

SUSPENDED ACOUSTICAL CEILING PER CBC 2007

THIS DRAWING DEPICTS MINIMUM CODE REQUIREMENTS PER CBC 2007. INFORMATION IS FOR REFERENCE ONLY AND IS NOT A SUBSTITUTE FOR ACCURATE DRAWINGS PREPARED FOR EACH PROPOSED CONSTRUCTION PROJECT.

SUPENDED ACOUSTICAL CEILING NOTES

REQUIRED REFERENCES

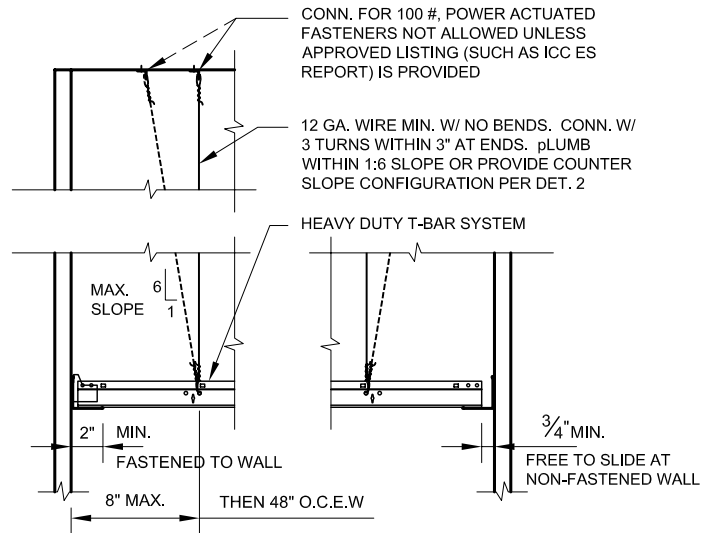
- SUSPENDED ACOUSTICAL CEILINGS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 635 AND ASTM C 636, AND, FOR SEISMIC DESIGN CATEGORIES D, E & F (ALL OF SANTA ROSA), IN ACCORDANCE WITH THE CISCA (CEILING AND INTERIORS SYSTEMS CONSTRUCTION ASSOCIATION) *GUIDELINES FOR SEISMIC RESTRAINT FOR DIRECT-HUNG SUSPENDED CEILING ASSEMBLIES (ZONES 3-4)* AS MODIFIED BY ASCE 7-05 SEC. 13.5.6.22 INCLUDING SUB-SECTIONS A-H. (CBC 803.9.1.1 AND ASCE 7-07 13.5.6.22)

