basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS/ NATIONAL SENIOR CERTIFICATE EXAMINATIONS

CIVIL TECHNOLOGY: WOODWORKING

MAY/JUNE 2026

MARKING GUIDELINES

MARKS: 200

These marking guidelines consist of 19 pages.

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INSTRUCTIONS FOR MARKERS

1. Markers should:

- Familiarise themselves with the question and answer before evaluating the responses of candidates.
- Always interpret the responses of the candidates within the context of the question.
- Consider any relevant and acceptable answer during pre-marking but should strictly adhere to the answers after finalisation of the marking guideline.
- There are TWO approaches to answering describe and explain type of questions.
    1. If a candidate is required to explain e.g., a process in a prescribed number of steps (e.g. 3 steps), only the first required number of responses should be considered.
    2. However, if for example candidate is required to explain or describe a process, we need to consider that candidates may write a long description, not necessarily well organised. In this case the marker needs to evaluate the complete statement to judge if the candidate explained the required outcome satisfactorily and allocate marks on merit.

  Answering short questions.
    1. Bullet Form Answers: When a candidate provides their answers in bulleted points, each bullet should be treated as a single answer. Award 1 mark for each complete bulleted response.
    2. Paragraph Form Answers: When a candidate provides answers in paragraph form, the response should be evaluated based on the accuracy and completeness of each fact presented. Award marks for each distinct fact or point made, ensuring that each fact is correctly articulated.
- Mark what the candidate wrote and do not interpret or predict responses.
- Indicate the tick or cross right at the position where the mark needs to be awarded or where the candidate made the error.
- Accept the letter corresponding with the correct answer as well as the answer written in full in multiple-choice questions or similar questions.
- Accept incorrect spelling in answers unless the spelling changes the meaning of the answer.
- If a learner writes two or more answers separated by a slash (/) mark only the first response, unless the additional answer/s are different names for the same item, e.g. Yale lock/Night latch. In this case, the answer for the response should be awarded and the slash (/) should NOT be considered as an additional answer.

2. For calculations:

- A mark is only awarded if the correct unit is written next to the answer. If the question states that the answer must be in a specific unit, a mark will be awarded even if the answer is indicated without the unit.
- Marks will only be allocated for the correct values if the candidates add instead of multiply. NO marks will be awarded for the calculations and the answer.

- Where an incorrect answer is correctly carried over, the marker must recalculate the values, using the incorrect answer from the first calculation. If correctly used, the candidate should receive the full marks for subsequent calculations.
- Alternative methods of calculations must be considered, provided that the correct answer is obtained.
- For the calculation of quantities marks will be awarded for the correct use of the dimension paper.

3. When marking drawings:

- The member for which the mark should be awarded should be drawn correctly in the correct position to receive a mark.
- A member incorrectly drawn but wrongfully repeated in another position will be awarded the mark for the repeated incorrect member provided that the marking guideline provides for TWO or more marks for that member (positive marking).
- Marks can only be awarded for a label if the label is correctly indicating the correct member. Do not consider labels for members of which the labels were provided on the answer sheet.
- Scale drawings should always be marked using an appropriate mask.
- If the incorrect/wrong drawing was drawn, the candidate can be awarded for only what was provided for on the marking guideline.
- If a line diagram or an orthographic view instead of a pictorial drawing (isometric/oblique/perspective) is drawn, the first assessment criteria for each member will be marked wrong, but marks will be awarded for the subsequent members if TWO or more marks are awarded for the same member.
- If candidates draw/give more information than what is required, mark strictly according to the assessment criteria. However, if the additional information alters or contradicts the correct response, the answer should be marked as incorrect.

4. Incorrect numbering of questions:

- If a candidate numbered incorrectly, but the answer is in the correct position according to the sequence of the questions in the question paper, circle the incorrect numbering and mark the response.
- If questions were answered randomly not following the same sequence as in the question paper and the learner numbered incorrectly, the response should NOT be marked.

5. Duplication of responses and questions answered in the correct place:

- If a question is answered twice, mark the first response.
- If a question should be answered on an answer sheet and the candidate answered it on both the answer sheet and in the answer book, mark the response on the answer sheet and cancel the response in the answer book.

QUESTION 1: OHSA, MATERIALS, TOOLS, EQUIPMENT AND JOINING (GENERIC)

1.1 1.1.1 twice a year ✓ (1)

1.1.2 3 m ✓ (1)

1.1.3 Guard rails ✓ (1)

1.1.4 after bad weather ✓ (1)

1.1.5 1,8 m ✓ (1)

1.1.6 using a conveyer belt ✓ (1)

1.1.7 once a week ✓ (1)

1.1.8 non-skid devices ✓ (1)

1.1.9 510 mm ✓ (1)

1.1.10 crank ✓ (1)

1.2 C ✓ (1)

1.3 Rawl bolts are purchased according to:
- Anchor name ✓
- Thread diameter/Thread size ✓
- Fixture thickness/Size
- Length

ANY TWO OF THE ABOVE (2)

1.4 1.4.1 Types of paint:
- Water based paint ✓
- Oil based paint ✓ (2)

