vation of Fuel and Power - June 22

Wall Options
PPROPRIATE
ntioned below, assuming the thermal properties/U Values are at
s, any simlar product is acceptable

FULL FILL MINERAL WOOL WITH AIRCRETE
K – 150MM CAVITY
ickwork
ty with;
auf Dritter 32 insulation (0.032 W/mK)
crete blockwork (0.15-0.18 W/mK);
asterboard on dabs

PARTIAL FILL PIR INSULATION WITH LIGHT MEDIUM DENSE
RK – 150MM CAVITY
brickwork
avity with;
elotex CW4000 insulation (0.022 W/mK)
ght medium dense blockwork (0.49 W/mK);
plasterboard on dabs

– PARTIAL FILL PIR INSULATION WITH AIRCRETE
ORK – 135MM CAVITY
m brickwork
cavity with;
Celotex CW4000 insulation (0.022 W/mK)
aircrete blockwork (0.15-0.19 W/mK);
m plasterboard on dabs

N 4 – PARTIAL FILL PIR INSULATION WITH BLOCKWORK – 125MM
Y
mm brickwork
m cavity with;
n Kingspan Kooltherm K108 Cavity Board insulation (0.018 W/mK)
m aircrete blockwork (0.15-0.51 W/mK);
mm plasterboard on dabs

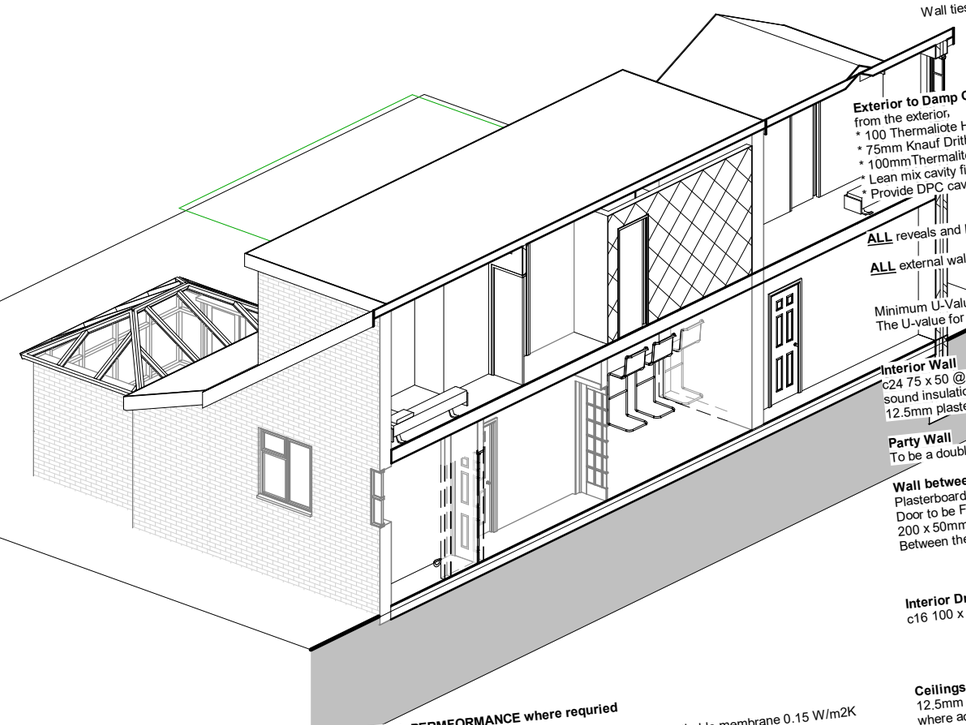
ON 5 – FULL FILL PIR INSULATION WITH AIRCRETE BLOCKWORK –
M CAVITY
.5mm brickwork
0mm cavity with;
0mm Xtartherm CavithTherm (0.021 W/mK) or 90mm Kingspan Kooltherm
6 Cavity
rd insulation (0.018 W/mK)
0mm aircrete blockwork (0.15 W/mK);
2.5mm plasterboard on dabs

TION 5a – FULL FILL PIR INSULATION WITH AIRCRETE
OCKWORK – 100MM CAVITY
Rendered finish (sand and cemet/K-Rend)
100mm aircrete blockwork (0.15 -0.19W/mK)
100mm cavity with;
100mm Xtartherm CavithTherm (0.021 W/mK) or 90mm Kingspan Kooltherm
K106 Cavity
Board insulation (0.018 W/mK)
• 100mm aircrete blockwork (0.15 -0.19 W/mK);
• 12.5mm plasterboard on dabs

OPTION 6 – PARTIAL FILL PIR INSULATION WITH AIRCRETE/CONCRETE BLOCKWORK – 150MM CAVITY
• Rendered finish (sand and cemet/K-Rend)
• 100mm Concrete Block
• 150mm cavity with;
• 100mm Xtartherm CavithTherm (0.021 W/mK) or 90mm Kingspan Kooltherm K106 Cavity
Board insulation (0.018 W/mK)
• 100mm aircrete blockwork (0.15 W/mK);
• 12.5mm plasterboard on dabs

SureCav 50 system in the cavity with a flint exterior skin on aircrete block(where applicable) to meet 0.18W/m2K while maintaining a wall thickness of 300mm

