Clearance to Combustibles and Framing Requirements

Table 1 shows the required MINIMUM AIRSPACE CLEARANCE TO COMBUSTIBLES. “Combustibles” include framing lumber, drywall, plywood, paneling, insulation, wiring and other building materials. This airspace clearance is required for safe operation of the vent. Failure to follow these clearances could overheat the building materials and could cause fire.

Pipe Size	Max Appliance Flue Gas Temperature	Minimum Clearance			
		Enclosed Vent		Unenclosed Vent	
		Vertical	Horizontal	Vertical	Horizontal
3" - 5"	230°F*	0"	0"	0"	0"
3" & 4"	480°F	4"	8"	1"	1"
3" & 4"	550°F	4"	N/A	1"	1"
5"	400°F	4"	N/A	1"	1"
	480°F	5"	N/A	1"	1"
	550°F	6"	N/A	1"	1"

Table 1. Minimum Clearance to Combustibles

* per ULC-S636

Vertical (Floor, Ceiling and Roof) Penetrations

Where the vent passes through a floor, ceiling or roof, the hole size or framing dimension must maintain minimum clearances per Table 1. Floor and Ceiling penetrations require a Fire Stop be installed. See Fire Stop section for installation instructions.

Horizontal (Wall) Penetrations

Horizontal systems passing through a combustible wall require the use of a Wall Thimble, for relative temperatures with clearances. See Table 2 for proper framing dimensions and refer to Wall Thimble section for installation instructions. Non-combustible wall penetrations do not require a Wall Thimble.

Pipe Size	Minimum Framing Dimensions
	Wall Thimble
3"	6.5" x 6.5"
4"	6.5" x 6.5"
5"	10" x 10"

Table 2. (Minimum Framing Dimension)

TYPICAL INSTALLATIONS

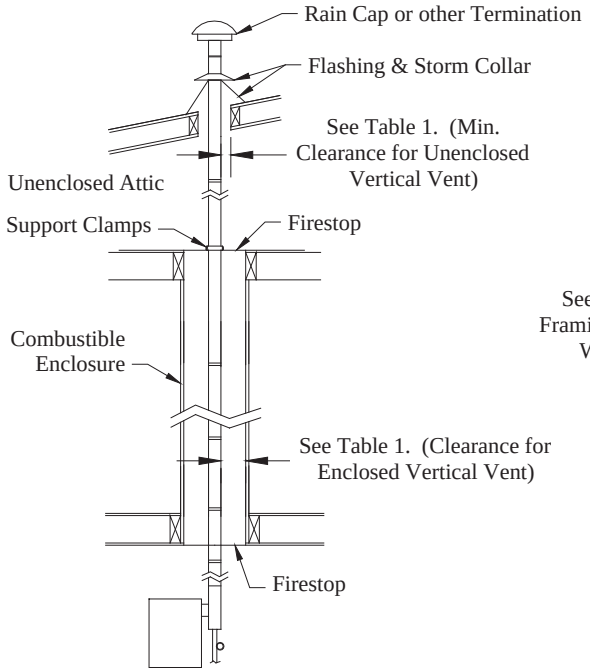

Fig 1. (Vertical Termination)

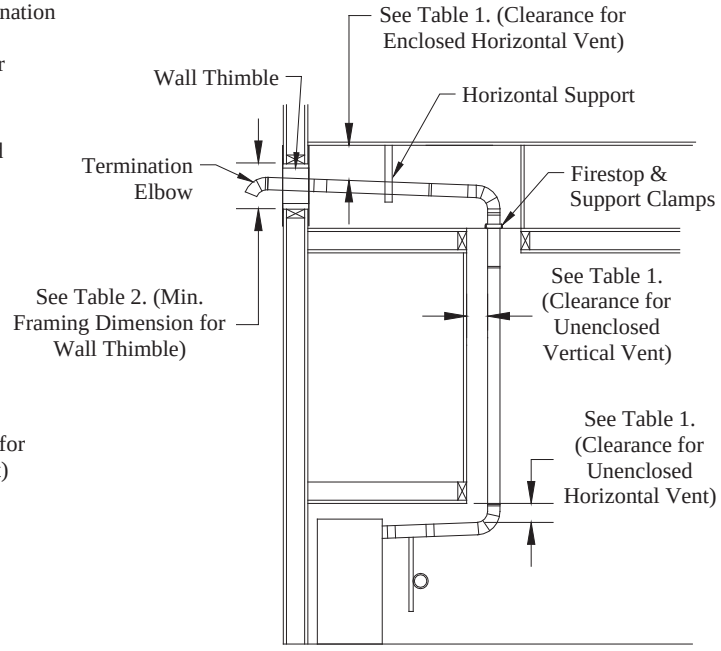

Fig 2. (Horizontal Termination)

Clearance to Combustibles and Framing Requirements

Table 1 shows the required MINIMUM AIRSPACE CLEARANCE TO COMBUSTIBLES. EZ Seal/EZ 316 - 6”-16” and model GC/GC 316 are primarily intended for installation in fire resistive, non-combustible surroundings or installed unenclosed. This airspace clearance is required for safe operation of the vent. Failure to follow these clearances could overheat the building materials and could cause fire.

