



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

1 AUGUST 2018

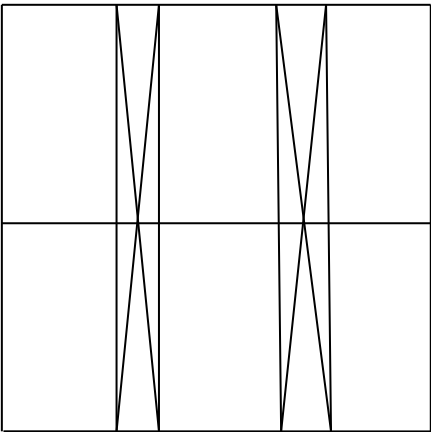
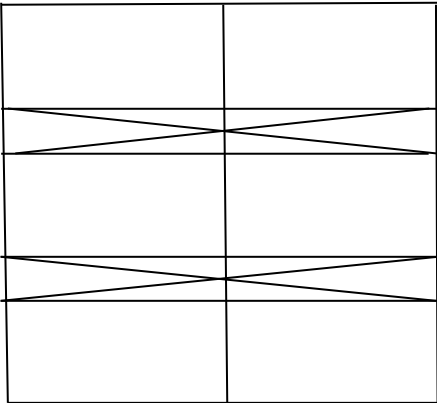
This marking guideline consists of 7 pages.

QUESTION 1

- 1.1
- A rough arch is formed of uncut bricks and
 - its shape is controlled by the type of turning piece or centre used to construct the arch.
 - Its mortar joints are wedge-shaped and
 - this plays an important part in the stability of the arch. (Any 3 × 1) (3)
- 1.2
- The plate must be true to the size and shape of the mould.
 - The mould must be strong and firm.
 - The mould must be suitable for the position in which the moulding is to be run.
 - The mould should be convenient to use. (4)
- 1.3
- Basket weave
 - Running pattern
 - Stack
 - Herringbone
 - Stretcher (Any 4 × 1) (4)
- 1.4
- Flat arch
 - Semicircular arch
 - Circular arch
 - Segmental arch
 - Elliptical arch
 - Gauged arch
 - Axed arch (Any 5 × 1) (5)
- 1.5
- Cement
 - Sand
 - An aggregate such as stone or crusher dust (Any 2 × 1) (2)
- [18]**

QUESTION 2

2.1

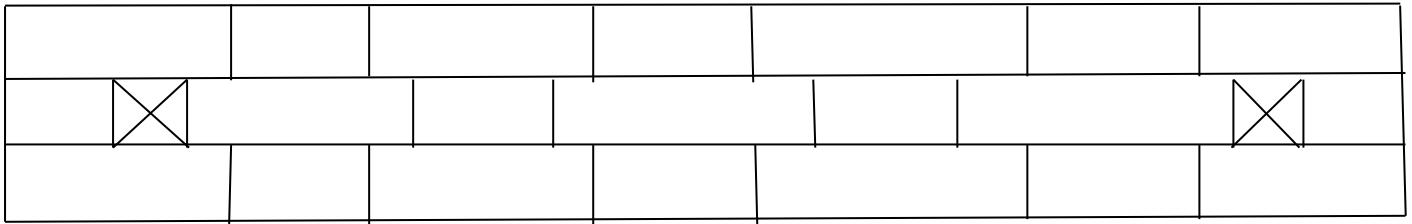
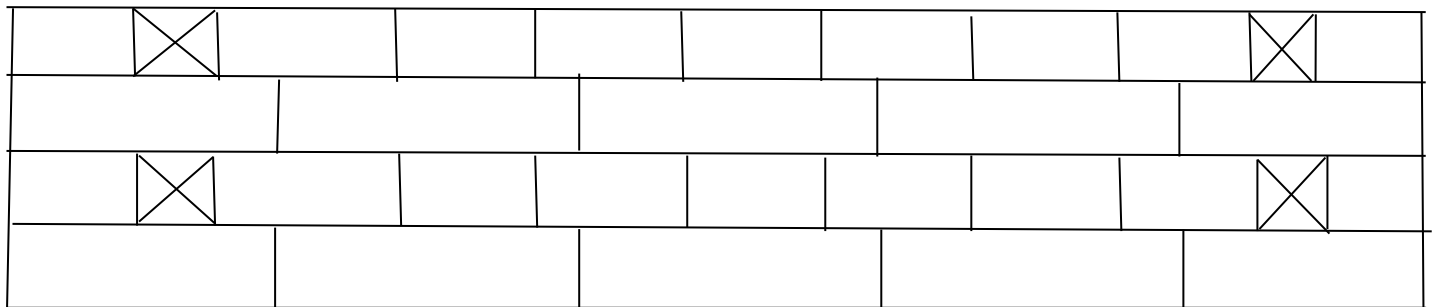


