

Product Name :

Bending Moments In A Portal Frame

Product Code :

SLE/EG/07

**Description :**

- A precision indicator measures any horizontal deflection (sway) due to the load.
- They may also add loads to moment arms on the vertical members of the frame.
- These simulate the effect of internal and external cantilever floors of a structure.
- This product includes a Vernier caliper for accurate measurement of cross-section.
- Students add vertical or horizontal or combinational loads to a portal frame held between two fixing blocks.
- The strain gauges connect to a strain gauge amplifier which connects to the USB interface hub of the Structures platform for computer display and data acquisition.
- Students use textbook analysis methods to predict the bending moments at key positions, along with the sway magnitude.
- Strain gauges at key points around the portal measure the strains and in turn the bending moment due to the loads.
- The positions of the strain gauges and resulting measured bending moments allow students to plot bending moment diagrams for the frame for different loading conditions, allowing comparison to calculated results.

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