higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

MASONRY
NQF LEVEL 2

22 November 2024

This marking guideline consists of 5 pages.

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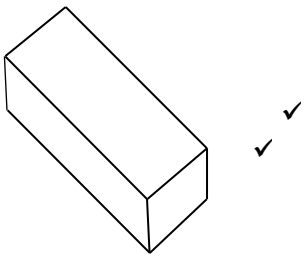
QUESTION 1: GENERAL

1.1 False
1.2 True
1.3 False
1.4 True
1.5 True
1.6 True
1.7 False
1.8 False
1.9 False
1.10 True

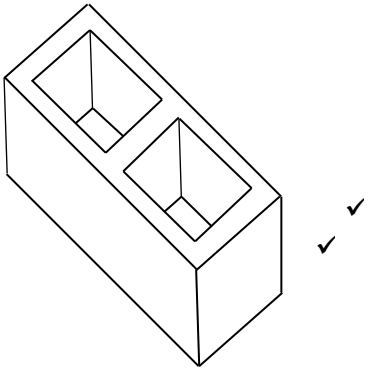
(10 × 1) **[10]**

QUESTION 2: INTRODUCTION AND BACKGROUND

2.1



SOLID UNIT



HOLLOW UNIT

(2 × 2) (4)

2.2 Collar jointed wall: is a wall that consists of two leaves with a gap of about 10 mm in-between two leafs. (1)

2.3
- English bond
- Flemish bond
- Stretcher bond
- Garden wall bond
- Header bond

(Any 3 × 1) (3)
[8]

QUESTION 3: SETTING OUT MASONRY WALLS

3.1
- Bolster chisel
- Brick hammer
- Brick cutter
- Club hammer (Any relevant answer) (4)

3.2 3.2.1
- Site clearance
- Site levelling
- Site surveying (Any 2 × 1) (2)

3.2.2
- Floor plans
- Site plans
- Sectional views
- Elevations
- North point (5)

3.3
- Setting out profiles: are temporary wooden structures comprising of vertical wooden pegs✓ with horizontal section driven into the ground one metre away ground one metre away from the corner✓ pegs to receive markings of foundations & walls position.✓
- Corner profiles: are steel or straight wooden sections equal in height that of the wall,✓ used as temporary corners along the length of the wall.✓ Brick courses, door and windows detail are marked of on the profiles.✓

(3 × 2) (6)

3.4
- Place a 3 m long straight edge on two masonry units exactly the same size.
- Take a second straight edge of the same length place the one end of one of the masonry units next to the first spirit level. The other should be free to lift up or down.
- Place a level on the free end and lift the straight edge, or lower it, unit it is level.
- Measure the distance between the top of the first straight edge and the top of the second straight edge. Do so at the end where the level is.
- If the distance is bigger than 6 mm, the foundations should be levelled before you carry on working. (5)

[22]

QUESTION 4: BASIC CONSTRUCTION OF MASONRY WALLS

4.1
4.1.1 Header:✓ full brick showing a 110 × 75 mm face✓
4.1.2 Stretcher:✓ full brick showing a 220 × 75mm face✓
4.1.3 Bed joint:✓ 10 mm mortar bed✓
4.1.4 Perpend joint:✓ 10 mm vertical joint✓
4.1.5 Queen closer:✓ longitudinally cut half brick, showing 55 × 75 mm face✓

(5 × 2) (10)

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4.2
- Plastic
- Course of engineering brick
- Bitumen
- Slate
- Lead sheeting
- Copper sheeting (Any 4 × 1) (4)

4.3
- There should be a weep hole in the vertical joints at least at every 600 mm.
- The D.P.C is tucked into the shell bedding on the cavity case.
- Make sure that the D.P.C is on the concrete infill. (3)

4.4
- If the two units are separated by control joint.
- If DPC is inserted between a course of clay and a course of concrete units.
- If used in two separate leaves of collar jointed wall.
- When used in cavity wall's separate leaves. (4)

4.5
- Concave
- Raked
- Weather struck
- Vee
- Flush
- Square recessed (6)

[27]

QUESTION 5: ADVANCED CONSTRUCTION OF MASONRY WALLS

5.1
5.1.1 B
5.1.2 I
5.1.3 C
5.1.4 A
5.1.5 H
5.1.6 F
5.1.7 B
5.1.8 J
5.1.9 G
5.1.10 D

(10 × 1) (10)

5.2
- Bond block lintels.
- Precast pre-stressed concrete lintel.
- Bed-joint reinforced lintel. (3)

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5.3 5.3.1 Is a long, flat, narrow piece of wood or metal used in building to support plaster.

5.3.2 A wall that intersects another wall.

5.3.3 Is a vertical post at the side of a door or window.

5.3.4 Is a vertical post at the side of a door or window frame.

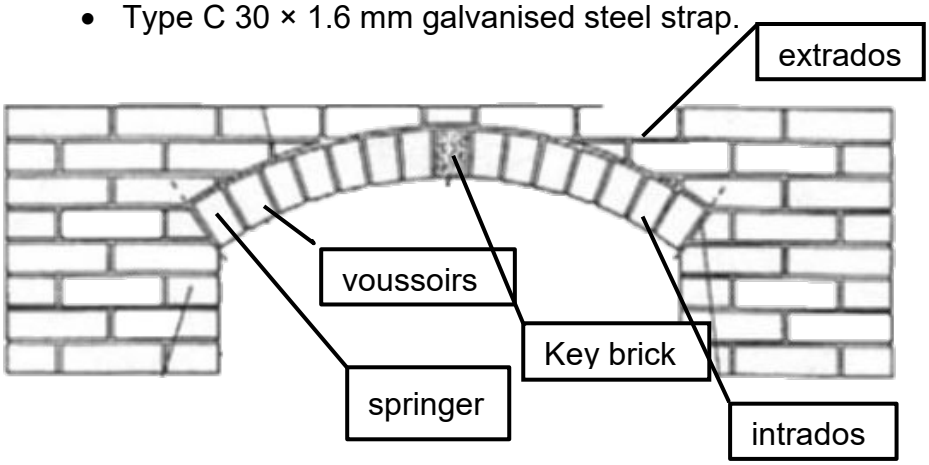
5.3.5 Is a part in a door frame that provides a stop for the door.

(5 × 1) (5)

5.4 5.4.1 Roof plans helps us know the exact position on which to put roof ties,✓ so that roof trusses can be easily tied held down.✓ (1 × 2) (2)

5.4.2
- Type A 2.4 mm diameter galvanised steel wire.
- Type B 30 × 1.2 mm galvanised steel strap.
- Type C 30 × 1.6 mm galvanised steel strap. (3)

5.5



SEGMENTAL ARCH

MARK ALLOCATION	
Correctness	4
labelling	5
Neatness	1
Total marks	**10**

(10)
[33]

TOTAL: 100

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