

CERTIFICATE OF TESTING



Leyland Technical Centre

CLIENT: Maxmade Limited
Reliance Works
Rainhill
Prescot
Merseyside L35 9JF

CLIENT'S REF: 3890

JOB NUMBER: MAX 0101

TEST PERIOD: 31/7/96 to 1/8/96

ISSUED TO: Mr. A.P.McCarthy

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Title: Load Carrying Capacity of Coldstore Ceiling

Test standard(s): Customer Specified

Test piece description: C2 Suspension Ceiling & Associated Fixtures

Date test piece received: 24/7/96

METHOD

A 5.250 metre length of C2 ceiling suspension was supported at 3 points (1.650 metre centres) using M12 BZP studding and fixtures assembled in accordance with Maxmade drawing numbers TH40 & TH40A.

Each support studding was attached to a load cell and grounded to the test rig fixture.

Load was applied to each flange of the beam via a wooden loading platen using sand bottles.

The load was arranged over a length of the beam to achieve the maximum load specified at each support point. See Figure 1 Photograph showing the test set up.

Dial test indicators were positioned at 2 support points and at a central position between the two supports and extrusion deflections recorded.

Load was then maintained on the C2 ceiling suspension for a period of 16 hours. All load was then removed and any residual deflections recorded.

RESULTS

A 5.250 metre length of C2 ceiling suspension and associated fixtures when assembled in accordance with Maxmade drawings TH40 and TH40A withstood a uniformly distributed load of 450kg/m. This being 1.5 times the design load of 300kg/m.

The applied load to each support point was 742.5kg which is based on a maximum span between supports of 1.65metres.

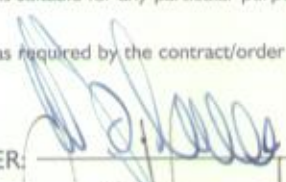

i.e. $1.65 \times 300 \times 1.5 = 742.5\text{kg}$ (7.28kN)

At maximum load a deflection of 2.84mm was recorded at a position central to the two supports points.

No representation or warranty is given that tests performed under the terms of the Contract constitute, in themselves, a sufficient programme for the customer's purpose, nor that customer's equipment tested is suitable for any particular purpose.

Certified that the specimens detailed hereon have been subjected to the tests as required by the contract/order unless otherwise stated above.



TEST ENGINEER: 
APPROVED BY: 
ISSUE DATE: 13/9.



Maximum load was then retained for 16 hours and upon removal of load a resulting permanent deformation of 0.35mm was recorded. No visual signs of structural failure were apparent when inspected.

At maximum load the worst case deflection at a support point was 0.2mm which resulted in a residual deflection of 0.05mm

TEST EQUIPMENT USED

3 off 50kN Mayes Load Cells

LDC 001, 003, 125

3 off Shape Readout Units

LOI 007, 009, 010

3 off Dial Test Indicators

DIG 036, 067, 148

Figure 1 Photograph showing a general view of the C2 Suspension Ceiling section under load.
Photo No. TC 105219

