

**ADDENDUM to EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
CALIFORNIA BUILDING STANDARDS COMMISSION (CBSC)**

**REGARDING ADOPTION OF AMENDMENTS TO 2010 CALIFORNIA BUILDING STANDARDS CODE,
TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), PARTS 2, 3, 4, 5 and 6 IN TITLE 24, CCR,
PART 11, 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE**

Legend for Express Terms:

1. **45-day and 15-day California amendment:** Amended California language will appear with new words underlined, and omitted language will appear in ~~strikeout~~.
2. **Requested amended language:** Amended, adopted, or repealed language will appear in double underline and ~~double strikeout~~ and highlighted in a gray tone.
3. **Reason for amendment:** The justifications for the change are shown after the proposed changes.
4. **Notation:** Authority and reference citations have been provided in the 45-day express terms.
5. **Code sections unchanged** and not shown are represented by . . .

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**CHAPTER 5
DIVISION 5.1 PLANNING AND DESIGN**

TABLE A5.106.8
Maximum Allowable Backlight, Uplight and Glare (BUG) Ratings^{1,2}

Allowable Rating	Lighting Zone 1	Lighting Zone 2	Lighting Zone 3	Lighting Zone 4
<u>Maximum Allowable Backlight Rating³</u>				
<u>Luminaire greater than 2 mounting heights (MH) from property line</u>	B3 <u>No Limit</u>	B4 <u>No Limit</u>	B5 <u>No Limit</u>	B5 <u>No Limit</u>
...				
<u>Luminaire front hemisphere is 1 – 2 MH mounting height to any from property line</u>	G0	G1	G1	G2
<u>Luminaire front hemisphere is 0.5 – 1 MH mounting height to any from property line</u>	G0	G0	G1	G1
<u>Luminaire back hemisphere is less than 0.5 MH mounting height to any from property line</u>	G0	G0	G0	G1

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Recommendation for “Approve as amended”

CBSC requests that this editorial amendment be approved by the Commission as a clarification to the code user. The intent was to substitute in all cases the acronym MH for “mounting height” to correspond to the IESNA table. However, the MH was inadvertently omitted from the last two lines of the table. The original change and the correction have no regulatory effect.

**CHAPTER 5
DIVISION 5.5 ENVIRONMENTAL QUALITY**

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**SECTION 5.507
ENVIRONMENTAL COMFORT**

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5.507.4 Acoustical control. Employ building assemblies and components with Sound Transmission ~~Coefficient~~ Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound

Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

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5.507.4.2 Performance method. For buildings located as defined in Sections A5.507.4.1 or A5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq} -1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site features. Exterior features such as sound walls or earth berms ~~vegetation and trees compliant with wildland-urban interface provisions of the California Fire Code~~ may be utilized as appropriate to the project to mitigate sound migration to the interior.

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SECTION 5.714 **ENVIRONMENTAL QUALITY**

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5.714.7.1.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have building addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.714.7.1.2 Performance method. For buildings located as defined in Sections A5.714.7.1.1 or A5.714.7.1.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building addition or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq} -1Hr) of 50 dBA in occupied areas during any hour of operation.

5.714.4.1.2.1 Site features. Exterior features such as sound walls or earth berms ~~vegetation and trees~~ may be utilized as appropriate to the addition or alteration project to mitigate sound migration to the interior.

Recommendation for “Approve as amended”

The sections on site features to assist with sound mitigation in Divisions 5.5 and 5.7 were added based on 45-day comment by representatives of the construction industry. They proposed examples of sound walls or vegetation or trees. However, CBSC staff, in discussions with acoustic engineers, learned that vegetation is not efficient as a means of mitigating sound; one would need a stand of trees hundreds of feet thick to make a significant difference. The experts proposed substituting “earth berms”, and CBSC staff intended to include the change for the 15-day comment period but inadvertently omitted it.

CBSC requests that this minor amendment be approved by the Commission as a clarification to the code user. These terms are embedded in a “such as” list of examples and further qualified by the phrase “as appropriate to the project”. As such, they have little regulatory effect, not being prescriptive rules. Hundreds of feet of trees would still be permitted if they were appropriate to the project and not in conflict with fire regulations; but sound walls and earth berms are better examples of means for compliance.

In Section 5.714.7.1.1.1, CBSC requests approval of a minor clarification for internal consistency among the sections dealing with acoustic control for existing buildings undergoing addition or alteration. In each section, language scoping each requirement to the area of the addition or alteration is intended to be included for clarity for the code user, but was inadvertently left out of this subsection.

DIVISION 5.7 **ADDITIONS AND ALTERATIONS TO EXISTING NONRESIDENTIAL BUILDINGS**

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SECTION 5.710 **PLANNING AND DESIGN**

5.710.6.1 Storm water pollution prevention. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities . . .

5.710.6.1.2. Best management practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.

1. ~~Erosion and sediment control BMPs~~ Soil loss BMP that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

- a. Scheduling construction activity
- b. Preservation of natural features, vegetation and soil

- c. Drainage swales or lined ditches to control stormwater flow
- d. Mulching or hydroseeding to stabilize disturbed soils
- e. Erosion control to protect slopes
- f. Protection of storm drain inlets (gravel bags or catch basin inserts)
- g. Perimeter sediment control (perimeter silt fence, fiber rolls)
- h. Sediment trap or sediment basin to retain sediment on site
- i. Stabilized construction exits
- j. Wind erosion control
- k. Other soil loss BMP acceptable to the enforcing agency

2. Housekeeping BMPs Good housekeeping BMP to manage construction equipment, materials, and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

- a. Material handling and waste management
- b. Building materials stockpile management
- c. Management of washout areas (concrete, paints, stucco, etc.)
- d. Control of vehicle/equipment fueling to contractor's staging area
- e. Vehicle and equipment cleaning performed off site
- f. Spill prevention and control
- g. Other housekeeping BMP acceptable to the enforcing agency

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SECTION 5.713
MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

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5.713.8.1.2 Waste management company. Utilize a waste management company, approved by the enforcing agency, that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section.

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5.713.10.4 Testing and adjusting. Testing and adjusting of new systems installed in to serve an addition or alteration subject to Section 5.701.1 shall be required.

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5.713.10.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable national standards on each system as determined by the enforcing agency.

Recommendation for "Approve as amended"

CBSC requests that these minor amendments be approved by the Commission as clarification to the code user. These changes were made in 15-day language in Division 5.4 for new construction based on comment from the commercial construction industry. CBSC intended to align the companion sections in Division 5.7 for additions and alterations but inadvertently omitted them from the 15-day express terms. These changes are requested to avoid conflicts between these companion provisions.

APPENDIX A5
NONRESIDENTIAL VOLUNTARY MEASURES

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DIVISION A5.3 WATER EFFICIENCY AND CONSERVATION

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SECTION A5.304
OUTDOOR WATER USE

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A5.304.2.1. Outdoor potable water use. For new water service not subject to the provisions of Water Code Section 535, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas between of at least 500 square feet and but not more than 1000 square feet (the level at which Section 5.304.2 applies).

Recommendation for "Approve as amended"

CBSC requests that this minor amendment be approved by the Commission as a clarification to the code user. This phrase was deleted in 15-day language in Divisions 5.3 for new construction and 5.7 for additions and alterations based on comment from the code advisory committee. CBSC intended to align the companion section in Division A5.3 for voluntary compliance but inadvertently left it off the 15-day express terms. This change is requested to avoid conflicts between these several companion provisions.