

CLEARANCES

WARNING: Follow these instructions carefully to ensure safe installation. Failure to follow instructions exactly can create a fire hazard.

UNIT MUST SIT ON NON COMBUSTABLE SURFACE

The appliance must be installed on a non-combustible floor. If installed on, for example, carpet or vinyl flooring, the appliance shall be placed on a plate of non-combustible material extending the full width and depth of the appliance.

All clearances to combustible and non-combustible materials must be maintained as described in this manual.

Clearances are in accordance with local installation codes and the requirements of the gas supplier.

Never use combustible materials during the installation.

During installation of the appliance, a clearance of ⅛" (3 mm) should be maintained on all sides of the appliance to allow for expansion of the appliance during operation.

Do not insulate the appliance! Only the top and sides may be fitted with a strip of white, loose insulation wool (heat-resistant to 1832°F (1000°C)), width 6" (15 cm) max. to protect the wall.

Do not use fibreglass or Rockwool, or any other sort of insulating material. These emit a pungent odour. This is considered extremely unpleasant. They may also cause discolouring of the column.

Combustible materials, such as curtains, should not be placed in the vicinity of the appliance. Minimum safe distance: 40" (100 cm).

Never place the appliance directly to a combustible or non-combustible rear wall and side wall.

CLEARANCES

Clearances to combustible material

Minimum clearances to combustible sides:

Always place a non-combustible insulation plate/board(*) (false back wall) between the appliance and the rear wall and the side wall according to figure 1.

The minimum thickness of the non-combustible insulation plate/board(*) and the minimum clearances to combustible material as shown in figure 1 must be maintained.

