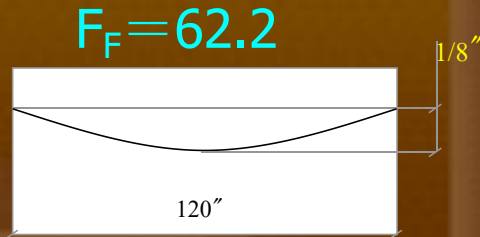
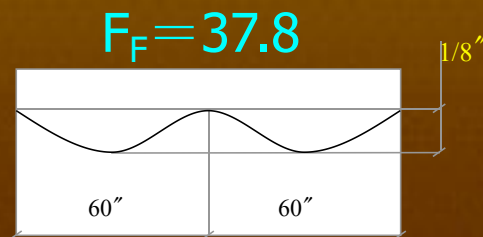
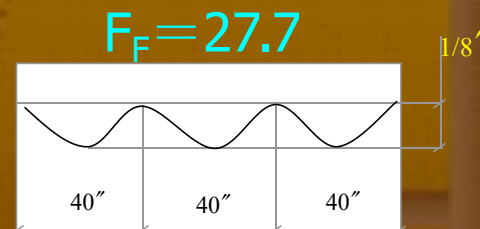
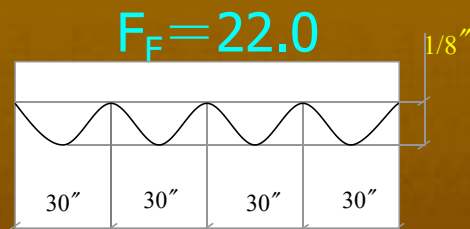


ACI 117 标准简介

ACI 117 Standard Introduction

ACI 117 是采用**FACE Floor Profile Number** 系统，简称 **F-number** 系统，描述地面平整度与水平度的体系方法。阐述地面平整度与水平度含有两个独立的 **F-数据**。

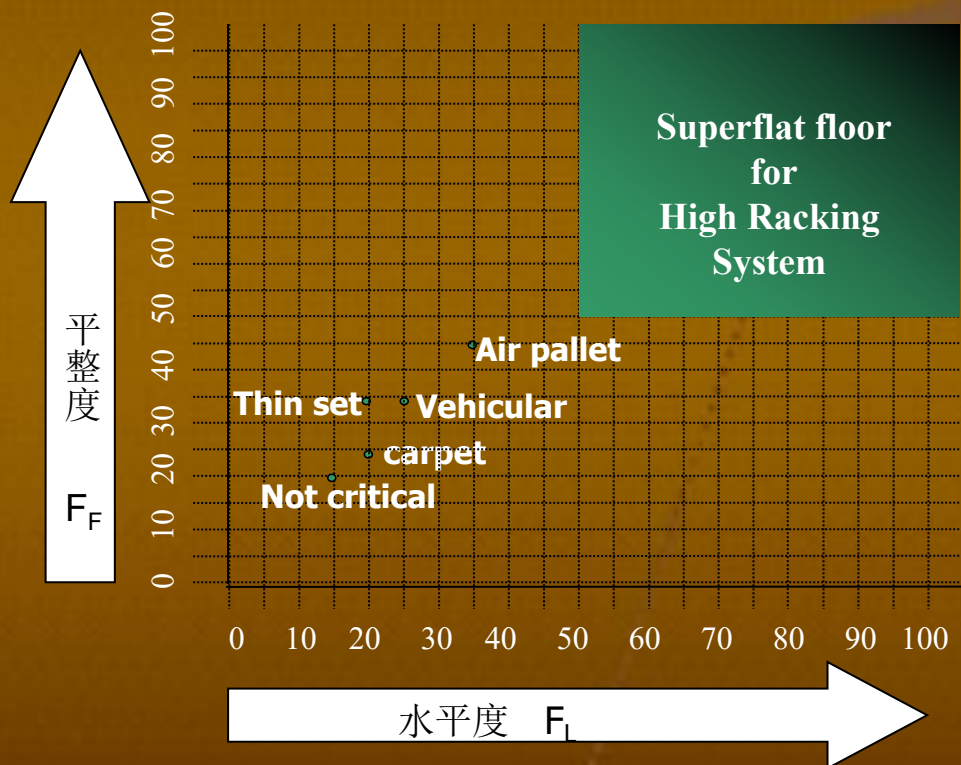
- **F_F(平整度)** -是通过沿被测区域的测量线测量每**1-ft (300mm)**间距落差的连续变化值表示地表的崎岖不平。
- **F_L(水平度)** -是通过沿被测区域的测量线测量每**10-ft (3m)**间距的连续距离内的落差来表示相对的地表坡度变化。



