higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

# MARKING GUIDELINE

## NATIONAL CERTIFICATE (VOCATIONAL)

## ARCHITECTURAL GRAPHICS AND TECHNOLOGY

(First paper)

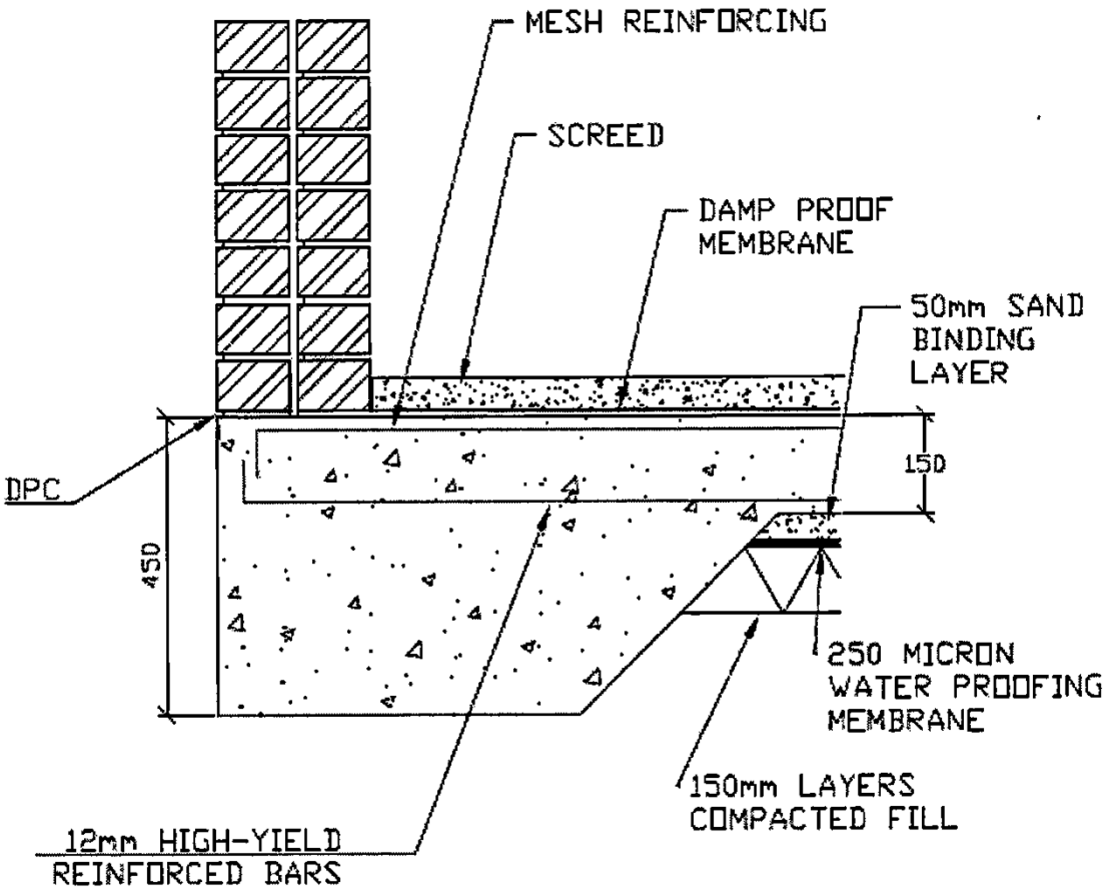
**NQF LEVEL 3**

**XX February 2020**

**This marking guideline consists of 16 pages.**

Copyright reserved

## QUESTION 1




**SECTION THROUGH WAFFLE RAFT FOUNDATION WITH EDGE THICKENING**
**SCALE 1:10**

| QUESTION 1 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Excavation, thickening with raft, reinforcement bars | Correctness | 4 | |
| | Dimensioning | 2 | Reinforced beam |
| | Labelling | 1 | |
| Load-bearing wall, DPC, screed with DPM and mesh reinforcing | Correctness | 4 | |
| | Hatching | 4 | Includes DPM and DPC lines |
| | Labelling | 4 | |
| Surface bed | Correctness | 3 | |
| | Hatching | 3 | Sand, DPM, compacted fill |
| | Labelling | 3 | |
| | **Subtotal:** | **28** | Overall correctness |
| | **Divide by** | **2,8** | |
| | **Correctness** | **10** | |
| | **Line work** | **5** | |
| | **Accuracy** | **3** | |
| | **Title and scale** | **2** | |
| | **Balanced layout and neatness** | **2** | |
| | **TOTAL:** | **22** | |

