

测试项目 1: 堆码试验

1. 测试标准: GB/T 4996-1996

2. 测试设备:

设备名称	设备型号	设备编号	校准有效期
整箱压缩试验仪	ZXYD-502	TTS-YQ-001	2012年02月13日

3. 试验方法及说明:

(1) 将托盘置于整箱压缩试验仪下压板中间部位, 把一块尺寸为 200mm × 200mm × 25mm 的刚性加载头放在托盘一角处, 以 10mm/min 的速度将试验载荷从 0 逐渐增加到 0.25R, 并以 0.25R 作为准载荷;

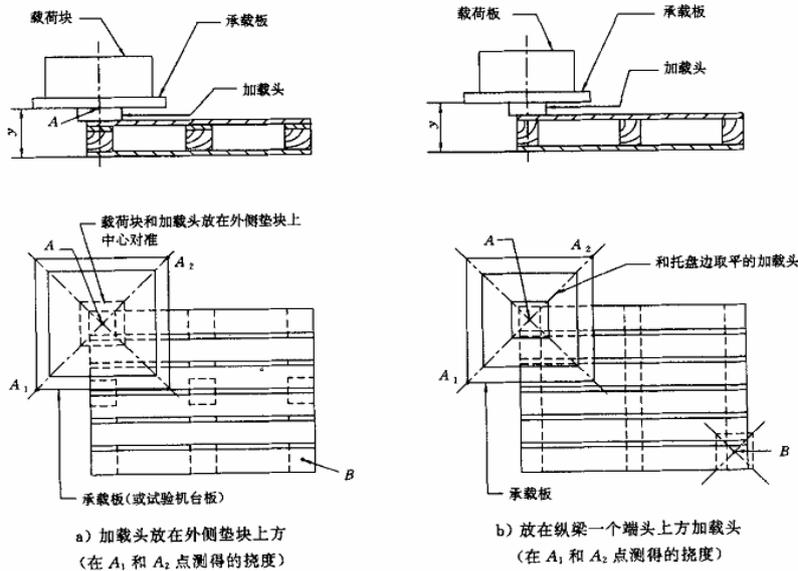
(2) 在 1-5 分钟内加载至满载荷 1.1R, 并保持满载荷 24h;

(3) 在规定时间内卸载至准载荷 0.25R, 并在准载荷条件下保持 1h;

(4) 分别测量 A₁ 点、A₂ 点在以下时刻的位移量: 准载荷 (y₀)、满载荷开始时 (y₁)、满载荷保持 24h 时 (y₂)、卸载到准载荷 (y₃)、卸载保持 1h 时的位移量 (y₄);

(5) 取各点变形量的平均值, 计算样品在相当于 0.25R 准载荷条件下满载变形量 ($\overline{y_2 - y_0}$) 以及在卸载过程中, 相当于 0.25R 准载荷条件下的变形量 ($\overline{y_3 - y_0}$)。

备注: 托盘的设计额定载荷 R 为 1500kg、准载 0.25R 为 3675N、满载 1.1R 为 16170N。



N 级托盘性能要求: 参见 GB/T 4995-1996

最大变形量: $y_2 - y_0 \leq 4\text{mm}$, 残余变形量: $y_3 - y_0 \leq 1.5\text{mm}$

实际测试变形量:

最大变形量: $y_2 - y_0 =$ 残余变形量: $y_3 - y_0 =$

测试结论:

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测试项目 2: 弯曲试验

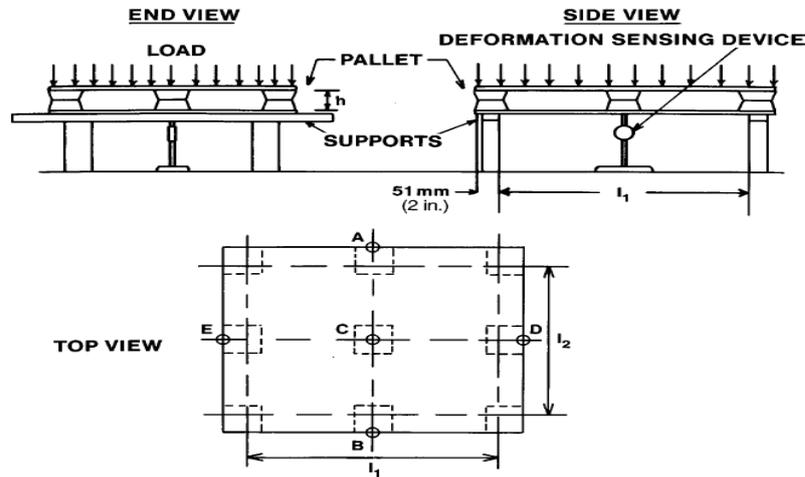
1. 测试标准: ASTM D1185
2. 测试设备:

