

REPORT OF LOAD TESTS ON CABLEDUCT 700+ SERIES **FLOORBOX**

Summary No. 0322 Test Reference: SW033.07 Issue Date: 04/04/2007

Project

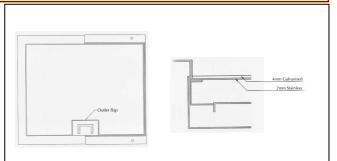
On behalf of the client, Cableduct Ltd. CERAM Building Technology requested to undertake a point load test on an installed 700+ Series floorbox.

Client



Cableduct Ltd. 30 Selhurst Rd London **SE25 5QF**

Series 700+ Floorbox - Plan View and Cross Section



Test Method

25x25mm Square point loading in the centre of an installed 700+ 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 3.0kN. This load was then held for 24 hours. The load was then increased until failure of the floorbox occurred. The tests were carried out in accordance with the requirements for a medium grade system, which are:-

maximum deflection after 24 hours at 1.5kN ≤ 2.40mm stability between 23 and 24 hours ≤ 0.02mm permanent deformation ≤ 0.50mm sustain 3 x safety factor load (9kN) for not less than 5 minutes

Test Results

Results from the 25mm square loading test

Load Applied (kN)	Deflection as Load Applied (mm)
0.0	~
1.5	1.05
3.0	2.02
24 hours loading @ 3kN	2.11
Permanent Deflection	0.01

Failure occurred at 19.96kN.

Note:

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

Assessment

The 700+ Series floorbox withstood the load of 3.0kN (medium grade) with a deflection of 2.02mm. After the load had been held for 24 hours the deflection had crept to 2.11mm, an increase of 0.09mm. Upon removal of the load the permanent deflection was recorded as 0.01mm. The 700+ Series floorbox maintained a safety factor load of 9kN without failure and failed at a load of 19.96kN. The 700+ Series floorbox passes the requirements for a medium grade system in accordance with the requirements stated in PSA MOB PF2 PS/SPU

Authorised by:

Dave Dix (Project Manager, Structures Group)

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