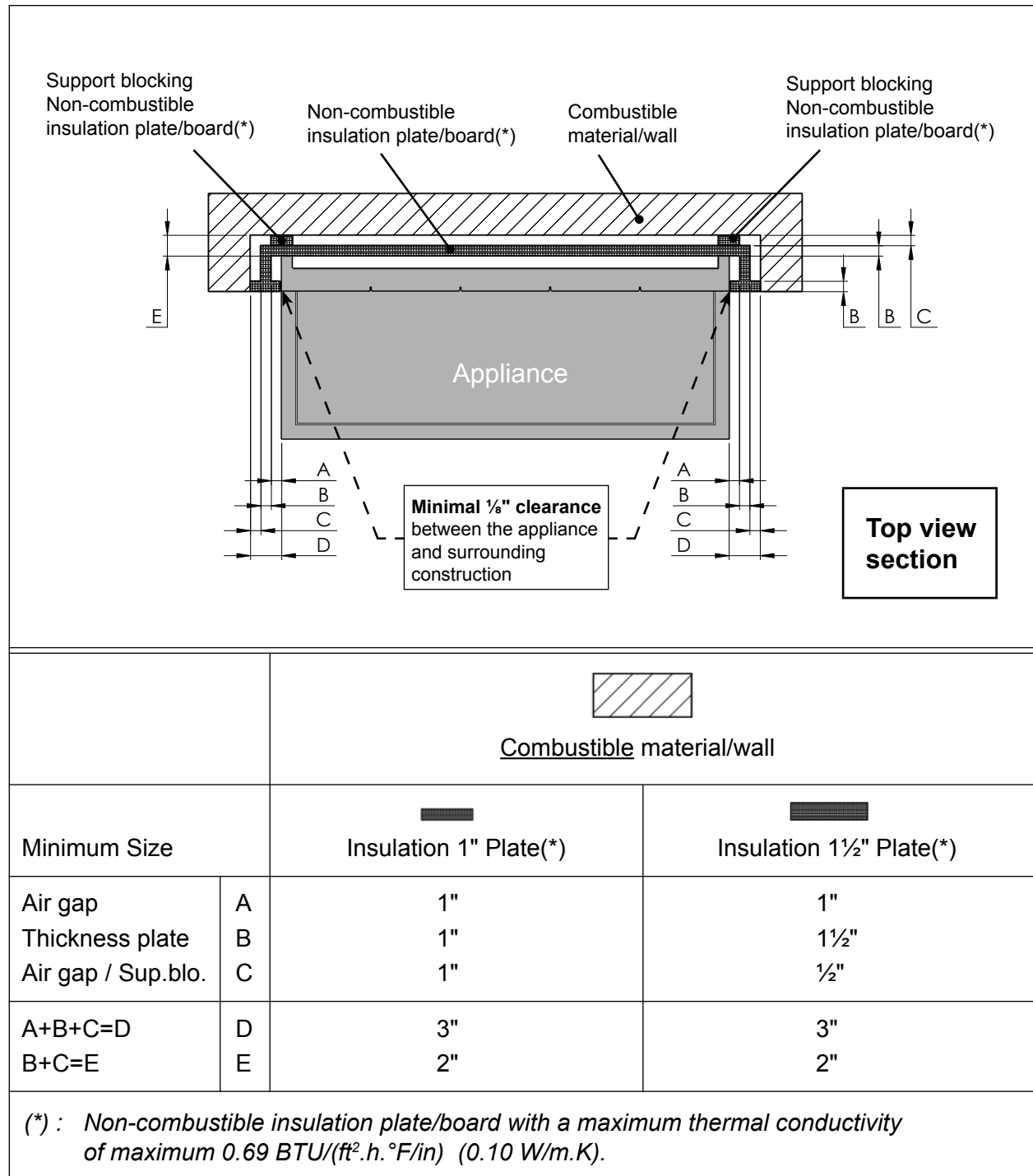


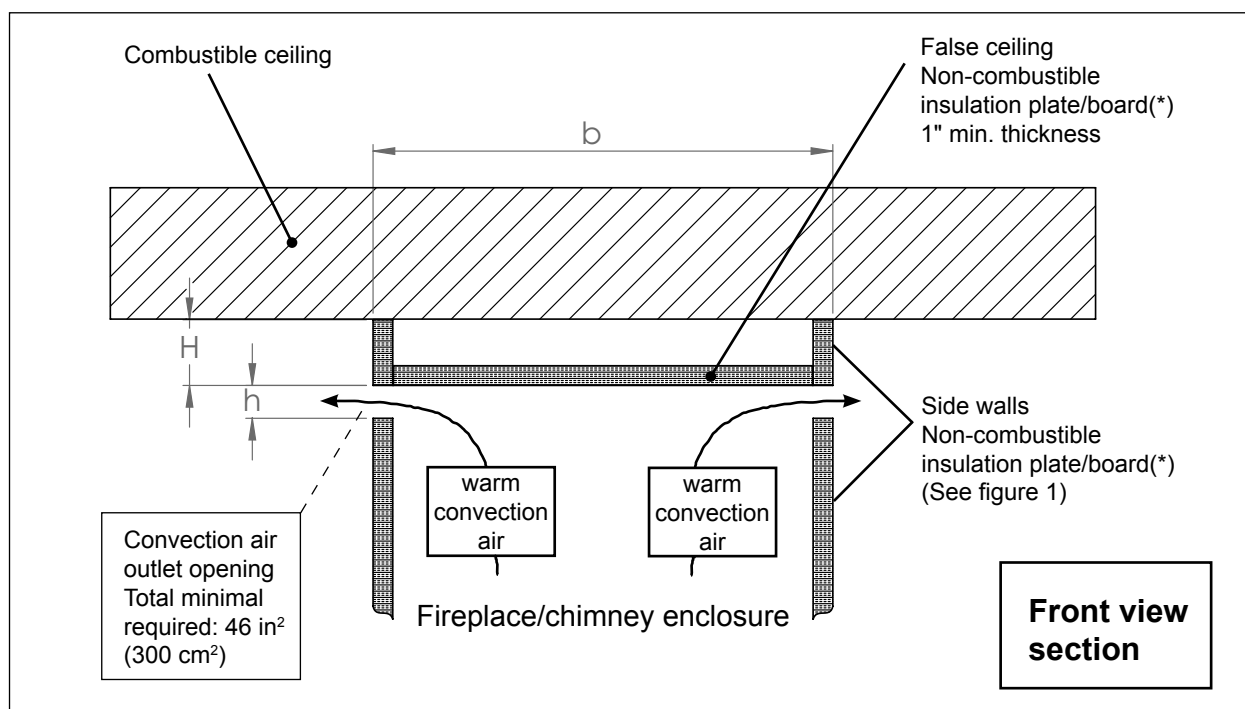
Figure 1: Clearances to combustible sides & The minimum required thickness of the non-combustible plate/board(*)