设备名称	设备型号	设备编号	校准有效期
整箱压缩试验仪	ZXYD-502	TTS-YQ-001	2012 年 02 月 13 日

3. 试验方法及说明:

- (1) 将托盘置于整箱压缩试验仪下压板中间部位, 按下图方式摆放垫块。以 0.5in./min 的速度将试验载荷从 0 逐渐增加到 0.1R, 并以此作为准载荷;
- (2) 在 1-5 分钟内加载至满载荷 1.25R, 并保持满载荷 24h;
- (3) 在规定时间内卸载至准载荷 0.1R, 并在准载荷条件下保持 1h;
- (4) 分别测量 A 点、B 点及 C 点在以下时刻的位移量: 准载荷 (y_0)、满载荷开始时 (y_1)、满载荷保持 2h 时 (y_2)、满载荷保持 24h 时 (y_3)、卸载到准载荷 (y_4)、卸载保持 1h 时的位移量 (y_5);
- (5) 取各点的测量平均值, 计算样品在相当于 0.1R 准载荷条件下满载 2h 时的最大变形量 ($y_2 - y_0$) 及卸载后的残余变形量 ($y_5 - y_0$)。

备注: 准载 0.1R 为 1470N、满载 1.25R 为 18375N。



性能要求:

最大变形量: $y_2 - y_0 \leq 0.019L_1 = 12.69\text{mm}$, 残余变形量: $y_5 - y_0 \leq 0.0075L_1 = 5.01\text{mm}$

实际测试变形量:

最大变形量: $y_2 - y_0 =$

残余变形量: $y_5 - y_0 =$

测试结论:

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测试项目 3: 顶铺板边缘冲击

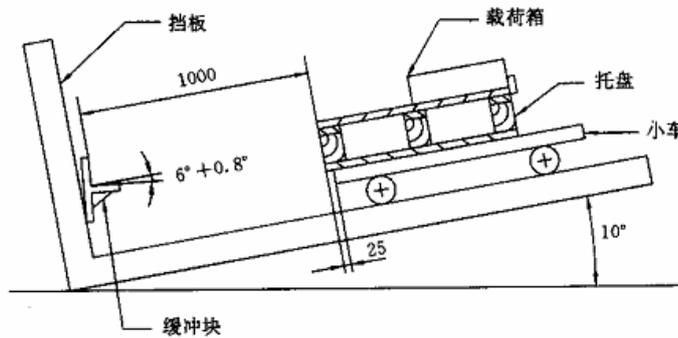
1. 测试标准: GB/T 4996-1996

2. 测试设备:

设备名称	设备型号	设备编号	校准有效期
斜面冲击试验机	IT-100C	TTS-YQ-028	2012 年 02 月 13 日

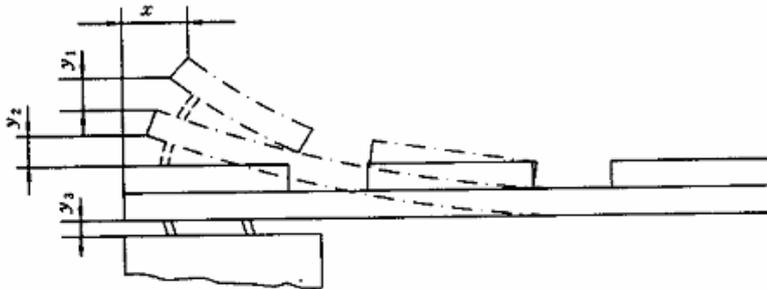
3. 试验方法及说明:

(1) 将负载样品 (总负载 112.5kg) 按下图方式放置在斜面冲击台车上, 样品短边方向与冲击方向一致;



(2) 将样品拖到距离冲击点 1000mm 处, 释放小车冲击托盘顶铺板边缘, 共进行三次冲击试验;

(3) 如下图所示记录 x 、 y_1 、 y_2 、 y_3 变形量;



