

Section 2

Ultimate Loading

Purpose:

To verify the ability of an access floor to accept the manufacturers' published ultimate load.

Preparation:

1. Tests shall be performed on three (3) randomly selected bare panels supported on an understructure support system identical to that utilized in an installed system. (Four (4) panels are required if panel configuration is not structurally symmetrical.)
2. Any coatings, stringers, gaskets, pads, clips, fasteners, or other materials as required by manufacturer shall be identical to that utilized in an installed system.
3. Finish floor height of the test mock-up shall be 12 inches or the maximum height of the system whichever is less.
4. Ultimate loading shall be applied through a steel indenter 1" (25.4 mm) square. This square indenter may have eased edges at maximum of .008" (0.20 mm) radii, but the footprint contact area shall not measure more than 1" x 1" (25.4 mm x 25.4 mm) square or a round indenter 1.128" (28.65 mm) diameter may be utilized in lieu of a square indenter provided the footprint contact area shall not exceed one square inch (645 mm²).
5. Safety restraining frames or configurations may be utilized in the test procedure to restrain horizontal movement of the tested mock-up if deemed prudent by the testing facility. Frames shall not interfere with vertical movement of the mock-up.

Test Procedure:

1. Testing shall be conducted with the load applied at the "weakest point" of the panel. The "weakest point" is to be determined by the independent certifying/test agency and is that panel location which results in the lowest ultimate load. In addition, testing may be conducted with loads applied at the panel locations, such as center of panel and mid-point of panel edge.

Report:

1. Reference of testing procedure described herein by CISCA A/F section number shall be included in report.
2. All apparatus, equipment, instrumentation, accuracy ranges, etc. shall be described including equipment calibration/certification dates.
3. Materials tested, mock-up configuration(s) and restraining frames, if used, should be fully described in verbiage or referenced to manufacturers' drawings and/or part numbers, either containing the following information:

Panels:

- Material(s) of panel construction.
- Weight, nominal dimensions and thicknesses.

Pedestals:

- Height.
- Material and cross-section.

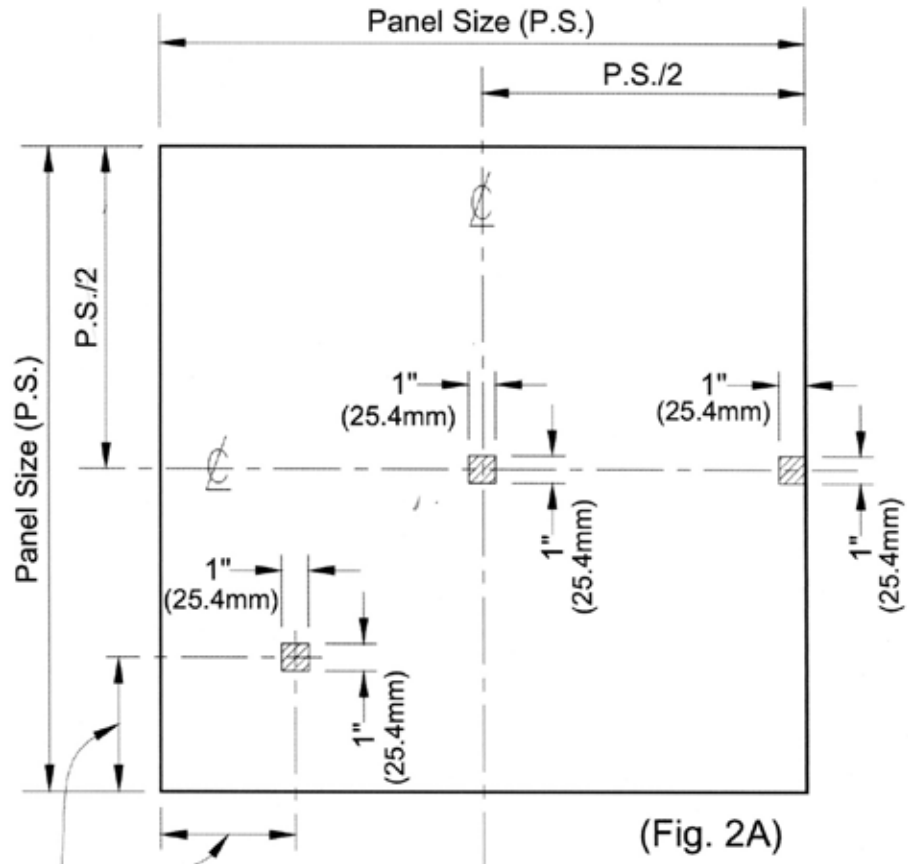
Stringers:

- Material(s) of construction.
- Weight, nominal dimensions and thicknesses, including fasteners, gaskets, coatings, clips, etc.

Other:

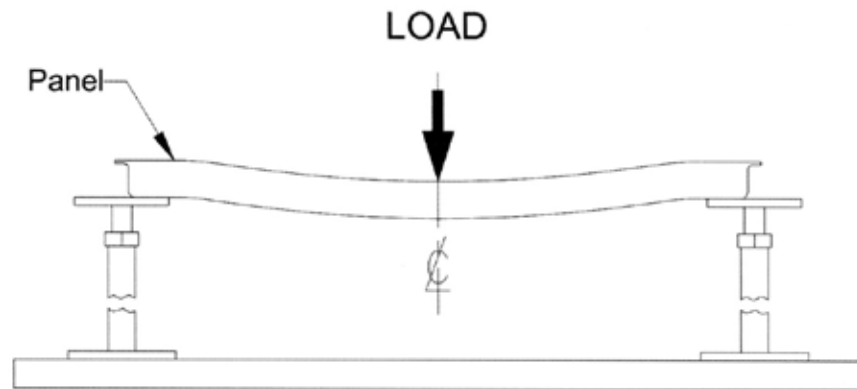
- Fully describe gasketing, pads, or other items utilized in the system.
4. The applied load for each panel at the weakest point, edge and centroid, shall be reported. Additionally, the applied load at other tested locations may be reported.

Section 2: – Panel Loading Locations



(Weakest Point)

This location to be determined
and reported by Testing Agency



SETUP FOR ULTIMATE LOAD TEST

(Fig. 2)