



IMC 509 is not general exhaust. It is a contained life-safety path for flammable, toxic, or corrosive emissions. Value-engineering it into a shared shaft or a damper is the comment.

Original Masterbuild PE packet from Daily Code Talk on 2024 IMC 509. Confirm the adopted edition, SDS, and AHJ. Distinct from 502.8 MAQ exhaust. This is not a hazardous-exhaust design.

☐ **Trigger (509.1–509.2): operations that could create > 25% LFL; NFPA 704 health-hazard 4 at any concentration; health-hazard 3 at any concentration.**

Labs have a limited exception with strict thresholds.

☐ **509.3: keep flammables in exhaust below 25% LFL via dilution. 509.4: incompatible materials cannot share a system.**

No common shafts with other ducts (lab exception only with negative pressure, controls, limits, redundant fans).

☐ **509.5: capture at the source. Makeup air ≈ exhaust, interlocked. Direct to outdoors — not through plenums. Fire/smoke damper.**

509.7–509.9: suppression generally required (exceptions, including labs as defined). Explosion relief/prevention per NFPA 69 when applicable. Supports ≤ 10 ft.

The fail we see first

Plenum shortcut / shared shaft. Document TRIGGER + CAPTURE + NO MIXING + DIRECT TO OUTDOORS + NO DAMPERS + SHAFT + MAKEUP INTERLOCK + SUPPRESSION/EXCEPTION + NFPA 69.

What to send: SDS / process description, whether anyone already called it “general exhaust,” and the shaft/penetration strategy if one exists.

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 hazardous-exhaust design. Confirm adopted 509. This is not legal advice.