

Product Name :
Parabolic Arch With Fixed Ends

Product Code :
ALABS-A211-019



Description :

Parabolic Arch With Fixed Ends

- Apparatus to investigate the horizontal thrust and fixing moments of a steel parabolic arch
- To enable the calculation of influence lines
- Apparatus to consist of steel parabolic model arch
- 1.0metre span, 0.2metre rise
- To have springings with precision bearings installed
- Horizontal thrust measured by precision load cell
- Load to be applied using calibrated weights on vertical equi-spaced chains and hangers
- Ability for model analysis work to be undertaken using pins at hanger joints and dial gauge
- Must be used with universal Frame and Stand (sold separately)
- Must be used with Interface (sold separately)

- Comprehensive instruction manual provided

Experimental Capabilities:

- Measurement of end fixing moments and comparison with simplified theory
- Comparison of theoretical and experimental horizontal thrust
- Derivation of influence lines of the redundancies by direct measurement
- Derivation of influence lines of the redundancies by model analysis



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