

**REPORT OF LOAD TESTS ON CABLEDUCT 2000 SERIES FLOORBOX**

Summary No. 0321

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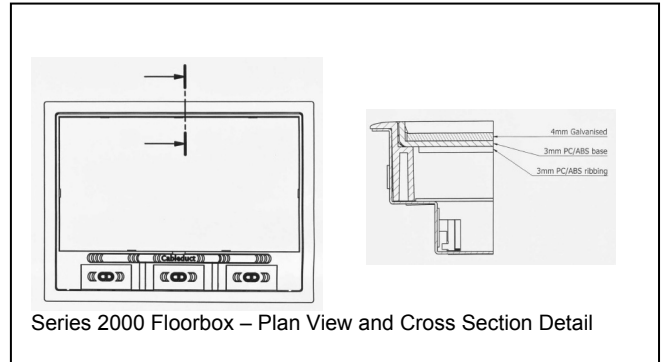
**Project**

On behalf of the client, Cableduct Ltd, CERAM Building Technology were requested to undertake a point load test on an installed 2000 Series floorbox.

**Client**



**Cableduct Ltd.**  
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**Test Method**

25x25mm Square point loading in the centre of an installed 2000 Series floorbox based on the test method T8.00 in PSA MOB PF2 PS/SPU "Performance Specification for Platform Floors". Deflection measurements were taken at every 1.5kN, as load was applied, up-to a maximum load of 4.5kN. This load was then held for 5 minutes. The tests were carried out in accordance with the requirements for a light grade system, which are:-  
 maximum deflection after 24 hours at 1.5kN  $\leq$  2.40mm  
 stability between 23 and 24 hours  $\leq$  0.02mm  
 permanent deformation  $\leq$  0.50mm  
 sustain 3 x safety factor load (4.5kN) for not less than 5 minutes

**Test Results**

**Results from the 25mm square loading test**

Load Applied (kN)	Deflection as Load Applied (mm)	Deflection After 5 minutes (mm)	Permanent Deflection After Removal of Load (mm)
0.0	~	~	~
1.5	1.92	~	0.16
3.0	3.72	4.33	0.24
4.5	5.01	5.03	~
9.0	~	10.4	1.7
24 hours loading @ 1.5kN	2.13		0.16

Failure occurred at 11.6kN

**Note:**

As the floorbox was tested within a panel, the panel deflection was monitored and has been removed as appropriate.

**Assessment**

The 2000 Series floorbox withstood the test load of 1.5kN (light grade) for 24 hours with a deflection of 2.13mm. The floorbox also withstood a load 4.5kN (heavy grade) with a deflection of 5.01mm. After the load had been held for 5 minutes the deflection had crept to 5.03mm, an increase of 0.02mm. The 2000series floorbox maintained a safety factor load of 9kN for 5 minutes without collapse (medium grade)

**Authorised by:**

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