  
**Showhome**  
6 Runwick Lane  
Broad Oaks  
Christchurch



Cross Section A  
Drawing Title

**bob burnett**  
ARCHITECTURE

Job Number:	3315	Drawing Number:	A09	Revision:	
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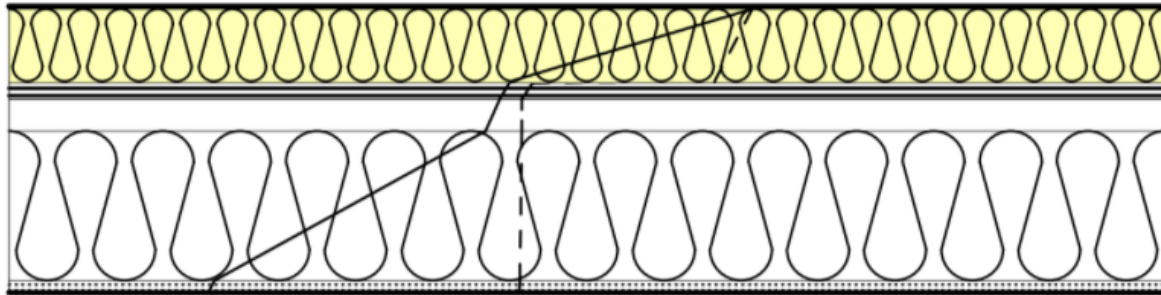
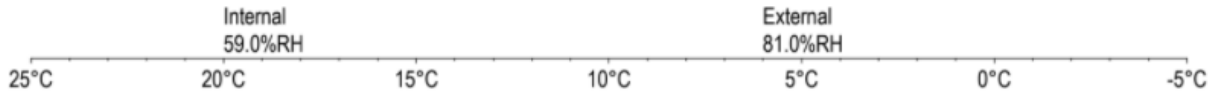
Element Description	Element Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W) (out / in)
Outdoor air film	-	-	0.030
BUTYL MEMBRANE	1.5	0.088	0.017
SINGLE PLY MEMBRANE (adhered)	1.5	0.160	0.009
KINGSPAN THERMAROOF TR27 LPC / FM	80.0	0.025	3.200
BUTYL MEMBRANE	1.5	0.160	0.009
PLYWOOD	18.0	0.140	0.129
UNV. A/SPACE; 16.8% Steel I-Beam 245mm @ 600mm ctrs (16.8%) (35mm)	35.0	-	0.000
GLASS FIBRE INSULATION 16.8% Steel I-Beam 245mm @ 600mm ctrs (16.8%) (165mm)	165.0	0.046	3.587
GYPSON BOARD	13.0	0.170	0.076
Indoor air film	-	-	0.090

