

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 Property E data are analysed and the 95 percentile value is calculated. The Property F data for the total sample of Property F runs are analysed and the 95 percentile value of the total sample is calculated.

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.