**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

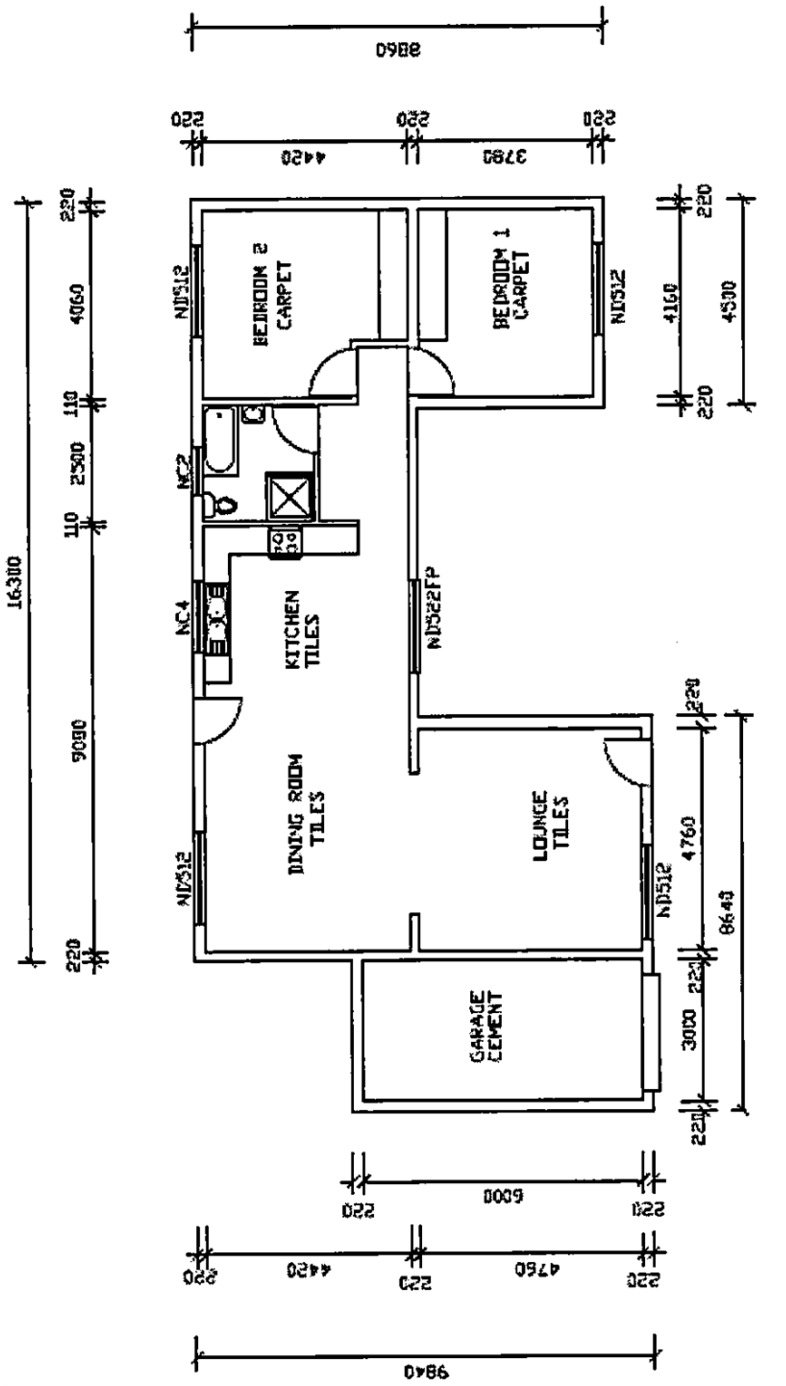
**SUMMARY QUESTION 1**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 11 | | | |
| Hatching | 7 | | | |
| Labels | 8 | | | |
| Dimensions | 2 | | | |
| **Subtotal:** | **28** | | | |
| **Divide by** | **2,8** | | | |
| **Correctness** | **10** | | | |
| **Line work** | **5** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **22** | | | |

