



DSA Structural Amendments under review are highlighted in GRAY

**Template 25-05**

**2001 CBC - Chapter 25A**  
**GYPSUM BOARD AND PLASTER**

**Section - 2501A.1 - SCOPE**

**Subsection(s) - 2501A.5.7 - 2501A.5.7.5**

1 *2501A.5 Suspended Acoustical Ceiling Systems for Public*  
2 *School, Hospital and State-owned or State-leased Essential Ser-*  
3 *vices Buildings.*  
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7 ***2501A.5.7 Installation.***  
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9 ***2501A.5.7.1 Vertical hangers.*** *Suspension wires shall not be*  
10 *smaller than No. 12 gage spaced at 4 feet (1219 mm) on center or*  
11 *No. 10 gage spaced at 5 feet (1524 mm) on center along each main*  
12 *runner unless calculations justifying the increased spacing are*  
13 *provided.*

14  
15 *Each vertical wire shall be attached to the ceiling suspension*  
16 *member and to the support above with a minimum of three tight*  
17 *turns in 1-1/2 inches (38mm). Any connection device at the support-*  
18 *ing construction shall be capable of carrying not less than 100*  
19 *pounds (445 N).*

20  
21 *Suspension wires shall not hang more than 1 in 6 out of plumb*  
22 *unless counter-sloping wires are provided.*

23  
24 *Wires shall not attach to or bend around interfering material or*  
25 *equipment. A trapeze or equivalent device shall be used where ob-*  
26 *structions preclude direct suspension. Trapeze suspensions shall*  
27 *be a minimum of back-to-back 1-1/4-inch (32 mm) cold-rolled*  
28 *channels for spans exceeding 48 inches (1219 mm).*

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31 **2501A.5.7.2 Lateral force bracing.** Where substantiating de-  
32 sign calculations are not provided, horizontal restraints shall be  
33 effected by four No. 12 gage wires secured to the main runner with  
34 four tight twists in 1-1/2 inches (38 mm) and within 2 inches (51  
35 mm) of the cross runner intersection and splayed 90 degrees from  
36 each other at an angle not exceeding 45 degrees from the plane of  
37 the ceiling. A strut fastened to the main runner at the convergence  
38 of the splayed wires shall be extended to and be fastened to the roof  
39 or floor structural members above or to such other framing  
40 deemed acceptable to the enforcement agency. These horizontal  
41 restraint points shall not be placed more than 12 feet by 12 feet  
42 (3658 mm by 3658 mm) on centers for school buildings and 8 feet  
43 by 12 feet (2438 mm by 3658 mm) on centers for hospital and es-  
44 sential services buildings. There shall be a restraint point a dis-  
45 tance of not more than one half of the above spacing from each  
46 surrounding wall.

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48 Attachment of the restraint wires to the structure above shall be  
49 adequate for the load imposed.

50  
51 Lateral force bracing members shall be spaced a minimum of  
52 6 inches (152 mm) from all horizontal piping or ductwork that is  
53 not provided with bracing restraints for horizontal forces. Brac-  
54 ing wires shall be attached to the grid and to the structure in such a  
55 manner that they can support a design load of not less than 200  
56 pounds (890 N) or the actual design load, whichever is greater,  
57 with a safety factor of 2 without yielding.

58  
59 **2501A.5.7.3 Perimeter members.** Unless a structural part of the  
60 approved system, wall angles or channels shall be considered as  
61 aesthetic closures and shall have no structural value assessed to  
62 themselves or their method of attachment to the walls. Ends of  
63 main runners and crossmembers more than 12 inches (305 mm) in  
64 length shall be tied together to prevent their spreading.

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66 **2501A.5.7.4 Perimeter hangers.** The terminal ends of each  
67 cross runner and main runner shall be supported independently a  
68 maximum of 8 inches (203 mm) from each wall or ceiling disconti-  
69 nuity with No. 12 gage wire or approved wall support.

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71 **2501A.5.7.5 Attachment of members to the perimeter.** To facili-  
72 tate installation, main runners and cross runners may be attached  
73 to the perimeter member at two adjacent walls with clearance be-  
74 tween the wall and the runners maintained at the other two walls  
75 or as otherwise shown or described for the approved system.