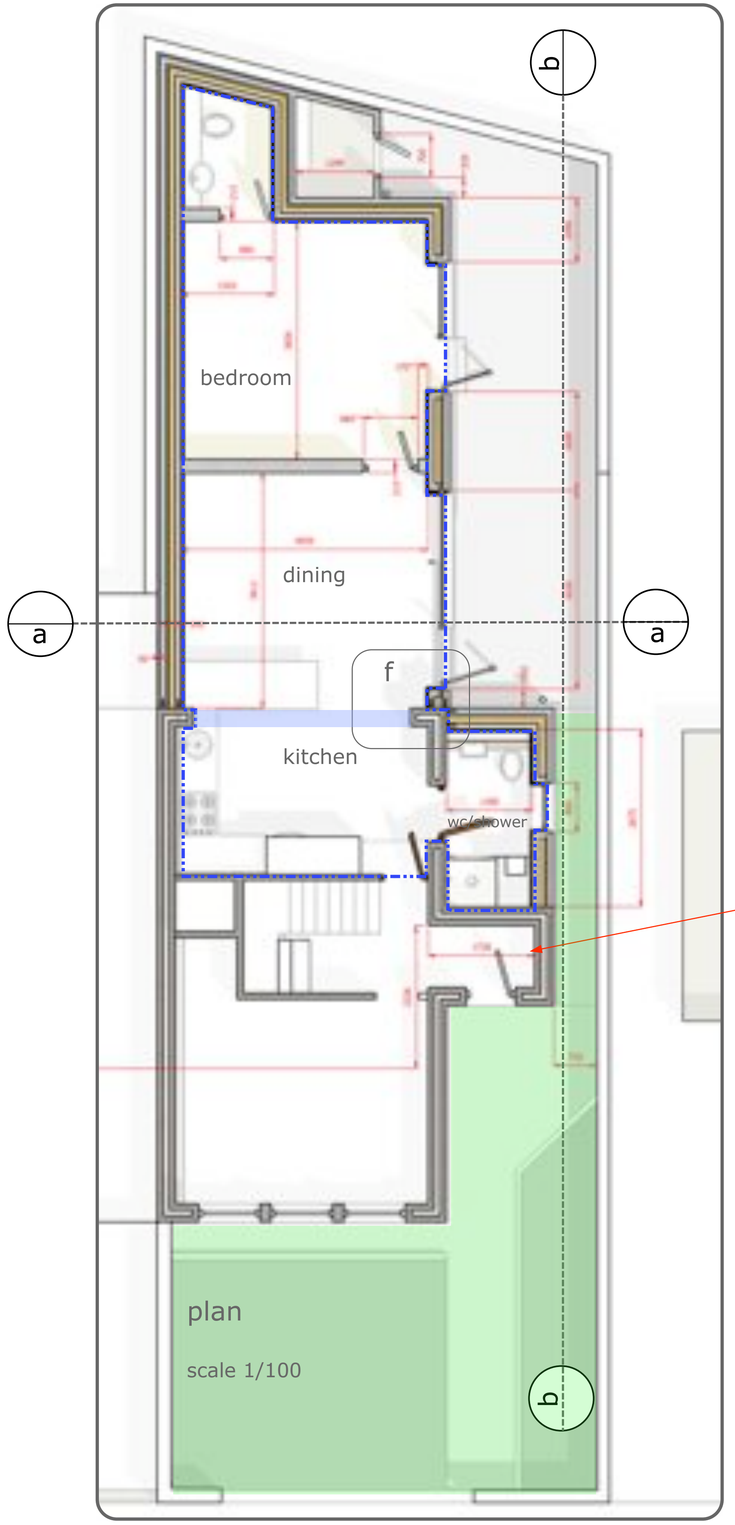
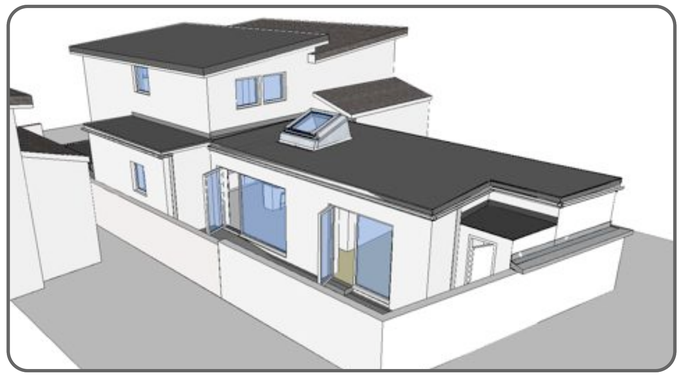




perspective from north east

site location map

Safety Note:

