

The Concrete Society's TR34 Free Movement (4th Edition) Classifications

Table 3.1: Permissible 95 percentile values on Properties E and F.

Floor class	Typical floor use	Property	
		E	F
FM1	Where very high standards of flatness and levelness are required. Reach trucks operating at above 13m without side-shift.	4.5	1.8
FM2	Reach trucks operating at 8 –13m without side-shift.	6.5	2.0
FM3	Retail floors to take directly applied flooring. Reach trucks operating at up to 8m without side-shift. Reach trucks operating at up to 13m with side-shift.	8.0	2.2
FM4	Retail floors to take applied screeds. Workshops and manufacturing facilities where MHE lift heights are restricted to 4m.	10.0	2.4

Note: Side-shift is the ability of a truck to adjust the pallet transversely to the fork direction.

Data analysis and permissible limits

The survey data are analysed and the 95 percentile value is reported. The 95 percentile value is the Property value below which 95% of the values will fall. Five per cent of the values will be greater.

Upper limits on the 95 percentile values for Properties E and F are given in Table 3.1. The floor is non-compliant if:

- the maximum permitted 95 percentile values are exceeded
- any point on the Property E survey grid is outside the $\pm 15\text{mm}$ of datum.