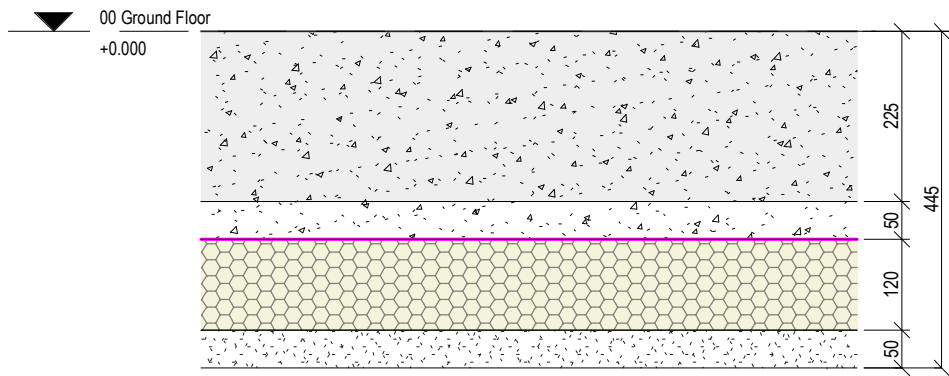


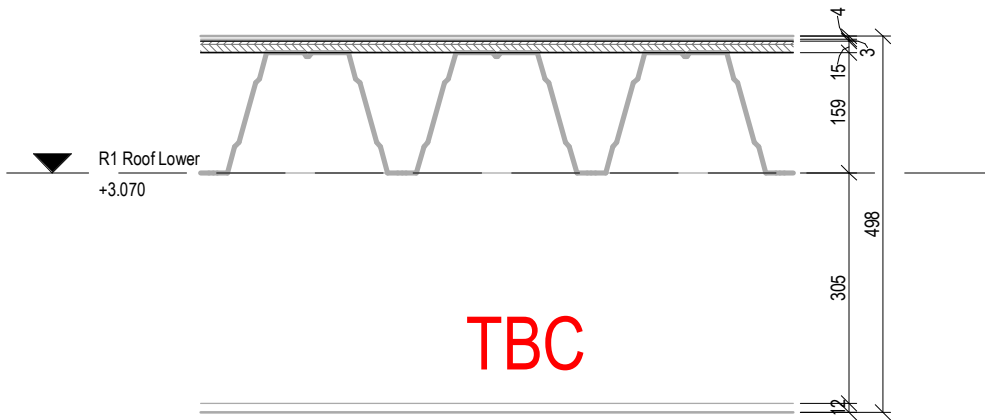
Ground Floor Build Up



Ground Floor - 0.1 W/m².K

225mm Reinforced concrete suspended slab as Structural Engineer's information  
50mm Concrete blinding as Structural Engineer's information  
J40/140 Visqueen Radon R400 Membrane  
E20/200 120mm Kooltherm K103 Insulation  
50mm Sand blinding as Structural Engineers information

