



A horizontal duct opening is never “just a floor penetration.” Protection is a shaft, a fire damper at the floor line, a ceiling radiation damper (CRD), a tested assembly, or a qualifying exception. A CRD is not a fire damper. A static CRD is not a dynamic CRD. Specifying a static CRD in a system that runs during a fire is a listing violation.

Original Masterbuild PE packet from Daily Code Talk on 2024 IMC 607.6–607.6.3. Confirm the adopted edition. Distinct from CRD at corridor membranes (607.5.4) and shafts (607.5.5). This is not a damper schedule.

- ☐ **607.6: air-duct penetrations through floors, floor/ceiling assemblies, or roof/ceiling membranes — IBC 713 shaft, or 607.6.1 through penetrations:** a duct through a rated floor/ceiling connecting not more than two stories may avoid a shaft if a listed fire damper is at the floor line, or the duct is protected as a through-penetration firestop system per IBC 714.5.
- ☐ **Small-steel-duct exception (not Groups I-2 and I-3): three floors or fewer, no fire damper at each floor — only if every con**
607.6.2 membrane penetrations: generally a shaft or a listed CRD. The CRD is only valid as part of the specific tested floor/ceiling or roof/ceiling assembly. Dynamic listing if the system is designed to operate during a fire.
- ☐ **Static CRD only where the system is not designed to operate during a fire, unless a listed control closes the system and**
607.6.3 nonrated floors still need protection depending on stories connected and construction type. Exception: fire dampers not required in ducts contained entirely within an individual dwelling unit.

The fail we see first

Static CRD, exhaust that stays on in a fire. The damper is not listed for that condition. Before specifying any CRD, read the fan sequence.

What to send: where the duct crosses a floor or rated ceiling, how many stories it connects, the fan sequence (does it run in a fire?), and any CRD product named.

Send the comments. Not the County guideline.

Folio (does it start with 30?), process or UP number, and the comments PDF. Masterbuild will say which row is actually open.

masterbuildconsulting.com/send/

+1 (786) 398-6940 · Calendly: 30-minute scoping call

Masterbuild provides engineering services under a written scope. Not a damper schedule. Confirm adopted 607.6. This is not legal advice.