

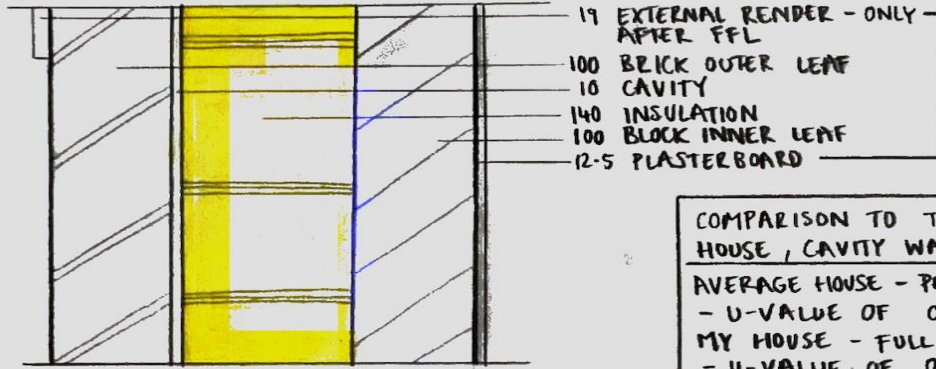
Project 4A – Primer on Existing Walls

Sean Molloy

C20445642

PRIMER ON EXISTING WALLS

(1990 - 2000) DETACHED HOUSE - FULL FILL CAVITY WALLS - ALL ESTIMATIONS

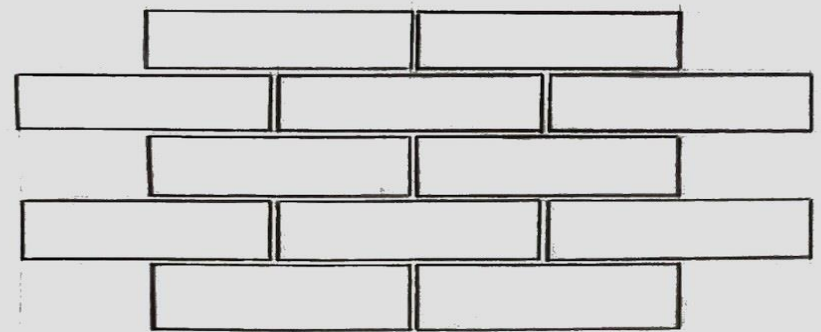


TOTAL WALL WIDTH
 AFTER FFL - 381.5MM
 BEFORE FFL - 362.5MM

COMPARISON TO TABULA - DETACHED HOUSE, CAVITY WALLS, 2005 - 2010
 AVERAGE HOUSE - PARTIAL FILL INSULATION
 - U-VALUE OF 0.27 W/m²K
 MY HOUSE - FULL FILL INSULATION
 - U-VALUE OF 0.207 W/m²K

TOTAL RESISTANCE - 4.837
 U-VALUE - 0.207 W/m²K

BOND PATTERN



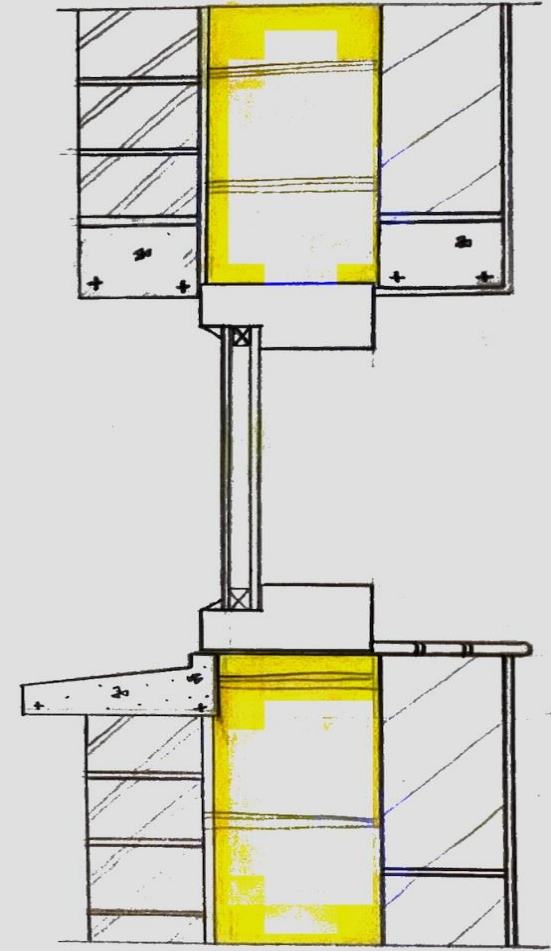
STRETCHER BOND

COMPARISON OF OTHER ELEMENTS

| ELEMENT | MY HOUSE | TABULA |
|---------|------------------------------------|------------------------------------|
| ROOFS | PITCHED, INSULATION BETWEEN JOISTS | PITCHED, INSULATION BETWEEN JOISTS |
| FLOORS | SOLID | SOLID |
| WINDOWS | DOUBLE GLAZED /PVC | DOUBLE GLAZED /PVC |
| DOORS | SOLID WOODEN | SOLID WOODEN |

