



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2025

MARKING GUIDELINES

MARKS: 100

These marking guidelines consist of 7 pages.

ANSWERS		
1	1 : 400	1
2	02/07/2025	1
3	58	1
4	STRAND	1
5	8/ EIGHT	1
6	6000	1
7	<u>DIRECTION OF GATE</u> OPENING	1
8	1 : 40	1
9	1/ ONE	1
10	MANHOLE	1
11	DRIVEWAY	1
12	<u>ELECTRIC FENCE</u>	1
13	CONC	1
14	BLUE	1
15	DRAINAGE PLANS	1
16	3/ THREE	2
17	26500 ✓ ANSWER IN MILLIMETRES✓	2
18	See below	3
19		3
20		5
TOTAL		30

ANSWER 18

Show ALL calculations.

APPLYING CORRECT FORMULA ✓
 LENGTH OF FENCE
 $= (AB + BC + DE + EA) - \text{GATE}$
 $= (46,07 + 38,84 + 30 + 64,78) - 6$
 $= 173,69$ ✓ ANSWER IN METRES ✓

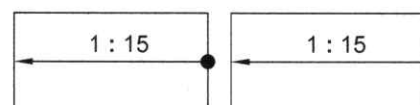
ANSWER 19

Show ALL calculations.

APPLYING CORRECT FORMULA ✓
 $5,5 \times 8 = 44$
 $3,5 \times 5 = 17,5$
 $8 \times 12 = 96$
 $7 \times 5 = 35$ ✓
 $= 192,5 \text{ m}^2$ ✓ ANSWER IN SQUARE METRES, WITH m^2 INCL.

ANSWER 20

(a) RAMP



RECTANGLE 0.5
 ARROW + DOT + DIRECTION 0.5 + 0.5 + 0.5
 GRADIENT 0.5
 FREEHAND 0.5

(b) DOUBLE SINK

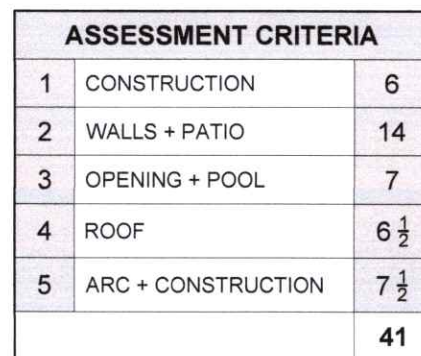


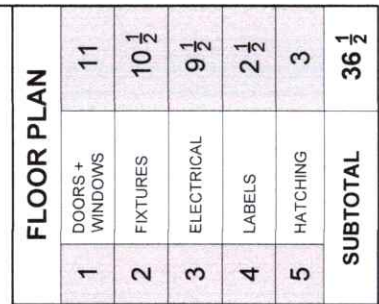
TOP LINE/ RECTANGLE 0.5
 BOTTOM RECTANGLE(S) 0.5
 TWO BOWLS 1

PAPER 1 QUESTION 2
GRADE 12
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MARKING GUIDELINES



