



Mechanical & Hardgoods Lab

TEST REPORT

報告號碼： HL30388A/2012

頁數： 1

日期：2012年04月24日

系統家具有限公司
彰化市建和街28號

以下測試樣品係由客戶所提供及確認：

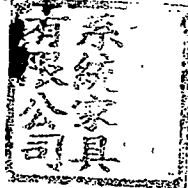
產品敘述： K/D 組合複合式鋁合金床組

我們依照客戶的要求,根據客戶送交之樣品進行測試結果如下：

測試要求：

1. 床組靜態載重試驗
2. 床組耐衝擊試驗
3. L型連接器抗壓試驗
4. 橫支架抗折試驗
5. 床腳抗壓試驗
6. 爬梯踏階抗壓試驗

本測試報告僅供送審資料用
非出廠報告



測試方法&結果：

-- 詳附頁 --

收樣日期： 2012年03月20日 & 2012年04月16日

試驗日期： 2012年03月20日 ~ 2012年03月30日 &
2012年04月16日 ~ 2012年04月24日

Signed for and on behalf of
SGS Taiwan Ltd.

蘇國銓
主任

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測試方法：

1. 床組靜態載重試驗

- 1) 將樣品置於平坦之地面上。
- 2) 分別於上 / 下床架放置一床板。
- 3) 放置均佈載重 1000 kg 於上 / 下床架上，持續保持 240 小時。(照片 C、D)
- 4) 移除載重，觀察並記錄樣品結構是否損壞。

2. 床組耐衝擊試驗

- 1) 將樣品置於平坦之地面上。
- 2) 分別於上 / 下床架放置一床板。
- 3) 放置一 70 cm × 70 cm 之鋁合金平板於床板中央。
- 4) 以 300 kg 之重量自高度 50 cm 處自由落下於衝擊平板。(照片 E、F)
- 5) 觀察並記錄樣品結構是否損壞

3. L 型連接器抗壓試驗

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- 1) 將樣品固定試驗平台上，如照片 J 所示。
- 2) 逐漸施加荷重於 L 型連接器末端，直到樣品損壞。
- 3) 記錄最大破壞荷重及破壞模式。
- 4) 試驗機台：INSTRON 5581，速率：500 kgf/ min.

4. 橫支架抗折試驗

- 1) 將樣品固定試驗平台上，如照片 N 所示。
- 2) 逐漸施加荷重於橫支架中央，直到樣品損壞。
- 3) 記錄最大破壞荷重及破壞模式。
- 4) 試驗機台：INSTRON 5581，速率：500 kgf/ min.
- 5) 施壓面積：50 mm * 50 mm 金屬平盤

5. 床腳抗壓試驗

- 1) 將樣品固定試驗平台上，如照片 K 所示。
- 2) 逐漸施加荷重於腳架上，直到樣品損壞。
- 3) 記錄最大破壞荷重及破壞模式。
- 4) 試驗機台：INSTRON 5581，速率：500 kgf/ min.



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6. 爬梯踏階抗壓試驗

- 1) 將爬梯至床組取下，放置於測試平台上。(照片 P)
- 2) 逐漸施加荷重於踏階中央，直到樣品損壞。
- 3) 記錄最大破壞荷重及破壞模式。
- 4) 試驗機台：INSTRON 5581, 速率：500 kgf/ min.
- 5) 施壓面積：76 mm * 76 mm 金屬平盤

測試結果：

1. 床組靜態載重試驗

試驗部位	均佈載重 (kg)	時間 (hour)	觀察
上層床 (照片 A 之上層)	1,000	240	無明顯可見之損壞發生。
下層床 (照片 A 之下層)	1,000	240	無明顯可見之損壞發生。

2. 床組耐衝擊試驗

試驗部位	衝擊載重 (kg)	平板面積	衝擊高度 (cm)	觀察
上層床 (照片 A 之上層)	300	70 cm × 70 cm	50	水平支撐桿變形 102 mm，但未發生斷裂及分解。(照片 G)
下層床 (照片 B)	300	70 cm × 70 cm	50	水平支撐桿變形 35 mm，但未發生斷裂及分解。(照片 H)

3. L 型連接器抗壓試驗

樣品	最大破壞荷重 (kgf)	觀察
L 型連接器	2192.7	L 型連接器變形。(照片 L)

4. 橫支架抗折試驗

樣品	最大破壞荷重 (kgf)	觀察
橫支架	278.4	橫支架彎曲變形。(照片 O)

5. 床腳抗壓試驗

樣品	最大荷重 (kgf)	備註
床腳	5000.0	床腳無明顯之損壞發生。

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✓ 6. 爬梯踏階抗壓試驗

樣品	最大破壞荷重 (kgf)	備註
踏階	218.5	爬梯踏階發生變形。(照片 Q)

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

127, Wu Kung Road, New Taipei Industrial Park, New Taipei City, Taiwan / 新北市新北大業園區五工路127號
t (886-2) 2798-3279

f (886-2) 2798-2920

www.sgs.tw

TWA 7433239