T-BAR GRID & VERTICAL SUPPORT

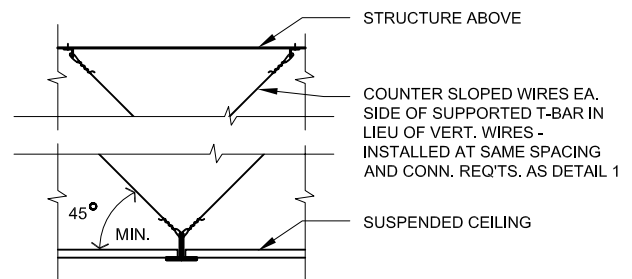
- THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE 2" MIN. WIDE (UNLESS LISTED CLIPS FOR THIS PURPOSE ARE USED, IN WHICH CASE PROVIDE COPY OF ICC ES REPORT AND REFER TO REPORT ON DRAWINGS/DETAILS.) IN EACH ORTHOGONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE, AND THE OTHER END SHALL REST ON THE SUPPORTING ANGLE WITH A 0.75" CLEARANCE TO THE WALL AND BE FREE TO SLIDE. (ASCE 7-05 SEC. 13.5.6.22 B) PERIMETER CLOSURE ANGLE ENDS, AND ENDS OF MAIN T-BAR AND CROSS T-BAR MEMBERS, SHALL BE TIED TOGETHER. (CISCA GUIDELINES FOR SEISMIC RESTRAINT)
- A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED AS DEFINED IN ASTM C 635 (ASCE 7-05 SEC. 13.5.6.22 A). THE MINIMUM MAIN T-BAR AND CROSS T-BAR CONNECTION STRENGTH SHALL BE 180 LBS. (CISCA GUIDELINES FOR SEISMIC RESTRAINT)
- MAIN AND CROSS RUNNERS SHALL BE SUPPORTED TO STRUCTURE ABOVE BY A MIN. 12 GAUGE VERTICAL SUPPORT WIRES, BEGINNING 8" MAX. FROM WALLS AND EVERY 4' O.C. BOTH WAYS. (CISCA GUIDELINES FOR SEISMIC RESTRAINT & ASTM C 636 2.1.3 & 2.1.6 & 2.3.2-4). VERTICAL SUPPORT WIRES SHALL BE PLUMB WITHIN 1:6 OR REPLACED WITH TWO COUNTERSLOPING WIRES AT 45 DEGREES MIN. TO HORIZONTAL. (ASTM C 636 2.1.4) VERTICAL SUPPORT WIRES SHALL BE ATTACHED WITH 3 TURNS AT ENDS WITHIN A 3" LENGTH. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT AND SHALL BE INSTALLED TO PREVENT ANY SUBSEQUENT DOWNWARD MOVEMENT. (ASTM C 636 2.3.2-4)
- THE CONNECTION DEVICE FROM VERTICAL WIRE TO THE STRUCTURE MUST SUSTAIN A MIN. 100 LBS. (CISCA GUIDELINES FOR SEISMIC RESTRAINT). SUSPENDED CEILING ANCHORS FOR TENSION IN CONCRETE OR MASONRY SHALL NOT BE POWER ACTUATED FASTENERS (UNLESS APPROVED AND LISTED FOR SUCH LOADING, IN WHICH CASE PROVIDE COPY OF ICC ES REPORT AND REFER TO REPORT ON DRAWINGS/DETAILS.) (ASCE 7-05 SEC. 13.4.5 & 13.4.6)

LATERAL SUPPORT

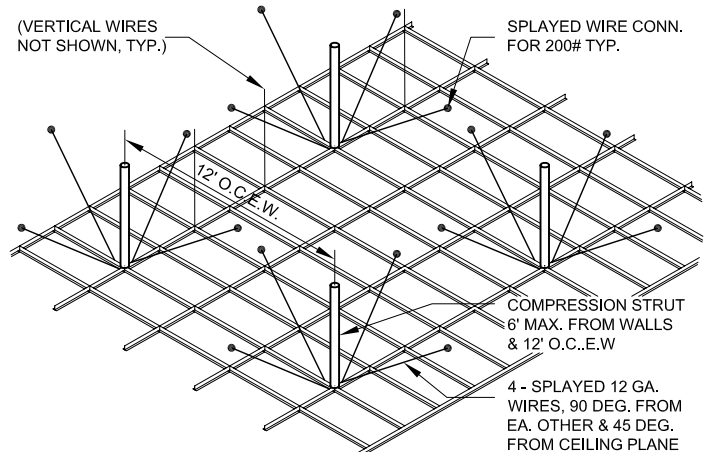
- FOR CEILINGS OVER 1,000 S.F., PROVIDE HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM (COMPRESSION STRUTS WITH 4 SPLAY WIRES). TRIBUTARY AREAS OF THE HORIZONTAL RESTRAINT SHALL BE APPROXIMATELY EQUAL. EXCEPTION, RIGID BRACES ARE PERMITTED TO BE USED INSTEAD OF DIAGONAL SPLAY WIRES (ASCE 7-05 SEC. 13.5.6.22 C).
- LATERAL FORCE COMPRESSION STRUTS SHALL BE OF EMT CONDUIT OR METAL STUDS OR OTHER APPROVED STRUTS. BRACES SHALL COMMENCE A MAX. OF 6' FROM WALLS AND BE SPACED A MAX. OF 12' O.C. THROUGHOUT. SPLAY WIRES AND BRACES TO BE SECURELY ATTACHED TO THE GRID AND THE SUPPORTING STRUCTURE. (CISCA GUIDELINES FOR SEISMIC RESTRAINT).
- SEISMIC SPLAY WIRES SHALL BE FOUR (4) 12 GAUGE. WIRES ATTACHED TO THE CEILING GRID WITHIN 2" OF THE STRUTS AND TO THE STRUCTURE ABOVE. SPLAY WIRES ARE TO BE ARRAYED 90 DEGREES FROM EACH OTHER AND A MAXIMUM OF 45 DEGREES FROM THE PLANE OF THE CEILING. SPLAY BRACING CONNECTION STRENGTH SHALL BE 200 LBS, OR DESIGNED PER ASCE 7-05 CHAPTER 13. (CISCA GUIDELINES FOR SEISMIC RESTRAINT)
- FOR CEILINGS OVER 2,500 S.F., PROVIDE A SEISMIC SEPARATION JOINT OR FULL-HEIGHT PARTITION WALL (FOR SEPARATION INTO 2,500 S.F. AREAS) UNLESS ADEQUATE DOCUMENTATION IS PROVIDED BY A LICENSED DESIGNER JUSTIFYING THE INSTALLATION. (ASCE 7-05 SEC. 13.5.6.22 D).
- CHANGES IN CEILING HEIGHT SHALL BE PROVIDED WITH POSITIVE BRACING. (ASCE 7-05 SEC. 13.5.6.22 F)