**[22]**

Copyright reserved 

## QUESTION 2




**FLOOR PLAN**
**SCALE 1:100**

| QUESTION 2 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Floor plan layout, windows and doors | Correctness | 4 | |
| | Dimension | 9 | |
| | Labelling | 6 | Room titles |
| Windows, kitchen cupboards with sink, garage door indicator | Correctness | 6 | |
| | Labelling | 3 | Window codes |
| Bathroom layout | Correctness | 4 | |
| | Labelling | 3 | Symbols indicating bath, basin, WC, shower (optional) |
| | **Subtotal:** | **35** | Overall correctness |
| | **Divide by** | **2,9167** | |
| | **Correctness** | **12** | |
| | **Line work** | **6** | |
| | **Accuracy** | **3** | |
| | **Title and scale** | **2** | |
| | **Balanced layout and neatness** | **2** | |
| | **TOTAL:** | **25** | |

**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

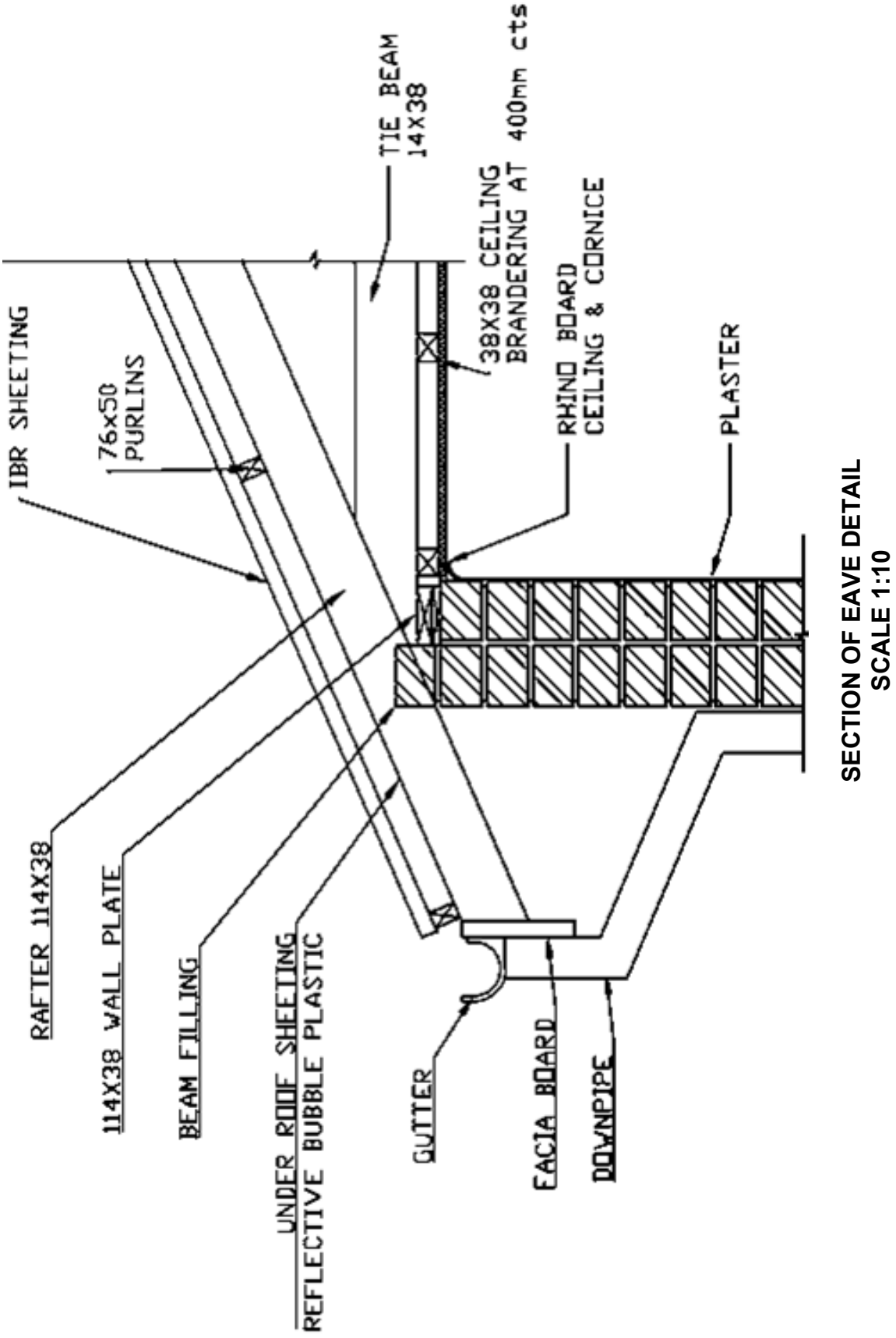
**SUMMARY QUESTION 2**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 14 | | | |
| Labels | 12 | | | |
| Dimensions | 9 | | | |
| **Subtotal:** | **35** | | | |
| **Divide by** | **2,9167** | | | |
| **Correctness** | **12** | | | |
| **Line work** | **6** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **25** | | | |