N 级托盘性能要求: 参见 GB/T 4995-1996

经受三次冲击之后, x 值的平均增加不应超过 3mm, y 值的平均增加不应超过 3mm。

实际测试变形量:

长边方向:

测试结论:



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测试项目 4: 垫块冲击

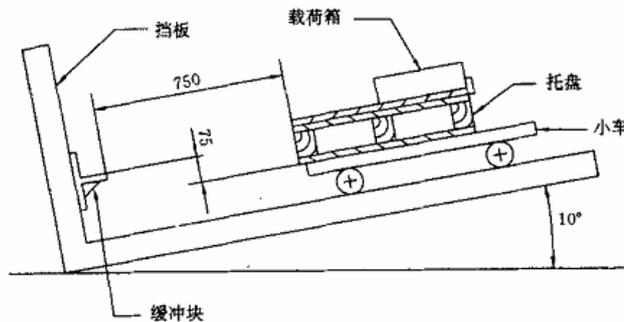
1. 测试标准: GB/T 4996-1996

2. 测试设备:

设备名称	设备型号	设备编号	校准有效期
斜面冲击试验机	IT-100C	TTS-YQ-028	2012 年 02 月 13 日

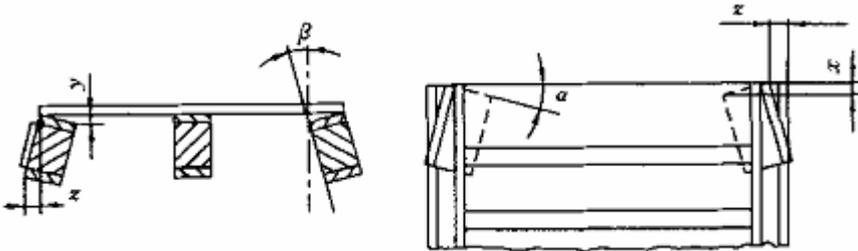
3. 试验方法及说明:

(1) 将负载样品 (总负载 112.5Kg) 按下图方式放置在斜面冲击台车上;



(2) 将样品拖到距离冲击点 750mm 处, 释放小车进行垫块冲击, 共进行三次冲击试验;

(3) 如下图所示记录垫块的 x、y、z 位移和 α 、 β 角位移;



N 级托盘性能要求: 参见 GB/T 4995-1996

经受三次冲击之后, x、y、z 的平均值不应超过 3mm, 该处的角位移 α 、 β 值均不应超过 5° 。

实际测试变形量:

长边方向:

测试结论:

合格



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测试项目 5: 跌落试验

1. 测试标准: GB/T 4996-1996

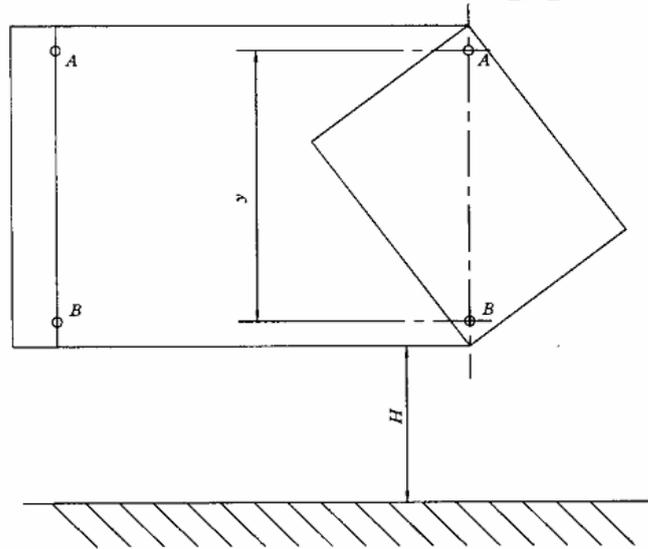
2. 测试设备:

设备名称	设备型号	设备编号	校准有效期
零位移跌落试验机	DL-1000	TTS-YQ-027	2012年02月13日

3. 试验方法及说明:

(1) 将托盘一角立起按如下图方式放置在跌落机上, 释放托盘, 使之自由跌落在一块平整、坚硬的钢板上;

