



**MUSINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
BACHELOR OF TECHNOLOGY  
IN BUILDING CONSTRUCTION**

**COURSE CODE: BTB 431**

**COURSE TITLE: CONSTRUCTION COST ESTIMATIONING AND  
ANALYSIS II**

**DATE: MONDAY 25<sup>TH</sup> APRIL 2022**

**TIME: 3.00 – 5.00 PM**

**INSTRUCTION TO CANDIDATES**

- **This paper consists of TWO sections, A and B**
- **Answer ALL questions in section A and any ONE question from section B**
- **Marks for each question are as indicated**
- **No unauthorized materials are allowed in the examination room**

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

**SECTION A (ANSWER ALL QUESTIONS – 40 Mark)****Question One**

- a) Define the following common terms in structural quantities measurements. (7 marks)
- 1) Standard Methods of Measurements
  - 2) Take-off
  - 3) Quantities
  - 4) Preliminaries
  - 5) Variations
  - 6) Bills of Quantities
  - 7) Ditto/do
- b) Outline the essential factor that should always be considered and applied to follow good established measurement practice. (7 marks)
- c) Describe in detail what a dimension paper. (4 marks)
- d) Describe what a Quarry sheet. (4 marks)
- e) What do these standard abbreviations stand for? (5 mark)
- 1) conc.
  - 2) a.b
  - 3) a.b.d
  - 4) n.e
  - 5) bldg.
  - 6) B.S
  - 7) Bwk
  - 8) Ddt
  - 9) b & j
  - 10) Bott.
- f) Outline the order of “taking off” any building structure would probably be followed. (13 marks)

**SECTION B (ANSWER ANY ONE QUESTION)****Question Two**

Figure 1 shows the superstructure plan and section details for the wall. Prepare the take off for the Flat roof construction and coverings. (30 marks)

**Question Three**

Figure 2 shows the floor plan for a superstructure. Prepare the take off for the internal finishes. (30 marks)

