

higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE
APRIL EXAMINATION
BRICKLAYING AND PLASTERING THEORY N2

25 MARCH 2014

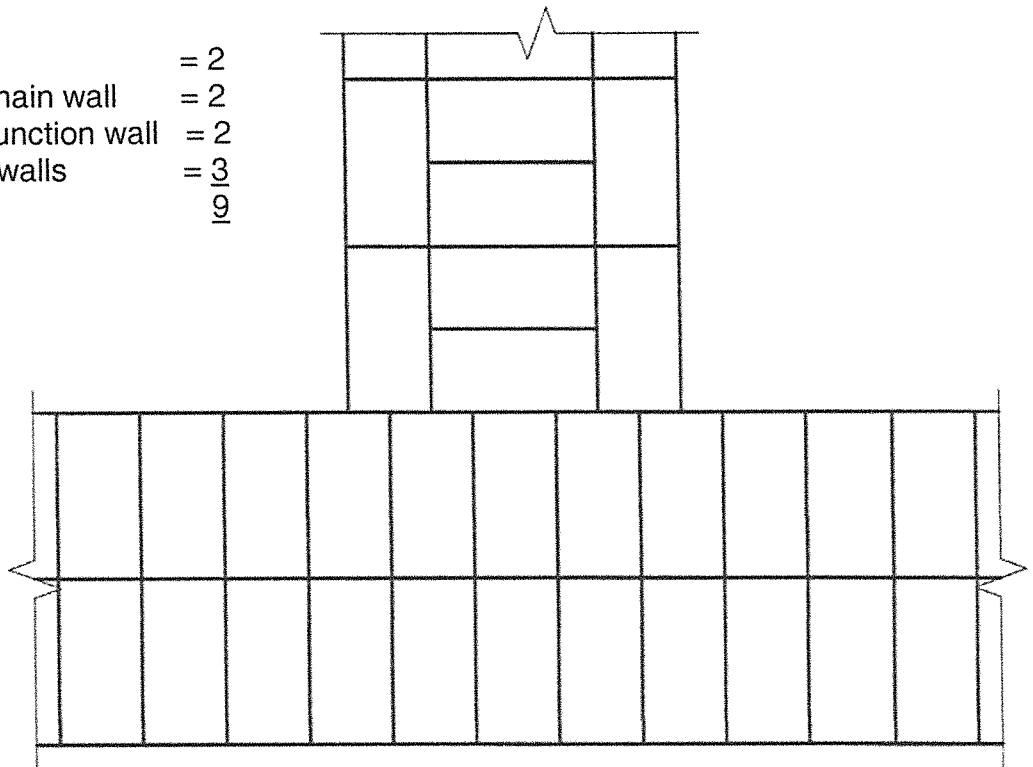
This marking guideline consists of 6 pages.

QUESTION 1

- 1.1
- Expanded metal lathing
 - Ribbed lathing
 - Welded wire mesh
 - Galvanised wire netting
- (4)
- 1.2
- Wood is cut into specified sizes and lengths.
The cut timber then passes through a shaving machine.
The long shaving thus produced is known as wood wool.
The wood wool is then bonded together with cement.
- (8 x 1) (8)
[12]

