



General Certificate of Secondary Education  
January 2013

## Construction and the Built Environment

### Assessment Unit 1: The Construction Industry for the 21st Century

[GCB11]

WEDNESDAY 9 JANUARY, AFTERNOON

StudentBounty.com

Centre Number  
71  
Candidate Number



#### TIME

1 hour 30 minutes.

#### INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper. Answer **all ten** questions.

Questions 1, 2, 3, 7 and 9 should be answered in relation to the enclosed house drawings and specifications previously issued as pre-release material.

You should not bring any of the material previously issued into this examination.

You will be provided with a clean copy of the pre-release material.

#### INFORMATION FOR CANDIDATES

The total mark for this paper is 120.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Questions **8** and **10**.

**A scale rule is required.**

8148

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

<b>Total Marks</b>	
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2 The type of roof construction used in the house shown in the pre-release material is a timber cut roof which can accommodate rooms in the roof space.

Clearly state what you understand by the following **six** items that could be used in the house construction shown in the pre-release material. State what their **function is** and **where they would be located** within the roof.

1. Roofing membrane or roofing felt

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[2]

2. Fascia board

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[2]

3. Hangers

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[2]

4. Eaves

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[2]

5. Valley

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[2]

6. Gutter

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[2]

Examiner Only	
Marks	Remark





5 (a) List **five** performance requirements of windows.

1. \_\_\_\_\_ [1]
2. \_\_\_\_\_ [1]
3. \_\_\_\_\_ [1]
4. \_\_\_\_\_ [1]
5. \_\_\_\_\_ [1]

(b) Sketch in the space below a casement window with:

- six fixed lights;
- two side opening casements;
- two top opening casements.

[5]

Examiner Only	
Marks	Remark

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**(Questions continue overleaf)**

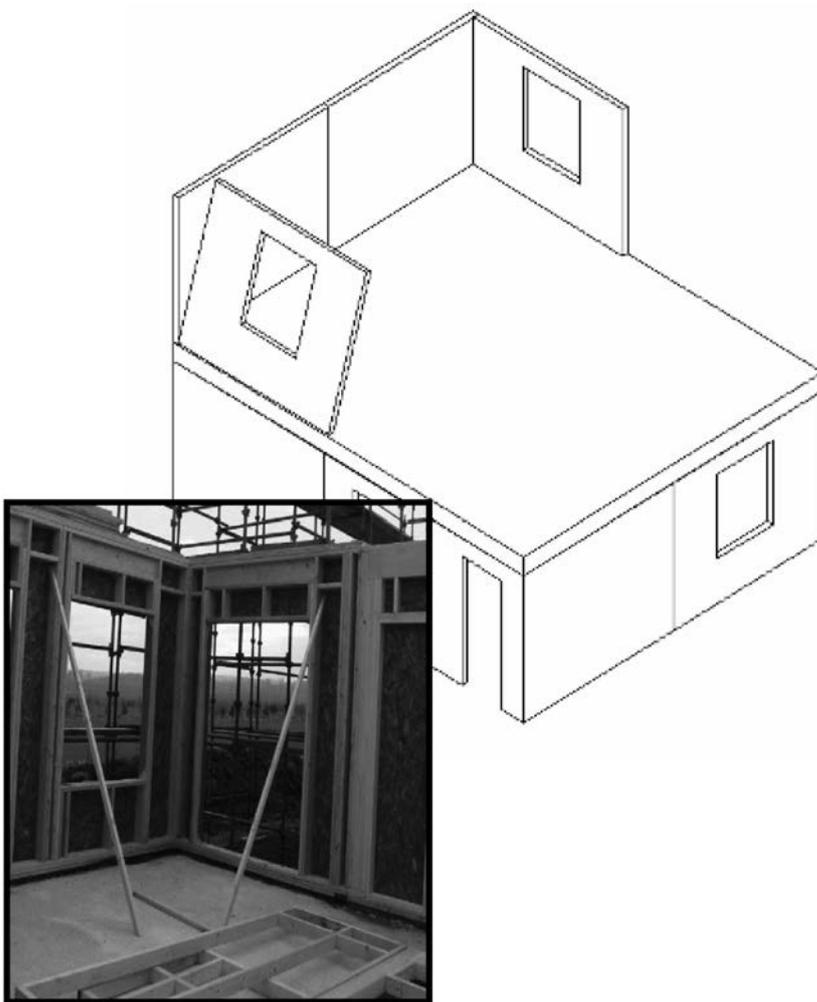






7. \_\_\_\_\_

[1]