1.4.2 Reasons for painting a ceiling:
- Protects the surfaces from moisture penetration ✓
- Protects the materials against decay ✓
- To preserve the material
- Aesthetic/Decorative purposes

ANY TWO OF THE ABOVE (2)

1.5 Consequence of not setting a laser level up properly:
- The laser level can be knocked over ✓
- Accuracy can be impaired
- Readings will be inaccurate

ANY ONE OF THE ABOVE (1)

1.6 The laser level must be calibrated. ✓ (1)

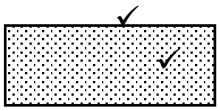
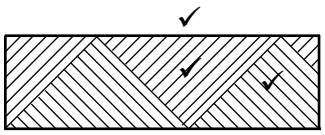
1.7
- Place the telescope in its case after use. ✓
- Ensure the lenses are free from dust/Clean the lenses

ANY ONE OF THE ABOVE (1)

[20]

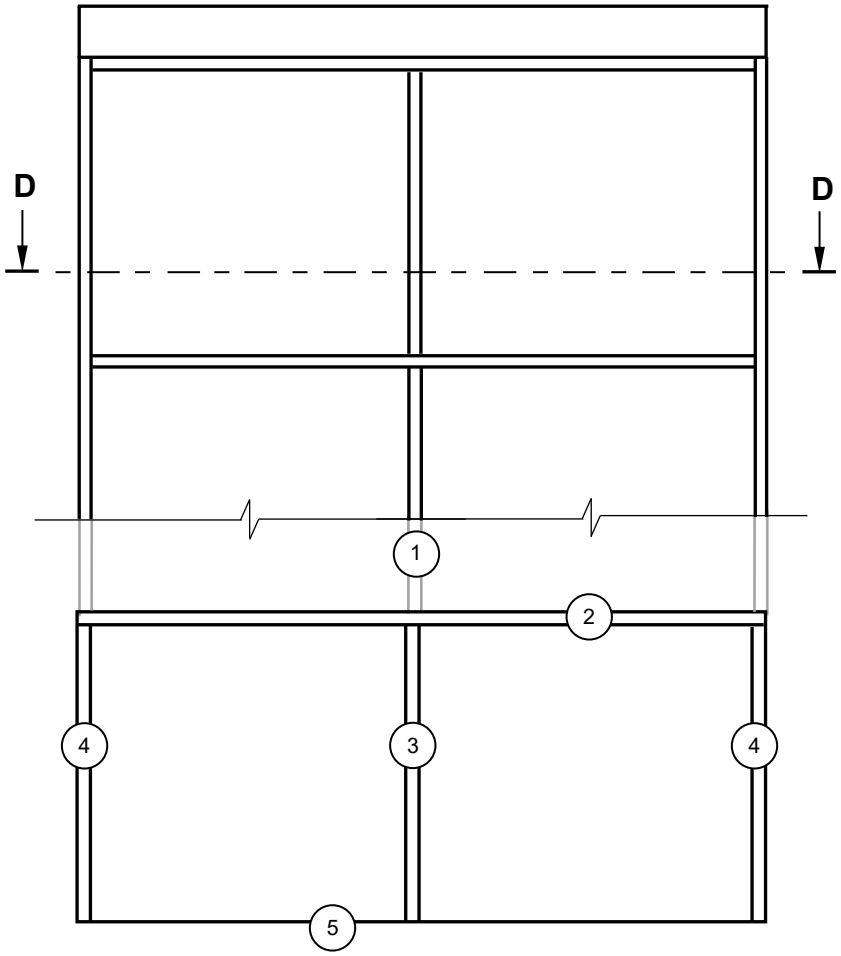
QUESTION 2: GRAPHICS AS MEANS OF COMMUNICATION (GENERIC)

NO.	QUESTIONS	ANSWERS	MARKS
1.	What elevation is indicated in FIGURE **A**?	South elevation/South/S ✓	1
2.	Identify number **1**.	Ridge/Ridge capping ✓	1
3.	Identify number **2**.	Barge board ✓	1
4.	Identify number **3**.	Fascia board ✓	1
5.	What does the abbreviation FFL in FIGURE **A** represent?	Finished floor level ✓	1
6.	Write down the abbreviation for number **5**.	NGL ✓	1
7.	Identify number **6**.	Step ✓	1
8.	Identify number **7** and indicate the total number of this fixture that is installed in the building.	• Garage door/Roll-up door/Tip-up door ✓ • 3/Three ✓	2
9.	What is the distance between the wall and the end of the roof as indicated by number **8** called?	Overhang ✓	1
10.	Explain the purpose of number **9**.	To cover the dwelling/To protect the building against rain and elements of nature ✓	1
11.	How many one-way double-pole switches are in the dwelling?	1/One ✓	1
12.	How many water closets are installed in the building?	2/Two ✓	1
13.	Name TWO electrical installations that are omitted at number **10**.	• Lights ✓ • Switches ✓ • Electrical wiring **ANY TWO OF THE ABOVE**	2
14.	Identify number **11**.	Sink unit – single/Sink ✓	1
15.	Deduce, from the notes column, the type of roof illustrated in FIGURE **A**.	Gable roof ✓	1