Open with ▾

**Peak moisture build-up month : July**

Internal conditions : 20.0°C @ 59.0%RH

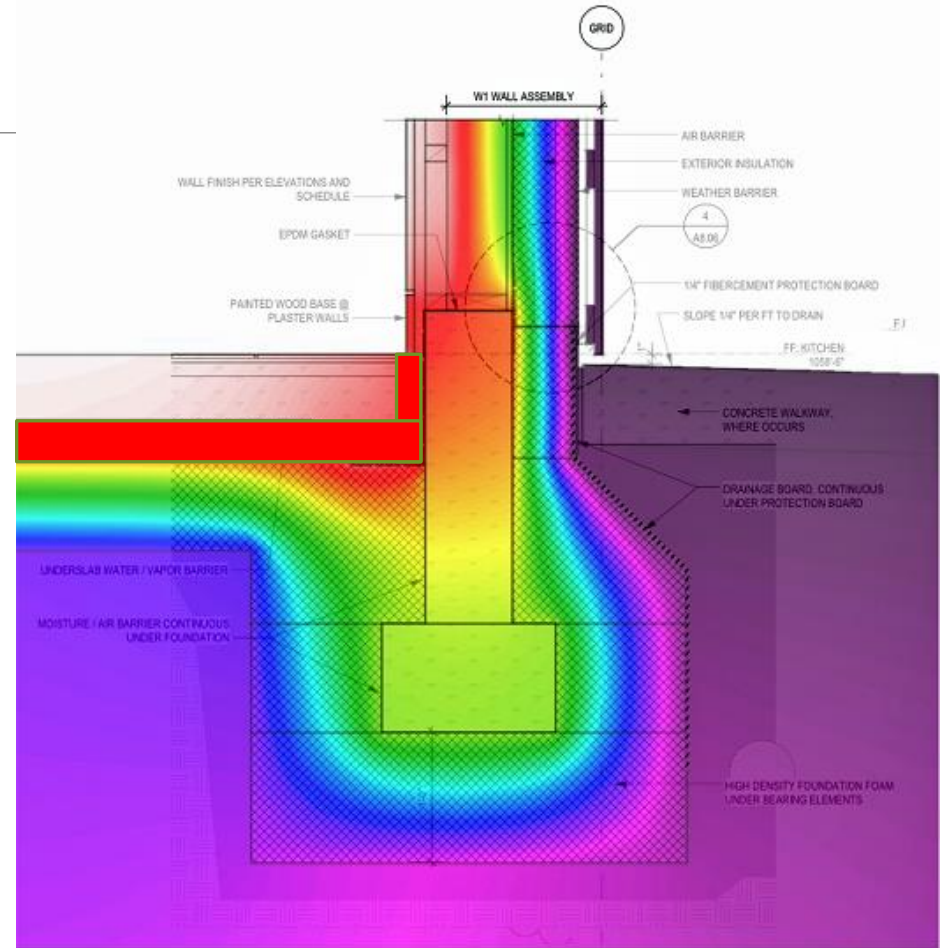
External conditions : 5.6°C @ 81.0%RH



Scale 1 : 8

Outside  
Rso=0.03

Inside  
Rsi=0.09







WARM ROOF 2 layers of 40mm PIR 1 continuous  
solar fixings

# INSULATED

IS YOUR HOME TOO DRY?  
TOO COSY? TOO ENERGY  
EFFICIENT?