DETAIL 1 - TYPICAL CONNECTIONS



DETAIL 2 - COUNTER SLOPE OPTION



DETAIL 3 - LATERAL BRACING LAYOUT

NAME, ADDRESS AND PHONE NO. OF DESIGNER
XXX XXX XXX XXX
XXX XXX XXX XXX

WET SIGNATURE OF DESIGNER ON EACH SHEET
(AND PROFESSIONAL STAMP IF APPLICABLE)

**EXAMPLE
BUILDING**

1234 MAIN ST.
SANTA ROSA, CA 95404
APN # 000-000-000

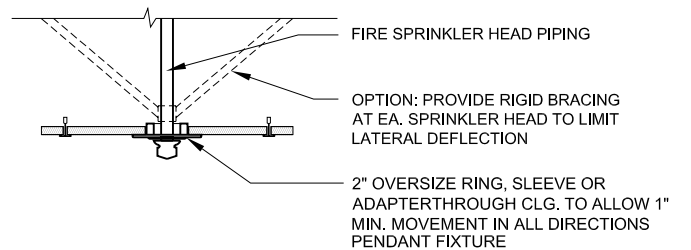
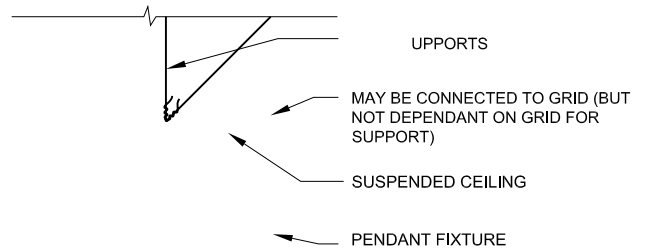
**SUSPENDED
CEILING DETAIL**

SAMPLE DRAWING

SCALE: N.T.S.
DATE: FEB. 17, 2008

SHEET NO.

SC-1



NAME, ADDRESS AND PHONE NO. OF DESIGNER
 XXX XXX XXX XXX
 XXX XXX XXX XXX

WET SIGNATURE OF DESIGNER ON EACH SHEET
 (AND PROFESSIONAL STAMP IF APPLICABLE)

**EXAMPLE
 BUILDING**

1234 MAIN ST.
 SANTA ROSA, CA 9540_
 APN # 000-000-000

**SUSPENDED
 CEILING DETAIL**

SAMPLE DRAWING

SCALE: N.T.S.
 DATE: FEB. 17, 2008

SHEET NO.

SC-2