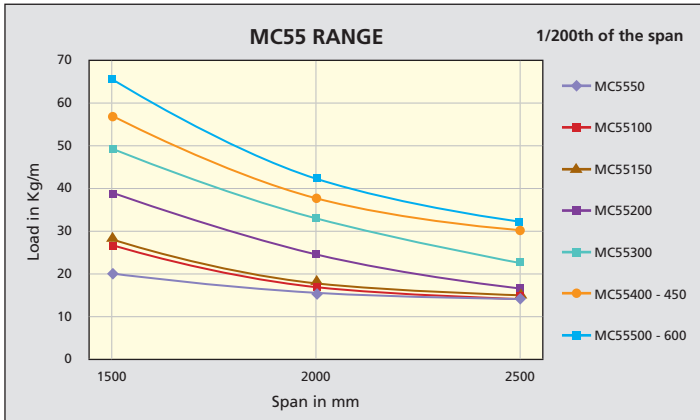


STEEL WIRE CABLE TRAY LOADING INFORMATION

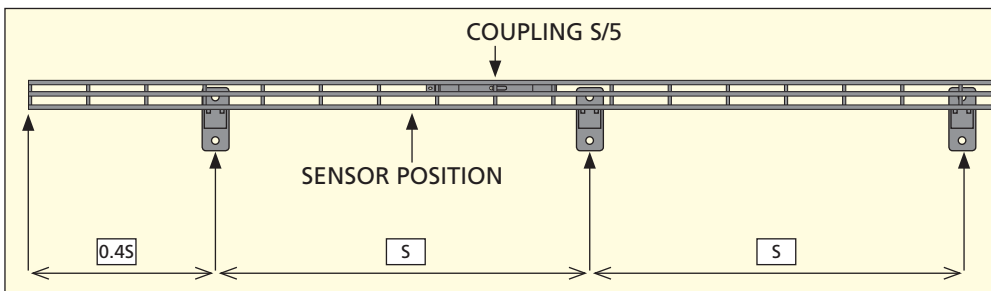


PERMISSIBLE LOADS

Permissible load for maximum sag = $S/200$ on the intermediate span, the coupling at $1/5$ th of the span.

The co-efficient for coupling the tray at the centre of a span = 0.7.

S = Span

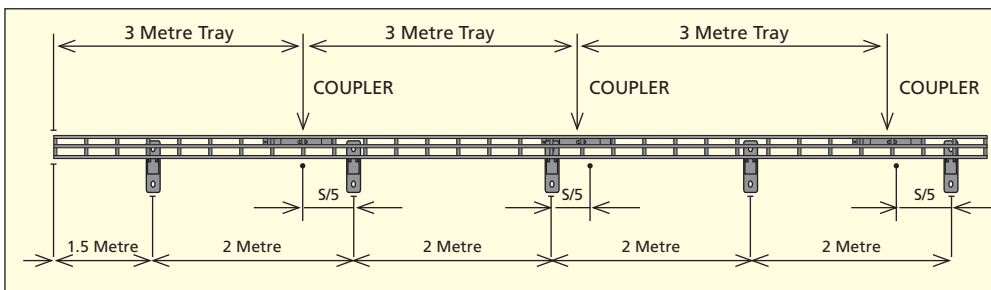


TEST METHODS

Two cable trays were joined together across three supports with a coupling bracket at $1/5$ th of the span. Measurements were taken using three sensors that were positioned centrally under the middle span, with one sensor positioned under the centre of the tray and one sensor on either side across the trays width.

The test method conforms to the standard BSEN61537.

The maximum deflection of $1/200$ th is always reached for a lesser load than that of the safety load. (Breaking point divided by a safety co-efficient of 1.7)

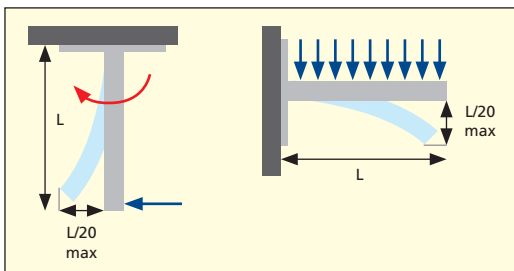


SPAN

Recommended Support Spacing

To maintain the recommended support positioning of 2 metre intervals and to avoid positioning couplers on or to close to supports please follow the diagram.

To obtain the results, the first span is deliberately limited to 1.5 metres, then the supports are placed approximately every 2 metres, the coupling points are therefore always 0.5 metres from a support.



CHOICE AND POSITION OF SUPPORTS

The brackets are characterized by their permissible loads (in Kg).

The hangers are characterized by their permissible torques (in Kg.m).

All Marco supports are tested and conform with the standard BSEN61537.

The safe working load (SWL) as defined by the standard is the lowest value of either:

- The load creating a deflection of $L/20$ at the end.
- The breaking load divided by 1.7, if the deflection at $L/20$ is not reached.