higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

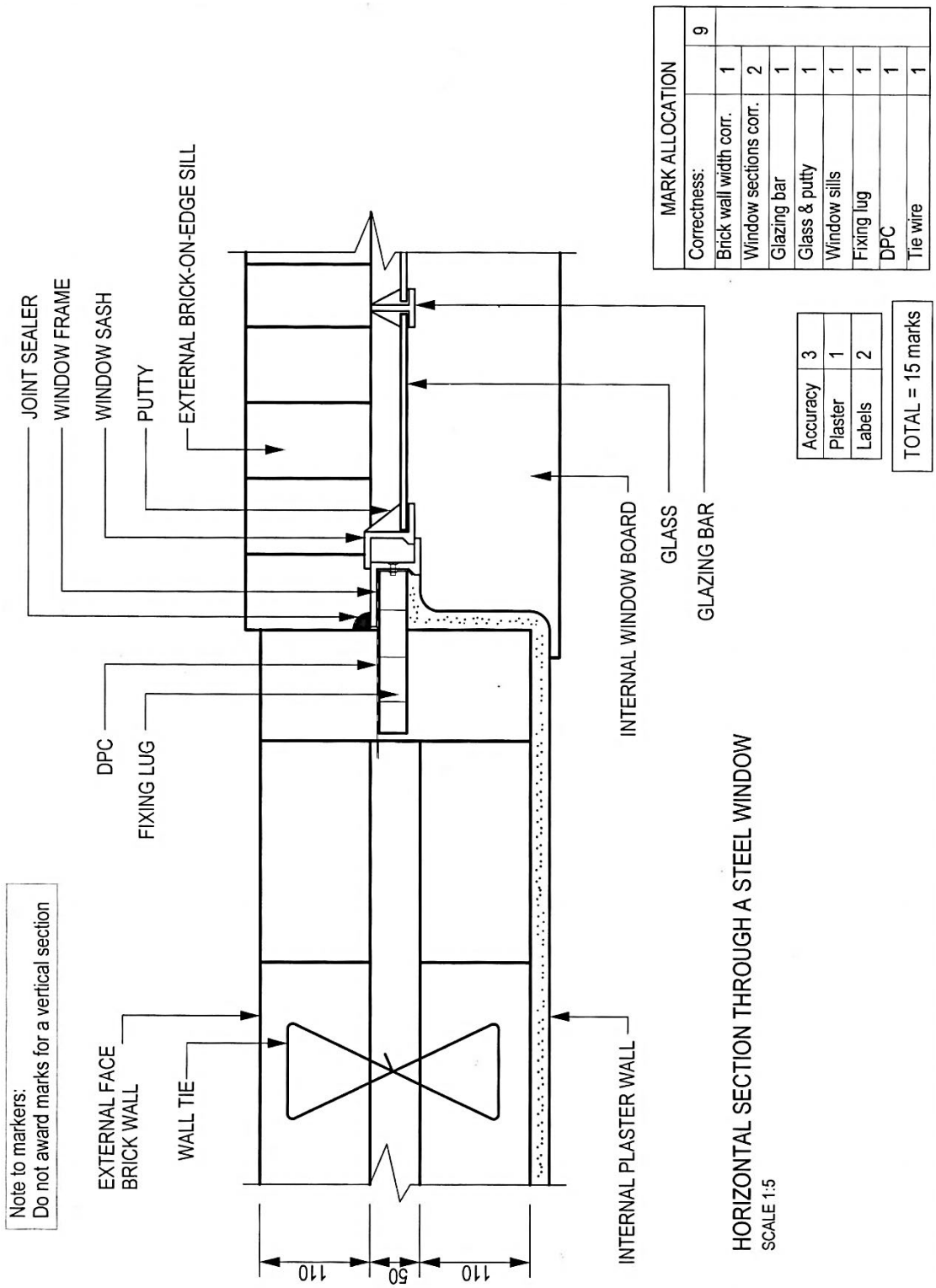
NATIONAL CERTIFICATE

BUILDING AND STRUCTURAL CONSTRUCTION N4

19 April 2021

This marking guideline consists of 9 pages.