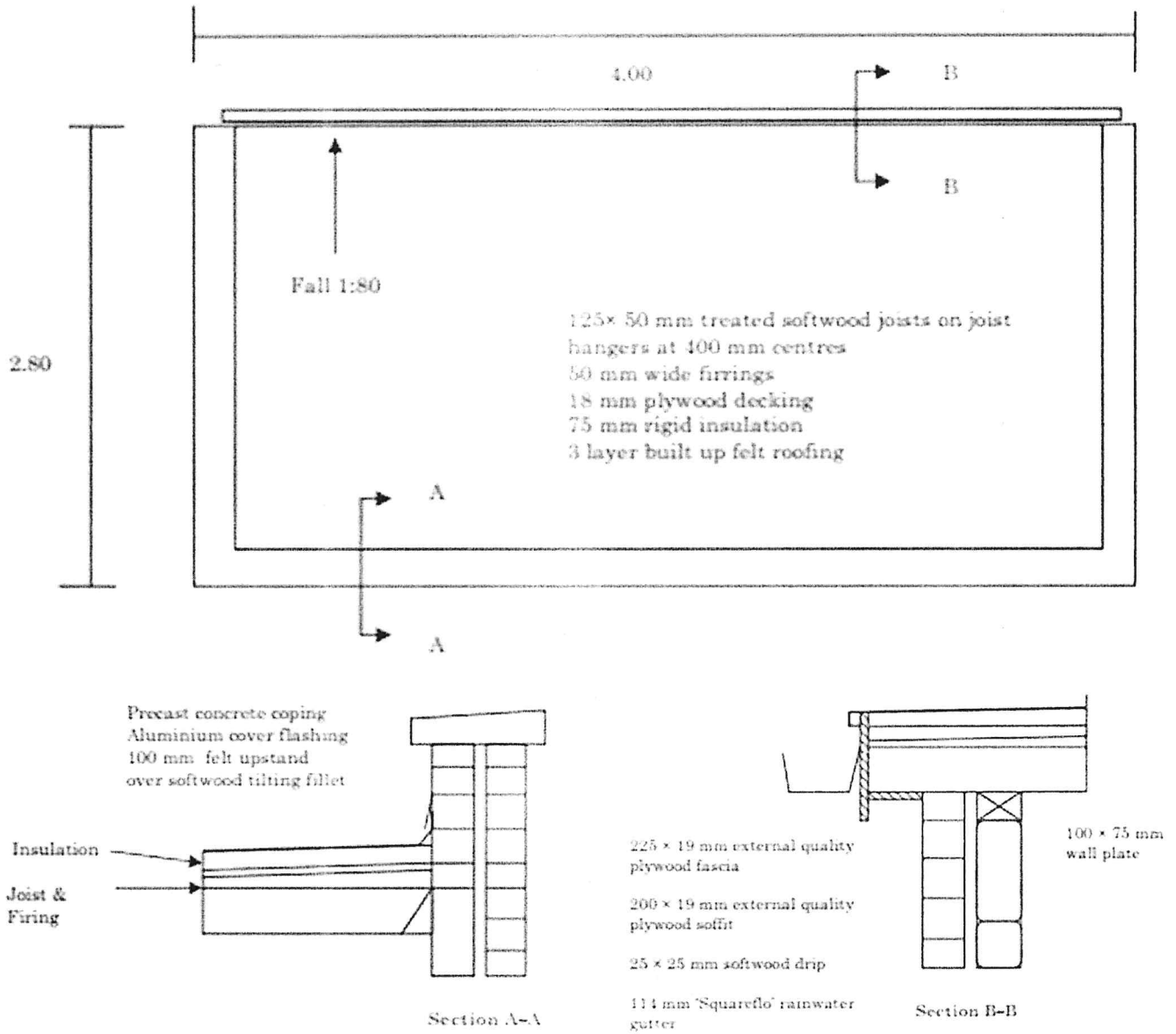


Figure 1 Superstructure plan and section details

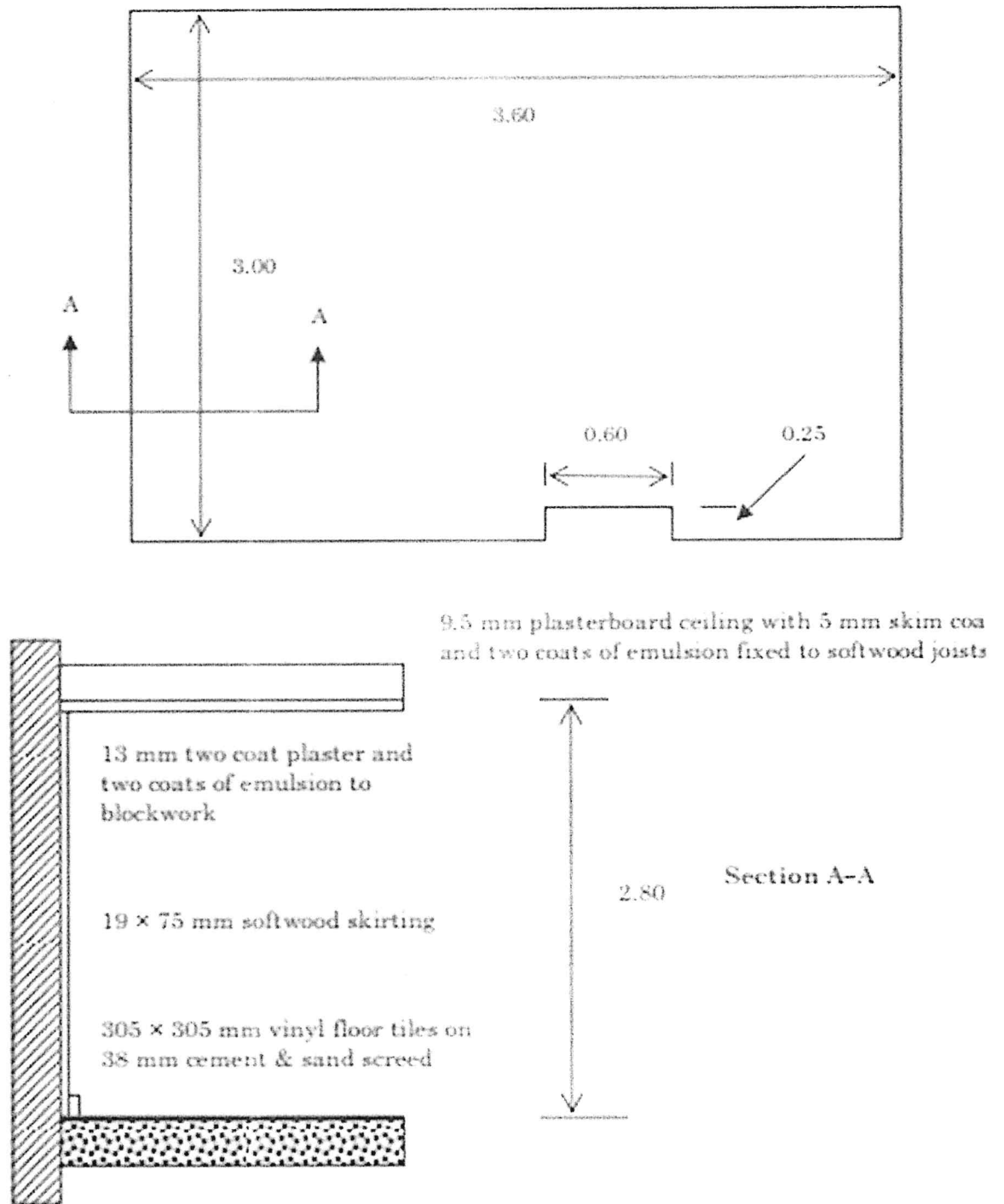


Figure 2