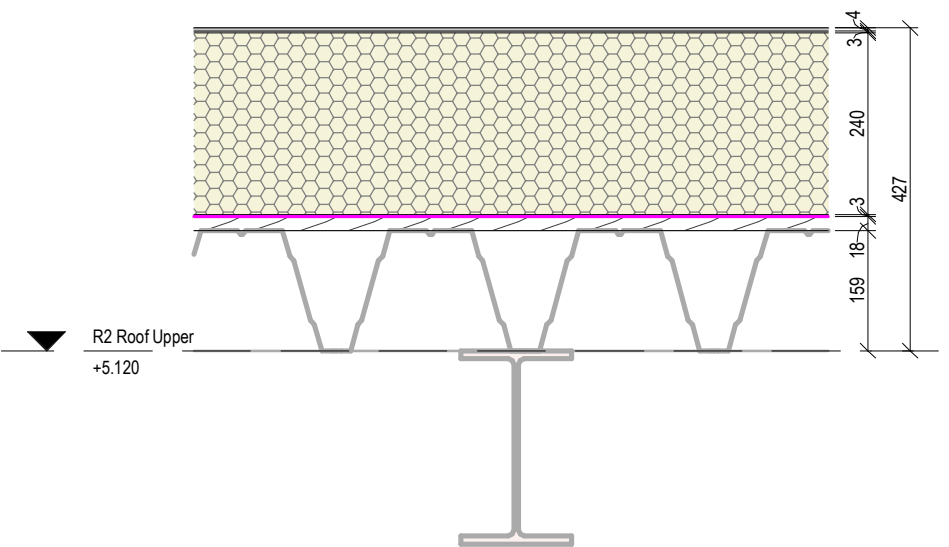
Roof Canopy Build Up



Cantilever Canopy

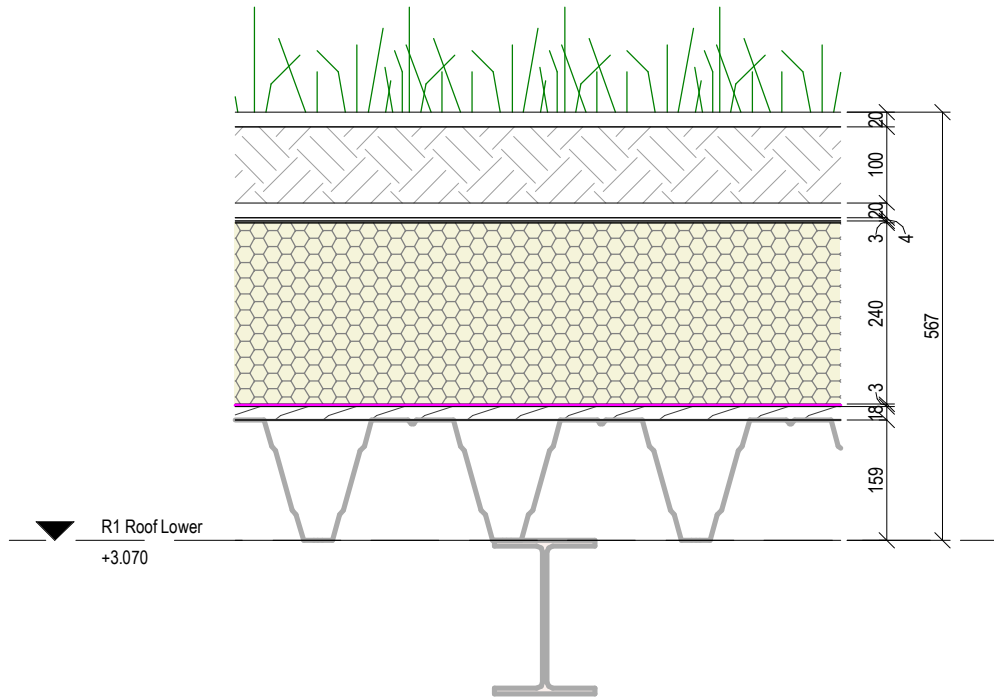
J41/400 4mm Force 4000 S capsheet  
J41/400 2.6mm Hyranger Spot ADH bitumen membrane  
15mm plyboard  
Roofdeck to Structural Engineer's information  
Steelwork to Structural Engineer's information  
PPC aluminium soffit

Roof Build Ups



Roof Type 1 Warm Roof - 0.1 W/m².K

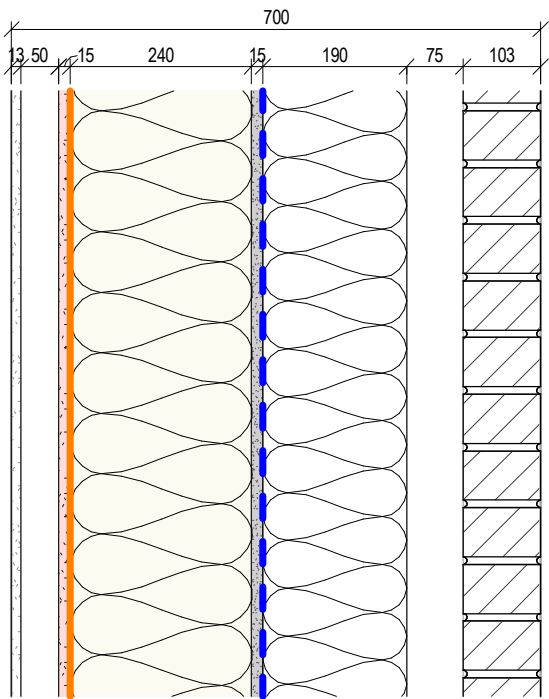
J41/400 Force 4000 TRAFIC capsheet  
J41/400 2.6mm Hyranger Spot ADH bitumen membrane  
J41/420 240mm Hytherm ADH PIR tapered insulation  
J41/395 Vapour control layer  
18mm plywood deck  
Profiled metal deck to Structural Engineer's design  
Steelwork to Structural Engineer's design



