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Client: Seo Kyung TSC Co. Purchase Order No.: N/A  
 Project No.: 059950 Date of Service: 02/01/2005  
 Report No.: 901820

Project: **AXP 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	0.030	0.030	0.030	0.030	0.033	0.033	0.033	0.033
1800	0.036	0.036	0.036	0.036	0.040	0.039	0.040	0.040
2100	0.042	0.042	0.042	0.042	0.047	0.046	0.046	0.046
2400	0.048	0.048	0.048	0.048	0.053	0.052	0.052	0.052
2700	0.054	0.053	0.054	0.054	0.060	0.059	0.059	0.059
3000	0.060	0.060	0.059	0.060	0.068	0.066	0.066	0.067
50 (Perm. Set)	0.000	0.000	0.000	0.000	0.001	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	3000	3014	3074	3029	2702	2762	2749	2738
0.070	3431	3491	3488	3470	3091	3154	3160	3135
0.080	3849	3910	3919	3893	3362	3431	3454	3416
0.090	4238	4288	4309	4278	3626	3684	3710	3673
0.100	4588	4634	4667	4630	3851	3931	3996	3926
0.110	4915	4952	4999	4955	4068	4149	4212	4143
0.120	5227	5263	5310	5267	4273	4343	4409	4342

LIMITATIONS: The test results presented herein were prepared based upon the specific samples provided for testing. We assume no responsibility for variation in quality (composition, appearance, performance, etc.) or any other feature of similar subject matter provided by persons or conditions over which we have no control. Our letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced except in full without the written approval of Rone Engineers, Ltd.