

Excavation for Top

Soil dept

40.450

0.75 30.34

150 mm Assumed
Top soil Removal
 $675 - 150 = 525$

$525 + 225 = 750\text{mm}$
 $225 = \text{concrete dept}$

Excavation Trench

40.450

0.75

0.75 22.75

(Volume) m^3
Excavating trench by
Machine; Grading
Bottoms; Earthwork
support; Filling with
excavated material &
compacting; disposal
of surplus soil on
site; spreading on site
average 50m from
excavation - run

Not exceeding 0.75m
Price = £7.61

1.1212

2.885 3.234

6.164

2.885 17.783

8.285

6.2 51.4

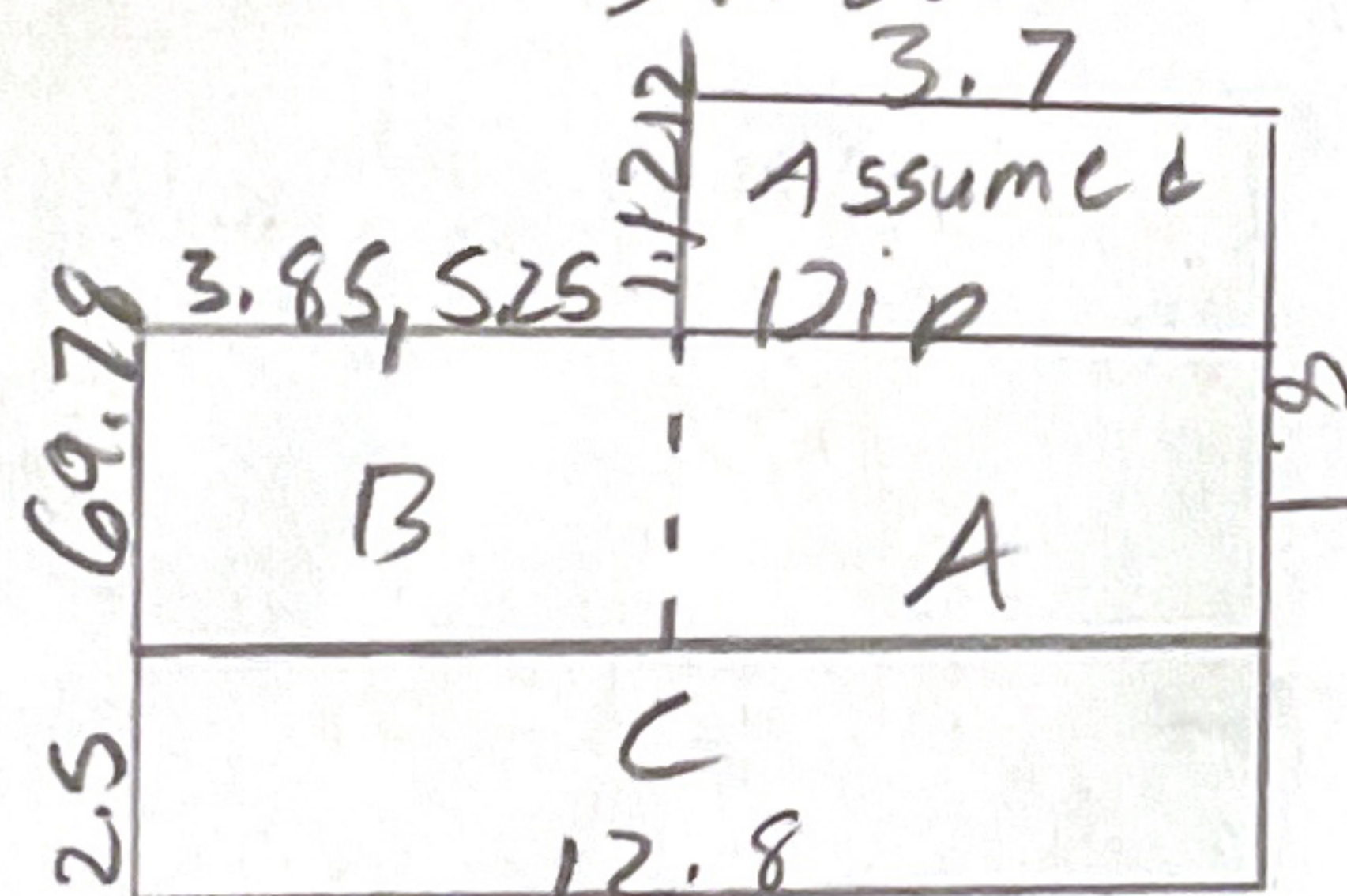
11.17

2.5 27.93

100.35

Gross Internal Ground

Floor Area



Gross Internal First

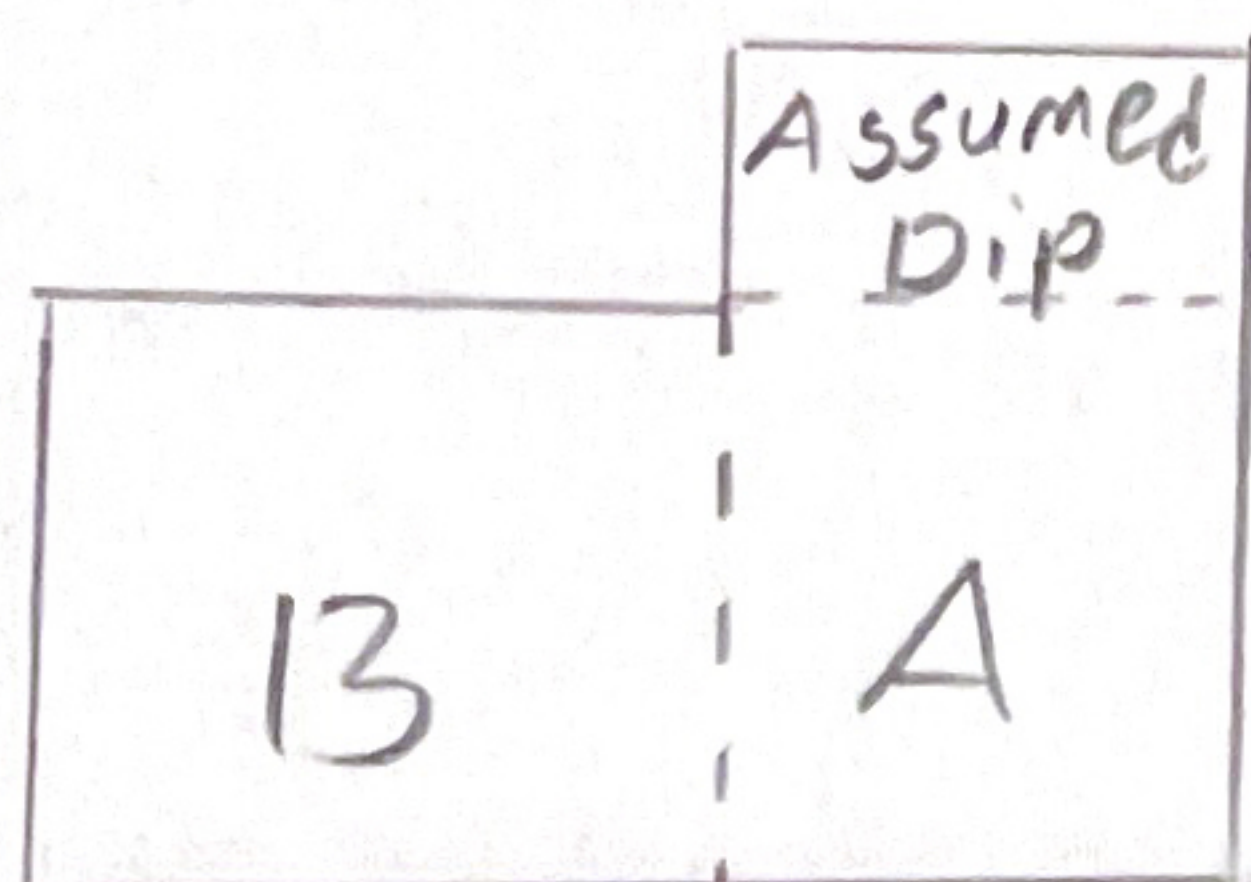
Floor Area

3.234

17.783

51.4

72.42



Foundations for Ground floor

Prestressed precast
concrete beam & block
floor; Concrete & sand
grout brushed between
beams and block;
 $440 \times 215 \times 100\text{mm}$
concrete block infill
beam and block flooring
of ground level: 225
mm thick beams up to
4.20m span - price

£86.02

Floor Finishes

Wood strip, 22mm thick
Junkers All in Beech
Sylvia Sport premium,
pretreated or other equal
and approved; tongue
and grooved joints
on bearings etc; level