Pipe Size	Max Appliance Operating Temperature	Minimum Airspace Clearance to Combustibles		
		Vert & Horiz Unenclosed		Minimum Framing Dimension (Through a Wall or Roof)
6-12"	230°F*	0"*	0"*	0": Enough to allow pipe passage
14-32"	194°F*	0"*	0"*	0": Enough to allow pipe passage
6-10"	300°F	1"	1"	N/A (Gas Vent Connector Only)
6-12"	550°F	2"	2"	(ID + 5") X (ID + 5")
14"	550°F	3"	3"	(ID + 5") X (ID + 5")
16"	550°F	4"	4"	(ID + 5") X (ID + 5")
18"	550°F	4"	4"	(ID + 7") X (ID + 7")
20-22"	550°F	5"	5"	(ID + 7") X (ID + 7")
24-26"	550°F	6"	6"	(ID + 7") X (ID + 7")
28-32"	550°F	7"	7"	(ID + 7") X (ID + 7")

*** Permitted to be fully enclosed with combustibles at 0” clearance per ULC-S636**

Vertical (Floor, Ceiling and Roof) Penetrations

All vertical penetrations where the vent passes through a combustible floor, ceiling or roof, require a Fire Stop (p/n 5x18CI) or Roof Jack be installed. See Table 1 for proper framing dimension and refer to the Fire Stop or Roof Jack Section for proper installation. Non-combustible Floor, Ceiling & Roof Penetrations do not require a Fire Stop or Roof Jack.

Horizontal (Wall) Penetrations

Horizontal systems passing through a combustible wall require the use of a Wall Penetration, for relative temperatures with clearances. See Table 1 for proper framing dimensions and refer to Wall Penetration section for installation instructions. Non-combustible wall penetrations do not require a Wall Penetration.

TYPICAL INSTALLATIONS

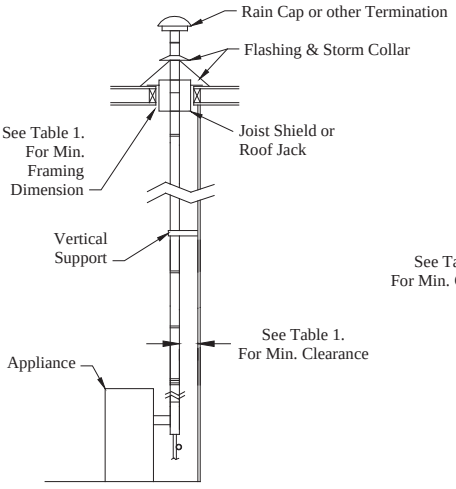

Fig 1. (Vertical Termination)

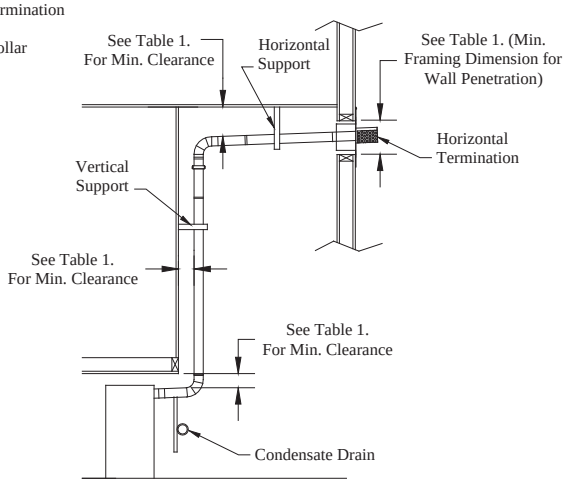

Fig 2. (Horizontal Termination)

In addition to the configurations shown in Figs. 1 & 2, this system may be installed in any combination of vertical and horizontal, unenclosed configurations as long as the minimum clearances are maintained per clearance Table 1 and the total length and number of fittings does not exceed the appliance manufacturers recommendations. This system may also be installed within an existing masonry chimney.