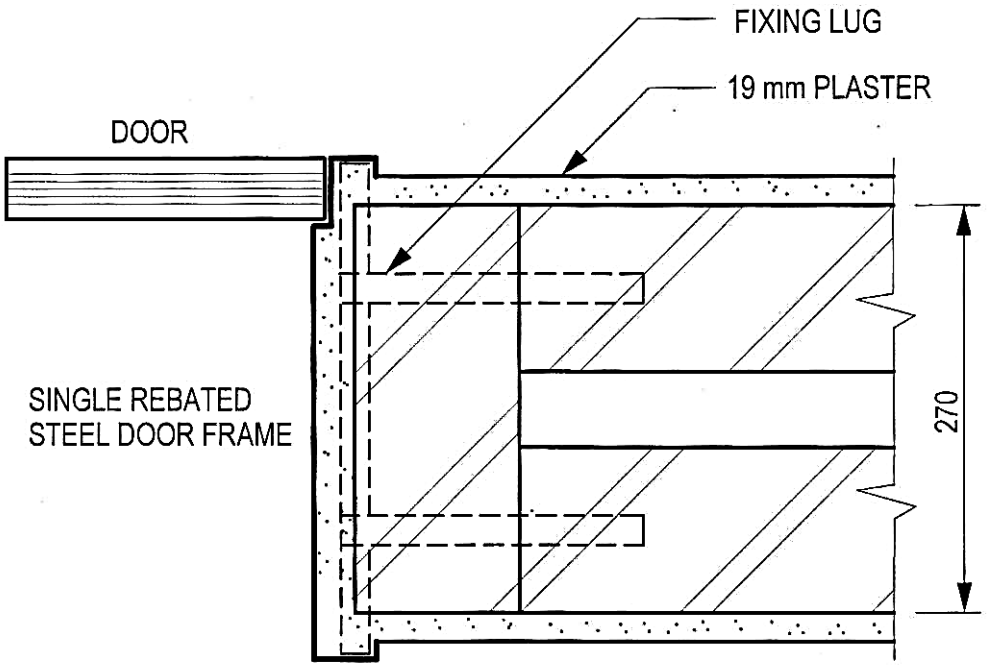
QUESTION 1



[15]

QUESTION 2

(A VERTICAL SECTION MUST NOT BE ACCEPTED)