(2) 跌落高度为 1m, 在同一角上进行三次跌落, 并记录对角线的变形量。



N 级托盘性能要求: 参见 GB/T 4995-1996

对角线最大变形量 $\leq 4\%$

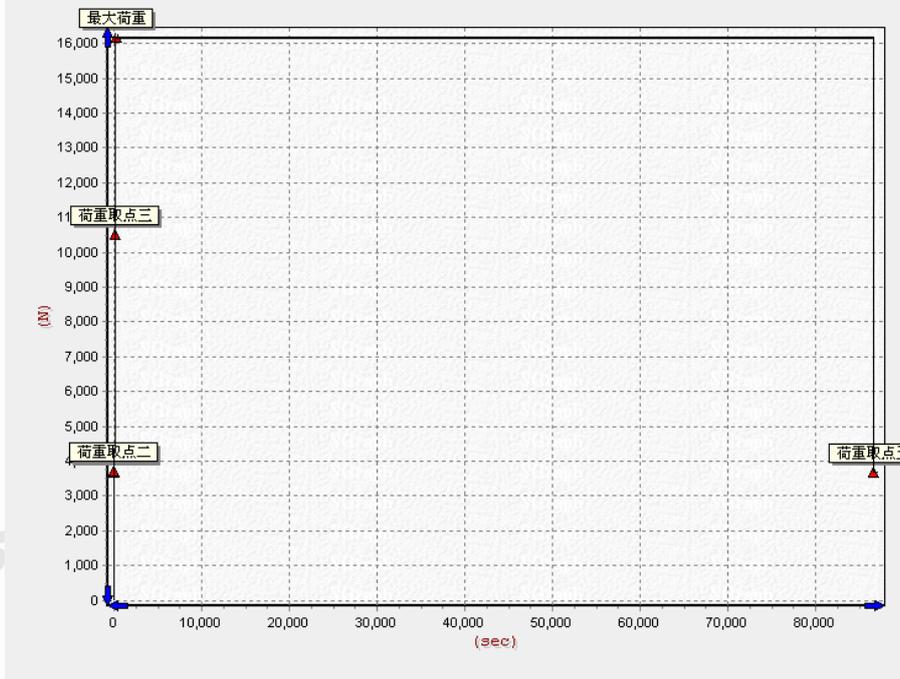
实际测试变形量:

测试结论:

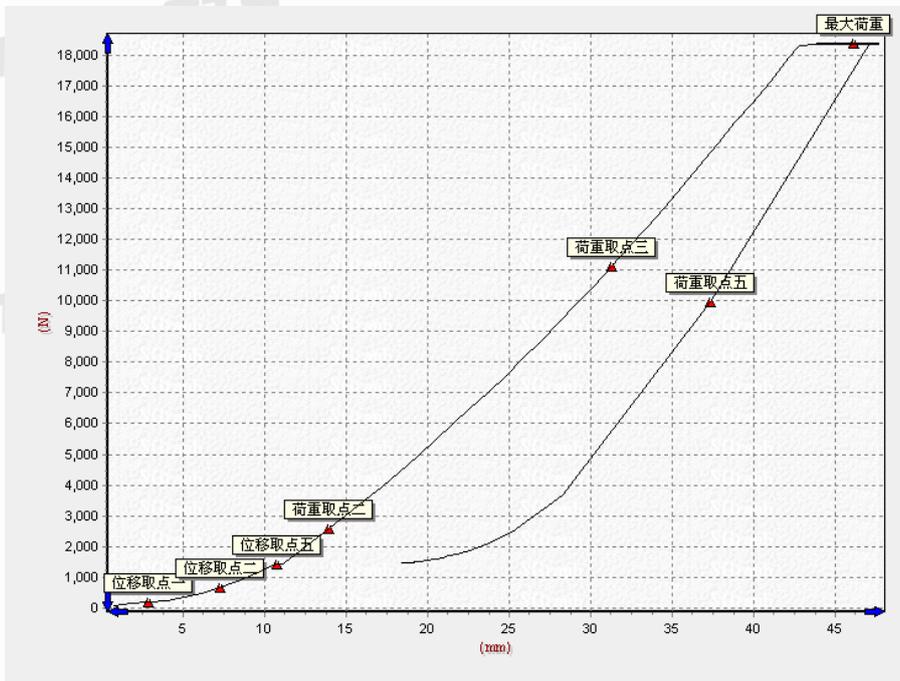


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附录 A: 试验曲线



堆码试验曲线



弯曲试验曲线



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附录 B: 试验照片

试验前:



样品

试验中:



堆码试验



弯曲试验



顶铺板边缘冲击



垫块冲击



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编号:

日期:

第 页 共 页



跌落

试验后:



跌落试验后托盘结构失效

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