美国混凝土协会标准 -ACI 117

America Concrete Society Standard -ACI 117

平整度/水平度应用指南

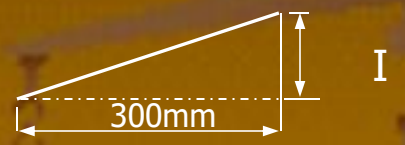
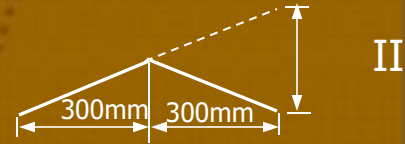
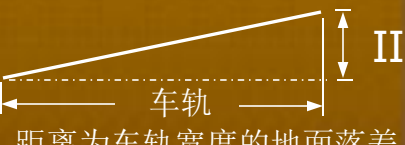


测量仪器 DIPSTICK



英国混凝土协会标准TR34

British Concrete Society TR34

地坪类别 (举例)	检测位置	标准	允许值 (mm)	
			95%	100%
超平地坪类 VNA 仓库 立体货架最大高度大于13m	限定移动	 距离为300mm的地面落差	0.75	1.00
	车轨 与车轨成直角，间距为300mm 区域	 距离为600mm的地面落差	1.00	1.50
		 距离为车轨宽度的地面落差 a) 达到1.5m b) 超过1.5m	1.50 2.00	2.50 3.00
	自由移动	 每3m x 3m方格区域的地面落差	2.00	3.00

英国混凝土协会

Technical Report No.34, Rev.3

Defined Movement

Table 4.4: Permissible limits for Properties I,II,III in Defined Movement areas.

Floor classification	MHE lift height	Property I		Property II		Property III			
						Wheel track up to 1.5m		Wheel track over 1.5m	
		95%	100%	95%	100%	95%	100%	95%	100%
Superflat/DM1	Over 13m	0.75	1.0	1.0	1.5	1.5	2.5	2.0	3.0
Category 1/DM2	8-13m	1.5	2.5	2.5	3.5	2.5	3.5	3.0	4.5
Category 2/DM3	《 8m	2.5	4.0	3.25	5.0	3.5	5.0	4.0	6.0

Free Movement

Table 4.2: Permissible limits on Properties II and IV in Free-Movement areas.

Floor classification	Floor Use	Property II Limit (mm)		Property IV Limit (mm)	
		95%	100%	95%	100%
FM1	Where very high standards of flatness and levelness are required. Floors to FM1 classification are likely to be constructed using long strip methods.	2.5	4.0	4.5	7.0
FM2	Wide aisle warehousing with stacking or racking over 8m, free-movement areas and transfer areas.	3.5	5.5	8.0	12.0
FM3	Wide aisle warehousing with stacking or racking up to 8m, retail and manufacturing facilities.	5.0	7.5	10.0	15.0

Table 4.3: Permissible limits on Properties II and IV in FM2 floors for possible conversion to category 1.

