Australian Standard®

Test methods for general access floors

Method 7: Test for 300 mm × 300 mm concentrated load

METHOD

1 SCOPE This Standard sets out the method for the static 300 mm × 300 mm loading test for floor panels.

2 PRINCIPLE Test specimens from the elevated floor system are tested for their load carrying capacities when subjected to static concentrated loads acting over a distribution area of 300 mm × 300 mm.

3 APPARATUS The following apparatus is required:

(a) *Indentor*—a steel plate 300 mm × 300 mm and not less than 10 mm thick with corners rounded to a radius of not more than 2.00 mm. It shall be weighed and the force exerted by this mass shall be deducted from the applied load.

(b) *Mounting framework*—a rigid substrate with the pedestals bonded by means of adhesive and any mechanical fixings submitted by the manufacturer.

NOTE: The tests should not be commenced until at least 48 ±5 h have elapsed from the time that any adhesive used to install the specimen were first applied.

(c) *Testing device*—a calibrated constant pressure ram complete with pressure gauge and pressure controller, mounted on an adjustable gantry, for applying the load. The device shall be capable of applying a load greater than the appropriate test load specified in AS 4154.

(d) *Measuring device*—a measuring device, accurate to 0.01 mm, suitable for indicating deflection measurements.

4 TEST SPECIMEN The test specimen shall be two floor panels with eight pedestals selected at random. The specimen shall be set at the maximum height of the type of system submitted.

5 PROCEDURE

5.1 Test location The test specimen shall be tested at the following locations:

(a) The centre of the first panel.

(b) The centre of edge of the second panel such that one edge of the indentor is contiguous with the panel edge and the centre-lines of indentor and panel are coincidental.

(c) An adjacent centre of edge of the second panel such that one edge of the indentor is contiguous with this edge and the centre-lines of indentor and panel are coincidental.