CLEARANCES

Clearances to combustible material

Minimum clearances to combustible ceiling (and non-combustible ceiling):

Place a non-combustible insulation plate/board(*) (false ceiling) with a thickness of min. 1" (2.5 cm) at a height of minimum 20" (50 cm) above the appliance. Maintain a free space of minimum 4" (10 cm) between the insulation plate and a combustible ceiling. Alternative: Without a false ceiling: Create an open space of minimum 20" (50 cm) height (h) between the combustible ceiling and the chimney enclosure. (Full width and depth).



	Size	Minimal sizes for the convection air outlet opening in the chimney enclosure	
		Combustible ceiling	
		With false ceiling (*): Min. 1" thick	Alternative: Without false ceiling
Height of convection air outlet opening	h	Minimal 2" (min. required opening is 46 sq ins.)	Minimal 20" (50 cm)
Width of the convection air outlet opening	b	Minimal 23", at a height of 2" (min. required opening is 46 sq ins.)	Full width and depth of the chimney enclosure
Height of false ceiling(*)	H	Minimal 5" (= 4" free space + 1" false ceiling)	N.A. (0")
(*) : Non-combustible insulation plate/board with a maximum thermal conductivity of 0.69 BTU/(ft².h. °F/in) (0.10 W/m.K).			

Figure 2: Clearances to combustible ceiling & Minimal sizes for the convection air outlet opening

Minimum clearances to combustible floor (under the appliance):

Place on the floor under the appliance a non-combustible insulation plate/board(*) with a thickness of min. 1" (2.5 cm). Use under the feet of the appliance: tiles (± 4" x 4") of ½" concrete board.

CLEARANCES

Clearances to non-combustible material

Minimum clearances to non-combustible sides:

Always place a non-combustible insulation plate/board(*) (false back wall) between the appliance and the rear wall and the side wall according to figure 3.

The minimum thickness of the non-combustible insulation plate/board(*) and the minimum clearances to non-combustible material as shown in figure 3 must be maintained.

