



# City of Santa Monica Building and Safety Division

## Type I Hood Inspection Guide

***This list is to be used as a general guide.***

***It is not inclusive of all code requirements and inspection criteria.***

**Per California Mechanical (CMC) and Building Code (CBC)**

**California Code Available at [www.bsc.ca.gov](http://www.bsc.ca.gov)**

### **Rough inspection**

- Hood and duct per plan (shop or manufacturers drawings or listed assembly) CMC 508.2
- All hood and duct seams welded liquid tight from outside (smoke, light or equivalent test required) CMC 508.7, 510.5.3, 510.5.6
- One exhaust outlet per 12' of unlisted hood CMC 508.13
- Gas and electric shutoff: manual activation in egress path (NFPA 96) CMC 513.5
- Gas and electric shutoff: automatic upon activation of the fire extinguishing system CMC 513.4
- Ventilated shaft and duct clearances per CMC 510.7.3 (*see page 2 for assembly clearances*)
- Hood securely fastened with noncombustible supports CMC 508.5
- Duct systems construction-general requirements in CMC 510
- Duct slope ¼" per foot back toward hood (1" per foot slope when duct >75 feet horizontal) CMC 510.1.3
- Termination 10 feet from: property lines, adjacent buildings, air intakes, grade (some exceptions) and minimum 40" above roof CMC 510.9
- Terminations above roof per 510.9.1 and on wall per 510.9.2 CMC
- Continuous (minimum one hour) shaft, sealed at point of duct entry and vented to exterior CMC 510.7.1 less than 4 stories.
- Minimum two-hour shaft penetrating four levels or more CMC 510.7.2
- Duct inspected and approved and shaft seal around duct approved prior to shaft closure CBC 510.5.6 & 510.7
- Duct not allowed to pass through rated assemblies CMC 510.1
- Openings (cleanouts) every 12' (max.) in horizontal and every floor level in vertical ducts and at all change of direction CMC 510.3
- Openings for installation, servicing, and inspection of listed fire protection system devices per CMC 510.3
- Exterior ductwork components protected or noncorrosive stainless steel CMC 510.6.1
- Hood labeled indicating exhaust flow rate in cfm per linear foot 508.10.3



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**Table A. 3.3.38 Types of Construction Assemblies Containing Noncombustible, Limited-Combustible, and Combustible Materials**

Type of Assembly	Classifications for Determining Hood and Grease Duct Clearance *		
	Non-combustible	Limited-Combustible	Combustible
<b>Wall assemblies</b>			
Brick, clay tile, or concrete masonry products	X		
Plaster, ceramic, or quarry tile on brick, clay tile, or concrete masonry products	X		
Plaster on metal lath on metal studs	X		
Gypsum board on metal studs		X	
Solid gypsum board†		X	
Plaster on wood or metal lath on wood studs			X
Gypsum board on wood studs			X
Plywood or other wood sheathing on wood or metal studs			X
<b>Floor-ceiling or roof-ceiling assemblies</b>			
Plaster applied directly to underside of concrete slab	X		
Suspended membrane ceiling			
With noncombustible mineral wood acoustical material	X		
With combustible fibrous tile			X
Gypsum board on steel joists beneath concrete slab		X	
Gypsum board wood joists			X

Notes:

- (1) Wall assembly descriptions assume same facing material on both sides of studs.
- (2) Categories are not changed by use of fire-retardant-treated wood products.
- (3) Categories are not changed by use of Type X gypsum board.
- (4) See definitions in 3.3.38 of *combustible material*, *limited-combustible material*, and *noncombustible material*.

\*See clearance requirements in Section 4.2.

†Solid gypsum walls and partitions, 50.8 mm (2 in.) or 57.15 mm 2 ¼ in.) thickness, are described in the Gypsum Association publication *Fire Resistance Design Manual*.



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### Final inspection

- Hood extends minimum six inches past any cooking surface on open sides CMC 508.10.1
- Maximum 4' from lip of hood to cooking surface CMC 508.10.1
- Minimum 18" from cooking surface to filters (as great as possible) CMC 509.2.1
- Minimum 4' to filters from charbroiled (CMC 517)
- Solid fuel appliances (char broilers) required spark arrestor CMC 517.5.1
- Makeup air (MUA) fan is interlocked with hood exhaust fan CMC 511.3
- Automatic fire extinguishing system per CMC 513.6
- Fire extinguishing system requires manual pull station 42" to 48" above floor and readily accessible in exit path of travel, minimum 10' and maximum 20' from protected appliances CMC 513.5
- Grease filters must be tight fitting, readily removable and meet all requirements of CMC 509.2.3
- Minimum duct air velocity 500 feet/min., maximum 2500 feet/min. CMC 511.2
- Air balance required at final (CFM per engineer design) by a certified agency in accordance with CMC 511.3.1
- Exhaust system shall operate whenever cooking equipment is turned on CMC 514.1
- Rooftop terminations per CMC 510.9.1
  1. 3' above any air intake within 10'
  2. 10' from property lines
  3. Exhaust flow directed up and away from roof, minimum 40" above roof
- Electrical and roof access requirements
  1. Readily accessible disconnect for unit (within sight) and waterproof GFCI service receptacle within 25' on same level as rooftop equipment per CMC 303.8.5
  2. Fall protection for equipment within 10' of roof edge per CBC 1015.6
  3. Inside access required if roof is more than 15' above grade CMC 304.3.1
  4. Switch light at access CMC 304.3.2
- Fire department (final) approval of (ANSUL) fire suppression system
- Appliance fuel gas hookups per California Plumbing Code (CPC) 1212.1
- Minimum safety requirements and clearances between equipment under hood per 515 CMC
- Inspection and cleaning exhaust systems (ducts) by certified personnel on regular basis per Table 514.3 CMC
- California Energy Code (CEC) acceptance documentation NRCI-PRC-01 or NRCA-PRC-02