

THE ELASTIC MOVEMENT AND PERMANENT DISPLACEMENT OF TRACK UNDER THE INFLUENCE OF LATERAL FORCES – SLOW SPEED TESTS AT MICKLEOVER

A summary of all the information obtained to date on the elastic movement and permanent displacement of concrete sleepers track at a test site is presented in this report.

It is concluded that, in the situations examined, track displacement:

- Is related to lateral force.
- Is determined by the lateral / vertical force ratio.
- Does not exhibit any threshold.
- Is dependent on the previous loading history.
- Is affected by some unknown factor.
- Can be approximately predicted from the elastic movement.

It is recommended that more attention should be given to the behaviour of track in service and less to the behaviour of small test sites. It is further recommended that the influence of compressive forces in the rails should be studied.