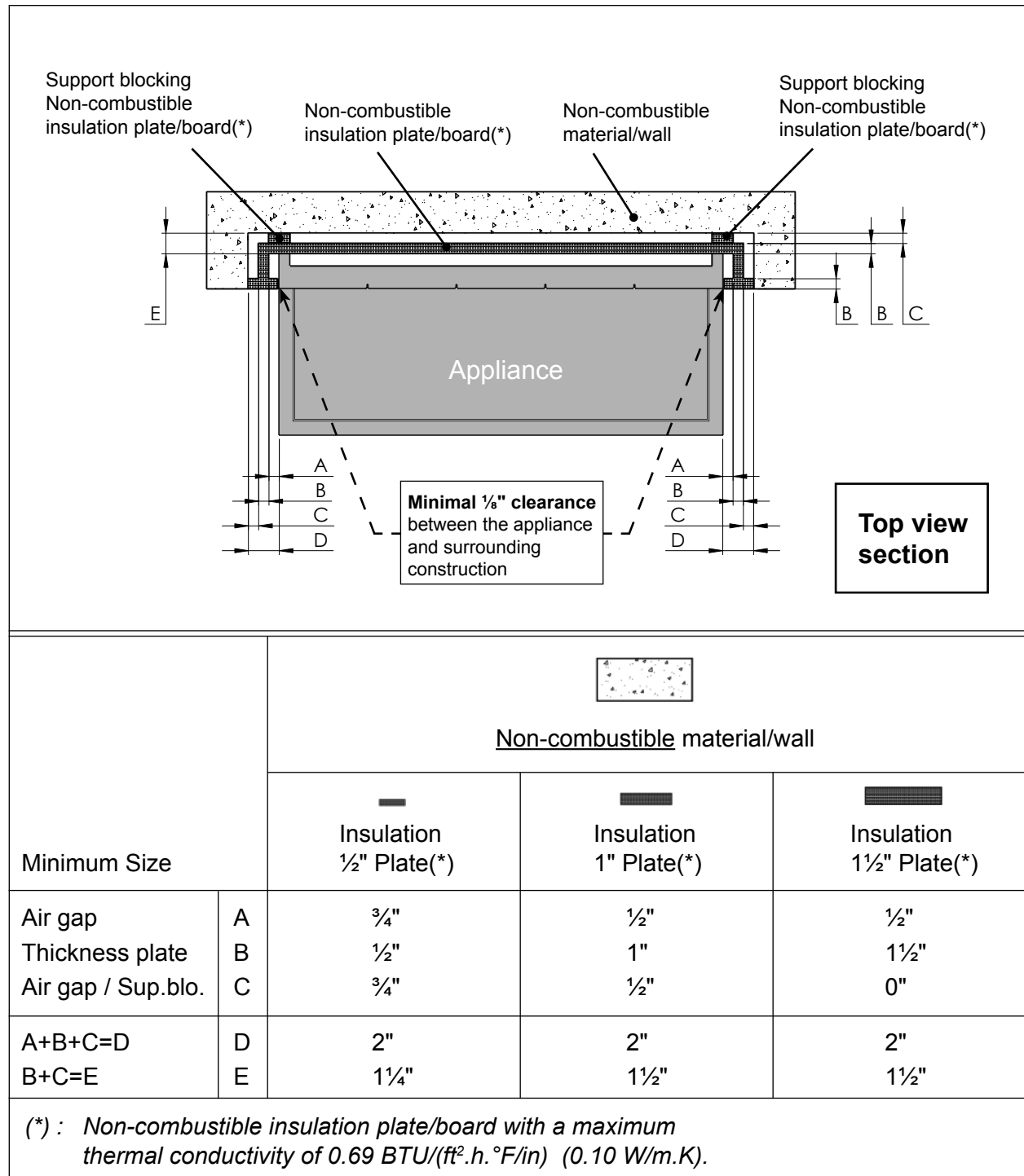


Figure 3: Clearances to non-combustible sides & The minimum required thickness of the non-combustible plate/board(*)

