

Excavation for Top

Soil dept

40.450

0.75 30.34

150 mm Assumed

Top soil Removal

$675 - 150 = 525$

525 + 225 = 750 mm

225 = 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

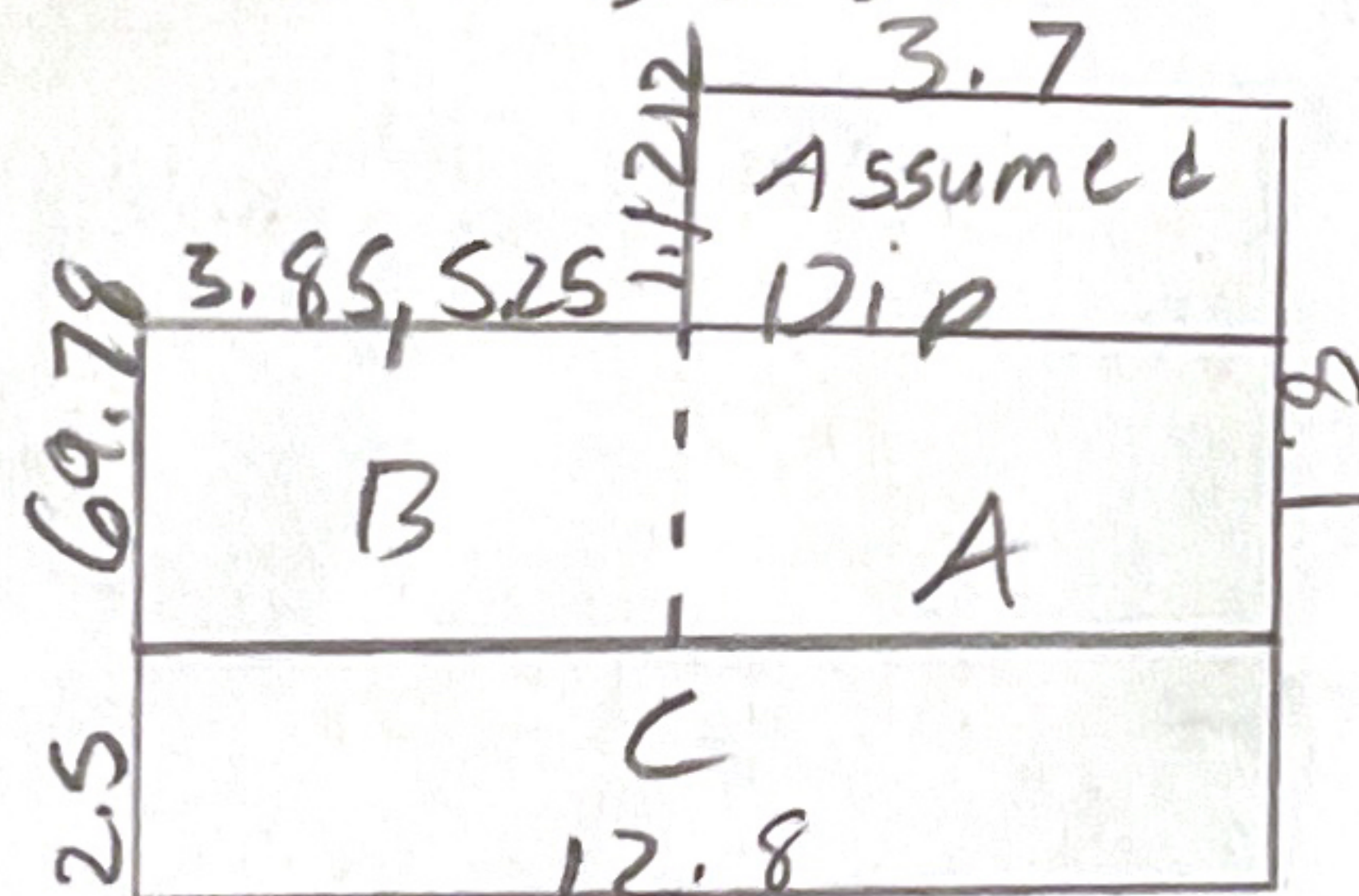