**[25]**

**QUESTION 3**

3.1




**SECTION OF EAVE DETAIL**
**SCALE 1:10**

| QUESTION 3.1 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Rafter and tie beam detail with pitch, purlin, brandering, wall plate | Correctness | 6 | 2 × brandering and purlin each |
| | Specifications | 5 | Rafter, tie beam, purlin, wall plate, pitch degree (sizes) |
| | Labelling | 4 | |
| Wall, plaster, beam filling | Correctness | 3 | Internal wall plaster only |
| | Hatching | 2 | |
| | Labelling | 2 | |
| Ceiling, insulation, cornice and roof cover with IBR sheeting | Correctness | 5 | |
| | Hatching | 2 | |
| | Labelling | 5 | |
| Gutter on fascia with downpipe | Correctness | 3 | |
| | Labelling | 3 | |
| | **Subtotal:** | **40** | Overall correctness |
| | **Divide by** | **4** | |
| **Correctness** | | **10** | |
| **Line work** | | **4** | |
| **Accuracy** | | **3** | |
| **Title and scale** | | **1** | |
| **Balanced layout and neatness** | | **2** | |
| **TOTAL:** | | **20** | |

**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

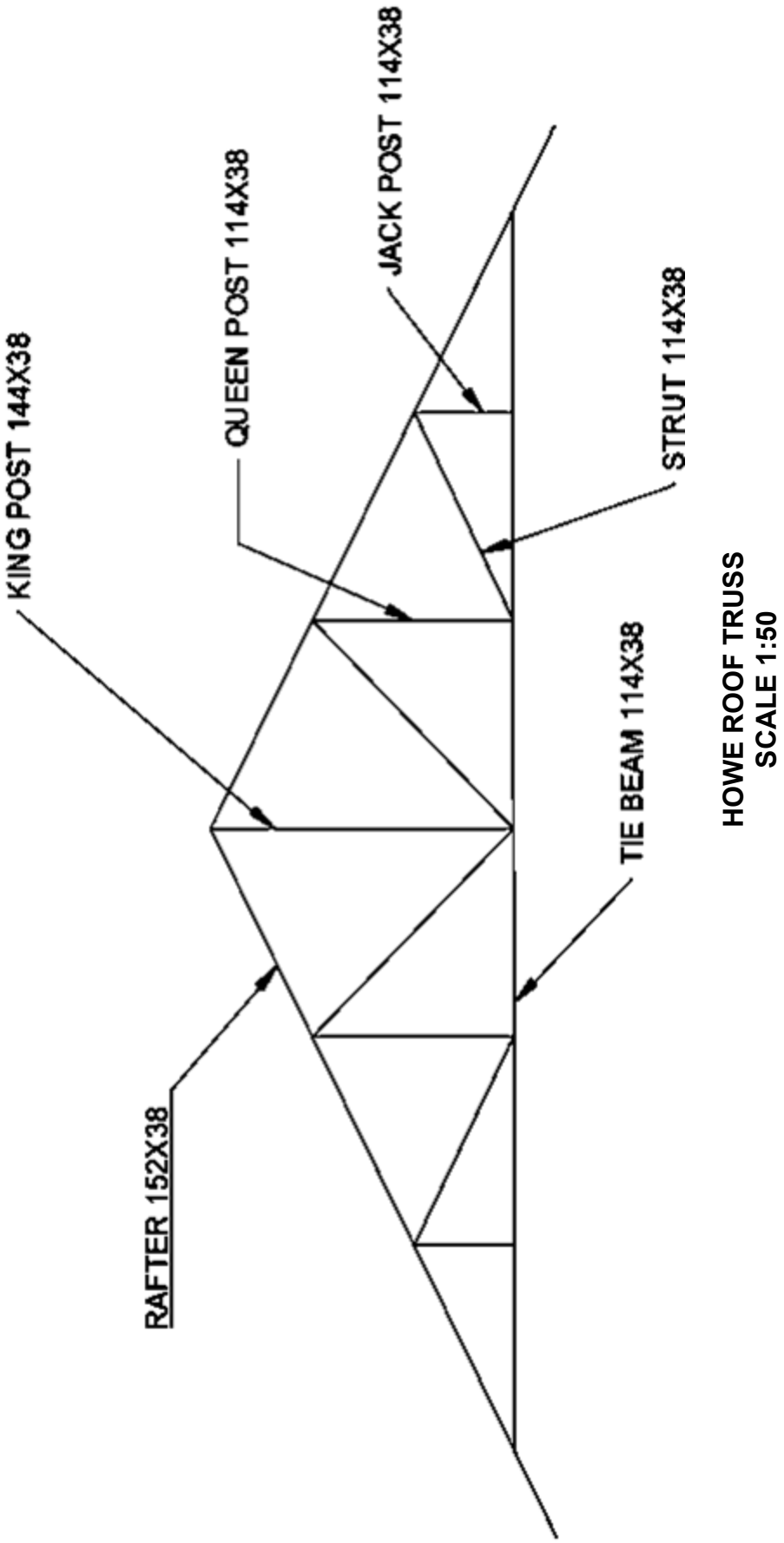