fixing to cement & sand
base - price £75.18

Take of for Walls and Roof

Wall Thickness

Inner skin = 200 mm

Insulation = 75 mm

Cavity = 30 mm

Brick = 102.5 mm

Total = 407.5 mm

$\times 2 = 815$

Centre lines

Centre line of Brick =

$4 \times 2 \times \frac{1}{2} \times 102.5 = 410$

Outer face of External

Skin $41800 - 410 =$

41390

Centre line of External

Skin $41390 - 410 =$

40980

Inner face of external

Skin $40980 - 410 =$

40570

Centre line of cavity

$4 \times 2 \times \frac{1}{2} \times 30 = 120$

$40570 - 120 = 40450$

Inner face of cavity

$40450 - 120 = 40330$

Centre line of insulation

$4 \times 2 \times \frac{1}{2} \times 75 = 300$

$40330 - 300 = 40030$

Inner face of Insulation

$40030 - 300 = 39730$

Centre line of Internal

Skin $= 4 \times 2 \times \frac{1}{2} \times 200 = 800$

$39730 - 800 = 38930$

Inner face of External
Skin

$38930 - 800 =$
 38130

Brick Work

Facing brick; machine
made facing; in gauged
mortar (1:1:6)

Face work both sides,
one brick thick: Flemish
bond - price £161.20

Insulation

Mineral fibre quilt
Isover Acoustic
Partition Roll (APR
1200) or other equal
Pinned vertically to
soft wood 75 mm thick
price - £5.12

