



CALIFORNIA BUILDING CODE (2006 IBC) PUBLIC PROPOSAL FORM

PLEASE SEE REVERSE FOR INSTRUCTIONS ON SUBMITTING PUBLIC PROPOSALS. PROPOSALS MUST COMPLY WITH THESE INSTRUCTIONS.

1) Indicate the format in which you would like to receive your Public Proposals Monograph (PPM), Report of the Hearing (ROH) and Final Action Agenda (FAA):

- Paper * CD *Download from ICC Website

(*Note: A paper copy will not be sent to you if you have chosen the CD or Download format.)

2) PLEASE TYPE OR PRINT CLEARLY: FORMS WILL BE RETURNED if they contain unreadable information.

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3) *Signature: _____ Signature on File (see over)

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4) Cost Impact: Indicate if this Proposal: will will not increase the cost of construction.

5) Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: IBC

If you have also submitted a separate coordination change to another I-Code, please indicate the code: _____
(See back of this form for list of names and acronyms for the International Codes).

6) Revision to: Section 710.7 Table _____ Figure _____

7) PROPOSAL Please check appropriate box:

- Revise as follows: Add new text as follows Delete and substitute as follows: Delete without Substitution(s):

Show the proposed NEW, REVISED or DELETED TEXT in legislative format: ~~Line through text to be deleted.~~ Underline text to be added.

710.7 Ducts and air transfer openings. Ducts penetrating smoke partitions where the ducts contain supply air discharge or return air intake openings on both sides of the smoke partition and air transfer openings in smoke partitions shall be provided with a smoke damper complying with Section 716.2.3.

Exception: Where the installation of a smoke damper will interfere with the operation of a required smoke control system in accordance with Section 909, approved alternative protection shall be utilized.

PROPOSAL *Continued* (Attach additional sheets as necessary)

8) SUPPORTING INFORMATION (State purpose and reason, and provide substantiation to support proposed change):

The purpose of this proposed amendment is to provide the same degree of protection for ducts that penetrate smoke partitions as is required for air transfer openings that penetrate smoke partitions. In other words, this proposed amendment will require smoke dampers to be installed in ducts that penetrate smoke partitions where the ducts have openings on both sides of the smoke partition which would allow smoke to transfer from the occupied spaces adjacent to the smoke partition to the other side of the smoke partition that is protecting the means of egress or other areas in the building. It should be noted that under the 2006 IBC a smoke partition is not required to have a fire-resistance rating. Therefore, currently under the IBC ducts that penetrate the smoke partition are not required to be protected with smoke dampers as would be the case if the smoke partition had a 1-hour fire-resistance rating and was treated as a smoke barrier as required by Section 716.5.5. It makes no sense to

require an air transfer opening in a smoke partition to be protected with a smoke damper but not a duct which has openings on both sides of the smoke partition.

Section 710.4 Continuity specifies that the smoke partition is required to extend from the floor to the underside of the floor or roof deck above or to the underside of the ceiling where the ceiling membrane is constructed to limit the transfer of smoke. Section 710.6 requires penetrations and joints in smoke partitions to be filled with an approved material to limit the free passage of smoke. Therefore, it follows that ducts with openings on both sides of the smoke partition should also be appropriately protected to limit the passage of smoke, i.e. by providing a smoke damper as proposed in this amendment. This is especially important since smoke partitions are used to enclose corridors in Group I-2 occupancies in accordance with Section 407.3 of the 2006 IBC. Since the corridor provides the means of egress for the occupants of these Group I-2 occupancies and because the occupants are incapable of self-preservation and must rely upon a defending in place evacuation strategy or rescue by the responding fire department, it is imperative that ducts that penetrate these smoke partition/corridor walls be protected with smoke dampers to prevent the transfer of smoke from occupied spaces into these corridors during a fire emergency.



SUPPORTING INFORMATION *Continued* (Attach additional sheets as necessary)