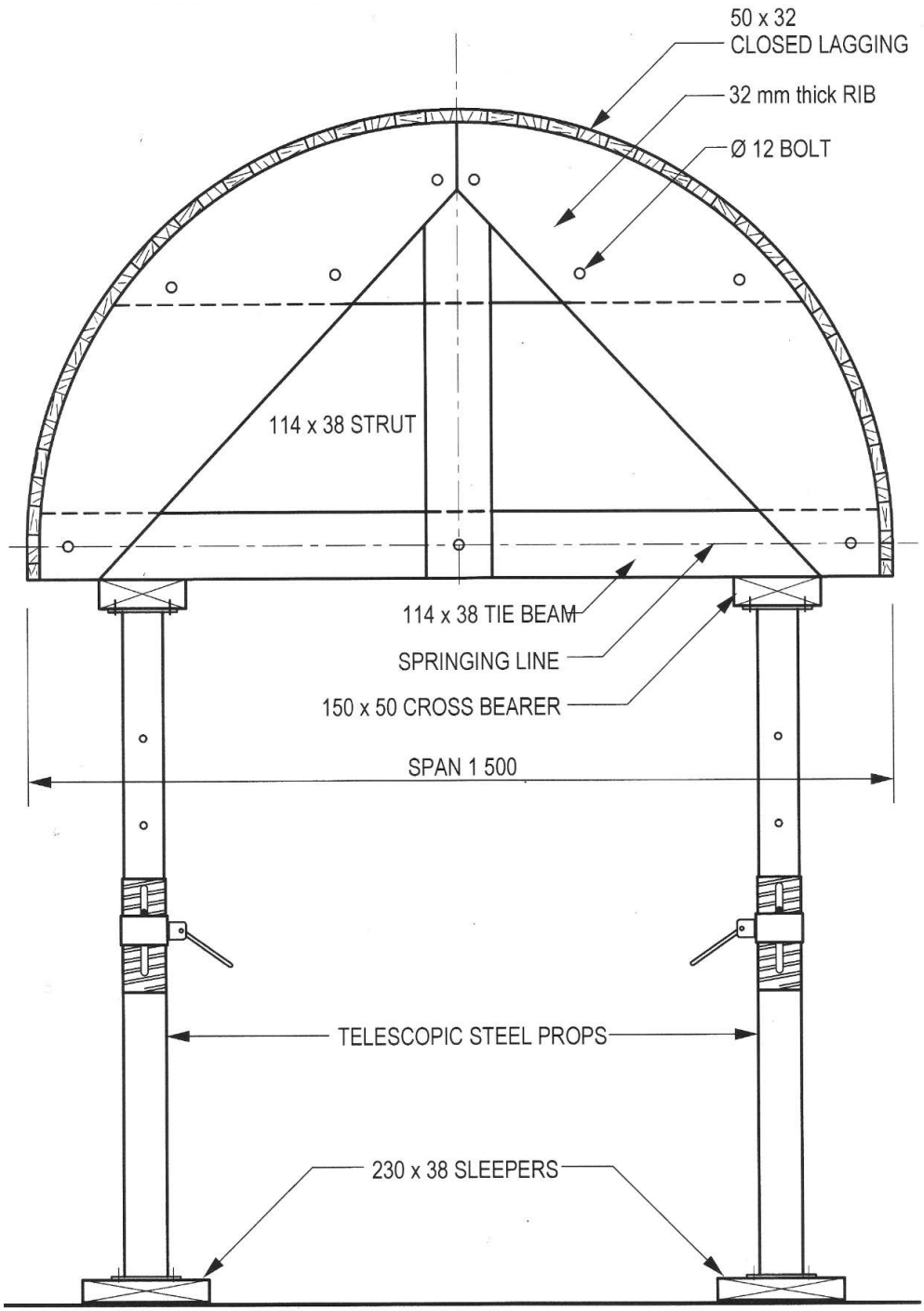


HORIZONTAL SECTION THROUGH A CAVITY WALL
WITH A STEEL DOOR FRAME SCALE 1:5

QUESTION 2		
MARK ALLOCATION		
Correctness:		6
Cavity wall corr	1	
Steel frame corr	3	
Door in Place	1	
Fixing lug	1	
Accuracy		2
Dimension		1
Labels		1
Total		10

[10]

QUESTION 3



CENTERING FOR A LIGHT SEMI-CIRCULAR ARCH
SCALE 1:10

MARK ALLOCATION		
Correctness:		10
Span corr	1	
Centering	3	
Lagging	1	
Steel Props	3	
Bearers	1	
Sleepers	1	