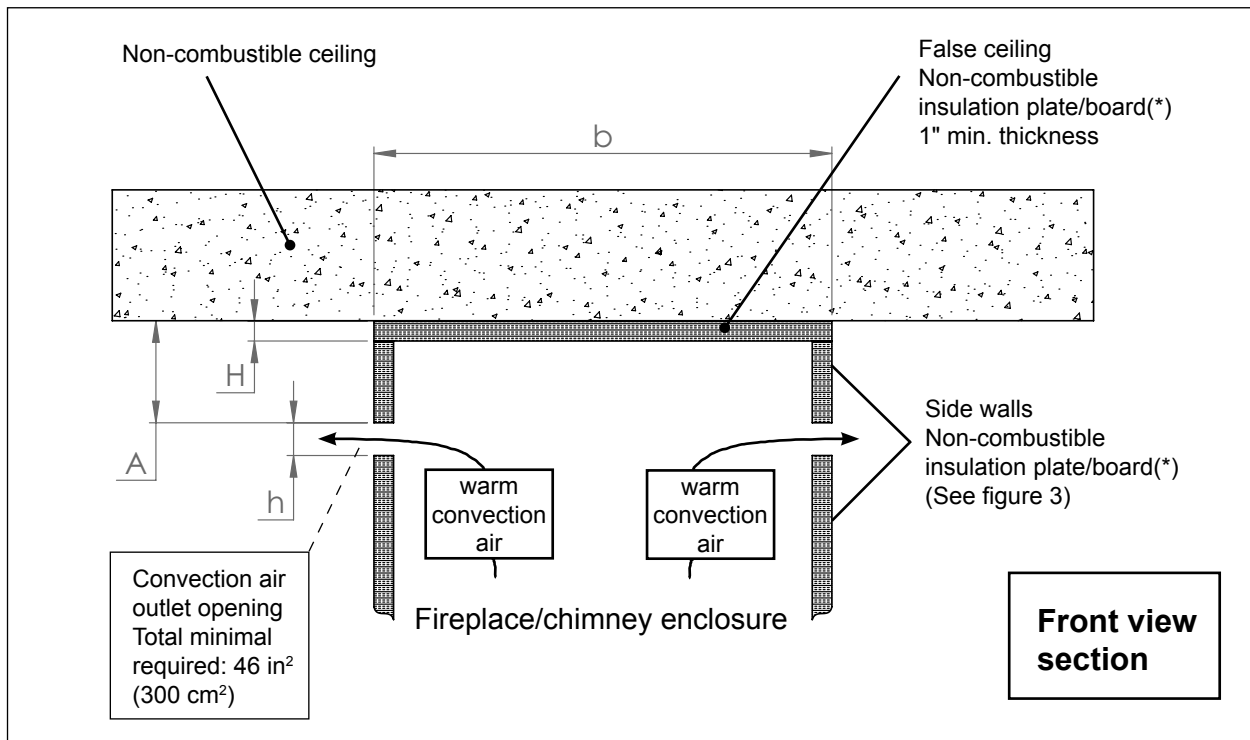
CLEARANCES

Clearances to non-combustible material

Minimum clearances to non-combustible ceiling:

Place a non-combustible insulation plate/board(*) (false ceiling) with a thickness of min. 1" (2.5 cm) at a height of minimum 20" (50 cm) above the appliance.

Alternative: Without a false ceiling: Create an open space of minimum 8" (20 cm) height (h) between the non-combustible ceiling and the chimney enclosure. (Full width and depth.)



	Size	Minimal sizes for the convection air outlet opening in the chimney enclosure	
		Non-combustible ceiling	
		With false ceiling (*): Min. 1" thick	Alternative: Without false ceiling
Height of convection air outlet opening	h	Minimal 2" (min. required opening is 46 sq ins.)	Minimal 8" (20 cm)
Width of the convection air outlet opening	b	Minimal 23", at a height of 2" (min. required opening is 46 sq ins.)	Full width and depth of the chimney enclosure
Height of false ceiling(*)	H	Minimal 1" (= 1" false ceiling)	N.A. (0")
Distance between ceiling and convection air outlet opening	A	Minimal 5"	0"

(*) : Non-combustible insulation plate/board with a maximum thermal conductivity of 0.69 BTU/(ft².h.°F/in) (0.10 W/m.K).

Figure 4: Clearances to non-combustible ceiling & Minimal sizes for the convection air outlet opening

Minimum clearances to non-combustible floor (under the appliance):

Place the appliance directly on the non-combustible floor.

CLEARANCES

Ventilation

Ventilate the fireplace/chimney breast:

- all spaces between the appliance and the insulation plates
- all spaces between the insulation plates and all surrounding walls by allowing vents above.

With false ceiling:

Minimal required net vent openings above must be total 46 sq ins (300 cm²).

This can be done by ventilation openings or grills.

The design of the ventilation openings/grills is free to choose.

Place the ventilation opening/grills at minimal 5" (12.5 cm) distance under the ceiling, to prevent discoloration.

See also figure 2 and 4.

Without false ceiling:

Between the top of the fireplace/chimney breast and the ceiling there must be a total open space.

The minimal required sizes of this open space are given in figure 2 and 4.

Non-combustible insulation plate/board

Any used insulation plates must have a maximum thermal conductivity of 0.69 BTU/(ft².h.°F/in) (0.10 W/m.K).

Suitable insulation materials are listed in table 1.

Do not use fibreglass or Rockwool, or similar material. These materials emit a pungent odour, which is considered extremely unpleasant.

Plate material	Thermal conductivity	
	BTU/(ft ² .h.°F/in)	(W/m.K)
Promat Promatect L insulating board	0.57	(0.083)
Skamol Skamotec 225	0.416	(0.06)
Skamol Super-Isol	0.55	(0.08)

Table 1: Suitable insulation material

CLEARANCES

Mantel clearances

Any mantel piece made of combustible material should be placed at least 2" from the side and top of the fireplace opening. Minimum mantel clearances are shown in figure 5 to 7.