**SUMMARY QUESTION 3.1**

| **Marking criteria** | **Possible mark** | **Marker** | **Internal moderator** | **External moderator** |
|---|---|---|---|---|
| Correctness | 17 | | | |
| Hatching | 4 | | | |
| Labels | 14 | | | |
| Specifications | 5 | | | |
| **Subtotal:** | **40** | | | |
| **Divide by** | **4** | | | |
| **Correctness** | **10** | | | |
| **Line work** | **4** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **1** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **20** | | | |

(20)

Copyright reserved 

3.2


KING POST 144X38
QUEEN POST 114X38
JACK POST 114X38
STRUT 114X38
TIE BEAM 114X38
RAFTER 152X38
HOWE ROOF TRUSS
SCALE 1:50

| QUESTION 3.2 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Howe truss layout | Correctness | 3 | Three bays over 9 m, rafter, tie beam |
| | Labels | 5 | |
| Specifications | Correctness | 5 | Rafter, tie beam, different posts, strut |
| | Dimensions | 2 | |
| | **Subtotal:** | **15** | Overall correctness |
| | **Divide by** | **3,75** | |
| | **Correctness** | **4** | |
| | **Line work** | **2** | |
| | **Accuracy** | **1** | |
| | **Balanced layout and neatness** | **1** | |
| | **TOTAL:** | **8** | |