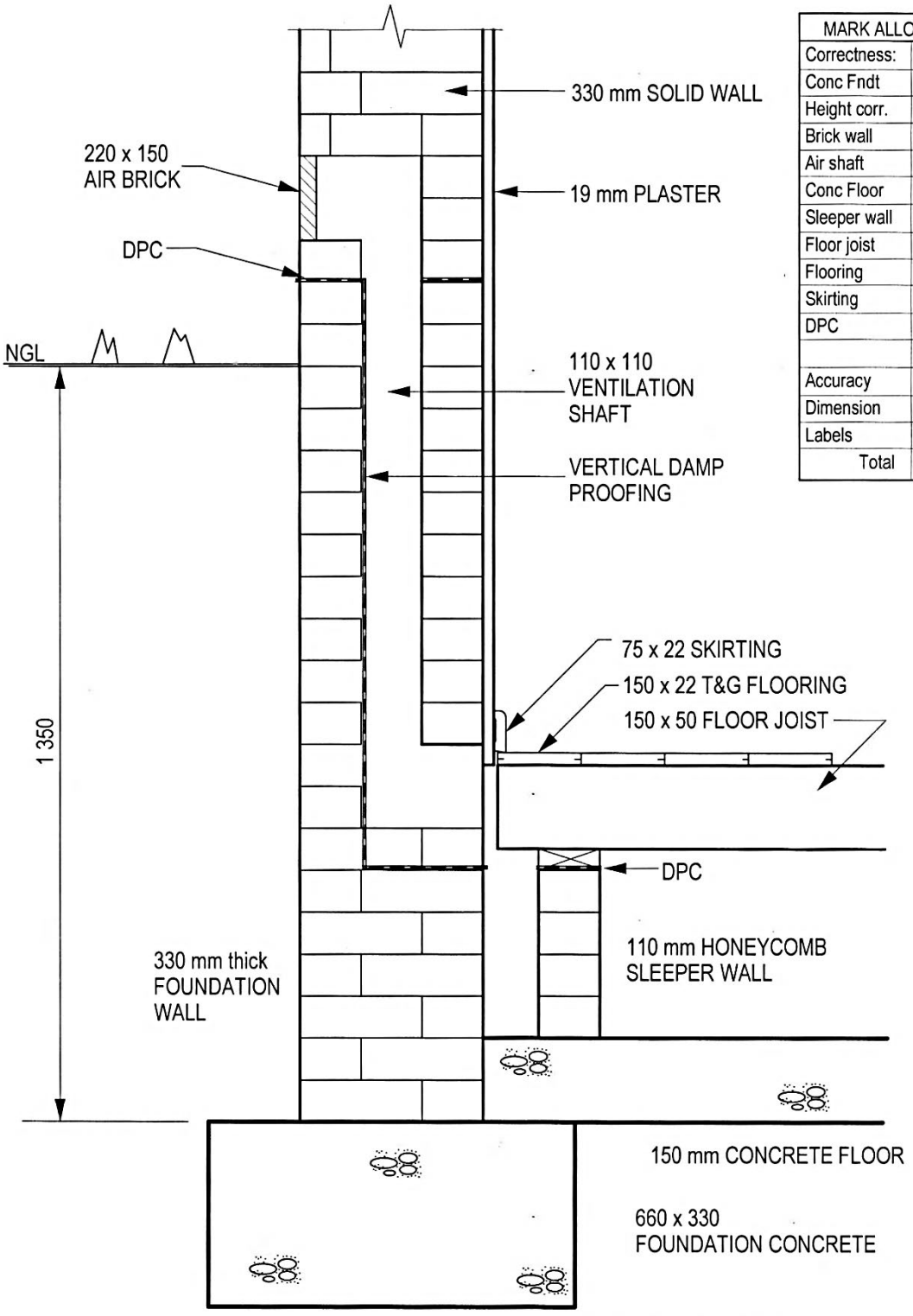
Accuracy	3
Labels	2

TOTAL = 15

[15]

QUESTION 4

4.1

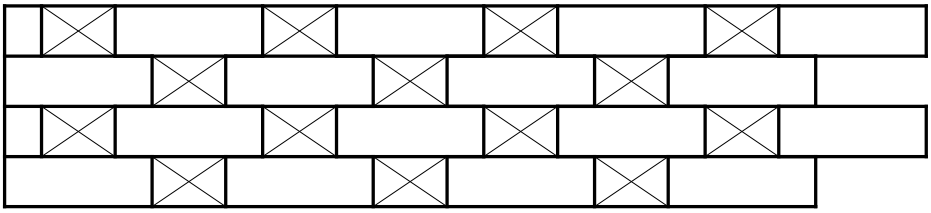


VERTICAL SECTION THROUGH AN EXTERNAL BASEMENT WALL
SCALE 1:10

MARK ALLOCATION		
Correctness:		13
Conc Fndt	1	
Height corr.	1	
Brick wall	2	
Air shaft	2	
Conc Floor	1	
Sleeper wall	1	
Floor joist	1	
Flooring	1	
Skirting	1	
DPC	2	
Accuracy		3
Dimension		1
Labels		3
Total		20

(20)