FULL FILL PIR INSULATION WITH AIRCRETE BLOCKWORK – 100MM CAVITY
• 102.5mm brickwork (aircrete block with flint finish - where specified onthe apporved plans)
• 100mm cavity with;
SureCav 50
100mm Xtartherm CavithTherm (0.021 W/mK) or 90mm Kingspan Kooltherm K106 Cavity (or similar) Board insulation (0.018 W/mK)
• 100mm aircrete blockwork (0.15 W/mK);
• 12.5mm plasterboard on dabs



OPTIONS TO INCREASE THERMAL PERMFORMANCE where requried
Exterior
• batten and clad to block work + 25mm rigid insulation (0.023 W/mK) /TLX Gold breathable membrane 0.15 W/m2K
• 25mm rigid insulation (0.023 W/mK) with a cement board and rendered

Interior
• batten and 25mm rigid insulation (0.023 W/mK)
• insulation backed plater board

Cladding - finish.
25mm Cross Batten
6mm Promat Supalux/Masterboard, or equivilent (if an exterior/boundary/flank wall)
Breathable membrane
12mm OSB ply
200 x 50mm c24 Timbers @ 400mm centre, noggings at <1100mm
Between the timbers
50mm air gap, with 50mm holes drilled for cross ventiliation
150mm rigid insulation (eg Cellotex or EcoTherm)
Timbers to have a 200*50mm c24 head and base plate - fixed to a 250*50 plate bonded at damp, fixed to the brick work to the brick work with 30*5mm glavansied fixings @ 600mm centres.
Breathable membrane

25mm rigid insulaton (eg Cellotex or EcoTherm)
Plastered, plaster board to interior finish (fire resitant board when an exterior wall)

Exterior Masonary
from the Exterior.....
* 102.5mm face brick work (to match or external coverage)
* 25mm Air Gap/Cavity
(OPTION) fill insulation, such as Knauf DriTherm 37non-combustable glass mineral wall slab, fixed to internal skin
PLUS thermal backed insulated plasterboard to the internal skin of celcon block
(OR) 125mm, such as Knauf DriTherm 37non-combustable glass mineral wall slab, fixed to the internal skin.
* 100 Thermaliote Hi Strength aircrete Block 7.3N

* Horizontal Damp ProofCourse to be a minimum of 150mm from the floor level.
* Insulated cavity closers for each reveal.

Plastered, plaster board to interior finish
cavity closers at each junction with perpendicular brick work
cavity tray where roof meets wall with code 4 lead flashings
weep holes at 900mm centres

Wall ties to be
sited at 700mm horizontal and max 300mm vertical spacing and within 225mm of any opening or movement joints
set a minimum of 50mm into each masonary leaf.
galvanized aluminium or Stainless Steel construction

Exterior to Damp Course
from the exterior,
* 100 Thermaliote Hi Strength aircrete Block 7.3N
* 75mm Knauf Dritherm Cavity Slab 32 insulation
* 100mmThermalite High Strength Aircrete Block 7.3N
* Lean mix cavity fill up to 300mm below floor level
* Provide DPC cavity trays)with stop ends) over lintels and flat roof (where appropriate)

ALL reveals and heads to be fitted with insulated fire rated cavity closers

ALL external walls and replacement thermal elements to meet a U Value of 0.18W/m2K

Minimum U-Values for doors, windows and roof 1.4W/m2K
The U-value for doors 1.4W/m2K, while fire doors can meet the U-value of 1.8W/m2K

Interior Wall
c24 75 x 50 @ 400mm centres
sound insulation to fill
12.5mm plasterboard and 2.5mm plaster to each side

Party Wall
To be a double boarded to provide a minimum 30min fire protection

Wall between Garage and dwelling
Plasterboard to both sides (fire resitant board when an exterior wall)
Door to be FD30
200 x 50mm c24 Timbers @ 400mm centre, noggings at <1100mm
Between the timbers
100mm air gap, with 50mm holes drilled for cross ventiliation
100mm rigid insulation

Interior Dry lining to interior mansoary wall
c16 100 x 50 @ 400mm centres, tied to the exterior wall with stainless profiles or similar.
sited at 700mm horizontal and 450mm vertical spacing,
set a minimum of 50mm into each masonary leaf.
galvanized aluminium construction

Ceilings and Wall covering
12.5mm plasterboard and 2.5mm plaster
where addition fire protection is required to meet a rating of
REI30 (between dwellings or new Floors) double boarding or fire plasterboard is required
British Gyspum Fire Board (Pink) to be taped and jointed and sealed with Fire retardent foam/beading

Loft Party Wall
50mm void/air gap
c24 75 x 50 @ 400mm centres
100mm sound insulation to fill
12.5mm plasterboard and 2.5mm plaster

1:500		50
1:200		20
1:100		10
1:50		5

parkers executive design

All measurement to be checked on site prior to any commenment

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PROJECT: 82 Lovedean Lane PO8 9SS	CLIENT: Duff		
	Date: Issue Date	Scale (@ A3):	
SHEET: 3D Section	Drawn by: SW	DRAWING NUMBER: BR 2	REV:
	Checked by: SR		