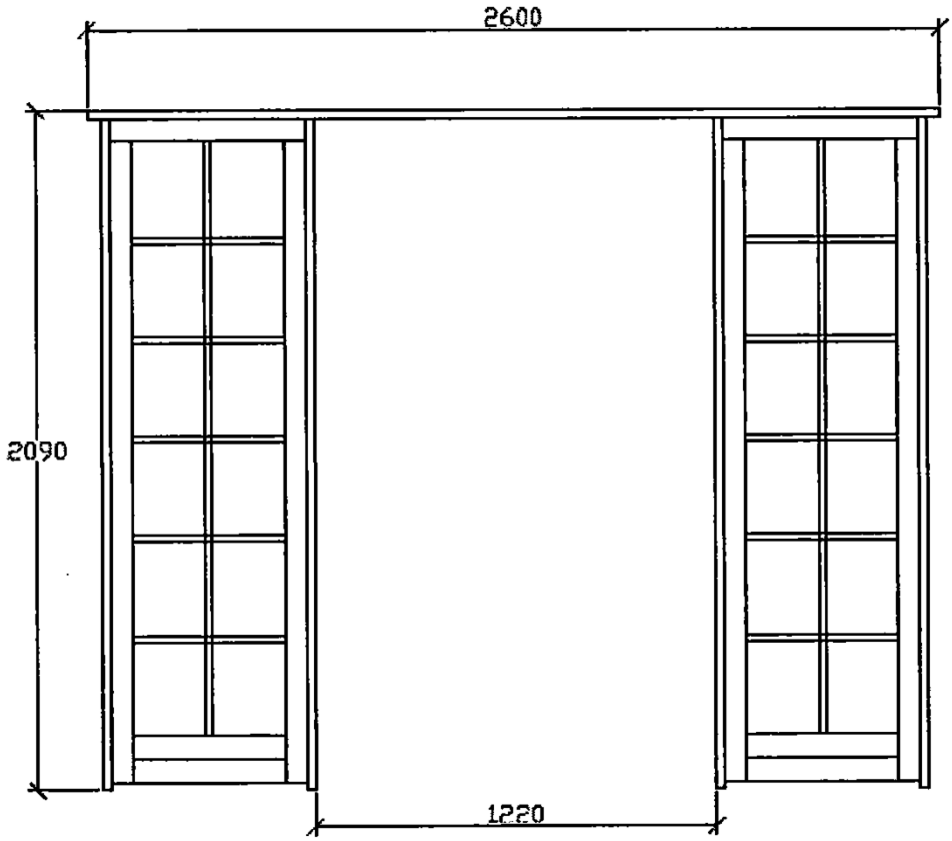
**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

**SUMMARY QUESTION 3.2**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 8 | | | |
| Dimension | 2 | | | |
| Labels | 5 | | | |
| **Subtotal:** | **15** | | | |
| **Divide by** | **3,75** | | | |
| **Correctness** | **4** | | | |
| **Line work** | **2** | | | |
| **Accuracy** | **1** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **8** | | | |

(8)
**[28]**

## QUESTION 4




**DOUBLE DOOR WITH SIDELIGHTS TIMBER FRAME**
**SCALE 1:10**

Copyright reserved 

| QUESTION 4 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Door layout | Correctness | 2 | |
| | Hatching | 2 | Small-pane windows |
| | Dimension | 3 | |
| Frame, bracing | Correctness | 4 | Side, top, bottom rails |
| | Configuration | 2 | Sidelights |
| | **Subtotal:** | **13** | Overall correctness |
| | **Divide by** | **2,6** | |
| | **Correctness** | **5** | |
| | **Line work** | **2** | |
| | **Accuracy** | **2** | |
| | **Balanced layout and neatness** | **1** | |
| | **TOTAL:** | **10** | |