Roof Type 2 Green Roof - 0.1 W/m².K

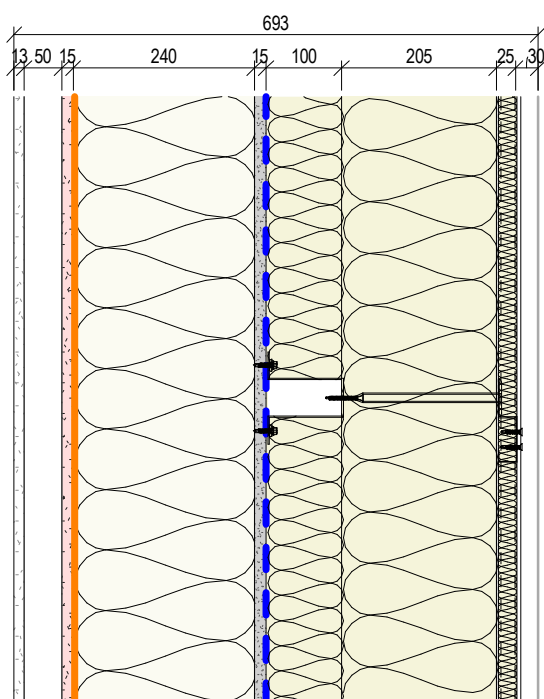
Q37/400A 20mm Biodiversity Mix Growing Medium  
Q37/390 100mm Hydrosolil Substrate  
Q37/340A 20mm Hydrodrain 20  
J41/400 Force 4000 TRAFIC capsheet  
J41/400 2.6mm Hyranger Spot ADH bitumen membrane  
J41/420 240mm Hytherm ADH PIR tapered insulation  
J41/395 Vapour control layer  
18mm plywood deck  
Profiled metal deck to Structural Engineer's design  
Steelwork to Structural Engineer's design

External Wall Build Ups



External Wall Type 1 Facing Brickwork - 0.1 W/m².K

K10/185 12.5mm plasterboard  
Independent Wall Lining  
K10/186 15mm Fireline plasterboard  
P10/310 Vapour control layer  
P10/190 240mm SFS Zone with full fill insulation  
K10/415 15mm external wall lining sheathing board  
P10/320 Breather membrane air tightness layer  
P10/217 190mm mineral wool cavity insulation  
75mm clear cavity  
F10/110 102.5mm facing brickwork (lbstock Kensey)



External Wall Type 2 Standing Seam - 0.1 W/m².K

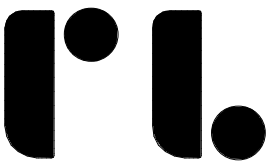
K10/185 12.5mm plasterboard  
Independent Wall Lining  
K10/186 15mm Fireline plasterboard  
P10/310 Vapour control layer  
P10/190 240mm SFS Zone with full fill insulation  
K10/415 15mm external wall lining sheathing board  
P10/320 Breather membrane air tightness layer  
H31/120 100mm Tophat with 100mm RocSlab insulation  
H31/120 205mm RocSlab insulation with stainless steel fixings  
H31/120 25mm RocBar and 25mm Rocslab fixed at 660mm centres  
H31/120 Vieo external sheet and clips

This line should measure 60mm when printed correctly

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| Rev | Date       | By  | Chk | Description                                               |
|-----|------------|-----|-----|-----------------------------------------------------------|
| P01 | 13.08.2025 | EJC | DAO | WIP - Issued for co-ordination                            |
| C01 | 26.09.2025 | JMC | DAO | RIBA Stage 4 Issue                                        |
| C02 | 22.19.2025 | JMC | DO  | Green Roof Type Amended following Ecology Report comments |



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Registered Office: England No. 06658029

Project Name

Ysgol Rhyd Y Grug

Client Name

Merthyr Tydfil County Borough Council

Drawing Title

Elemental Build Ups

| Scale       |      |                     | Project No. |      |      |
|-------------|------|---------------------|-------------|------|------|
| 1 : 10 • A2 |      |                     | 11777       |      |      |
| Status      |      | Purpose Of Issue    |             |      |      |
| A3          |      | Issued for Planning |             |      |      |
| Project     | Org  | Vol                 | Level       | Form | Role |
| RYG         | • RL | • 02                | • ZZ        | • DR | • A  |
| Number      |      |                     | Revision    |      |      |
| 20301       |      |                     | C02         |      |      |