

# Hand Arm Vibration Assessment Timings

*Recommended maximum number of posts to install per day using the Easy Petrol Post Driver – CHPD78.*

## Timber Post

Average HAV result is **9.24m/s<sup>2</sup>** which equates to approximate tool usage:

To EAV 2.5m/s<sup>2</sup> = **35 minutes** = 100 points

Ground Conditions	Time taken to knock post in	Number of posts – per man per 24 hours
'Soft'	20 seconds	105
'Hard'	40 seconds	52

To ELV 5m/s<sup>5</sup> = **141 minutes** = 400 points

Ground Conditions	Time taken to knock post in	Number of posts – per man per 24 hours
'Soft'	20 seconds	423
'Hard'	40 seconds	211

## Metal Post

Average HAV result is **9.24m/s<sup>2</sup>** which equates to approximate tool usage:

To EAV 2.5m/s<sup>2</sup> = **35 minutes** = 100 points

Ground Conditions	Time taken to knock post in	Number of posts – per man per 24 hours
'Soft'	10 seconds	210
'Hard'	30 seconds	70

To ELV 5m/s<sup>5</sup> = **141 minutes** = 400 points

Ground Conditions	Time taken to knock post in	Number of posts – per man per 24 hours
'Soft'	10 seconds	846
'Hard'	30 seconds	282

### Calculation used:

$$\frac{\text{Number of minutes tool usage} \times 60 \text{ seconds}}{\text{Number of seconds to knock post in}} = \text{Number of posts per man per 24 hrs}$$

We advise that operators determine their own maximum number of posts based on the calculations shown below. If the ground conditions present different post installation times, the number of posts per day can be calculated using the same method above but using the alternative trigger time.

These calculations are based on installation times of posts in ground conditions anticipated to be average conditions within the UK. Results for both 'hard' and 'soft' ground have been provided.

Calculations below are based on the Hand Arm Vibration Assessment results of the Easy Petrol Post Driver, provided by independent testing company Earlsmere Limited.

This must not supersede the **points system** recommendations, or the 'Daily Exposure Limit Value' as defined in Regulation 6(5) of the Control of Vibration at Work Regulations 2005. This advice must be used as an additional aid to facilitate the installation process of fence posts or alike.

Post installation numbers per day (24 hour period) have been calculated for both the **Exposure Action Value level** and for the **Exposure Limit Value** level. It is recommended to work to the EAV values. The upper level ELV **must not** be exceeded in any given day, with exception for Weekly Averaging, detailed in the Hand Arm Vibration Assessment document. For all tools and equipment, operators should always work to the lowest possible level of vibration.