Floor classification	Floor Use	Property II Limit (mm)		Property IV Limit (mm)	
		95%	100%	95%	100%
FM2 (Special)	Floors for later conversion to category 1 defined movement.	3.0	4.5	6.5	10.0

地坪的分类 - 定向移动

Floor Classification for Defined Movement

BCS TR34 Classification 地坪类别	MHE 提升高度	ACI F-number (F-数据)		Approx. Tolerance in 3 meter(*) 3米靠尺落差(*)
		F _F Value (Flatness) 平整度	F _L Value (Levelness) 水平度	
Ultraflat 特级超平地坪		≥150	≥100	≤1.0mm
Superflat DM1/超平地坪	大于13m	≥100	≥60	≤1.6mm
Category 1 DM2/ 1 类地坪	8-13m	≥50	≥35	≤3.0mm
Category 2 DM3/ 2 类地坪	6-8m	≥35	≥25	≤5.0mm

(*) 注：该数据仅做参考，不能做为测量标准。

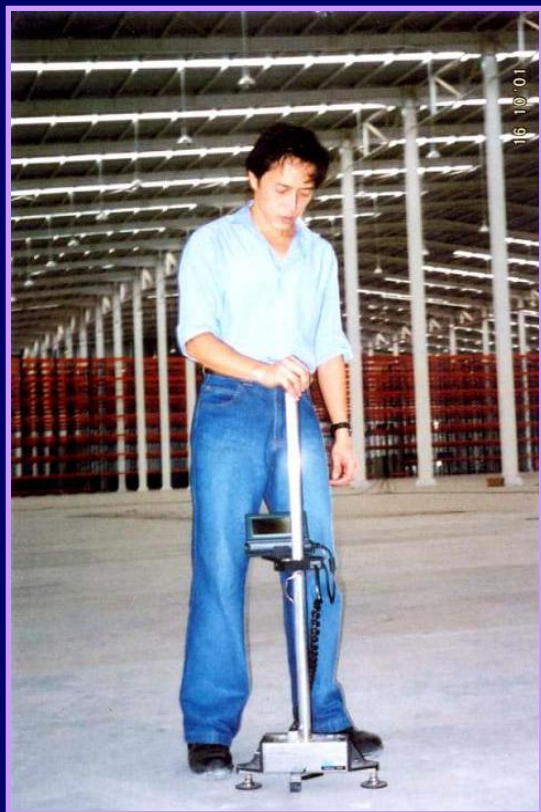
地坪的分类 - 自由移动

Floor Classification for Free Moment

British Concrete Society TR34. Rev3			ACI F-numbers		
Flatness 平整度 Property II	Levelness 水平度 Property IV	Datum 基准点偏离	F _F Value (Flatness) 平整度	F _L Value (Levelness) 水平度	Datum 基准点偏离
FM1	FM1	+/- 15mm	≥45	≥40	N.A.
FM2 Special	FM2 Special	+/- 15mm	≥40	≥35	N.A.
FM2	FM2	+/- 15mm	≥35	≥30	N.A.
FM3	FM3	+/- 15mm	≥25	≥20	N.A.

Note : The above comparisons are not direct numerical comparisons but based on the results of over 1 million square metres of floor survey results. A direct comparison is not possible due to the above specifications having completely different methods of data collection and data analysis. Numbers are compiled by FACE Consultants.

测量仪器—*DIPSTICK*



测量仪器 DIPSTICK

测量方法:

测量时间:在地坪完工后72小时之内
进行测量(通常在第2天
开始)

测量人员:由美国仪器厂商
Face Institute授权资格
的技术人员进行本项工作。

测量范围:测量路线不能少于3.35m
长;

测量位置应离地板边沿、
施工缝、柱头等地方不
少于600mm的距离;