16.	Deduce, from the notes column, what must be installed below each window.	Fibre-cement window sills ✓	1
17.	What type of material should number **4** be manufactured of?	Aluminium ✓	1
18.	Deduce, from the notes column, the dimensions of window **1**.	1 800 ✓ x 1 200 ✓/ 1 800 mm x 1 200 mm **OR** 1,8 m x 1,2 m	2
19.	On which plot will the new dwelling be erected?	Plot 27✓	1
20.	Draw the symbol for plaster.		2
21.	Draw the symbol for earth fill.		3
22.	Calculate the floor area of the bathrooms that needs to be tiled. Give your answer in square metres and show ALL calculations.	= 2 ✓ m x 1,5 ✓ m = 3 ✓ m² = 3 m² x 2 ✓ = 6 ✓ m² **OR** = 2 m x 3 m = 6 m² **OR** = 2 000 x 1 500 = 3 000 000 x 2 = 6 000 000 = 6 m²	5
23.	Calculate the total length of the wall on the western side of the building. Give your answer in metres and show ALL calculations.	= 220 ✓ + 5 000 ✓ + 110 ✓ + 1 500 ✓ + 110 ✓+ 1 500 ✓ + 220 ✓ mm = 8,66 ✓ m	8
		TOTAL:	**40**

QUESTION 3: CUPBOARDS, CASEMENTS, WALL-PANELLING AND QUANTITIES (SPECIFIC)

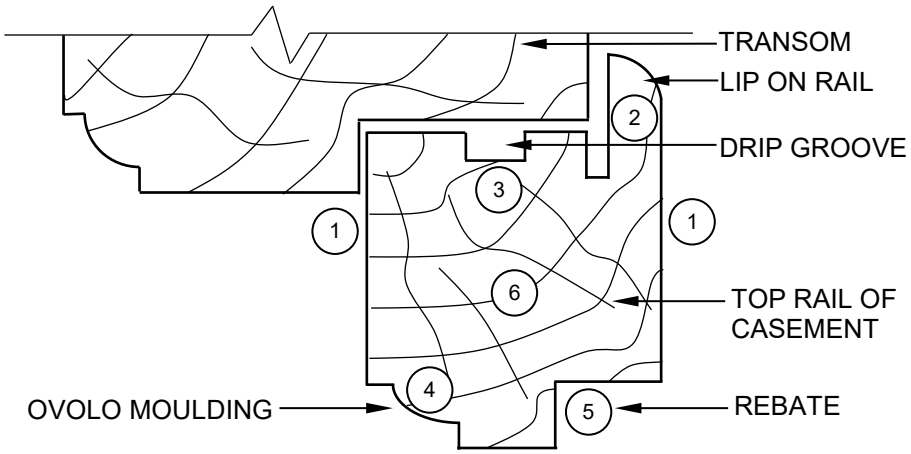
3.1



NO.	ASSESSMENT CRITERIA	MARK
1	Projection (evidence)	1
2	Backing	1
3	Intermediate side	1
4	Sides	2
5	Front	1
	TOTAL:	**6**

(6)

3.2



NO.	ASSESSMENT CRITERIA	MARK
1	Vertical sides of rail	2
2	Lip on rail	1
3	Drip groove	1
4	Ovolo moulding	1
5	Rebate	1
6	Hatching	1
	TOTAL:	**7**

(7)

3.3.1

A	B	C	D
			Number of ridge cappings needed:
			$= \frac{\text{Width of roof}}{\text{Length of ridge capping}}$
			$= \frac{10,4}{1,5}$ ✓ ✓
			= 6,9 ✓
			= 7 lengths of ridge cappings needed ✓

(4)