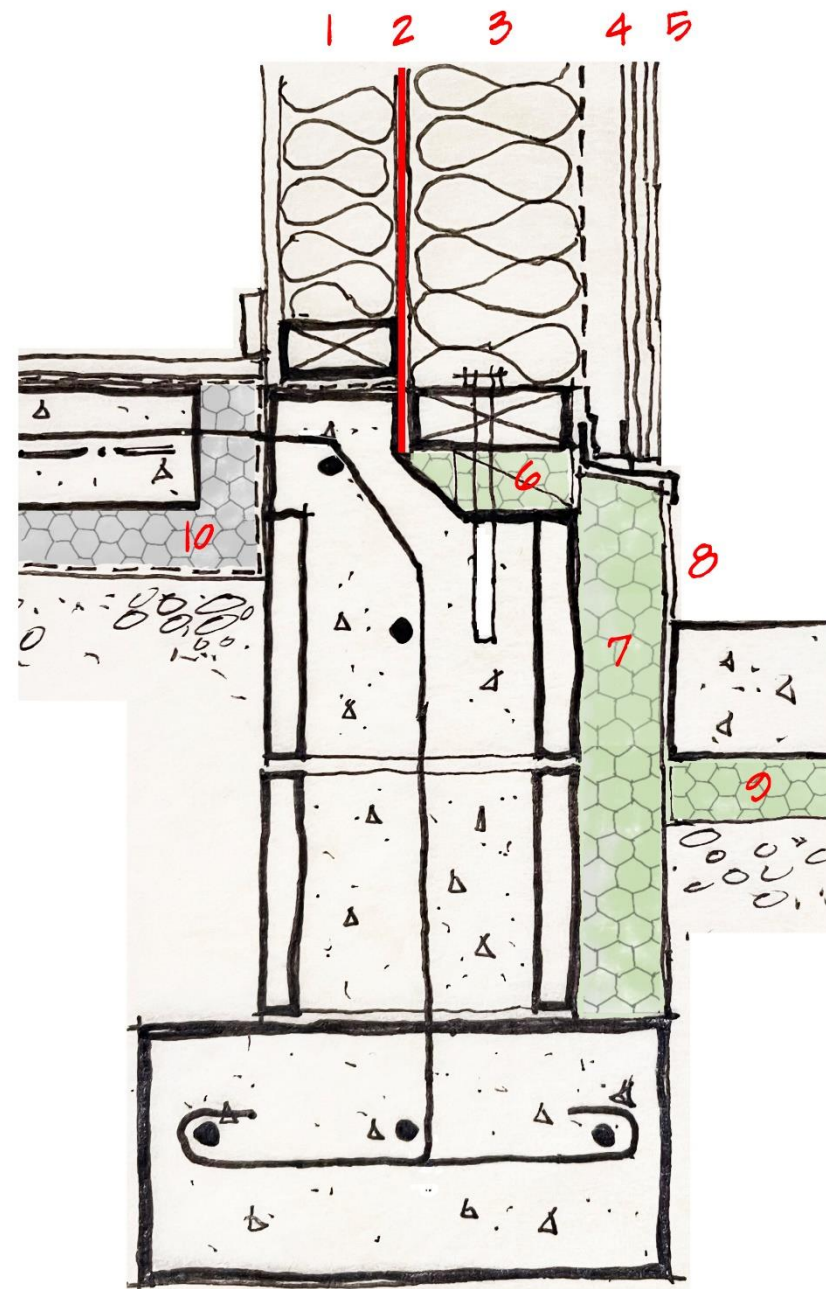
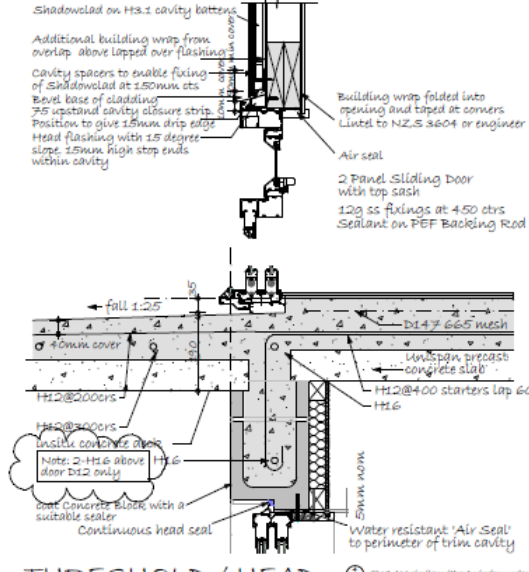
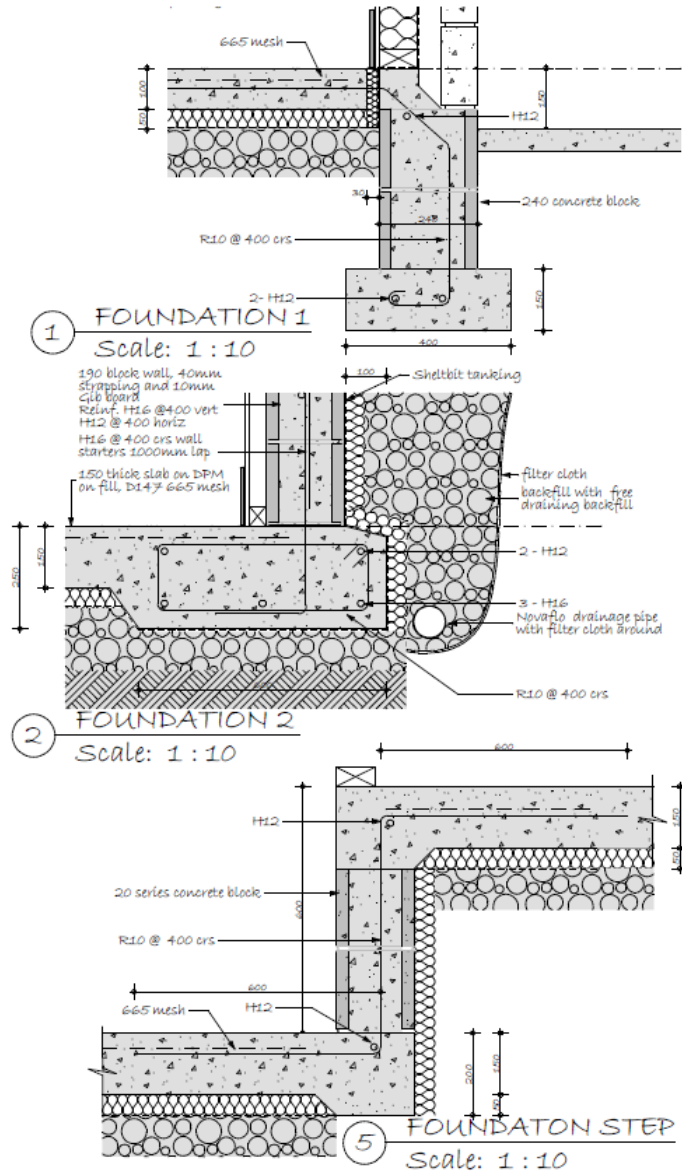
TIME TO TRY MY  
PENK BATS!