4.2 4.2.1





GAPS BETWEEN THE BRICKS
TO ALLOW FOR VENTILATION
BETWEEN THE FLOOR JOISTS

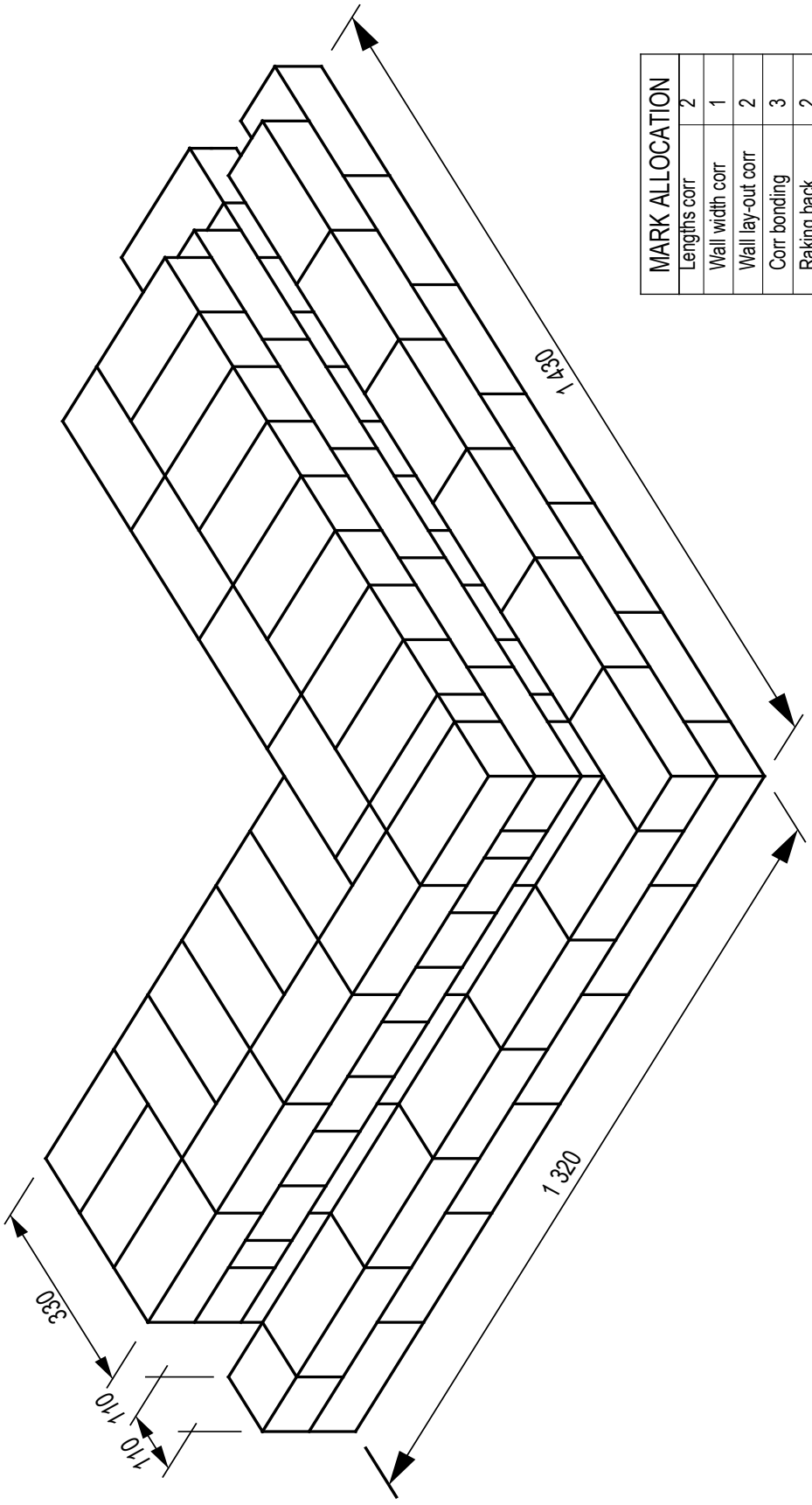
Mark Allocation	
Bricks laid corr	2
Gaps corr	1
Total	3

(3)

4.2.2 The ventilation shaft allows for the flow of air to circulate under the basement timber floor, thereby protecting the floor timber from dry rot. (2)

[25]