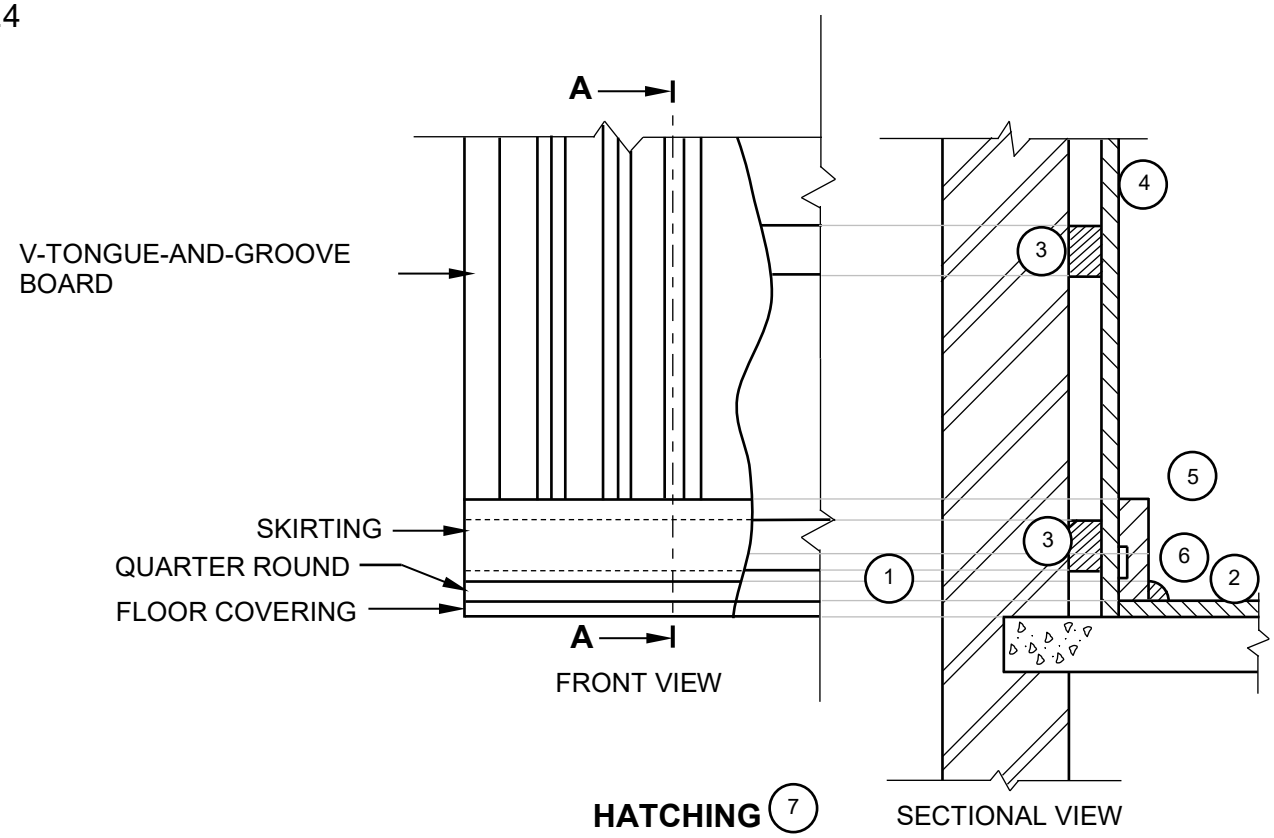
3.3.2

A	B	C	D
			Area of roof covering needed:
			Length of one corrugated iron sheet = 3 600 mm
			Total length of roof including overhang
			= 10 400 mm
2/ ✓	10,4 ✓		
	3,6 ✓	74,88 m² ✓	74,88 m² of roof covering needed.
			Correct use of dimension paper ✓

(4)

(1)

3.4



NO.	ASSESSMENT CRITERIA	MARK
1	Projection (evidence)	1
2	Floor covering	1
3	Horizontal rough grounds	2
4	V-tongue-and-groove board	1
5	Skirting	1
6	Quadrant mould	1
7	Hatching (any ONE part)	1
	TOTAL:	**8**

(8)
[30]

QUESTION 4: ROOFS, CEILINGS, TOOLS, EQUIPMENT AND MATERIALS (SPECIFIC)

4.1	4.1.1	C ✓	(1)
	4.1.2	B ✓	(1)
	4.1.3	C ✓	(1)
	4.1.4	C ✓	(1)
	4.1.5	D ✓	(1)
	4.1.6	A ✓	(1)
4.2	4.2.1	A – Combination belt and disc sander ✓ B – Drill press ✓	(2)
	4.2.2	A drill press is mounted on the ground: • To prevent tipping ✓ • Reduce the vibration ✓ • Eases handling of machine **ANY TWO OF THE ABOVE**	(2)
	4.2.3	Forcing wood against abrasive material: • Will cause overheating. ✓ • It can leave burn marks on the wood. ✓ • The sanding belt/disc can be damaged. • It can put strain on the machine. • The belt can derail • Operator can be injured **ANY TWO OF THE ABOVE**	(2)
	4.2.4	To protect your eyes. ✓	(1)
4.3	4.3.1	Mechanical grading ✓	(1)
	4.3.2	Advantages of mechanical grading: • It is a fast process ✓ • It is more effective than visual grading ✓ • It is more accurate than visual grading • It provides a reliable and consistent method of grading timber **ANY TWO OF THE ABOVE**	(2)

4.3.3 Factors to consider when selecting timber for skirtings:
- The type of timber ✓
- The grade of timber ✓
- The funds that are available
- The height of skirting needed
- Whether the skirting should have a groove at the back
- Type of finish to be applied

ANY TWO OF THE ABOVE (2)

4.3.4 Lacquer finishes are easier to apply than varnish. ✓ (1)

4.4 4.4.1 A – Beam filling ✓
B – Gutter/Square gutter ✓
C – Downpipe/Rainwater downpipe/RWP ✓ (3)

4.4.2 Disadvantages of open eaves:
- Roof timber is visible ✓
- Roof overhang appears unfinished ✓
- Birds nest under the open eaves
- Beam filling is compulsory to prevent birds/vermin/wind and dust from entering the roof space.