IN ALL VIEWS:
1 HEXAGON PLACEMENT (37 mm + CENTRE)
1 HEXAGON ROTATION ✓1





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58 mm

64 mm

1 mm

ROOF HEIGHT 1

ROOF + RWDP

WALLS + STEPS

DOOR + WINDOW

Labels

SOUTH-EAST ELEVATION 4

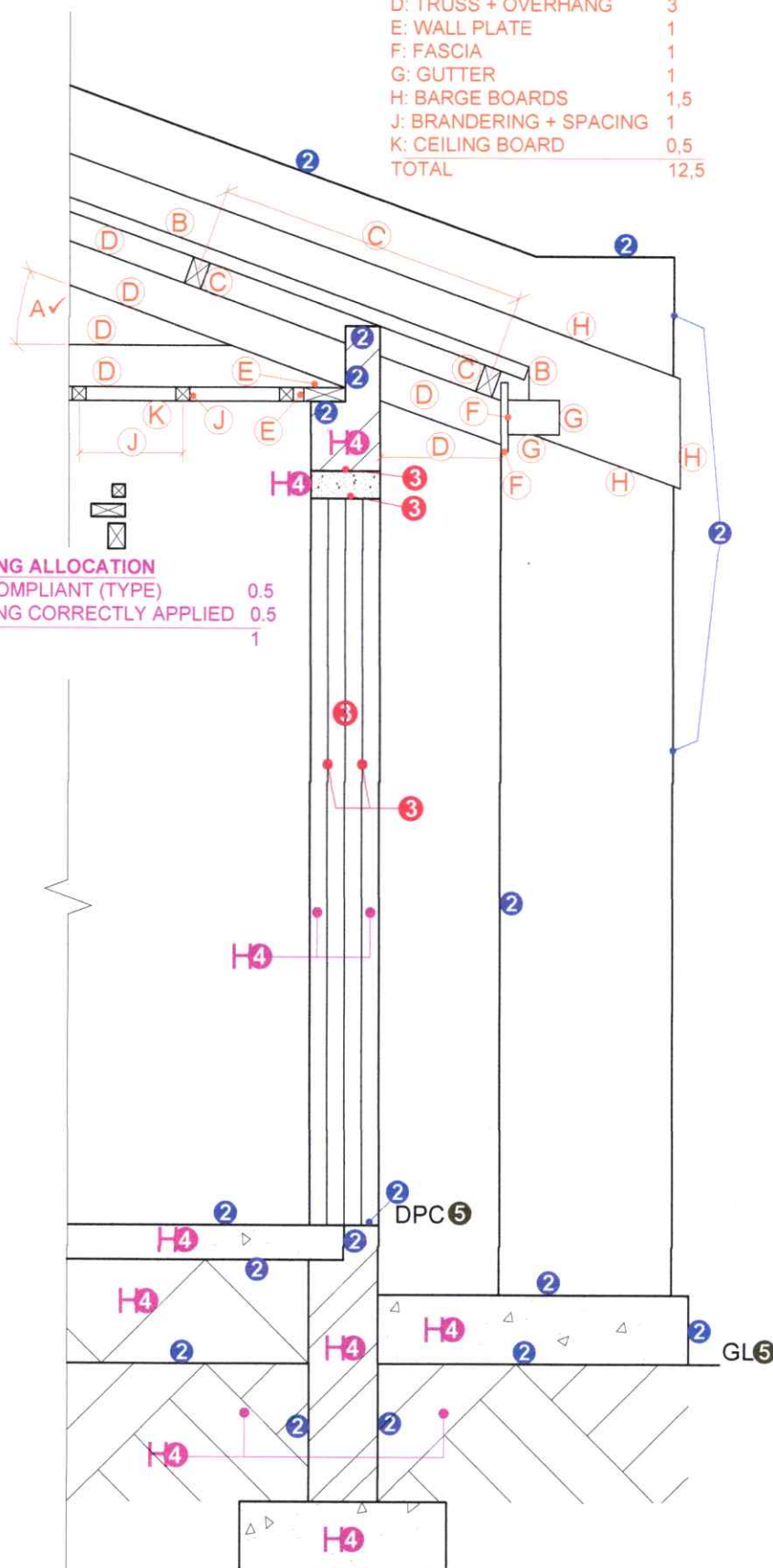
SOUTH-EAST ELEVATION	
1	ROOF + RWDP
2	WALLS + STEPS
3	DOOR + WINDOW
4	Labels
SUBTOTAL	

1. MARK ALLOCATION FOR ROOF

A: ROOF ANGLE	1
B: ROOF SHEET	1
C: PURLIN + SPACING	1,5
D: TRUSS + OVERHANG	3
E: WALL PLATE	1
F: FASCIA	1
G: GUTTER	1
H: BARGE BOARDS	1,5
J: BRANDING + SPACING	1
K: CEILING BOARD	0,5
TOTAL	12,5

HATCHING ALLOCATION

SANS COMPLIANT (TYPE)	0.5
HATCHING CORRECTLY APPLIED	0.5
TOTAL	1



SECTION A-A
SCALE 1 : 20

DETAILED SECTION

1	ROOF DETAIL	12 $\frac{1}{2}$
2	SLAB + WALLS + STEP	8 $\frac{1}{2}$
3	DOOR + LINTEL	2
4	HATCHING	5 $\frac{1}{2}$
5	LABELS	1
SUBTOTAL		29 $\frac{1}{2}$

PAPER 1 QUESTION 4
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