



IMC 505 is domestic cooking exhaust. IMC 507 is commercial hoods. Domestic-looking equipment used commercially still has to meet Type I / Type II — it does not stay on 505 because the appliance looks residential.

Original Masterbuild PE packet from Daily Code Talk on 2024 IMC 505 vs 507. Confirm occupancy, listing, and adopted FBC Mechanical edition. This is not a hood selection.

- ☐ **Stay on 505 when it is residential-type cooking in Group R (and domestic-style equipment that still qualifies as residential)**
Listed equipment: UL 507 (hoods/downdrafts), UL 923 (OTR microwave), ANSI Z21.1 / UL 858 (range with integral downdraft). No unlisted field-built assemblies.
- ☐ **Smooth rigid metal duct. No flex in the cooking exhaust path. No screen at termination. Outdoors unless 505.2 expressly**
505.4: if the domestic kitchen exhaust can exceed 400 cfm, makeup air at approximately the same rate, with a closure damper automatically interlocked with the hood. Draw path, damper, cfm, interlock.
- ☐ **505.5 multistory: shared riser in an IBC-rated shaft; rigid steel (min. 26-gage, SMACNA); backdraft dampers at each unit**
I-1 / I-2: IBC 420.9 path — Daily Code Talk: minimum 500 cfm hood, room ventilation per 403.3.1, outdoor discharge. Ductless only if listed with charcoal filter. If ANY appliance under a hood requires Type I, the entire hood is Type I.

The fail we see first

The 400 cfm decorative hood. Architect-specified domestic hoods often exceed 400 cfm. Missing makeup air, damper, and interlock is the redline. Commercial cooking hidden as “just a residential range” is the next one.

What to send: occupancy, menu or appliance list, hood cfm, and whether this is a dwelling, restaurant, or I-1/I-2. Cut sheets beat adjectives.

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 hood selection. Confirm adopted 505. This is not legal advice.