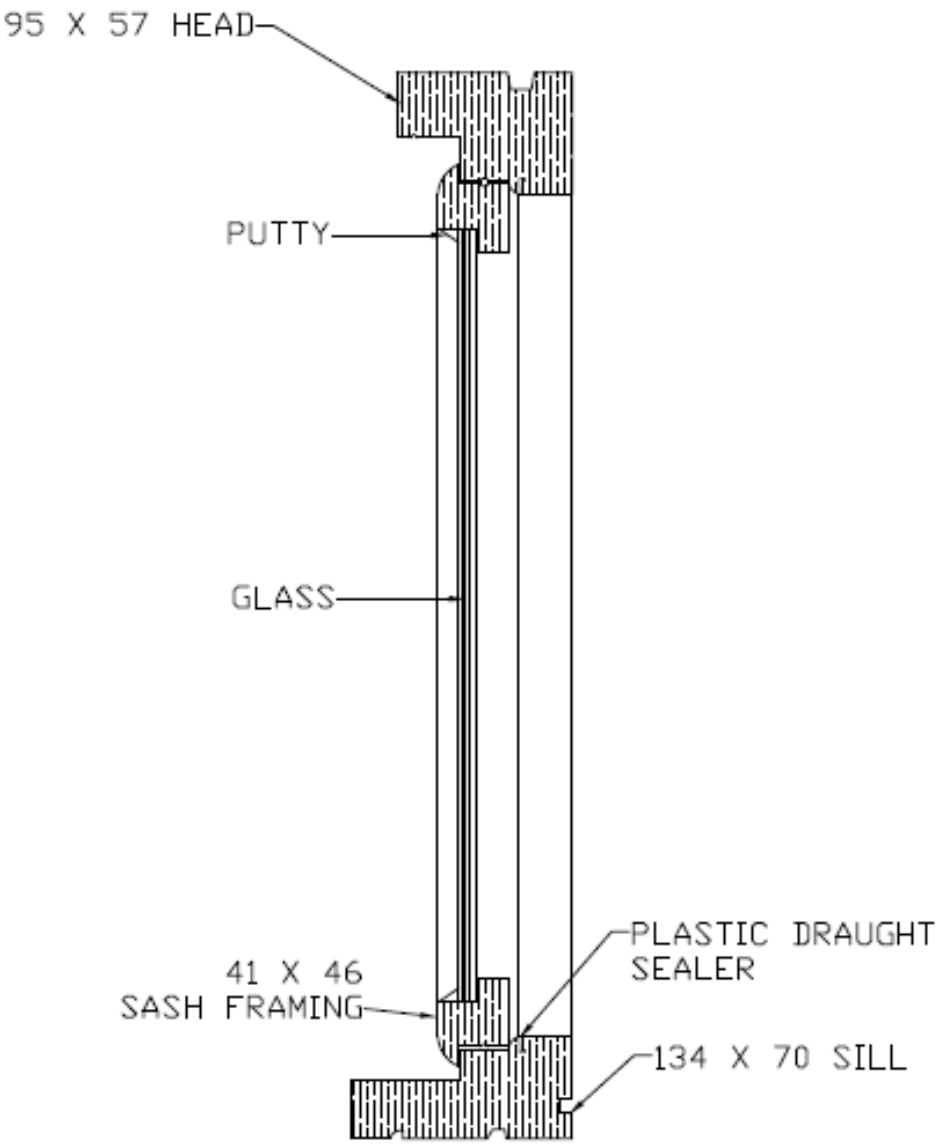
**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

**SUMMARY QUESTION 4**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 6 | | | |
| Dimension | 3 | | | |
| Hatching | 2 | | | |
| Configuration | 2 | | | |
| **Subtotal:** | **13** | | | |
| **Divide by** | **2,6** | | | |
| **Correctness** | **5** | | | |
| **Line work** | **2** | | | |
| **Accuracy** | **2** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **10** | | | |

