

EXPERIMENTAL RIDE DATA COMPARISON BETWEEN THE LEYLAND EXPERIMENTAL VEHICLE AND EXISTING TYPES OF SUBURBAN VEHICLE OPERATING ON THE LONDON MIDLAND REGION

Ride data from 21 test sites shows LEV to have a mean 'RED' value of 0.027g in the lateral plane, and 0.05g vertically for a mean speed of 110.8km/h. In comparison, Diesel Multiple Unit vehicles over the same sites gave lateral and vertical mean values of 0.023g and 0.047g respectively, for a mean speed of 92.3km/h. The 20% mean speed difference between LEV and DMU vehicles would suggest that LEV ride was at least as good, if not better, than the latter type of vehicle comparing results of mean acceleration.

A comparison of ride performance between LEV and a Class 304 Electric Multiple Unit over five sites gave mean 'RED' values in the lateral plane of 0.02g (LEV) and 0.031g (EMU) for means speeds of 118.2km/h and 111.9km/h respectively. Vertical, mean values were 0.051g (LEV) and 0.06g (EMU).