QUESTION 5

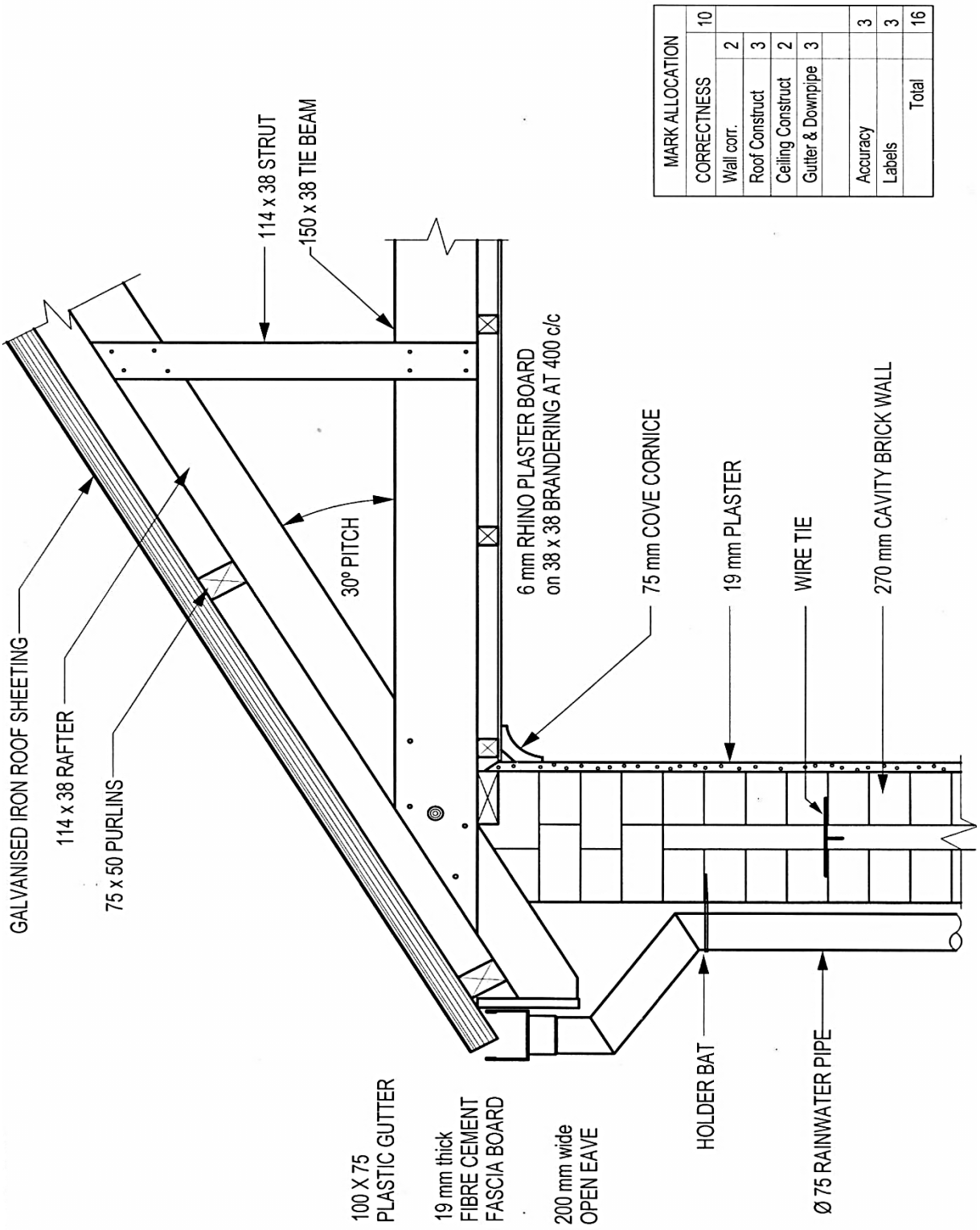


MARK ALLOCATION	
Lengths corr	2
Wall width corr	1
Wall lay-out corr	2
Corr bonding	3
Raking back	2
Stopped end	2
Accuracy	3
Total	15

[15]

QUESTION 6

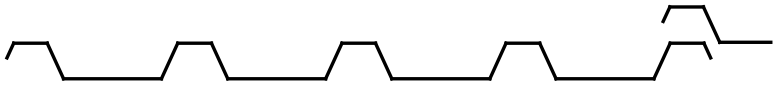
6.1



MARK ALLOCATION		
CORRECTNESS		10
Wall corr.	2	
Roof Construct	3	
Ceiling Construct	2	
Gutter & Downpipe	3	
Accuracy		3
Labels		3
Total		16

(16)

6.2 6.21



INVERTED BOX RIB (IBR) ROOF SHEET

6.2.2



BIG SIX FIBRE-CEMENT ROOF SHEET

MARK ALLOCATION	
Shape corr	1
Title cor	1
Total	2
2 x 2 = 4 Marks	

(2 × 2) (4)
[20]

TOTAL: 100

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