



DSA Structural Amendments under review are highlighted in GRAY and Marginal Markings

Template 25-02

2001 CBC - Chapter 25A
GYPSON BOARD AND PLASTER

Section - 2501A.1 - SCOPE

Subsection(s) - 2501A.5 - 2501A.5.3

1 **2501A.5 Suspended Acoustical Ceiling Systems for Public**
2 **School, Hospital and State-owned or State-leased Essential Ser-**
3 **vices Buildings.** Metal ceiling suspension systems used primarily
4 to support acoustical tile or other types of lay-in panels shall be
5 designed and installed in accordance with ASTM C 635, ASTM C
6 636 and this chapter. The member sizes, connections, support sys-
7 tems, light fixture and ventilating grille attachments, partition
8 supports and installation of bracing to resist lateral forces shall be
9 fully detailed on the approved plans and/or specifications.

10
11 **2501A.5.1 Scope.** ASTM C 635 and C 636 cover metal ceiling
12 suspension systems used primarily to support acoustical tile or
13 acoustical lay-in panels.

14
15 **2501A.5.2 Lay-in ceiling assemblies.** Lay-in ceiling assemblies
16 in exitways of hospitals and state-owned or state-leased essential
17 services buildings shall be installed with a main runner or cross
18 runner surrounding all sides of each piece of tile, board or panel
19 and each light fixture or grille. Splices or intersections of such
20 runners shall be attached with through connectors such as pop
21 rivets, screws, pins, plates with end tabs or other approved con-
22 nectors. Expansion joints shall be provided in the ceiling at inter-
23 sections of corridors and at junctions of corridors and lobbies or
24 other similar areas. The lay-in ceiling assembly shall also comply
25 with all the other requirements of these regulations.

26
27 **2501A.5.3 Classification.** The structural performance required
28 from a ceiling suspension system shall be defined in terms of a sus-
29 pension system structural classification.

30
31 *The load-carrying capacity shall be the maximum uniformly*

32 distributed load in pounds per linear foot (kN/m) that a simply
33 supported main runner section having a span length of 4 feet 0 in-
34 ches (1219 mm) is capable of supporting, without a midspan de-
35 flection exceeding 0.133 inch (3 mm) or 1/360 of the 4-foot 0-inch
36 (1219 mm) span length.

37
38 The structural classification listed in Table 25A-AA shall be de-
39 termined by the capability of main runners or nailing bars to sup-
40 port a uniformly distributed load. These classifications shall be:

41
42 **TABLE 25A-AA. MINIMUM LOAD-CARRYING CAPABILITIES**
43 **OF MAIN RUNNER MEMBERS**
44

MAIN RUNNER MEMBERS	DIRECT HUNG	SUSPENSION SYSTEM (pounds per lineal foot)	
		Indirect Hung	Furring Bar
Intermediate-duty	12.0	3.5	6.5
Heavy-duty	16.0	8.0	—

45
46
47 Ceiling suspension systems used shall be either intermedi-
48 ate-duty systems or heavy-duty systems. Ceilings that support
49 light fixtures, air-ventilation grilles or partitions shall have a clas-
50 sification of heavy-duty systems.

51
52 Cross runners shall be capable of carrying the design load as
53 dictated by job conditions without exceeding the maximum allow-
54 able deflection equal to 1/360 of its span. A cross runner that sup-
55 ports another cross runner is a main runner for the purpose of
56 structural classification and shall be capable of supporting a uni-
57 formly distributed load at least equal to the intermediate classifi-
58 cation.