Bórd Gáis to verify location of underground services before digging in the area indicated in green

Location of gas boiler

Areas:

New Floor surfaces (kitchen, dining and bedroom):	48m²
38mm insulated composite plasterboard (walls):	60m²
38mm insulated composite plasterboard (ceilings):	44.5m²
External ground finished area:	25m²

Legend:

- 1.Wall air permeability barrier
- 2. Floor air permeability barrier (Radon Barrier)
- 3. Air seal joint
- 4. DPC
- 5. Weed barrier
- 6. Demolition of existing

Specifications:

1. Floor:
Finishes:
(a) Kitchen: selected tile on screed to match level of bordering tiles;
(b) Bedroom: selected 10mm laminated timber floor on 3mm underlay
on:
150mm RC power floated concrete slab (allowed two months curing time); on: 200mm Quinntherm or equivalent phenolic foam with max. conductivity of 0.023 W/mK fully airtight radon barrier with min. 150mm overlaps. and allowances for settlement in accordance with Homebond details
on:
50mm sand blinding on 150mm well compacted hardcore

Foundations: To engineer's details

2. Walls:

2 x 100mm leaf concrete block wall with 145mm cavity braced with 250mm long cavity ties at 450mm c/s vertically/ 900mm c/s horizontally inserted to manufacturers specifications.
Insulation: 90mm Quinntherm or equivalent phenolic foam. Air gap: 55mm
Roof junction: 100 x 50mm treated s/w wall plate fixed with S/S brackets @ 400mm c/s on 25mm rbp plyboard on sealed mortar bed.
Cavity tray to carry Radon barrier. Weep holes @ 450mm c/s
250mm wall ties
DPC
Insulated steel lintels
Aluminium low e toughened shatter resistant double glazing with integrated vent grills.
All frames air sealed around edges
External finish: smooth sand/cement 3 part render painted

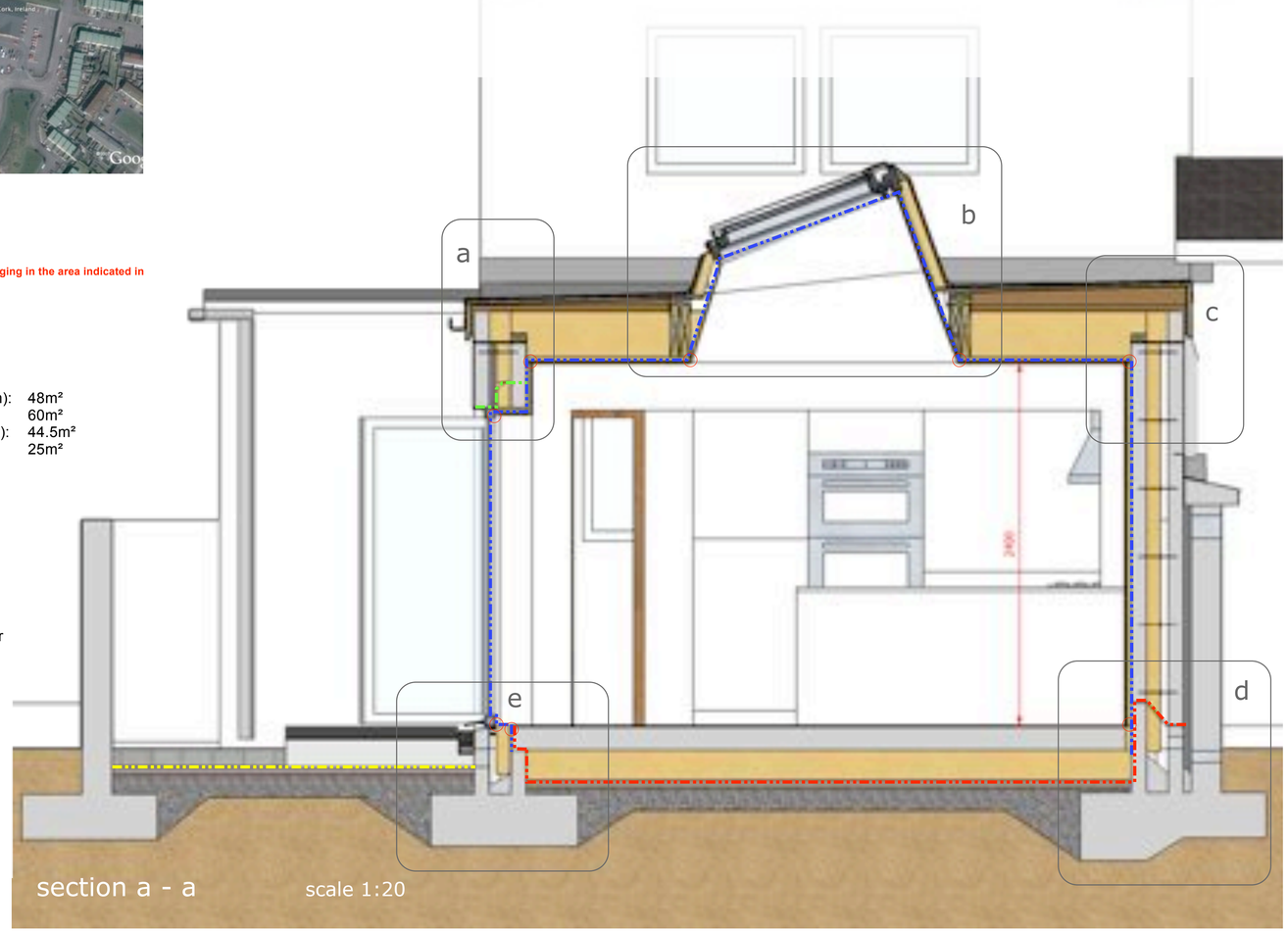
3. Roof:

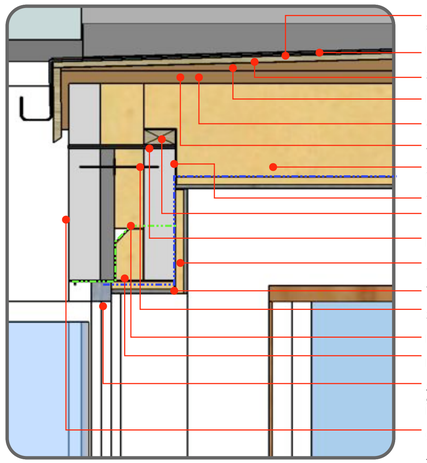
Code blue lead flashing bedded into existing wall draped over proprietary upstand around edge of roof with min 150mm overlap over hot air welded synthetic flat roof membrane to architect's specification on proprietary fleece on 25mm RBP ply with 50mm ventilation gap under on firring pieces to fall of min. 1:40 on joists @ 400mm c/s to Homebond specifications with 300mm isomer insulation
100 x 50mm treated s/w wall plate fixed with S/S straps @ 400mm c/s on double slate cemented and nailed to top of inner leaf
38mm integrated foil backed insulated plasterboardoffered to underside of joists to manufacturers specifications
Taped air barrier joints

Flat roof velux installed to manufacturer's instructions and airtight seal to be maintained as per wall and roof details

4. Air Permeability:

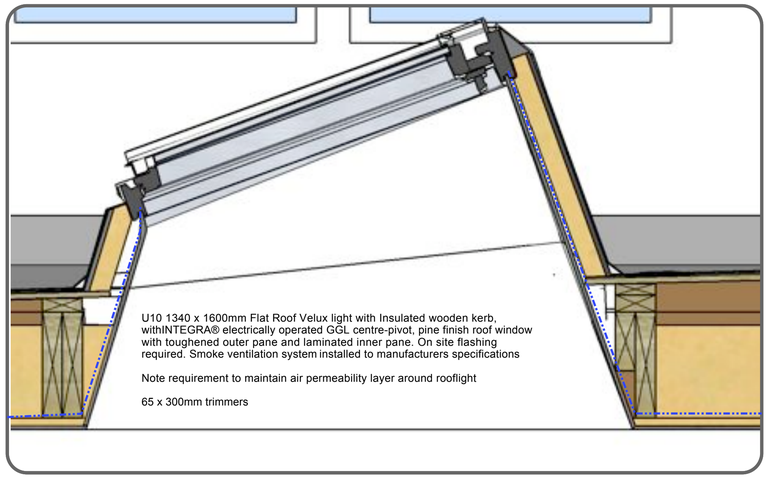
Air permeability of max 5m³/hr/m² to be established using proprietary breathable membrane and maintained throughout construction. Proprietary seals to be created around all openings (including windows, doors, service pipes, electrical & tv cables. in the external wall, floor and roof.)
- Wall to floor junction to be sealed by adhering Radon Barrier seal to Wall Membrane
- Wall to ceiling junctures to be sealed using proprietary tape, ensuring continuity of air seal.
- Air seal details to be confirmed by Architect



