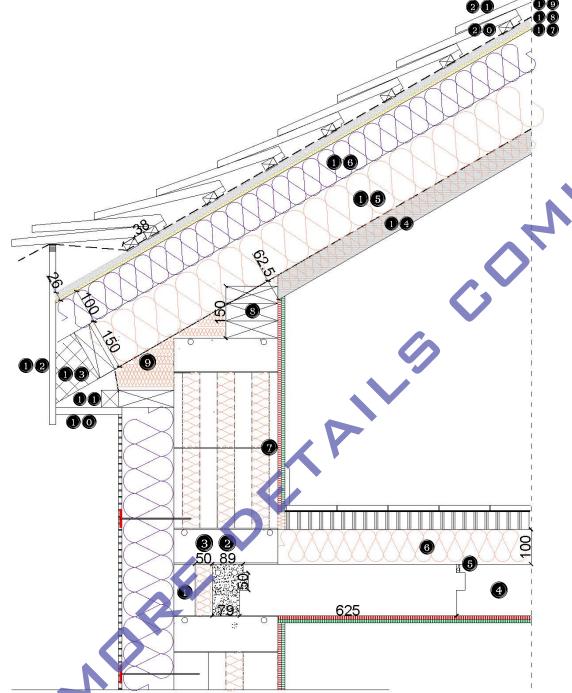
## **Typical Detail – Passive Light Concrete Cavity Wall to Timber Roof**





## NOTES:

 Backing Airtee areated concrete blocks 620,9255x60mm tinck, 3mm thin layer Mortar B for intermediate floor joint, tight dense concrete blocks Airtee Chandation 215 sawed to shape, Gross Dry density 530 (+-50) kg/m3, Compressive strength 3.6 N/mm2, Fire Visitone 4 hours. Thermal conductive 0.11 W/mK. Manufacturer: Thomas Armstrong (Holdings) tid.
Concrete joint cavity fill 89/79mm drije. Concrete mix - RiGAcrete Watertight, water resistant concrete,

 Concrete joint cavity fill 89/79mg thick Concrete mix - RIGArcete Watertight, water resistant concrete, minimum cement content 220 kg/m3, soneth C28/35, to 85 8500-2. Manufacturer: Leiths (Scotland) Ltd. Reinforced with reinforcement baa, Sum durneter bedded into in situ concrete. Ribbed bar to 85 6744, Stainless steel, Durability: Utimate Tensin tress 550 N/mm<sup>2</sup>, Minimum 0.2% proof stress [effective yield] 550 N/mm<sup>2</sup>. Manufacturer: Ancon

 50mm cavity insulation layer backing internally backing Airtec areated concrete blocks 620 x215x60mm thick: EcoTherm Eco-Cavity (x) public insulation boards. Manufacturer: EcoTherm Insulation Ltd

4. Ytong areated, grooved, encrete slabs 6000-8300 x625 x150mm thick, 3mm thin layer Mortar B. Light dense, reinforced concrete injermicidate floor slabs, Gross Dry density 550 (+>50) kg/m3, Compressive strength 4.4 N/mm2, Fire resiltance d bours (class A1). Thermal conductivity: \laudicelline A1, and a concrete floint cavity fill ISmm thick: Concrete mix - RIGArete Watertlink, water resistance d bours class concrete lioint cavity fill ISmm thick: Concrete mix - RIGArete Watertlink, water resistance d bours class concrete lioint cavity fill ISmm thick: Concrete mix - RIGArete Watertlink, water resistance d bours class concrete lioint cavity fill ISmm thick:

5. Floor tabs concrete joint cavity fill 15mm thick: Concrete mix – RIGAcrete Watertight, water resistant concrete, minimum cement content 220 kg/m3, strength C28/35, to BS 8500-2. Manufacturer: Leiths (Scaland) III Beinforced with reinforcement bars 8mm dameter bedded into in situ concrete. Ribbed bar to B 6744, Stainless steel, Durability: Utimate Tensile Stress 550 N/mm<sup>2</sup>, Minimum 0.2% proof stress [effective

yiel us50 N/mm<sup>2</sup>, Manufacturer: Anoon. 6. 100 mm thick extruded polystyrene: Extruded polystyrene rigid boards of pre-extruded polystyrene beds, to Approved Documents LIA, L2A, L1B, L2B (England and Wales) and Section 6 - Energy (Scotland) Type/Standard: USATERM Yelofoam X2I extruded polystyrene, product code: ICX2100, (available from JEWSON Limited), USAUE (U/Mm<sup>2</sup>) - 0.034, Colour and finish: Sparse edge detail, Unit size: S200 x600 x 100mm, Durability: High compressive strength - 300 kPa to BS EN 826 and BS EN 1606, High water resistance. Manufacturer: Cellect 18(U) . Srmm mortar dass M4 layer. Krend Mix montars. Manufacturer: K Rend (Kilwaughter Minerals Ltd)

A Double sole plate 50x150mm thick - Social plates, Type/Standard: Method (Mixabacket Minibals LCD) and CDF 42:2017, grade CL6 specified in B5 EN 1995-1-1:2004+2:2014, Unit sizes: 150 mm x 50 mm, Manufacturer: Stever Milne Group. Included's Vertical restrain straps, Type/Standard: Medium Twist Starp, to B5 EN 845-1, Unit sizes: Ref. MIS12 , dimensions 32:305x15mm, holes 14 Ø 4 - 2 Ø 10, fasteners x 12 - 37 x 30, load capacity 4 02 Mi. Durability: Pre-galvanized mild steel. Framing Anchor, Type/Standard: Manufacturer: Steven/Universal Framing Anchor, to B5 EN 845-1, Unit sizes: Ref. A34, Dimensions and drill holes Imm/ abx63x6, Number of Fasteners x 3, 37 x 300 Mills, B4 A, Dimensions and drill holes Imm/ abx63x6, Number of Fasteners x 3, 37 x 300 Mills, glass mineral wool 100 for installation by friction fitting. They Evaluate no overlapped within roof structure: Earthwool® OmniFit. Genville: Jess Med-10 Mills glass mineral wool 100 for installation by friction fitting. Flexible and robust made with a formal conductivity (K-value): 0.034 W/mK. Roll Width: 1200mm. Fire performance Euroclass A1 to 85 KI NS0 1350-1. Environmental: X-agenric BKE Group Communication Kaparina Indo.

 Soffit board 20mm thick - Scots pine soffit board, Type/Standard: BS 4978:2007+A2:2017, grade C16 specified in B5 EN 1995-1-1:2004+A2:2014, Unit sizes: 20 mm thick, cut to size, Manufacturer: Stewart Milne Group.

11. Soffit supportive batten 50x50mm - Scots pine battens, Type/Standard: BS 4978:2007+A2:2017, grade C16 specified in BS EN 1995-1-1:2004+A2:2014, Unit sizes: 50x50mm, Manufacturer: Stewart Milne Group.

12. Fascia with perforated polyethylene fascia ventilator grille - Scots pine soffit board, Type/Standard: 85 4978/2007+42/2017, grade C16 specified in BS EN 1995-11:2004+42/2014, Unit size: 20 mm thick, cut to trail, Manufacturer: Stewart Milline Group. Dver Fascia Ventilation System grille: Length: 900 mm, Material High-density polyethylene. Durable and resistant to decay. Colour: Black. Manufacturer: Timloc Building Products

13. Rafers 50x200mm thick - Scots pine raffers, Type/Xandard: 85. 0478:2007+A2:2017, grade CL5 specified in 85 EN 1995-1-1:2004+A2:2014, Unit sizes: 150 mm × 50 mm, Manufacturer: Stewart Milne Group, Included: Roof connectors, Type/Standard: Nail plates, to B5 EN 845-1. Unit sizes: Ref. NP:100/300, Dimensions and drill holes immi 100 × 300x15, 68 holes, diameter 04.1, Durability: Pre-galvanized mild steel. Truss Clips, for Strue/Standard: Truss Clip, to B5 EN 845-1. Unit sizes: Ref. TAP27, width 47mm, Fasteners (2.75mm × 30mm) to rafter x 6, to wall plate x 6, uplift load 3.3 kN. Durability: Pre-galvanized mild steel. Manufacturer: SIMPSON STRONG-TIE