PENK BATS!  
SAVE TODAY, PAY  
TOMORROW!

NO RELATION TO GENUINE PINK® BATTS®



MURDOCH 19/07/24



1. Existing 90mm timber studs containing services serves as a service cavity
2. Added air tightness tape
3. Added 140mm fibre-cement studs, with 20mm castelated insulation
4. fibre - cement tiles, high performance
5. Travertine tiles, mitred joints at corners, a monolithic stone effect on Mapelastic smaltone
6. 50mm PIR foam blocking and M12
7. 80mm PIR foam
8. Concrete look 3 system with fibre
9. 50mm EPS insulation under 1000 wide
10. Existing heated floor thermally broken

Figure 1. Lightweight super-insulated tile wall to replace Hinvera stone

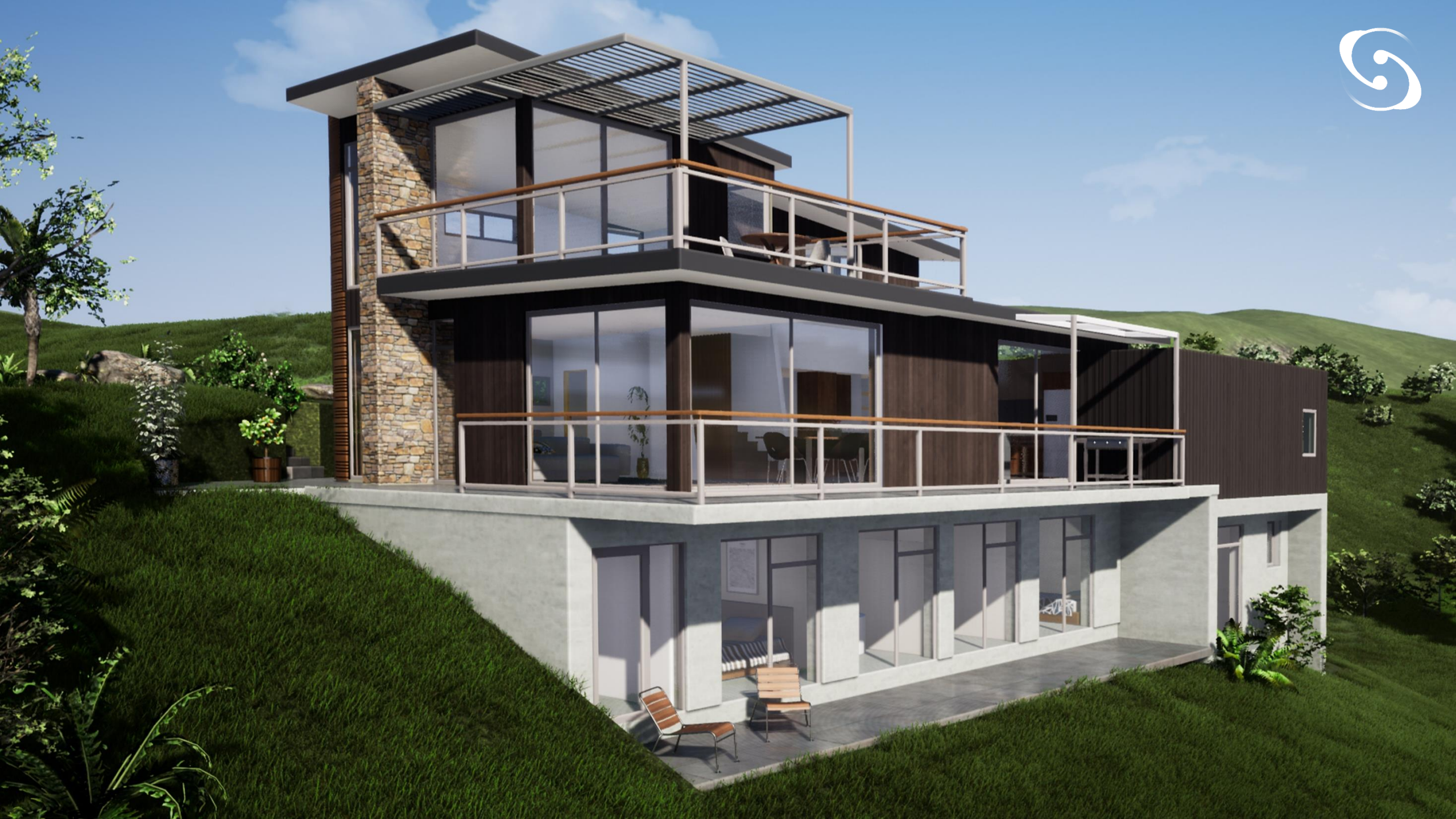






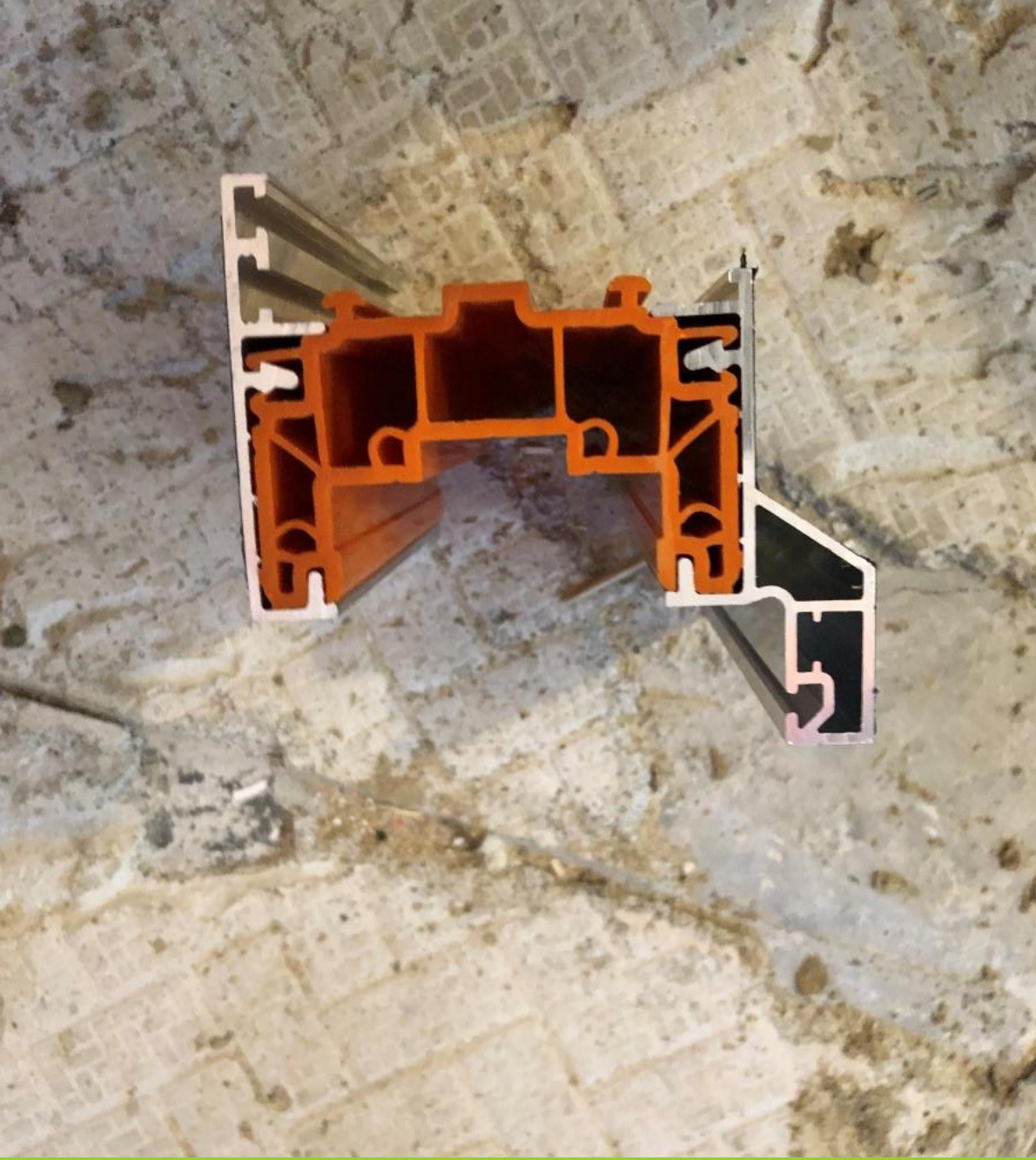














Balanced ERV ventilation - BRINK Flair 400













1906



1. U/F insulation + DPM 2. Ceiling batts 3. MVHR Proper Ventilation 4. Windows NK Low extreme 5. Walls options Next BFI







OVER SIZE  
KWP867

