

<b>File No. 2010-001</b>	<b>INTERPRETATION</b>
<b>Interpretation Date:</b>	May 1, 2020
<b>Building Code Edition:</b>	MB Building Code 2010
<b>Subject:</b>	Fire dampers waived in horizontal fire separations and ceiling membranes.
<b>Classification &amp; Type of Building:</b>	Group C, 4 Storey, Part 3, Apartment buildings, Combustible construction, Sprinklered, 93 & 115 Units
<b>Referenced Permit Hold Numbers:</b>	20200000116, 20200000117
<b>Building Code Reference Articles:</b>	3.1.8.7, 3.1.8.8, 3.1.9.5, Appendix A-3.1.9, Appendix D-2.3.10 & 11
<b>Keywords:</b>	Fire dampers, Fire-rated assembly, Horizontal fire separation, Membrane ceiling, Openings in ceiling
<b>Interpretation Committee:</b>	Murray Fischer, Building Safety Manager Kurtis Quane, Inspector Randy Cumming, Inspector Josh Cory, Inspector
<b>Question:</b>	
<p>Sentence 3.1.8.7. (1) Requires fire dampers to be provided where ducts penetrate an assembly required to be a fire separation.</p> <p>Sentences 3.1.8.8. (1-6) Lists the allowable areas where dampers can be waived when noncombustible ducts penetrate a required fire separation.</p> <p>Sentence 3.1.9.5. (1) Permits openings through a membrane ceiling forming part of an assembly assigned a fire-resistance rating on the basis of Appendix D.</p> <ol style="list-style-type: none"> <li>1. Can a 4" dryer duct penetrate a ceiling membrane (one side) of an assembly required to have a fire resistance rating, travel in the ceiling space and exit to the outside of the building at a hood location?</li> </ol>	

**Interpretation:**

- 1. Yes. The non-combustible duct only penetrates the ceiling membrane (one side) of the assembly and does not exit the assembly at another location, if the duct penetrated the entire assembly (through penetration) then a fire damper would have been required.**

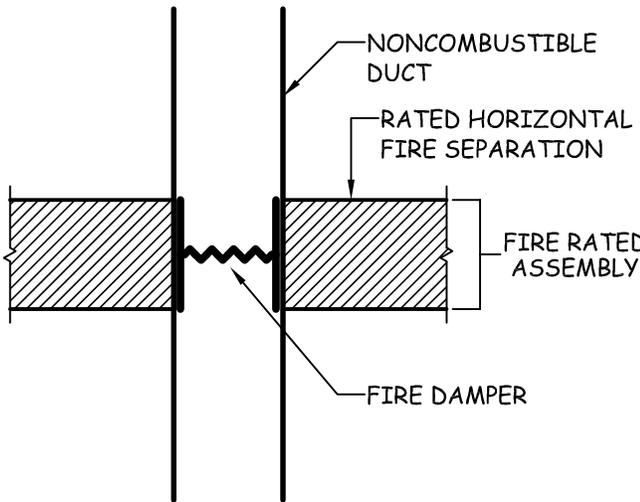
Sentence 3.1.9.5. (1) Indicates a membrane ceiling forming part of an assembly assigned a fire-resistance rating on the basis of Appendix D or Sentence 3.1.7.1. (3), is permitted to be penetrated by openings as set out in Appendix D, D-2.3.10 & 11. This is subject to meeting the specified limitations and configuration set out in Appendix D, D-2.3.10 & 11.