ANY TWO OF THE ABOVE (2)

4.5 4.5.1 Aluminium ✓ (1)

4.5.2 inside ✓ (1)

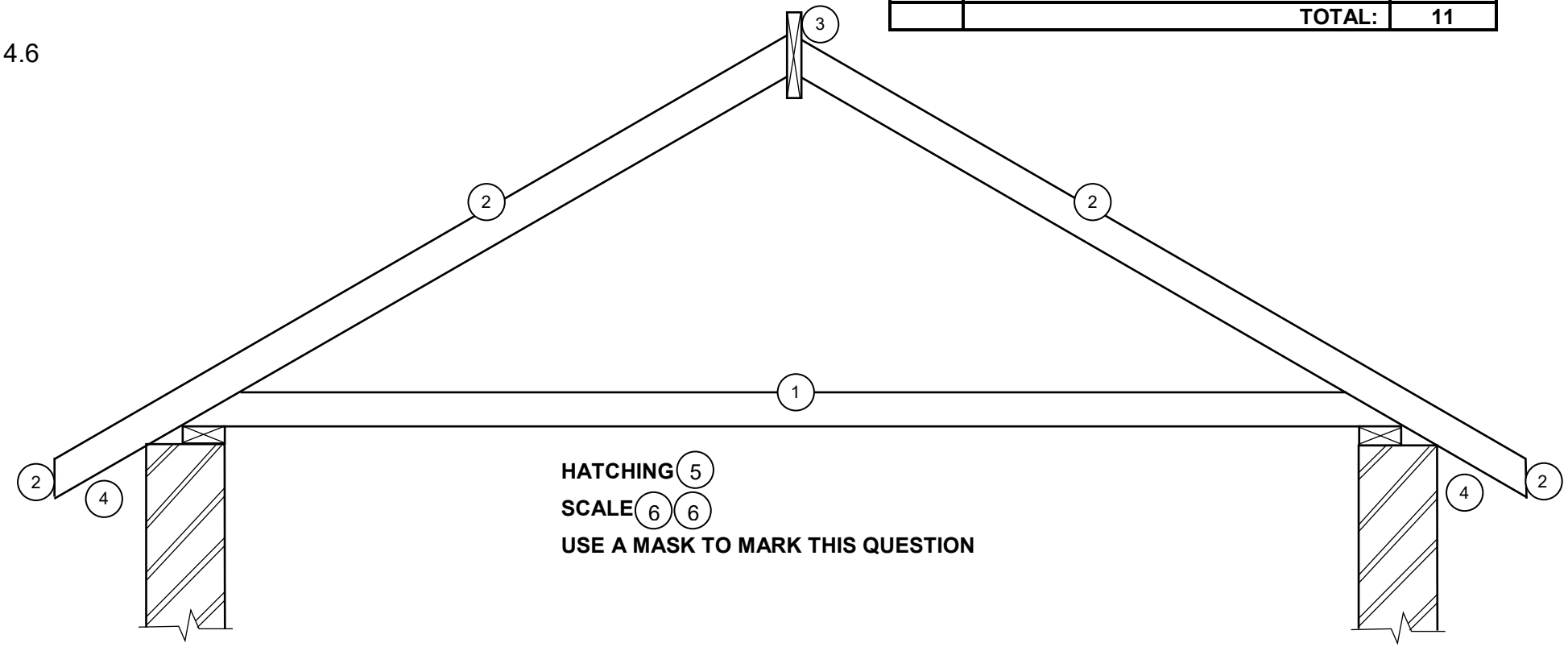
4.5.3 Brandering ✓ (1)

4.5.4 Metal T-strip/T-strip ✓ (1)

4.5.5 panel/door ✓ (1)

NO.	ASSESSMENT CRITERIA	MARK
1	Tie beam	1
2	Rafters	4
3	Ridge beam	1
4	Overhang	2
5	Hatching (ridge beam)	1
6	Application of scale: ALL correct = 2 ONE or TWO incorrect = 1 THREE or more incorrect = 0	2
	TOTAL:	**11**

4.6



HATCHING (5)

SCALE (6) (6)

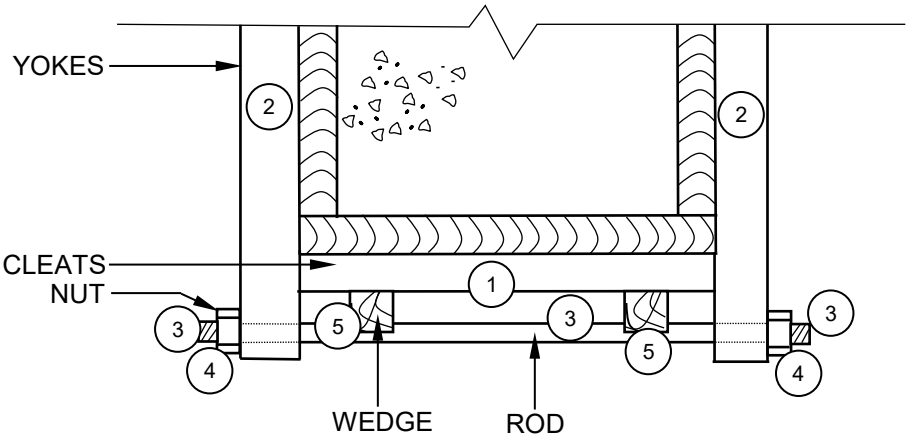
USE A MASK TO MARK THIS QUESTION

(11)
[40]