11.17

2.5 27.93

100.35

Gross Internal Ground

Floor Area



Gross Internal First

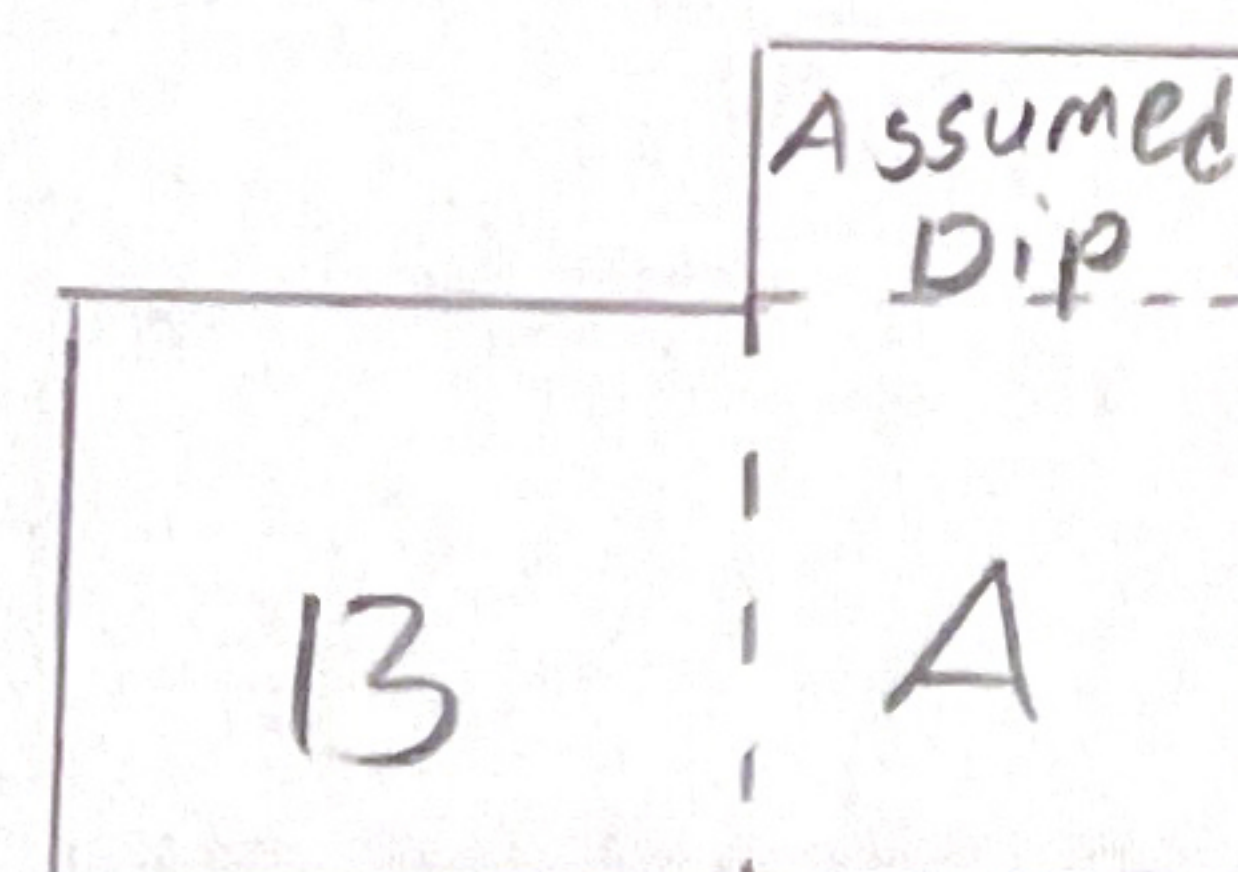
Floor Area

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;