8. \_\_\_\_\_

[1]

Examiner Only	
Marks	Remark



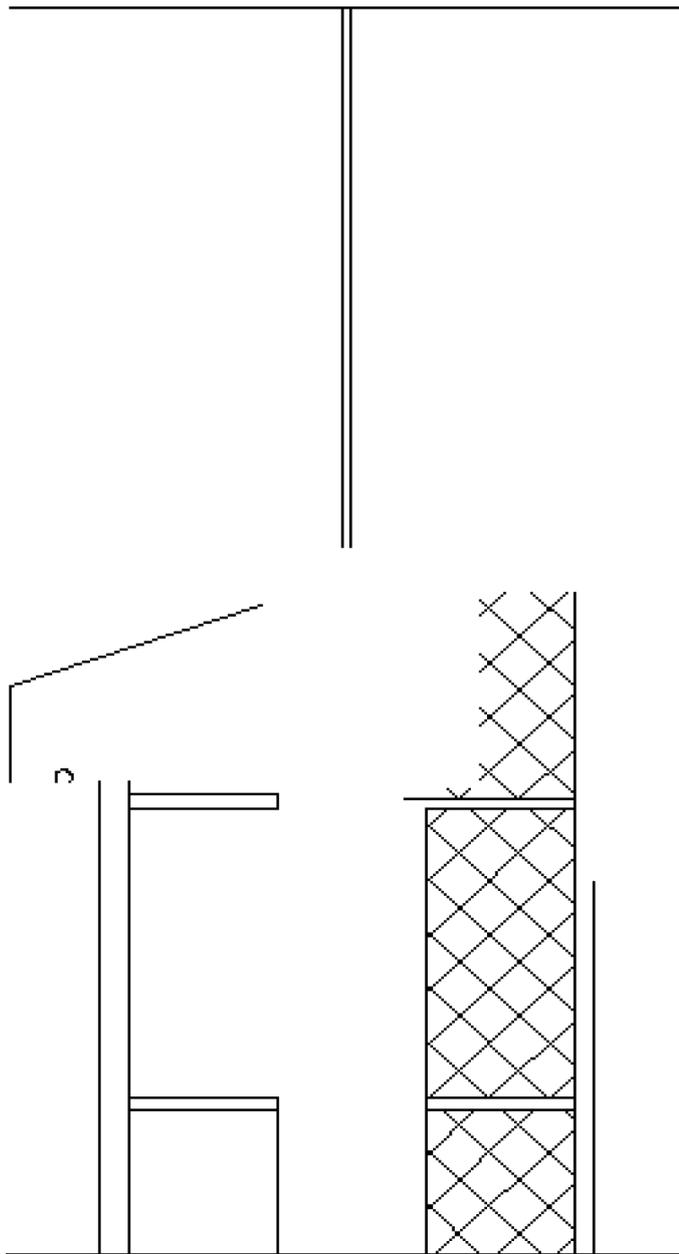


9 Fig. 2 below shows an incomplete sill detail which is to be used for the house shown in the pre-release material.

Complete the drawing and include labels from the list below:

- |                          |                          |
|--------------------------|--------------------------|
| Concrete sill            | Outer skin of block work |
| Inner skin of block work | Anti-capillary groove    |
| Damp Proof course        | Timber window frame      |
| Insulation behind sill   | Double glazing           |
| Cavity Insulation        | Sill board               |

10 marks for labels and 10 for drawings.



[10]

Fig. 2

[10]

Examiner Only	
Marks	Remark







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**THIS IS THE END OF THE QUESTION PAPER**

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