QUESTION 2

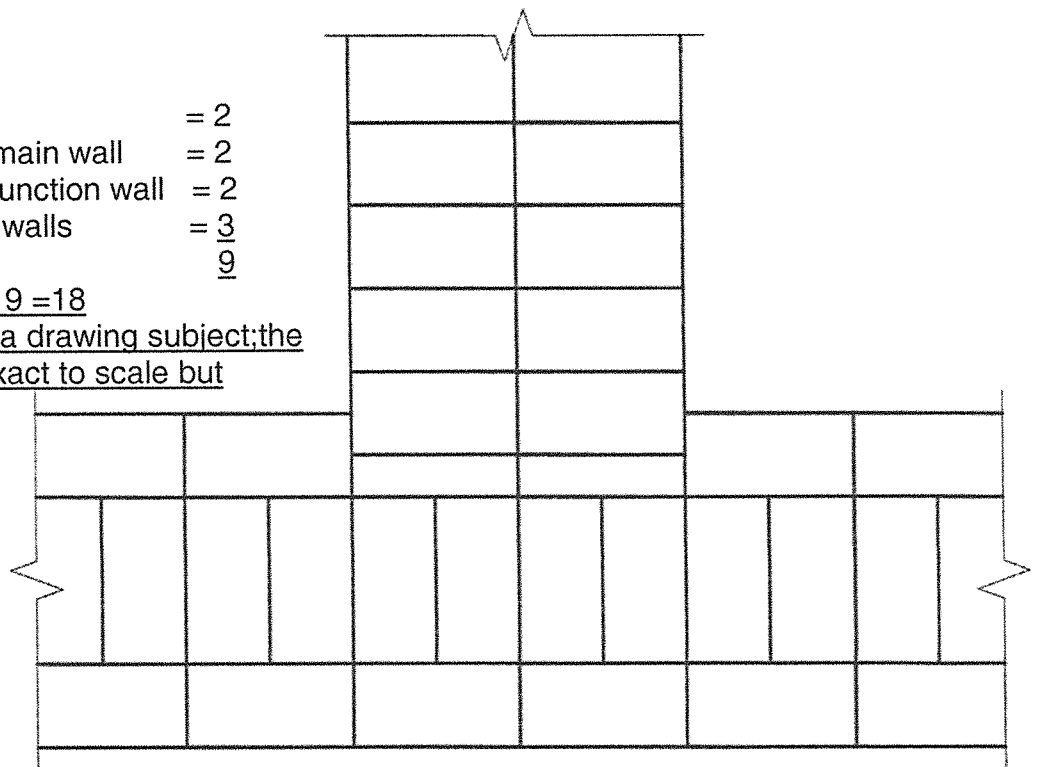
- Approximate scale = 2
- Correct bond to 2-brick main wall = 2
- Correct bond to 2-brick junction wall = 2
- Correct joining between walls = 3
- 9



- Approximate scale = 2
- Correct bond to 2-brick main wall = 2
- Correct bond to 2-brick junction wall = 2
- Correct joining between walls = 3
- 9

9 + 9 = 18

This is a theory and not a drawing subject; the drawings need not be exact to scale but approximate.



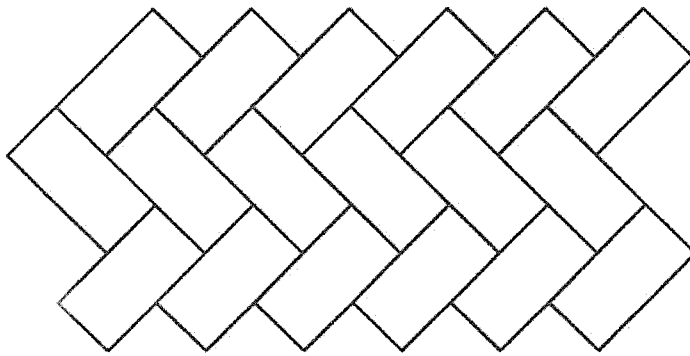
ALTERNATE PLAN COURSES OF A TWO-BRICK TEE JUNCTION IN ENGLISH BOND [18]

QUESTION 3

- 3.1
- It must be impervious to any moisture entering from the top.
 - It must contain the minimum amount of mortar joints.
 - It must have a slight fall on its surface.
 - It must have sufficient overhang to allow water to fall clear of the wall.
 - It must have a drip to allow water to fall clear of the wall.

(Any 4 x 2) (8)

3.2 3.2.1

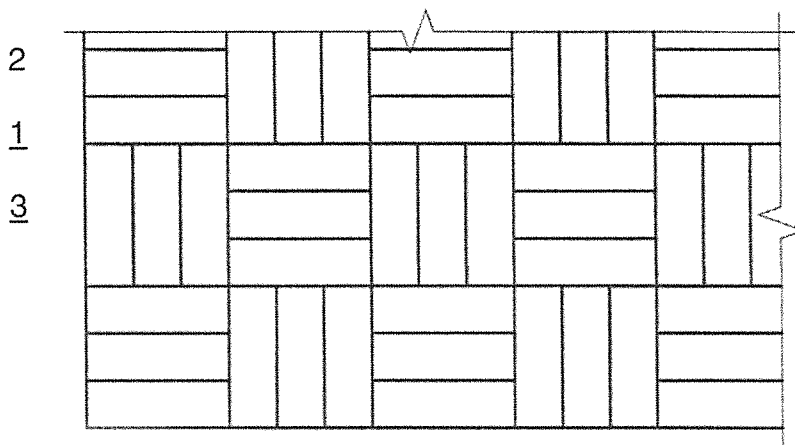


Correct pattern = 2
Neat layout = $\frac{1}{3}$

HERRINGBONE PATTERN

(3)