440x215x100 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

Junckers All in Beech

Sylva 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

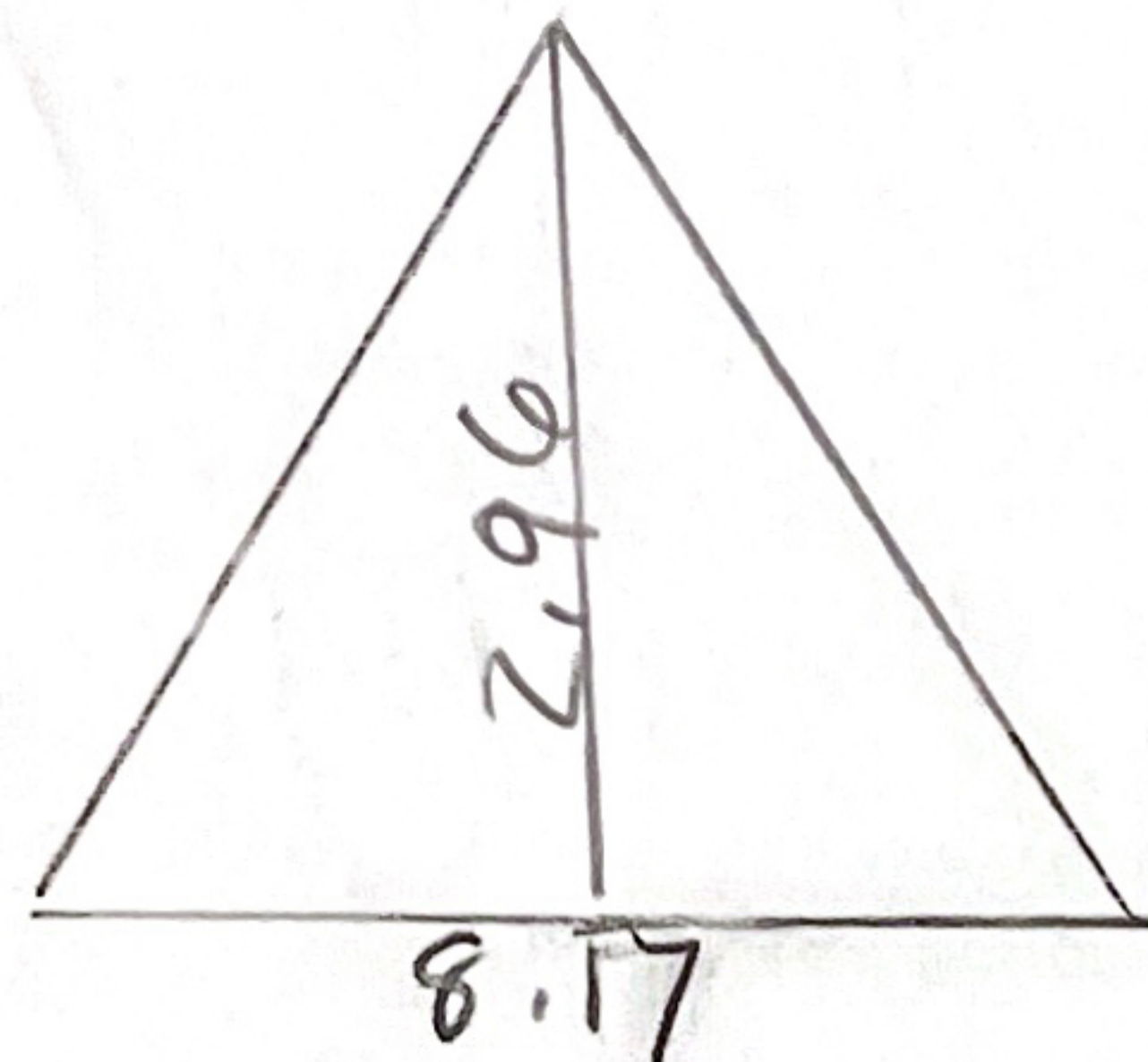
6.757 270.5

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)

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

$$\frac{6800 + 12870}{2} \times 2.957 =$$

$$19,670 \text{ mm} \times 2.957 \text{ m} =$$

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

$$9.84 \times 2.96 = 29.13$$

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