

Client: Seo Kyung TSC Co. Purchase Order No.: N/A
 Project No.: 059950 Date of Service: 02/01/2005
 Report No.: 901737

Project: **AXB 242 Cast Aluminum Panel (3,000 lb. Design Load)**

Identification: Concentrated Load Test of Access Flooring Systems

Method of Test: CISCA Recommended Test Procedures, Section I

General

The concentrated load tests were performed utilizing a Forney Universal Machine (S/N 81081) and the applied loads were measured with a Revere 50 kip load cell calibrated on May 25, 2004.

Deflection was measured with dial indicators accurate to 0.001 inch.

Concentrated Load Test Method

In accordance with CISCA Section I, three panels were tested at the panel center and three were tested at midpoint of one edge. Load was applied through a 1" x 1" square steel indenter. The panels were supported on rigid steel posts. In the center loading method and prior to testing, each panel was preloaded to the design load of 3,000 lbs. The load was relaxed and the panels reloaded to 50 lbs. where the dial indicator was zeroed (referenced zero). The panels were loaded in increments and deflections recorded up to the design load where deflection was recorded after one minute under load. The load was then relaxed to the referenced zero and permanent set was recorded. The edge loading test method was performed in the same manner. Results of these tests are given below.

Table 1

Load/Deflection Measurement								
Pounds Force	Panel Center Deflection, inches				Midpoint of Edge Deflection, inches			
	No. 1	No. 2	No. 3	Avg.	No. 1	No. 2	No. 3	Avg.
50 (Preload)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1500	0.026	0.026	0.025	0.026	0.031	0.031	0.030	0.031
1800	0.031	0.031	0.030	0.031	0.037	0.037	0.036	0.037
2100	0.036	0.036	0.036	0.036	0.043	0.043	0.042	0.043
2400	0.041	0.041	0.041	0.041	0.049	0.050	0.048	0.049
2700	0.046	0.046	0.046	0.046	0.055	0.056	0.054	0.055
3000	0.051	0.052	0.051	0.051	0.062	0.062	0.061	0.062
50 (Perm. Set)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 2

Deflection/Load Measurement								
Deflection (inches)	Panel Center Pounds Force				Midpoint of Edge Pounds Force			
	No. 1	No. 2	No. 3	Avg.	No. 1	No. 2	No. 3	Avg.
0.000	50	50	50	50	50	50	50	50
0.060	3458	3462	3474	3465	2936	2907	2986	2943
0.070	3981	3978	3997	3985	3394	3317	3381	3364
0.080	4434	4438	4463	4445	3576	3678	3690	3648
0.090	4862	4861	4903	4875	3838	3981	3971	3930
0.100	5259	5251	5299	5270	4087	4256	4242	4195
0.110	5635	5611	5668	5638	4324	4492	4495	4437
0.120	5982	5957	6017	5985	4541	4711	4736	4663

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