CONCLUSION

BASED ON MY ESTIMATES, MY OWN HOUSE IS SLIGHTLY MORE ENERGY EFFICIENT THAN THE TABULA EXAMPLE (DETACHED HOUSE, CAVITY WALLS 2005 - 2010). MOST BUILDING ELEMENTS ARE THE SAME, APART FROM THE WALLS.



ESTIMATES OF WINDOW HEAD AND CILL

SEAN MOLLOY
 PROJECT 4A
 25 - 11 - 20



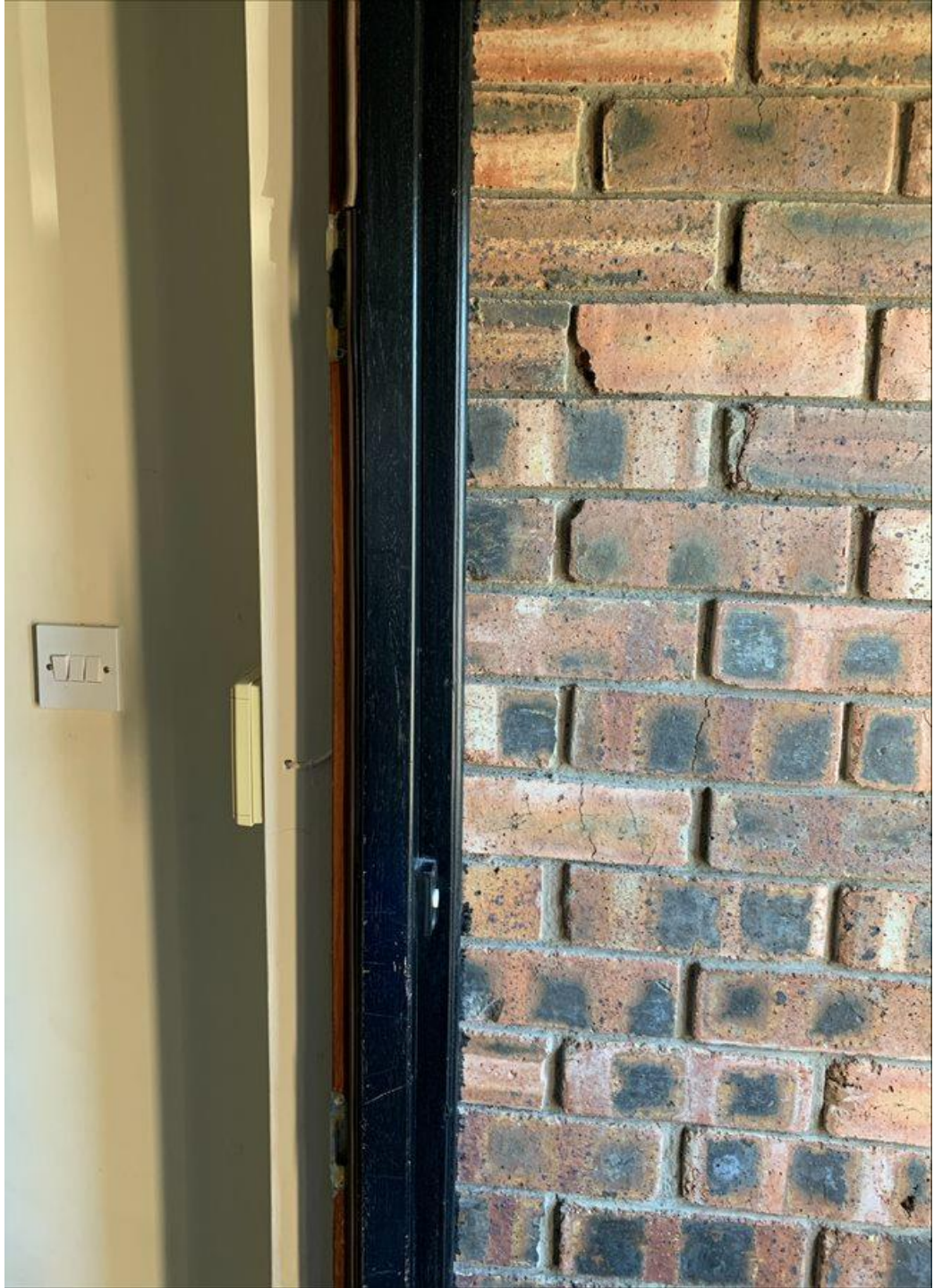
Window Details – Exterior and Interior

Brick Outer Leaf – 100mm

Window Width – 80mm

Interior- Insulation and Block – 180mm





Door Details – Front and Back Door

Front Door:

Interior – 60mm

Door Frame – 100mm

Exterior (to porch door) – 940mm

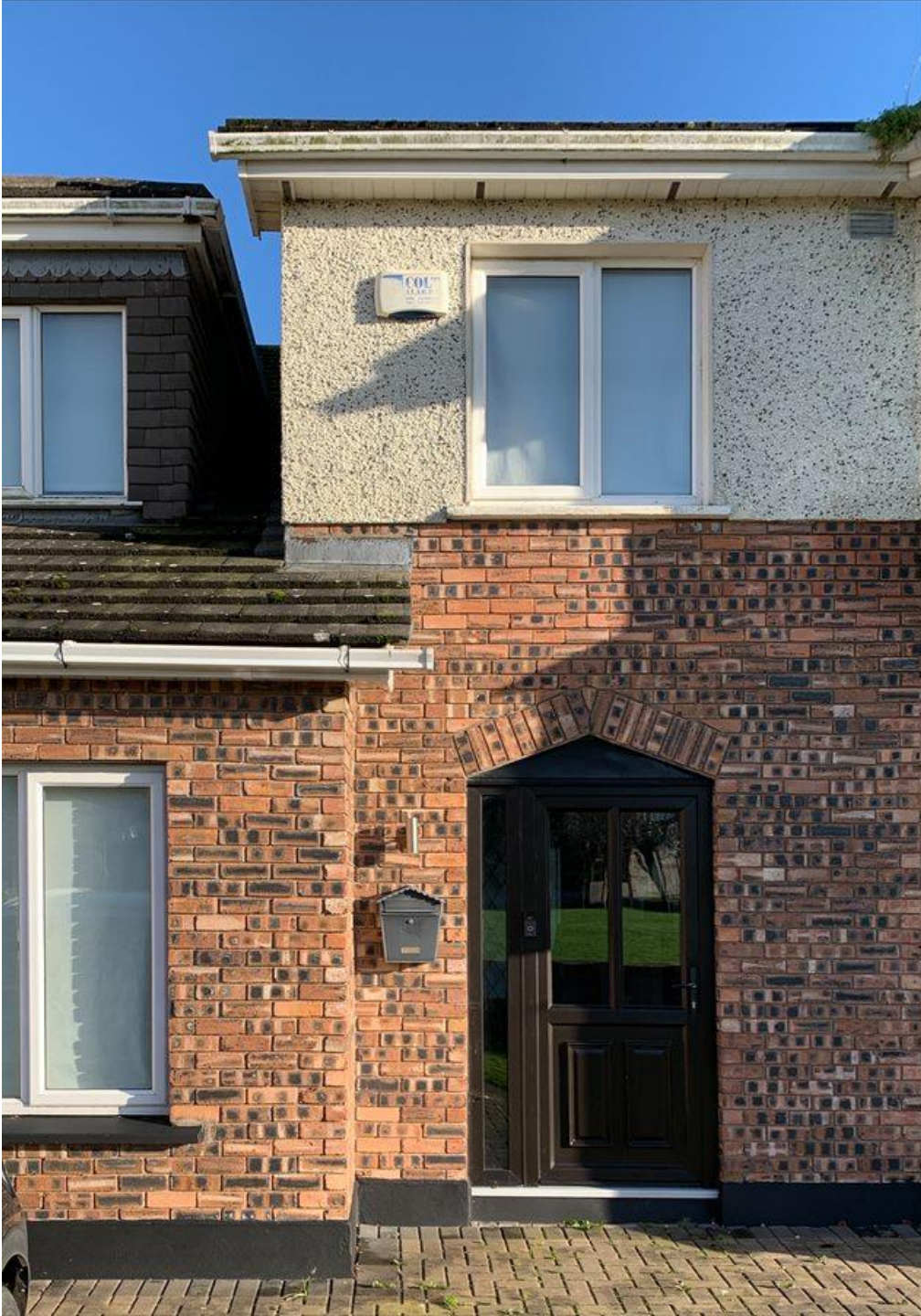
Back Door:

Interior – 130mm

Door Frame – 100mm

Exterior – 110mm





Front Elevation

- Brickwork – Stretcher Bond and Lintel over Porch door.
- Pebbledash external finish from roof down.
- Plinth at bottom to protect against water ingress.
- Vent also show at top right.