This code provision can be applied only to assemblies where a ceiling membrane is provided, on the basis of Appendix D or Sentence 3.1.7.1. (3), used to contribute entirely or partially to the overall floor or roof assembly fire rating (whether continuous as a fire separation or not). This would apply to any of the following assemblies having membrane ceilings forming part of the assembly fire-resistance rating:

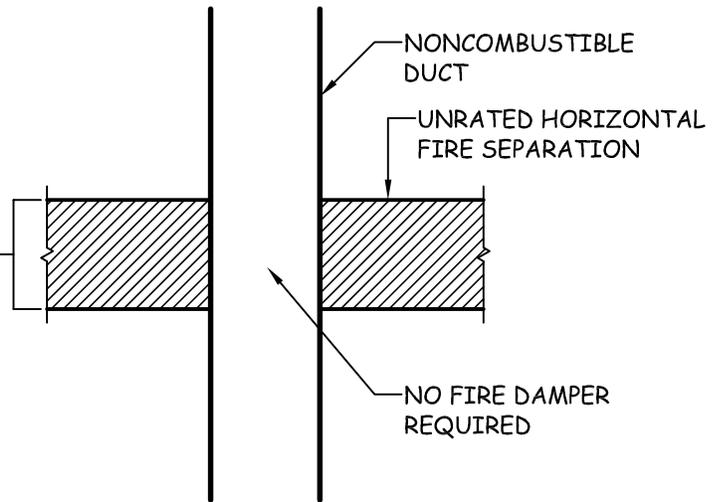
- Continuous horizontal fire separations with a fire-resistance rating and having a ceiling membrane as part of the fire-resistance rating derived from Appendix D or Sentence 3.1.7.1. (3).
- Floor or roof assemblies with a ceiling membrane as part of the fire-resistance rating, having a fire-resistance rating derived from Appendix D or Sentence 3.1.7.1. (3), but which are not necessarily a continuous fire separation (such as a mezzanine fire rated floor assembly).

\*See also Articles 9.10.8.11., 9.10.5.1. & 9.10.13.13. for Part 9 buildings\*

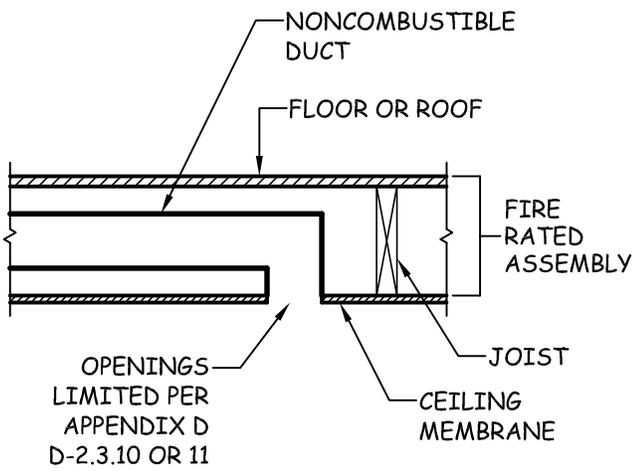
**The drawings on the following page illustrate schematically the various conditions discussed above.**



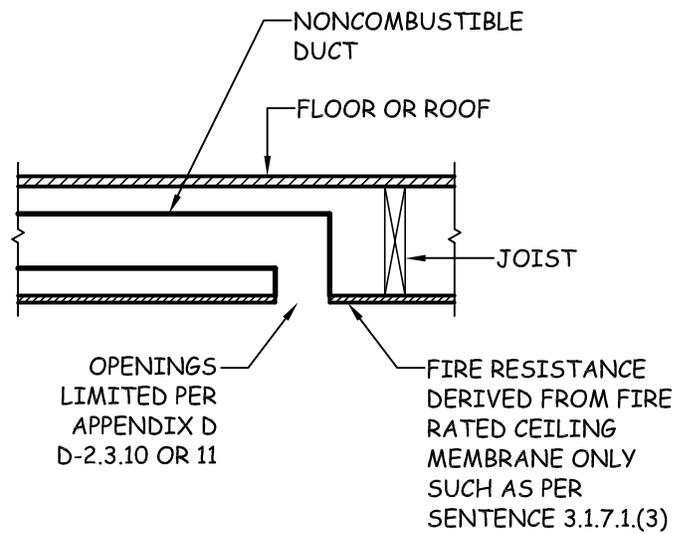
3.1.8.7.(1)



3.1.8.8.(3)



3.1.9.5.(1)  
Appendix D



3.1.9.5.(1)  
Appendix D