Block Work

smooth face paint
grade concrete block
in gauged mortar
flushed pointing one
side - 200 mm thick
price = £46.99

40.98

6.757 276.9

40.03

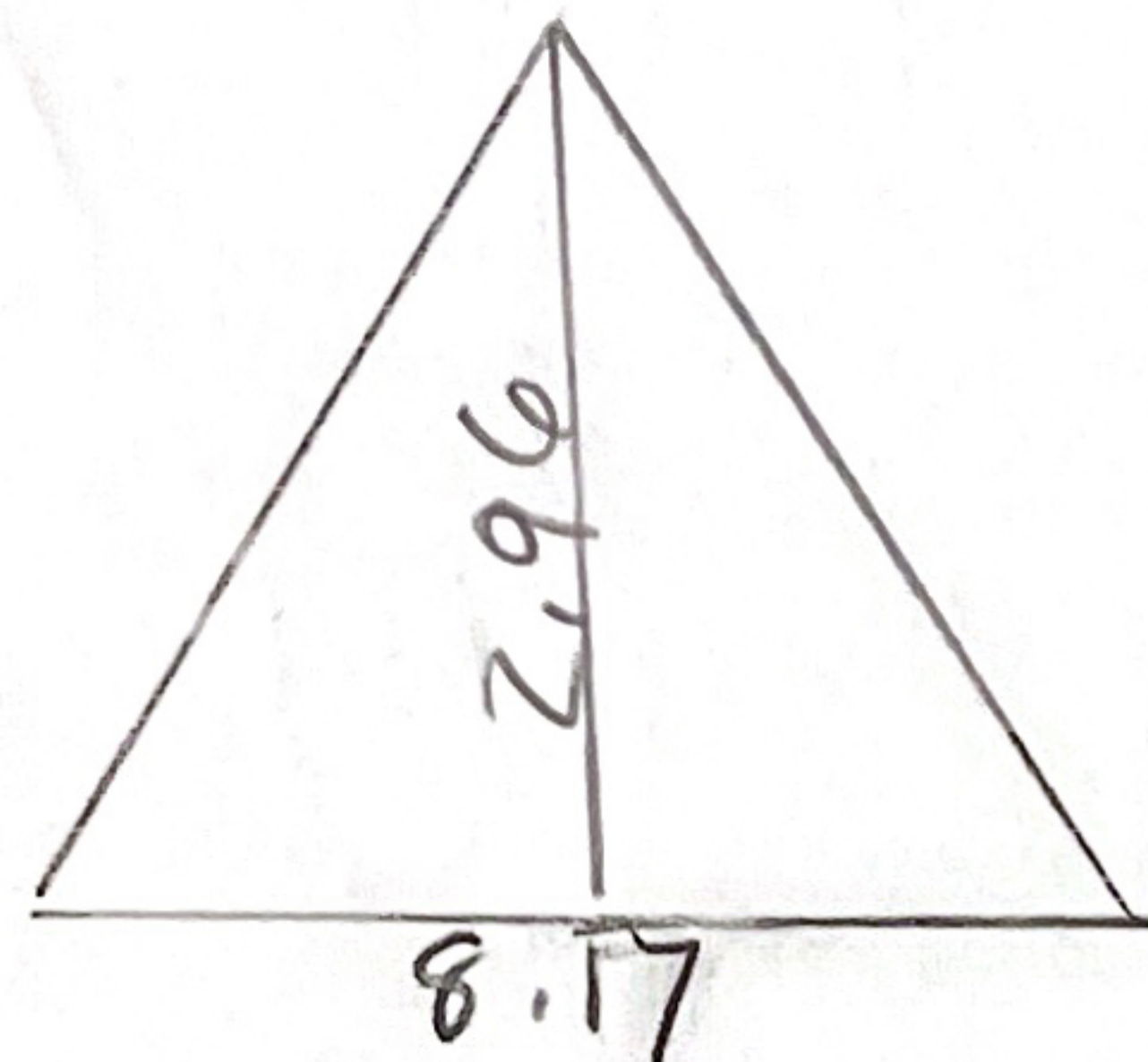
6.757 270.5

38.93

6.757 263.05

Roof

Concrete interlocking
slate: Redland Mini
store wold concrete
slate or other
equal: 75mm lap
on 25mm x 38mm
batters & types
of reinforcement
underlay Total
£ 22.62



Area of Trapezium

$$\frac{A+b}{2} \times h$$

$$12800 - 6000 = 6800$$

mm (A)

$$\text{with eaves } 12800 + 70 = 12870$$

$$\frac{6800 + 12870}{2} \times 2.96 =$$

$$19,670 \text{ mm} \times 2.96 \text{ m} =$$

$$\frac{19,670}{2} \times 2.96$$

$$\frac{9,84}{2} \times 2.96 = 29.13$$

Both sides of
Trapezium =
 $28.979 \times 2 = 57.958$

Triangle Roof +
Trapezium Roof =
 $58 + 24.183 =$
 82.443 m^2

$2\frac{1}{2} \times$
8.17
2.96
24.18