higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

BRICKLAYING AND PLASTERING THEORY N2

24 November 2022

This marking guideline consists of 6 pages.

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QUESTION 1

1.1 The area will not look very attractive,✓ weeds and other vegetation will grow between the bricks.✓ Paving bricks will get loose because of poor compaction when paving was done. The area will not be level and thus water-logged paving will be created.✓ (3)

1.2 1.2.1
- Tile grout
- Tile cement
- Tile spacers (Any 2 × 1) (2)

1.2.2
- Tile gauge
- Tile snapper
- Tile nipper
- Tile cutter
- Tiling trowel
- Rubber mallet (Any 4 × 1) (4)

1.3 A cavity wall construction is a wall built with two single leafs separated by a minimum 50 mm cavity or space✓ between the two leafs tied together by wall ties.✓ (2)

1.4
- Terrazzo floors can be buffed using a dry brush.
- Daily dry mopping to remove dust particles.
- Remove stains with a natural cleaner diluted in warm water.
- Weekly mopping.
- Since terrazzo is slippery in wet conditions, apply a slip-resistant dressing after cleaning.
- Apply a new sealer occasionally after stripping off the old sealer completely.
- Never wax terrazzo floors in public places. (Any 5 × 1) (5)

1.5
- The slope of the roof.
- The shape of the building.
- The direction of the flue in relation to the flue outlet.
- The position of the door and window openings.
- The proximity of the trees and/or other building. (Any 4 × 1) (4)

1.6 Putlog scaffold is scaffolding with only one row of standards✓ that cannot stand alone.✓ (2)

[22]

QUESTION 2

2.1
2.1.1 True
2.1.2 False
2.1.3 True
2.1.4 False
2.1.5 True
2.1.6 False

(6 × 1) (6)

2.2
- Always use the required PPE
- Use mask when cutting firebricks
- Wet the bricks to reduce the dust before cutting
- Handle firebricks in well ventilated area
- Dispose waste materials in authorised disposal sites only
- Use pressurised air for cleaning up the area (6)

2.3
- The running mould must be of the same shape, size and profile.
- The correct type of material must be used for manufacture.
- Must be durable to allow for a number of cast to be manufactured.
- Suitable for the position in which the moulding is to run.
- Running moulds should be easy to use and fit for purpose. (5)

2.4
- Prevents water penetration to the inside of the room.
- The stability of the walls is increased.
- Two different types of bricks can be used.
- The enclosed airspace acts as insulation. (4)

[21]

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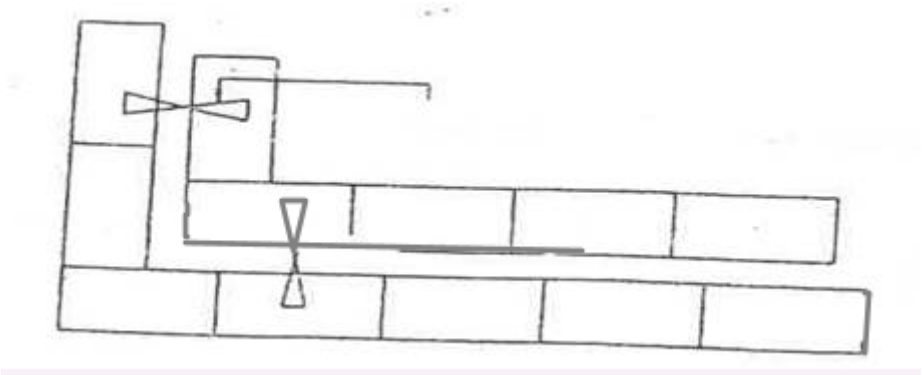
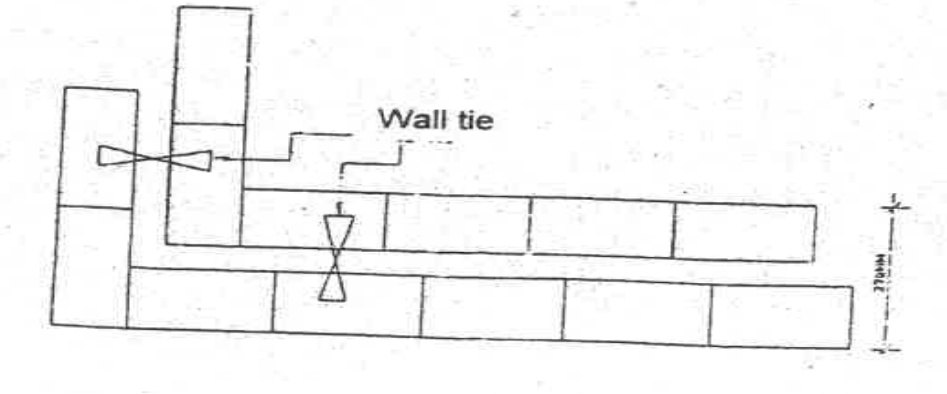
QUESTION 3

3.1



First course or second course



Alternate plan course of a corner in a 270 mm cavity-wall contraction in stretcher bond.
Scale1:10

Mark allocation for either drawing:

Line work	1 mark
Correctness for course and returns	3 marks
Title	1 mark
Neatness	1 mark
Scale shown	1 mark
Wall ties	1 mark
TOTAL:	**8 marks**

(8)

3.2 3.2.1 C
3.2.2 D
3.2.3 A
3.2.4 D
3.2.5 A
3.2.6 C

(6 × 1) (6)
[14]

QUESTION 4

4.1
- Soil testing must be conducted to determine the correct type of foundation.
- Use only SABS approved materials.
- Employ good workmanship.
- Pre and post monitoring and inspection should be observed.
- Approved drawings and specifications should be used.
- Formwork should be kept in position until concrete has gained its strength.
- Implementation of harsh penalties must be enforced for poor materials and workmanship. (Any 5 × 1) (5)

4.2 The ladder must be placed at a safe angle.✓ The user should face the ladder✓ and have at least one hand free✓ to maintain a firm grip. The body should be kept centred between the stiles to prevent falling backward.✓ Place the ball of the foot on the rungs.✓ Ensure that the shoes are non-slip✓ (Any 5 × 1) (5)

4.3 4.3.1 A pilaster is a rectangular pier,✓ sometimes fluted, projecting from the face of the wall.✓

4.3.2 A column is an upright round shaft✓ made from concrete, bricks or stone.✓

4.3.3 Entasis is the outward swelling in the shaft✓ of the column.✓ (3 × 2) (6)

4.4
- Diamond-mesh lathing
- Rib lathing
- Interior corner lathing
- Starter paper strips
- Asphalt backing (5)

[21]

QUESTION 5

5.1
- Clay pavers
- Concrete pavers (2)

5.2
- It is available in various colours
- It does not rust
- it does not crack or break easily
- It is UV-resistant
- It does not discolour
- It is light in weight
- It is relatively cheap (Any 5 × 1) (5)

5.3
- To break the repetition of vertical joints in consecutive courses.
- To ensure lateral stability.
- To provide resistance to side thrust.
- To strengthen the wall.
- To ensure that loads are distributed over the entire wall.
- For masonry units to interlock into a single structural unit (Any 6 × 1) (6)

[13]

QUESTION 6

- Timeframe of deliveries to be off-loaded.
- The availability of equipment.
- Is the concrete ready?
- Are artisans ready to start?
- Are all important safety signs visible?
- Is the setting out of the building in order?
- Approval of foundations.
- Weather situations.
- Awareness of delivery dates.
- Is the contractor aware of the target completion date?

(9)

[9]

TOTAL: 100

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