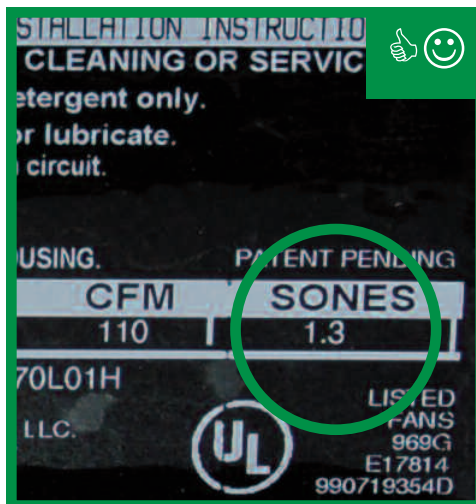
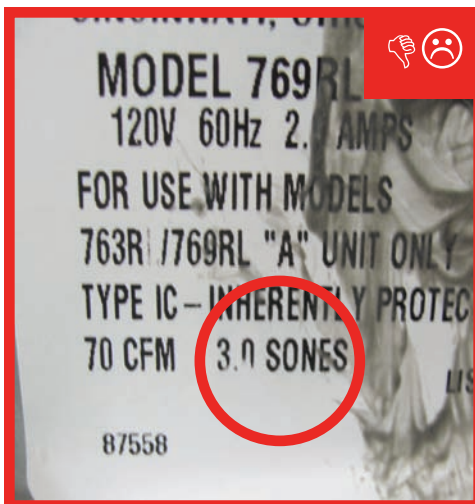


EXHAUST VENTILATION CRITICAL DETAILS

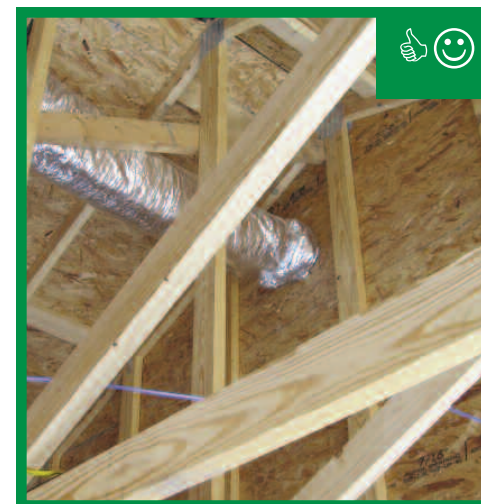
1

NOISE – Spot ventilation fans are Energy Star rated and ≤ 1 sone when continuously operated, or ≤ 2 sone when intermittently operated



3

TERMINATION – All exhaust fan ductwork exhausts outside the building. Air is not exhausted into an attic, soffit, ridge vent, crawl space, or other interior space



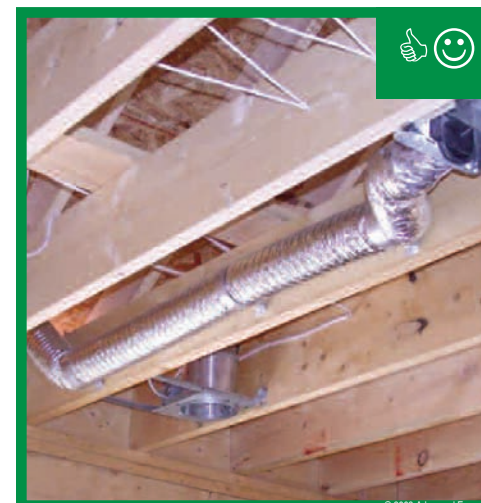
4

BENDS AND SUPPORT – Straight runs are used for exhaust ducts whenever possible. Exhaust ductwork is supported at least every 4 feet, has no bends greater than 90°, and has been stretched to its full length before installation.



4

BENDS AND SUPPORT – Straight runs are used for exhaust ducts whenever possible. Exhaust ductwork is supported at least every 4 feet, has no bends greater than 90°, and has been stretched to its full length before installation.



EXHAUST VENTILATION CRITICAL DETAILS

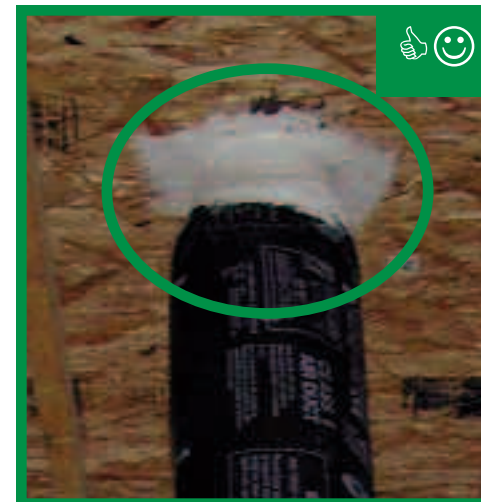
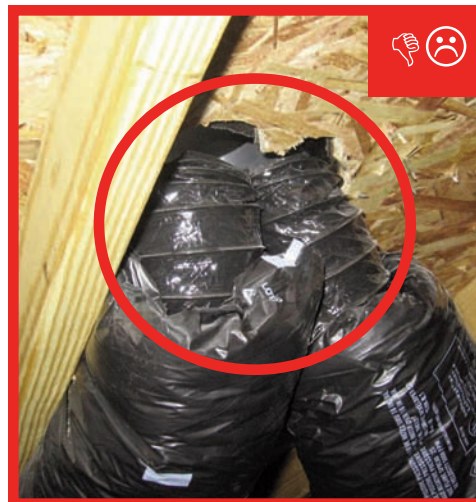
5

PENETRATIONS – All exhaust penetrations to exterior/unconditioned space (e.g. chases, shafts, etc) are air sealed with foam, caulk, or mastic. NO fibrous insulation is used to fill holes



6

ROOF JACK – All exhaust ducts are mechanically fastened and sealed with mastic to an exhaust roof jack of the same diameter as the duct



7

TERMINATION COVERS – Exhaust terminations are covered with a protective screen, louver, or grille.



Table M1507.3 Exhaust Rates for Residential Dwellings		
LOCATION	INTERMITTENT	CONTINUOUS
Range hoods/downdraft exhaust	150 CFM	25 CFM
Room with bathing/spa facility	80 CFM	20 CFM
Toilet room without bathing/spa facility and without windows	50CFM	

Table 1507.4 Prescriptive Exhaust Duct Sizing				
Field Rated CFM (@ .10 in. W.G.)	Duct Diameter (in.)	Max. Flex Duct Length (ft)	Max. Smooth Duct Length (ft)	Max. # of Elbows
50	4"	25	70	3 (Subtract 10' of max for each additional elbow)
	5"	90	100	
	6"	NO LIMIT	NO LIMIT	
80	4"	NOT PERMITTED	20	
	5"	15	100	
	6"	90	NO LIMIT	
100	5"	NOT PERMITTED	50	
	6"	45	NO LIMIT	
125	6"	15	NO LIMIT	
	7"	70	NO LIMIT	