Correctness	6
Scale	1
Title	1
TOTAL	8

ALTERNATE PLAN COURSES OF A TWO-BRICK ISOLATED PIER IN ENGLISH BOND

SCALE 1:10 (8)

2.2

**FRONT VIEW IN FLEMISH BOND****FRONT VIEW IN ENGLISH BOND**

Correctness/Details	6
Title	2
TOTAL	8

(8)

- 2.3
- Top: Coping or roof
 - Side: Plaster and paint
 - Bottom: If there is no DPC

(3)

[19]**QUESTION 3**

- 3.1
- 1,200 mm
 - 900 mm

(2)

- 3.2
- Wood is cut
 - into specified sizes and lengths.
 - The cut timber then passes
 - through a shaving machine.
 - The long shavings
 - thus produced are known as wood-wool.
 - The wood-wool
 - is then bonded together with cement.

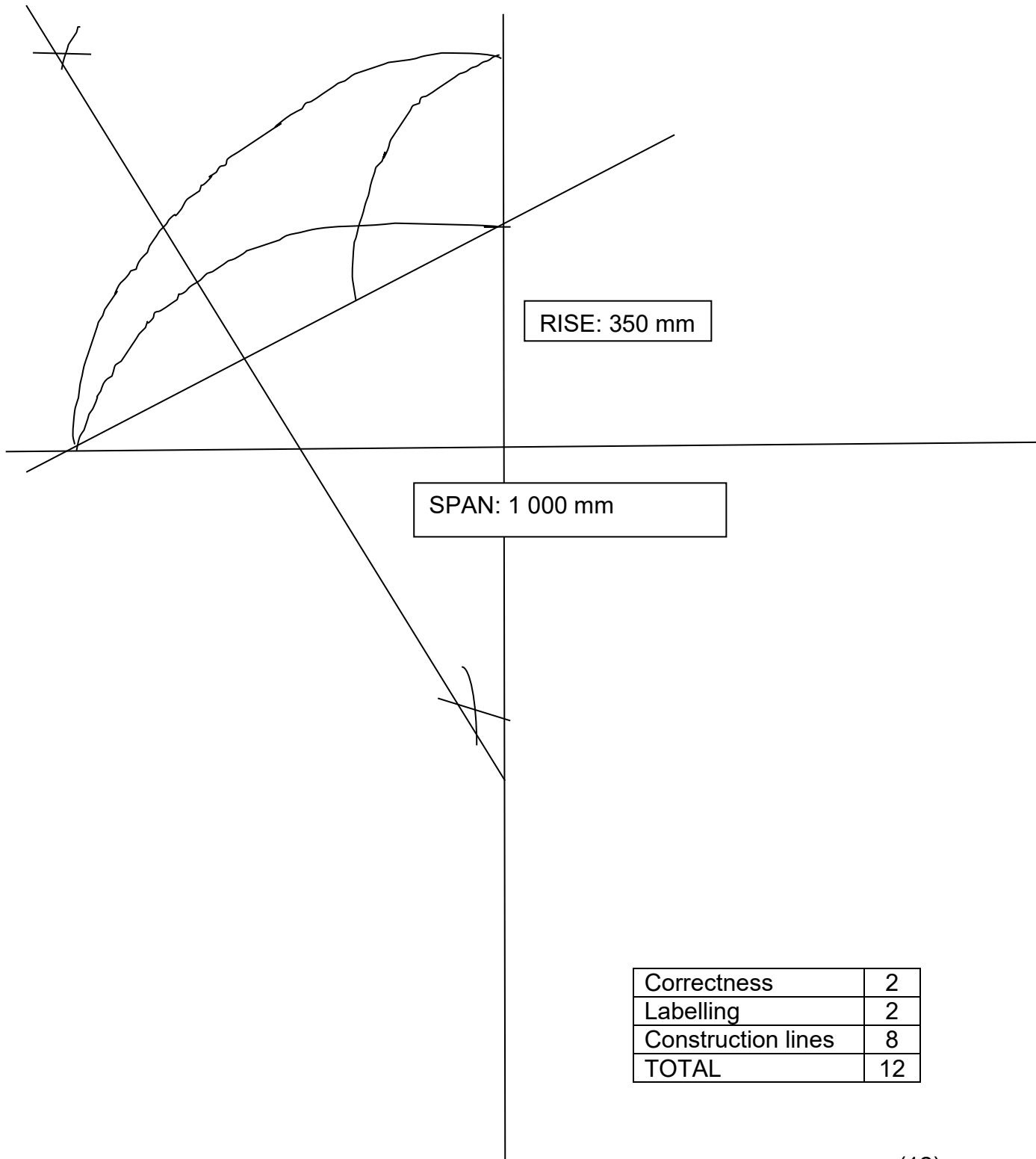
(OR any relevant answer) (4 × 2) (8)

