



RB14-026

SMOKE SEPARATION USING UNRATED WALLS

Reference: Alberta Building Code 2014 Sentence 3.3.1.4.(3) and Sentence 9.10.9.15.(2) and Appendix D-2.3.11.

Sentence 3.3.1.4.(3) "If a storey is sprinklered throughout, no fire-resistance rating is required for a fire separation between a public corridor and the remainder of the storey provided the corridor does not serve a care or detention occupancy or a residential occupancy. (See A-3.1.8.1.(1)(b) in Appendix A.)"

Sentence 9.10.9.15.(2) "In other than residential occupancies, no fire-resistance rating is required for fire separations between a public corridor and the remainder of the building if

- a) the floor area is sprinklered,
- b) the sprinkler system is electrically supervised in conformance with Sentence 3.2.4.10.(3), and
- c) the operation of the sprinkler system will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.8.(4)."

Appendix D-2.3.11. "Ceiling Membrane Openings – Noncombustible Construction"

Commentary | Relevant Facts | Conclusion:

This Regs Bulletin sets out requirements for smoke separation of public corridors.

Zero-rated fire separations for public corridors and other locations shall meet the following requirements:

- a) Ceilings of tile and T-bar type shall have hold down clips to prevent lifting due to pressure differentials.
- b) If return air openings are provided in corridor ceiling membranes, they should be provided with fire stop flaps.
- c) Openings for supply air into the public corridors shall be ducted and shall conform to D-2.3.11.
- d) These requirements may also be applied for other situations where only smoke separation is necessary between adjoining fire compartments.

Regulation Bulletin General Policy Statement

Unless stated otherwise, the Code references in this Regulations Bulletin are to Division B of the Alberta Building Code 2014 (ABC 2014). Regulation Bulletins do not overrule the ABC 2014 nor constitute a relaxation of the Code. They serve to clarify the Code in areas where the latter is ambiguous or does not cover a specific topic. Regulation Bulletins are City of Calgary clarifications for staff use to enable consistency in the application of the Code. Regulation Bulletins should always be read in the context of the appropriate requirements of the Code