**[10]**

**QUESTION 5**




**SECTION THROUGH MODIFIED BS WINDOW**

| QUESTION 5 RUBRIC | | | |
|---|---|---|---|
| **PART OF DRAWING** | **MARKING CRITERIA** | **POSSIBLE MARK** | **REMARKS** |
| Window layout | Correctness | 4 | |
| | Dimension | 3 | On specifications |
| | Hatching | 2 | |
| Sash framing with glass | Correctness | 3 | |
| | Labelling | 3 | |
| | Hatching | 1 | |
| Head and sill | Correctness | 2 | |
| | Hatching | 2 | |
| | Labelling | 2 | |
| | **Subtotal:** | **22** | Overall correctness |
| | **Divide by** | **3,6667** | |
| **Correctness** | | **6** | |
| **Line work** | | **4** | |
| **Accuracy** | | **2** | |
| **Title and scale** | | **2** | |
| **Balanced layout and neatness** | | **1** | |
| **TOTAL:** | | **15** | |

**NOTE:** NO marks should be allocated for any part of the drawing in the incorrect position other than the marks allocated for hatching of that component. Marks should be allocated for neatness, correct title and scale if the drawing is completely incorrect.

**SUMMARY QUESTION 5**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 9 | | | |
| Dimension | 3 | | | |
| Labels | 5 | | | |
| Hatching | 5 | | | |
| **Subtotal:** | **22** | | | |
| **Divide by** | **3,6667** | | | |
| **Correctness** | **6** | | | |
| **Line work** | **4** | | | |
| **Accuracy** | **2** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **15** | | | |

**[15]**

## CONSOLIDATED SUMMARY SHEETS FOR MARKING

### SUMMARY QUESTION 1

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 11 | | | |
| Hatching | 7 | | | |
| Labels | 8 | | | |
| Dimensions | 2 | | | |
| **Subtotal:** | **28** | | | |
| **Divide by** | **2,8** | | | |
| **Correctness** | **10** | | | |
| **Line work** | **5** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **22** | | | |

### SUMMARY QUESTION 2

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 14 | | | |
| Labels | 12 | | | |
| Dimensions | 9 | | | |
| **Subtotal:** | **35** | | | |
| **Divide by** | **2,9167** | | | |
| **Correctness** | **12** | | | |
| **Line work** | **6** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **25** | | | |

Copyright reserved 

**SUMMARY QUESTION 3.1**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 17 | | | |
| Hatching | 4 | | | |
| Labels | 14 | | | |
| Specifications | 5 | | | |
| **Subtotal:** | **40** | | | |
| **Divide by** | **4** | | | |
| **Correctness** | **10** | | | |
| **Line work** | **4** | | | |
| **Accuracy** | **3** | | | |
| **Title and scale** | **1** | | | |
| **Balanced layout and neatness** | **2** | | | |
| **TOTAL:** | **20** | | | |

**SUMMARY QUESTION 3.2**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 8 | | | |
| Dimension | 2 | | | |
| Labels | 5 | | | |
| **Subtotal:** | **15** | | | |
| **Divide by** | **3,75** | | | |
| **Correctness** | **4** | | | |
| **Line work** | **2** | | | |
| **Accuracy** | **1** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **8** | | | |

Copyright reserved 

**SUMMARY QUESTION 4**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 6 | | | |
| Dimension | 3 | | | |
| Hatching | 2 | | | |
| Configuration | 2 | | | |
| **Subtotal:** | **13** | | | |
| **Divide by** | **2,6** | | | |
| **Correctness** | **5** | | | |
| **Line work** | **2** | | | |
| **Accuracy** | **2** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **10** | | | |

**SUMMARY QUESTION 5**

| Marking criteria | Possible mark | Marker | Internal moderator | External moderator |
|---|---|---|---|---|
| Correctness | 9 | | | |
| Dimension | 3 | | | |
| Labels | 5 | | | |
| Hatching | 5 | | | |
| **Subtotal:** | **22** | | | |
| **Divide by** | **3,6667** | | | |
| **Correctness** | **6** | | | |
| **Line work** | **4** | | | |
| **Accuracy** | **2** | | | |
| **Title and scale** | **2** | | | |
| **Balanced layout and neatness** | **1** | | | |
| **TOTAL:** | **15** | | | |

**TOTAL: 100**

Copyright reserved