- 3.3 3.3.1 • Rectangular pier
 • Projecting from the face of the wall
- 3.3.2 • Free-standing load
 • Bearing brickwork between openings
- 3.3.3 • An upright shaft
 • Generally rectangular or round
- (3 × 2) (6)
- 3.4 • Terrazzo is a composite material
 • which is used for floor and wall treatments
 • in which marble or stone chippings are used as aggregate.
 • The surface is ground to a smooth finish when dry.
- (4)
[20]

QUESTION 4

- 4.1 4.1.1 It has smaller mesh✓ because the finer grade will be used.✓
- 4.1.2 The bigger mesh✓ is used for exterior walls. Metal lathing also
 offers a better key for plaster mortar.✓
- (2 × 2) (4)
- 4.2 • Retaining forms in place
 • Ponding of water
 • Sprinkling or spraying with water
 • Covering with waterproof material
 • Covering with sand or sawdust
- (Any 4 × 1) (4)

4.3

(12)
[20]

QUESTION 5

- 5.1
- It prevents rainwater from entering the inside of the wall.
 - Two different types of masonry units can be used in the same wall.
 - The enclosed airspace in the cavity acts as insulation against heat and cold.
 - The stability of the wall is increased by broadening the base of walls that are often thin.
- (4)
- 5.2
- | | |
|-------|---|
| 5.2.1 | G |
| 5.2.2 | B |
| 5.2.3 | C |
| 5.2.4 | D |
| 5.2.5 | E |
| 5.6.6 | F |
| 5.2.7 | A |

(7 × 1) (7)
[11]

QUESTION 6

- 6.1
- The slope of the roof
 - The shape of the building
 - The direction of the flue in relation to the flue outlet
 - The proximity of trees and/or other buildings
 - The position of door and window openings
- (5 × 1) (5)
- 6.2
- Scaffold tube
 - Swivel coupler
 - Double coupler
 - Guardrail
 - Bay length
 - Toe board
 - Transoms
 - Standards
 - Base plate
 - Putlog clip
 - Cross bracing
 - Ledgers

(7)
[12]

TOTAL: 100