

Design & Technology
AQA A-Level

Paper 1 – Technical
Principles
2 hours 30 minutes

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

120 marks

Q1) Identify the specific material classification of titanium **(1 mark)**

Q2) Define the following metal properties **(2 marks)**

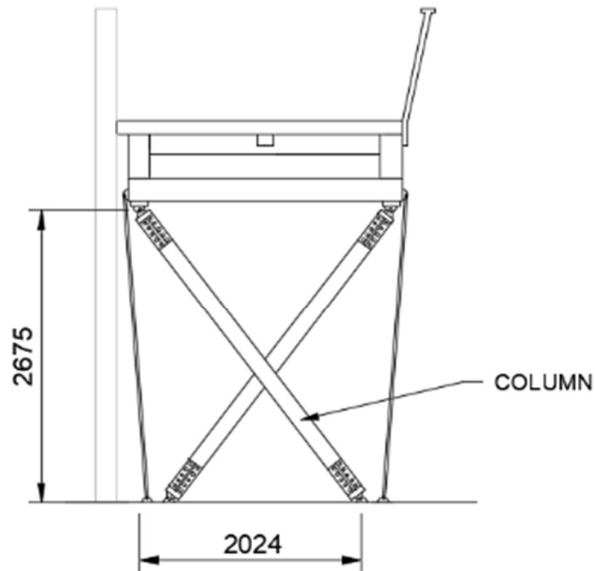
Electrical conductivity

Plasticity

Q3) PSE is a stock form of timber. What does PSE stand for? **(1 mark)**

Q4) Describe the process of forming a timber product using steam bending **(6 marks)**

Q5) The image shows a design for a footbridge. Calculate the length of the column. All measurements are in mm **(3 marks)**



Q6. Explain why glulam is a suitable material for the manufacture of the outdoor structure shown **(6 marks)**

