

# NAFLIC

*National Association For Leisure Industry Certification*

## Standards & Related Documents Sub-Committee

### TECHNICAL BULLETIN - JANUARY 1995

#### 104. Motion Envelope Clearances

Every amusement device where passenger units move relative to their surroundings should have a designed clearance between the unit and the fixed structure. This clearance is intended to prevent the risk of passengers being trapped or struck by parts within the ride motion envelope including, where appropriate, the extent to which passengers can reach.

Alterations, or repairs to themeing, supporting structure, falsework or even track re-alignment, sometimes reduce the original design clearance and it is important that appointed persons check them as a part of their thorough examinations, or at least on the following occasions :-

- ◆ At Initial Testing
- ◆ At examinations following modification / repairs to themeing, falsework, structure etc.
- ◆ When carrying out a Functional Test

One means of carrying out the check on some rides is to arrange for a template to be constructed (and kept) which is shaped to suit the ride's designed motion envelope. The template can then be mounted at the most suitable position on the passenger unit and travelled through any critical areas to be checked.

It is essential that the template is rigidly constructed and is firmly secured in position to ensure that its design parameters are maintained and that it does not damage the surrounding structure, themeing etc., when in use.

Committee Members :- Dr Garry Fawcett (Chairman), Mr Richard Barnes, Mr Bob Nicholls, Mr Les Howson,  
Mr Malcolm Tennant, Mr Peter Steffens

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P.O. BOX NO. 9, BUXTON, DERBYSHIRE. SK17 9XF  
TEL: (01298) 77468 FAX: (01298) 72343