QUESTION 5: CENTERING, FORMWORK, SHORING AND GRAPHICS AS MEANS OF COMMUNICATION (SPECIFIC)

5.1	5.1.1	B – Dead shore ✓ C – Brace ✓	(2)
	5.1.2	Needles are used to support the weight of the wall/Floor/Roof. ✓	(1)
	5.1.3	Steel dogs ✓	(1)
5.2	5.2.1	Framed lean-to roof truss/Lean-to roof truss/Mono pitch roof truss ✓	(1)
	5.2.2	6 m ✓	(1)
5.3		The pressure of the concrete is higher at the bottom ✓ and needs more support. ✓	(2)
5.4	5.4.1	Releasing oil ✓	(1)
	5.4.2	Soleplate ✓	(1)
	5.4.3	Folding wedges ✓	(1)
	5.4.4	Formwork ✓	(1)
	5.4.5	Fishplate ✓	(1)

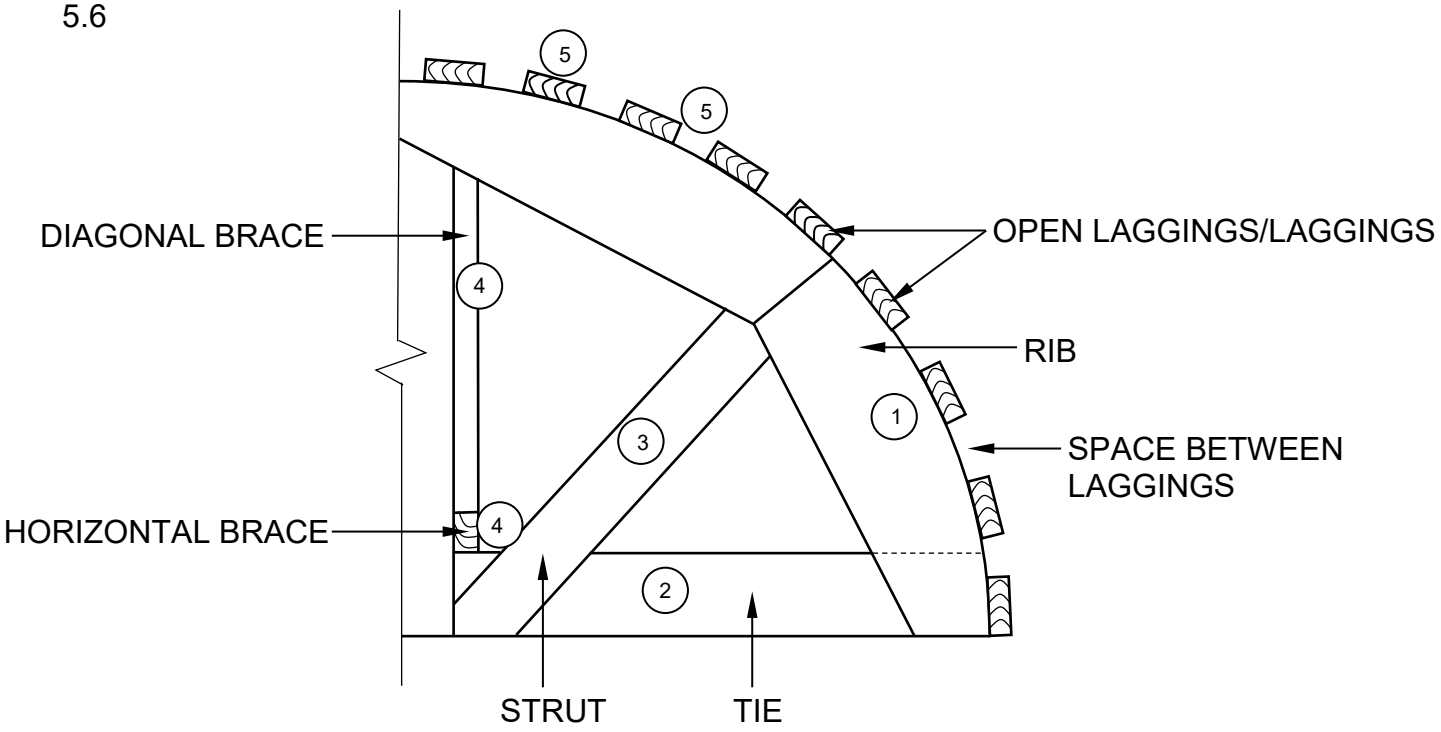
5.5



NO.	ASSESSMENT CRITERIA	MARK
1	Cleat/Clamp	1
2	Yokes	2
3	Rod (middle with threaded ends)	3
4	Nuts	2
5	Wedges	2
	TOTAL:	**10**