3.2.2

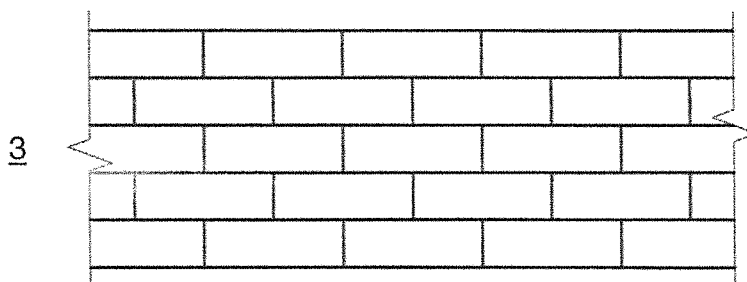


Correct pattern =
Neat layout =

BASKET WEAVE PATTERN

(3)

3.2.3



Correct pattern = 2
Neat layout = $\frac{1}{3}$

STRETCHER BOND PATTERN

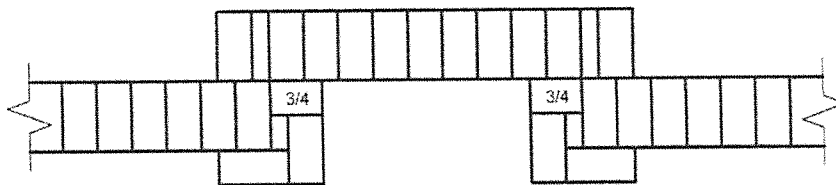
(3)

[17]

QUESTION 4

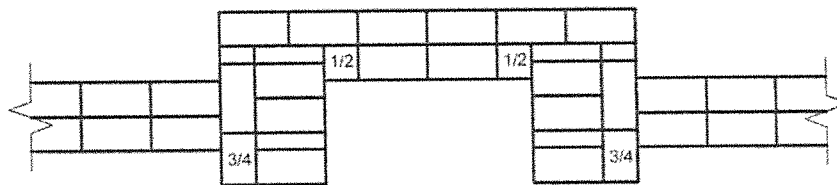
- 4.1
- Refractoriness, capable to withstand intense heat without fusion.
 - Resistance to attack from corrosive materials such as glass, metals, slag and salts
 - High strength at ordinary temperatures
 - Resistance to spalling
 - Ability to withstand abrasion
 - Thermal conductivity suitable for the conditions of use
 - Can withstand heavy duty cycles of heating and cooling without breaking
- (Any 6 x 2) (12)

4.2



Approximate scale	= 2
Correct bonding to external projection	= 3
Correct bonding to internal projection	= 3
Correct bonding to main wall	= 2
	10

Course 1 of alternate plan course of a single-breasted fireplace in English bond with internal and external projections.



Approximate scale	= 2
Correct bonding to external projection	= 3
Correct bonding to internal projection	= 3
Correct bonding to main wall	= 2
	10

Course 2 of alternate plan course of a single-breasted fireplace in English bond with internal and external projections.

(20)
[32]

QUESTION 5

- | | | | |
|-----|---|-------------|-------------|
| 5.1 | <ul style="list-style-type: none"> • <u>special treatment is required at door and window openings where inside and outside walls meet</u> • <u>sealing of cavity must occur at roof level which may increase labour costs</u> • <u>the weep holes left in the face of the wall will attract insects</u> • <u>insect nesting in a cavity can become a problem</u> • <u>internal dimensions of the rooms are reduced</u> • <u>slightly higher cost than a standard one brick wall</u> | (Any 4 x 2) | (8) |
| 5.2 | 5.2.1 G | | (1) |
| | 5.2.2 F | | (1) |
| | 5.2.3 E | | (1) |
| | 5.2.4 B | | (1) |
| | 5.2.5 C | | (1) |
| | 5.2.6 A | | (1) |
| | | | [14] |

QUESTION 6

- | | | |
|-----|------------|------------|
| 6.1 | Guardrail | (1) |
| 6.2 | Toe board | (1) |
| 6.3 | Standard | (1) |
| 6.4 | Base plate | (1) |
| 6.5 | Ledger | (1) |
| 6.6 | Soleplate | (1) |
| 6.7 | Transome | (1) |
| | | [7] |

TOTAL: 100