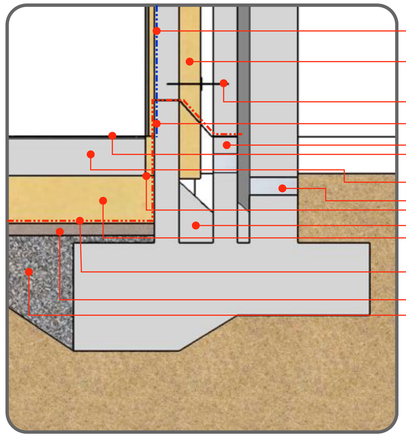


Hot air welded synthetic flat roof membrane to architect's specification
Proprietary fleece
25mm RBP ply
Firring pieces to fall of max. 1:40
50mm ventilation gap above insulation
Joists @ 400mm c/s to Homebond specifications
300mm isomer insulation
S/S straps @ 400mm c/s
100 x 50mm treated s/w wall plate
Double slate cemented and nailed to top of inner leaf
38mm integrated foil backed insulated plasterboard
Taped joint
250mm wall tie
DPC
Insulated steel lintel
Aluminium low e toughened shatter resistant double glazing with integrated vent grills. Frame air sealed around edges
Smooth sand/cement 3 part render painted
Taped air seal joints

detail a scale 1:10



detail b scale 1:10



Air permeability layer
90mm Quinntherm or equivalent high density phenolic foam
250mm wall ties @ 450mm c/s vertically and 900mm c/s horizontally
Taped joint
10mm tiled floor
150mm reinforced concrete power floated concrete slab
50mm edge insulation
200mm Quinntherm or equivalent phenolic foam to provide max U-value of 0.25 W/m²K
Radon barrier
50mm sand blinding
150mm well compacted hard core
Weep holes @ 450mm c/s
Mortar infill 75mm below GL
Weep holes in existing party wall

detail d scale 1:10

Legend:

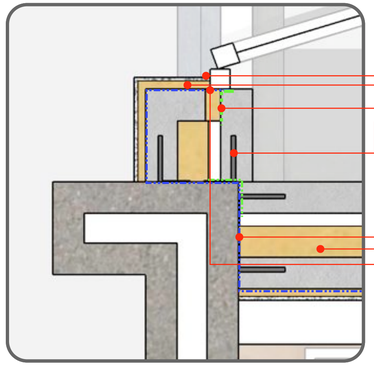
1.Wall air permeability barrier

2. Floor air permeability barrier (Radon Barrier)

3. DPC

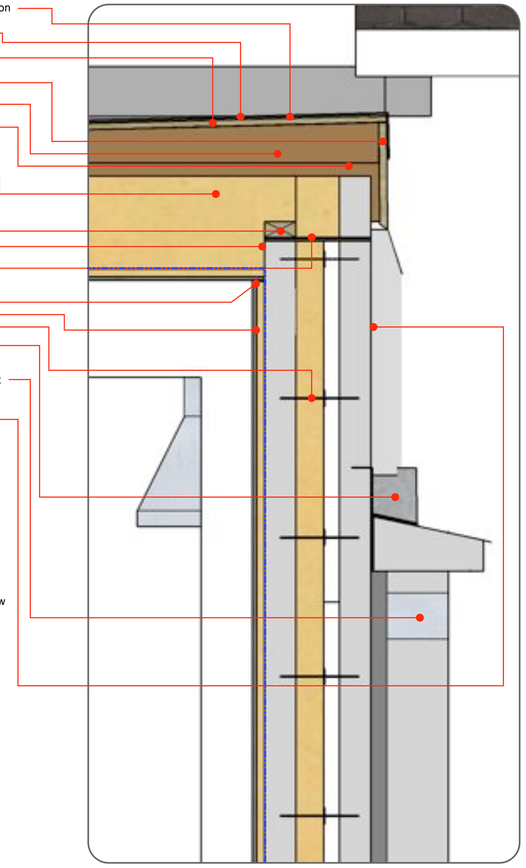
3. Weed barrier

4. Demolition



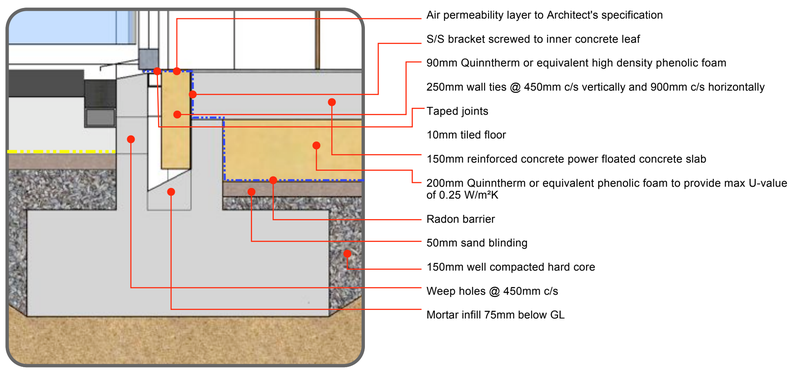
Taped joint
38mm integrated foil backed insulated plasterboard
DPC
S/S straps bolted onto existing wall @ 450mm c/s and built into new blockwork
Wall air permeability barrier
90mm Quinntherm or equivalent high density phenolic foam
Taped air seal joint

detail e (plan) scale 1:10



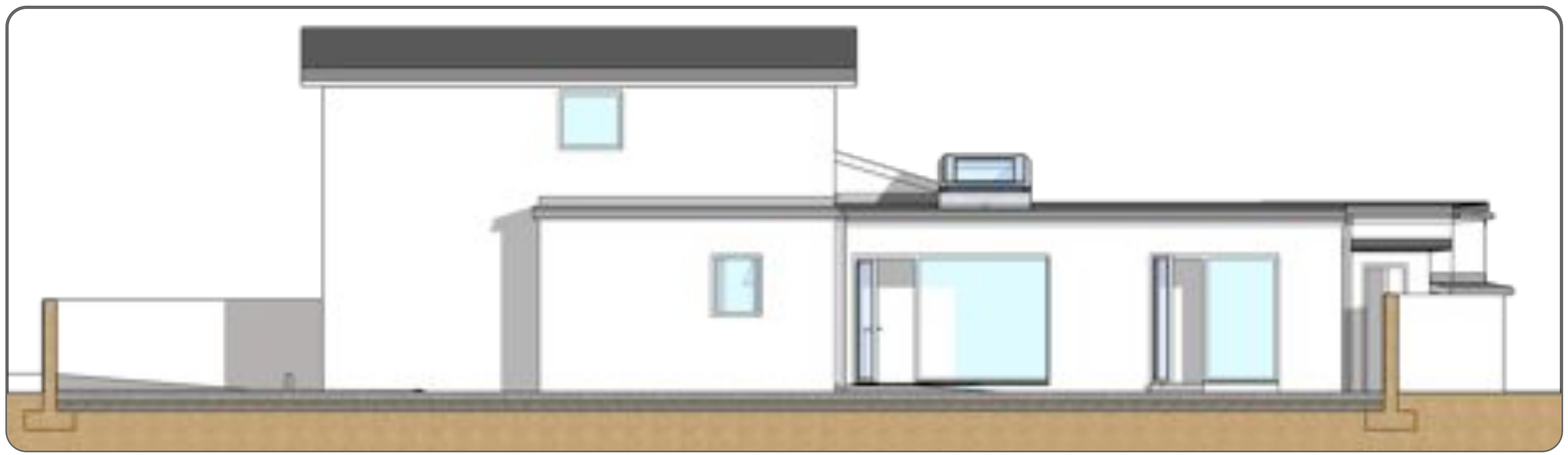
Hot air welded synthetic flat roof membrane to architect's specification
Proprietary fleece
25mm RBP ply
25mm treated S/W fascia board
Firring pieces to fall of max. 1:40
50mm ventilation gap above insulation
Joists @ 400mm c/s to Homebond specifications
300mm isomer insulation
100 x 50mm treated s/w wall plate
S/S straps @ 400mm c/s
Double slate cemented and nailed to top of inner leaf
Taped joint
38mm integrated foil backed insulated plasterboard
250mm wall tie
Code blue lead flashing fixed into existing outer leaf and draped 150mm down to concrete lintel
Vent holes drilled into existing garden wall to provide the equivalent of 10mm gap along entire length of wall
Smooth sand/cement 3 part render- painted

detail c (plan) scale 1:10



Air permeability layer to Architect's specification
S/S bracket screwed to inner concrete leaf
90mm Quinntherm or equivalent high density phenolic foam
250mm wall ties @ 450mm c/s vertically and 900mm c/s horizontally
Taped joints
10mm tiled floor
150mm reinforced concrete power floated concrete slab
200mm Quinntherm or equivalent phenolic foam to provide max U-value of 0.25 W/m²K
Radon barrier
50mm sand blinding
150mm well compacted hard core
Weep holes @ 450mm c/s
Mortar infill 75mm below GL

detail f scale 1:10



section b - b scale 1:50