(10)

5.6



NO.	ASSESSMENT CRITERIA	MARK
1	Rib	1
2	Tie	1
3	Strut	1
4	Braces (Horizontal and Diagonal)	2
5	Open laggings (any TWO with space between)	2
	TOTAL:	**7**

(7)
[30]

QUESTION 6: SUSPENDED FLOORS, STAIRCASES, IRONMONGERY, DOORS AND JOINING (SPECIFIC)

6.1 6.1.1 G ✓ (1)

6.1.2 D ✓ (1)

6.1.3 C ✓ (1)

6.1.4 B ✓ (1)

6.1.5 A ✓ (1)

6.1.6 E ✓ (1)

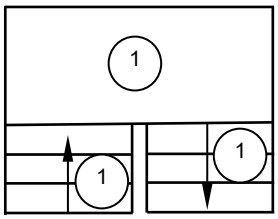
6.2 6.2.1 A – Cut cupboard lock ✓
B – Drawer/Till lock ✓ (2)

6.2.2 A – Cut cupboard locks are used for locks on cupboard doors. ✓
B – Drawer/Till locks are used for locks on drawers or tills. ✓ (2)

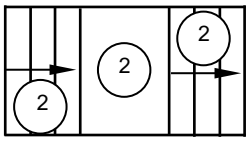
6.2.3 Rim locks: Are used as temporary locks ✓
Mortise locks: Are permanent locks used for entrance/internal doors. ✓ (2)

6.3 A – Jamb lining/Jamb ✓
B – Planted stop/Stop ✓ (2)

6.4



STAIRCASE WITH A HALF-LANDING (3)

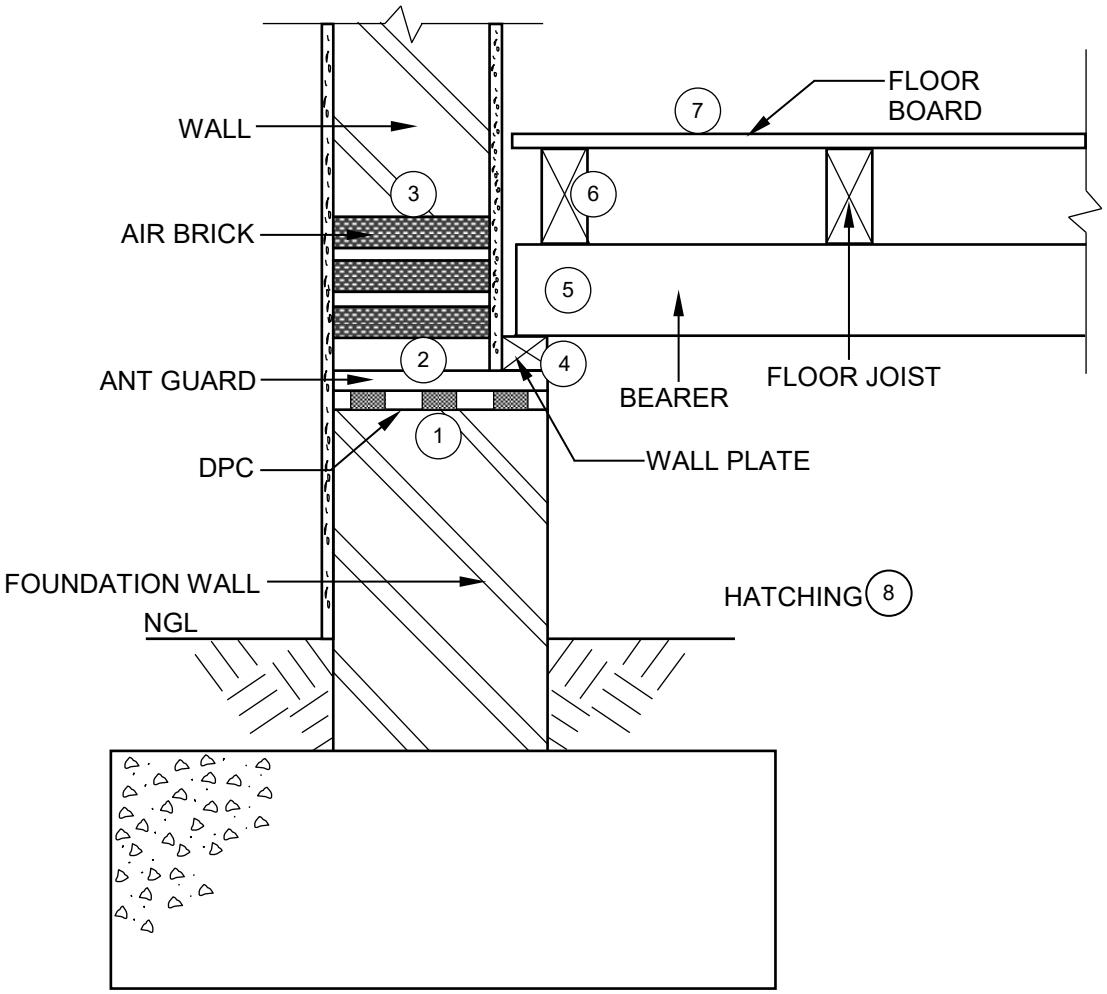


STRAIGHT FLIGHT OF STAIRS WITH LANDING (3)