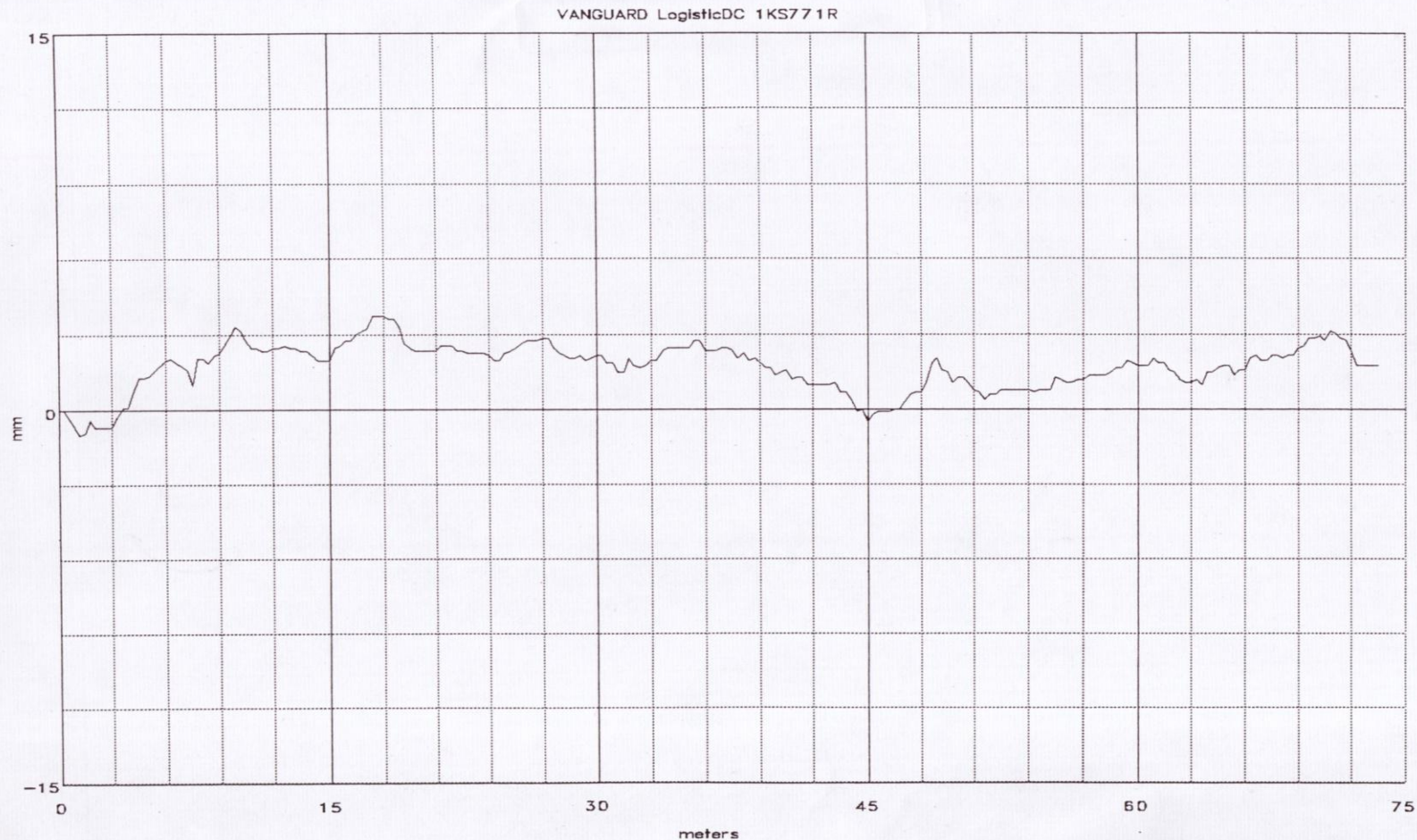
测量路线:不应横越施工缝;
测量路线平行距离应不
小于1.22m。

*Dipstick*测量方法为根据ASTM E1155规范。

出具 *DIPSTICK* 测量报告



DIPSTICK地坪测量报告



Ff = 124.22 <115.23-133.21> Fl = 117.04 <108.35-125.73>