



1. Describe the procedure for facing and edging a 2 m length of 100 mm x 50 mm sawn softwood on a surface planer clearly stating the current safety requirements.

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2. A steel beam is shown in figure 1. Sketch how this could be enclosed using timber framing and plasterboard cladding.

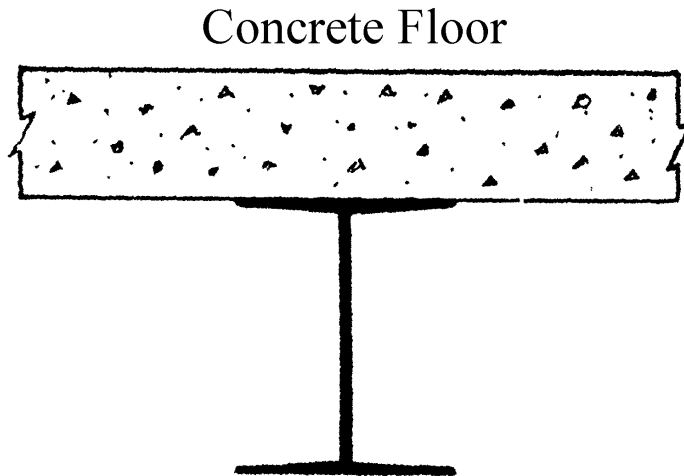


Fig. 1

3. Define **THREE** main objectives when writing a defects report.

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|----|
| 1. |
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|    |
| 2. |
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|    |
| 3. |
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4. Sash cords have to be replaced on both sashes in a double hung sash and cased window. State :-

- (i) **THREE** components, apart from the sashes, which are removed from the case during the operation;
- (ii) **ONE** aid used to assist threading the cord through the pulley wheels;
- (iii) **ONE** method of attaching the cord to the sashes.

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|--------|
| (i) 1. |
| 2.     |
| 3.     |
| (ii)   |
| (iii)  |

5. List **FIVE** headings that would be found in a door schedule.

|    |
|----|
| 1. |
| 2. |
| 3. |
| 4. |
| 5. |

- 6. a) Determine the number of full sheets of 2440 x 1220 hardboard to be ordered to cover the **TWO** sides of a 4000 long x 2440 high timber stud partition.
- b) Calculate the cost of the hardboard when each sheet is priced at £6.28.

|                    |
|--------------------|
| Number of sheets = |
| Cost of sheets =   |

- 7. (a) Explain the purpose of a datum line.
- (b) Describe a method to establish this datum line at various positions within a building under construction.

|     |
|-----|
| (a) |
|     |
| (b) |
|     |
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|     |
|     |

- 8. Specify in detail with the aid of sketches, **TWO** of the following :-
  - (i) Strapping to brickwork;
  - (ii) Timber lining to ceilings and/or walls;
  - (iii) Plastic faced worktop to base unit.

- 9. List the tools and fixings required to fix a purpose made wall unit to a plastered brick wall.

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10. A half hour fire check door is to be hung to a frame which has planted stops. State :-
- (i) The minimum width of the stops;
  - (ii) The minimum thickness of the stops;
  - (iii) The method of fixing the stops to the frame.

|       |
|-------|
| (i)   |
| (ii)  |
| (iii) |

11. List the sequence of operations and choice when using electric hand power tools and jigs for the manufacture of a simple straight stair flight.

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12. Figure 2 shows the graphical representation of concrete as recommended in BS 1192 Building Drawing Practice. Complete the boxes for the remaining materials.

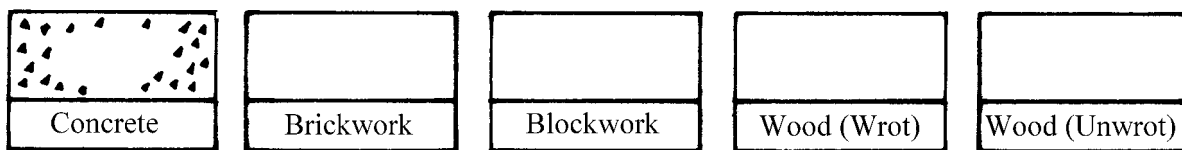


Fig. 2

13. Describe the uses of **FOUR** of the scaffolding components listed below.

| Component         | Use |
|-------------------|-----|
| Base plates       |     |
| Standards         |     |
| Transoms          |     |
| Ledgers           |     |
| Working platforms |     |
| Braces            |     |

14. In relation to timber drying, describe the following terms :-

- (i) "Fibre saturation point";
- (ii) "Oven dry weight";
- (iii) "Moisture content".

|       |
|-------|
| (i)   |
|       |
| (ii)  |
|       |
| (iii) |
|       |

15. A trussed rafter roof is specified to cover a two storey domestic building. State how the trussed rafters are :-

- (i) Raised by mechanical means;
- (ii) Aligned to position on the roof;
- (iii) Fixed in position.

|       |
|-------|
| (i)   |
|       |
| (ii)  |
|       |
| (iii) |
|       |

16. Complete the table below to illustrate how materials/components are protected from damage on site prior to fixing.

| Materials/Components | Protection |
|----------------------|------------|
| Moulded Skirting     |            |
|                      |            |
| Flush Doors          |            |
|                      |            |
| Trussed Rafters      |            |
|                      |            |