14.6.25 mm insulated lining plasterboard Eurothane® PL - high performance figid polyisosyanurate (PIR) faam board with a 12.5mm tapered edge plasterboard bonded to one side for use as an internal lining. Faced on the reverse with a multi-layer kraft paper and aluminium foil. Manufactured to ISO 9001 Quality and ISO 14001 Environmental Management Systems. Manufactured using a blowing agent with zero ozone depletion potential (ODP) and low global warming potential (GWP). Low thermal conductivity of 0.022.2 W/mK (insulation component). Plasterboard laminate gives Eurothane® PL a Euroclass B-s1, d0 fire performance. CE marked in accordance with harmonised European standard EN 13950. Board size: 2400 x 1200 mm. Manufacturer: Recticel Insulation.

15. EcoTherm Eco Versal Insulation Board, 450mm x 1200mm, 150mm thick, fibre free rigid polylsocyanurate (PIR) insulation core faced with aluminium foil composite on both

sides, to BS EN 826: 1996. Manufacturer: EcoTherm Insulation Ltd

16. 100mm PermaRock EPS-Premium Insulation (EPS100) layer over rafters.

17. Novia Ultra+ Breather Membrane, versatile, dual approved breathable membrane. Composition: PP - non woven. Breathable microporous film. PP - non woven. Standard width: 1.5 m. Roll length: 50 m. Technical data: Weight: 95 g/m<sup>2</sup>. Tensile strength MD/CD: 210/105 N/S0mm. Elongation MD/CD: 65/70%. Tear resistance MD/CD: 75/90 N. Resistance to air penetration: 0.045 m/m<sup>2</sup>h 50 pa. Water vapour transmission properties: 0.02 m. Resistance to water penetration: W1 Class. Resistance against fire: E Class. Stability to low temperature: 40°C. UV resistance: Install as per 85 5534/2014 + A2: 2016 UV guidance. Manufacture: Novia Ltd.

 Sarking boards, Type/Standard: softwood grade to BS5268-2:2000 and to CP112 part 2, Unit sizes: 600x1200x18mm thick, Durability: OSB softwood C16. Manufacturer: Stewart Milne Group.

19. Roofing felt underlay, Type/Standard: Monartile Supa R. Roofing Underlay. - Polyropylene (pp) hydrophilic spun bond with a strong reinforcing grid encapsulated with a polyethylene (PE) top coating layer to BS EN 13707:2004-A2:2009 Part 2, product code 3007197, Unit sizes: Material thickness: 0.79mm, Water vapour resistance: 250 MN/Sg, weight of 150 g/m<sup>2</sup>, in 1 x 50 m roll size. Durability: Type W1 strength. Manufacturer: BMI UK & Ireland.

20. Tile supportive counterbatten 25x38mm - Scots pine battens, Type/Standard: 85 4978:2007+A2:2017, grade C16 specified In 85 EN 1995-1-1:2004+A2:2014, Unit sizes: 50x50mm, Manufacturer: Stewart Millie Group 21. Roof tiles - OuzPlain Tile - concrete pilain, Interlocking tile. Batten size: 38 x 25 sm for up to 450 sm

21. Roof tiles - DuoPlain Tile - concrete plain, interlocking tile. Batten size: 38 x 25 mm for up to 450 mm support pacifies, 50 x 25 mm for up to 640 mm support pacifies, 80 x 95 mm / Tich: 25-90, Gauge: Minimum: 173 mm. Maximum: 188 mm. Linear cover: 300 mm. Covering capacity: 17.7 tiles/m<sup>2</sup>. Weight (at maximum gauge): 55 kg/m<sup>2</sup>. Slate Grey to 855534:2014, Comprehensive strength (minimum): class 4 hall. Manufacture:: BMI Redland to the strength (minimum): class 4 hall.