NO.	ASSESSMENT CRITERIA	MARK
1	Staircase with a half-landing (3 steps before and 3 steps after)	3
2	Straight flight of stairs with a landing (3 steps before and 3 steps after)	3
3	Correct titles (only if title matches drawing)	2
	TOTAL:	**8**

(8)

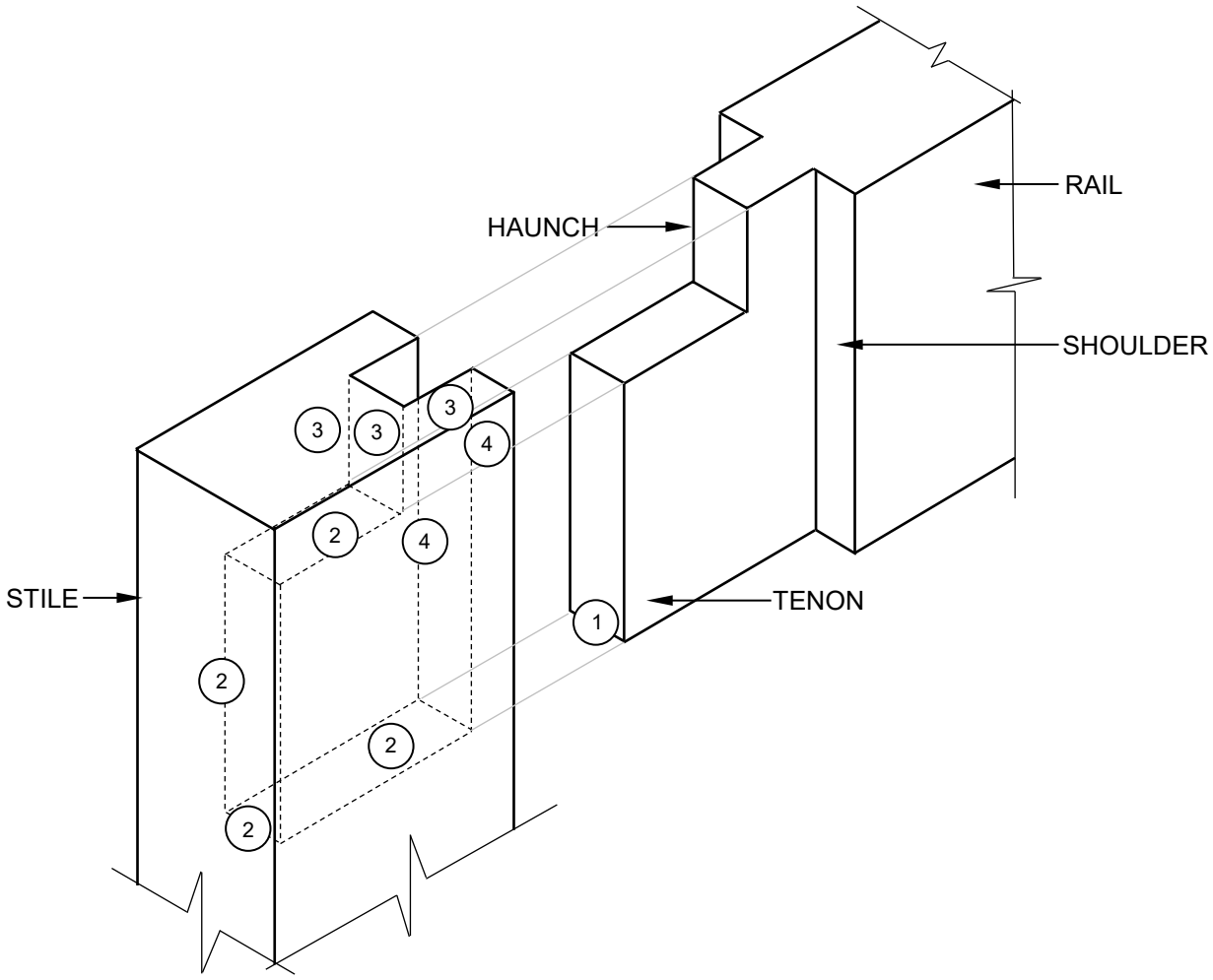
6.5



NO.	ASSESSMENT CRITERIA	MARK
1	DPC	1
2	Ant guard	1
3	Airbrick	1
4	Wall plate	1
5	Bearer	1
6	Floor joists	1
7	Floor board	1
8	Hatching (Any ONE part)	1
	TOTAL:	**8**

(8)

6.6



NO.	ASSESSMENT CRITERIA	MARK
1	Projection (Evidence)	1
2	Mortise (Height, Width, Depth x 2)	4
3	Haunch (Height, Width, Depth)	3
4	Shoulder (Depth)	2
	TOTAL:	**10**

(10)
[40]

TOTAL: 200

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