

PERFORMANCE EVALUATION REPORT OptiLedge

The OptiLedge series was subjected to multiple laboratory tests at Lansmont Testing Services. Lansmont is an ISO Certified and an ISTA Certified testing facility.

The tests pertinent to daily application of the OptiLedge were:

1. Safe Working Load Test on a pair of OptiLedges: Conducted using ASTM D4169 Schedule B: Warehouse Stacking. Tests were conducted at ambient temperature and elevated temperature (115°F).
2. Vibration Test: Random vibration test for 3 hours – Test Load determined by Test #2 ASTM D4169 Schedule E: Vehicle Vibration – 180 minutes. Truck Level III. Tests were conducted at ambient temperature and elevated temperature (115°F)

Product	24 hr. Compression Test Max Load (lbs) at Ambient Temperature	24 hr. Compression Test Max Load (lbs) at Elevated Temperature	Random Vibration Test Max Load (lbs) at Ambient Temperature	Random Vibration Test Max Load (lbs) at Elevated Temperature
HP85-760	12,000	6,000	3,850	3,150
LP45-760	10,000	5,000	3,400	3,000
HP85-991	7,000	4,000	3,000	2,800
LP45-991	8,500	4,800	3,400	2,950

Subsequent to the certified testing, design modifications were implemented to improve the compression resistance of the OptiLedge. The modifications were analyzed by an outside engineering firm using Finite Element Analysis (FEA) and compared to the designs tested as shown above. The design was rated by the engineering firm for a Safe Working Load – Warehouse Stacking of 6,000 lbs.