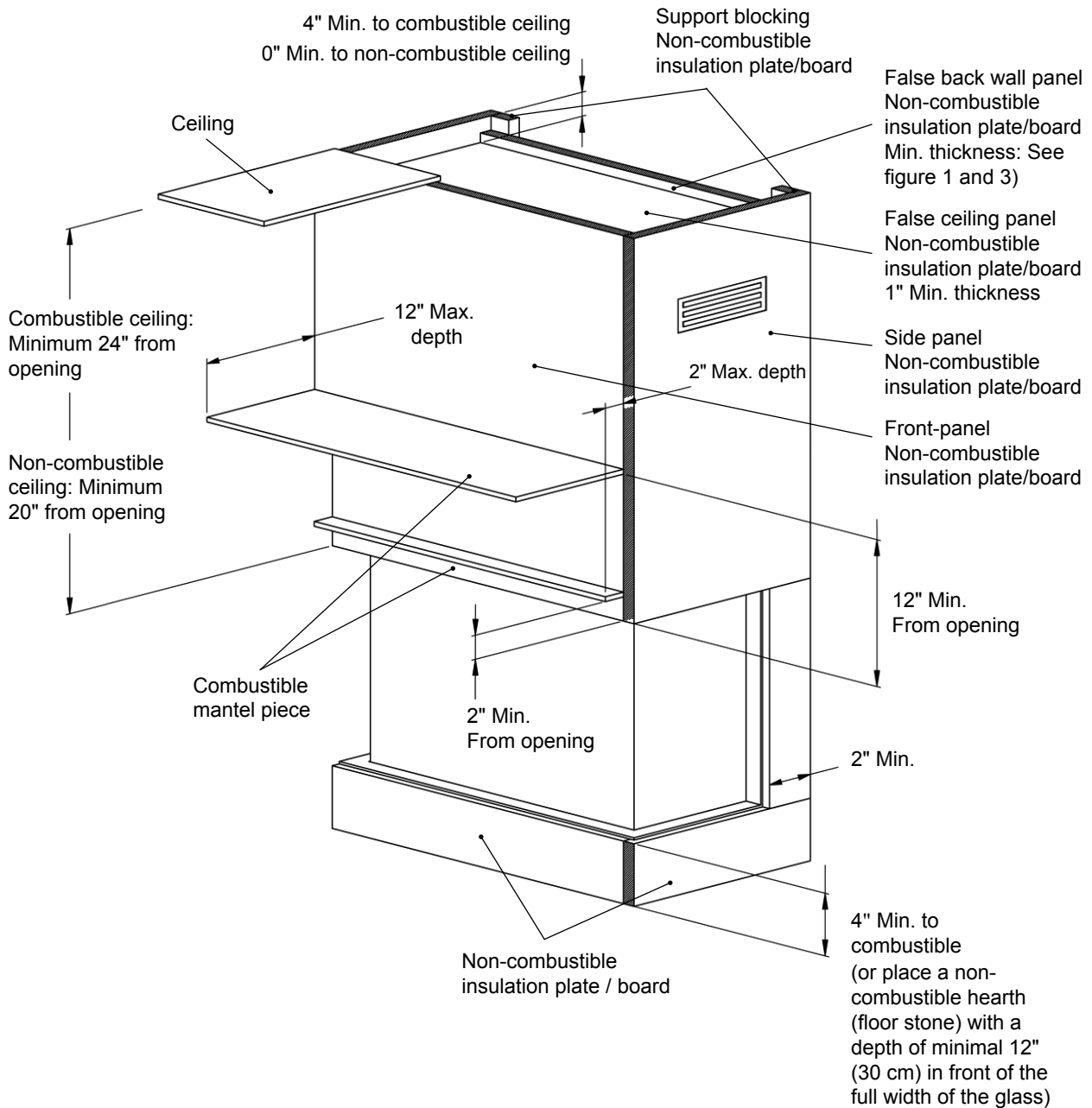


Figure 5: Mantel clearances

CLEARANCES

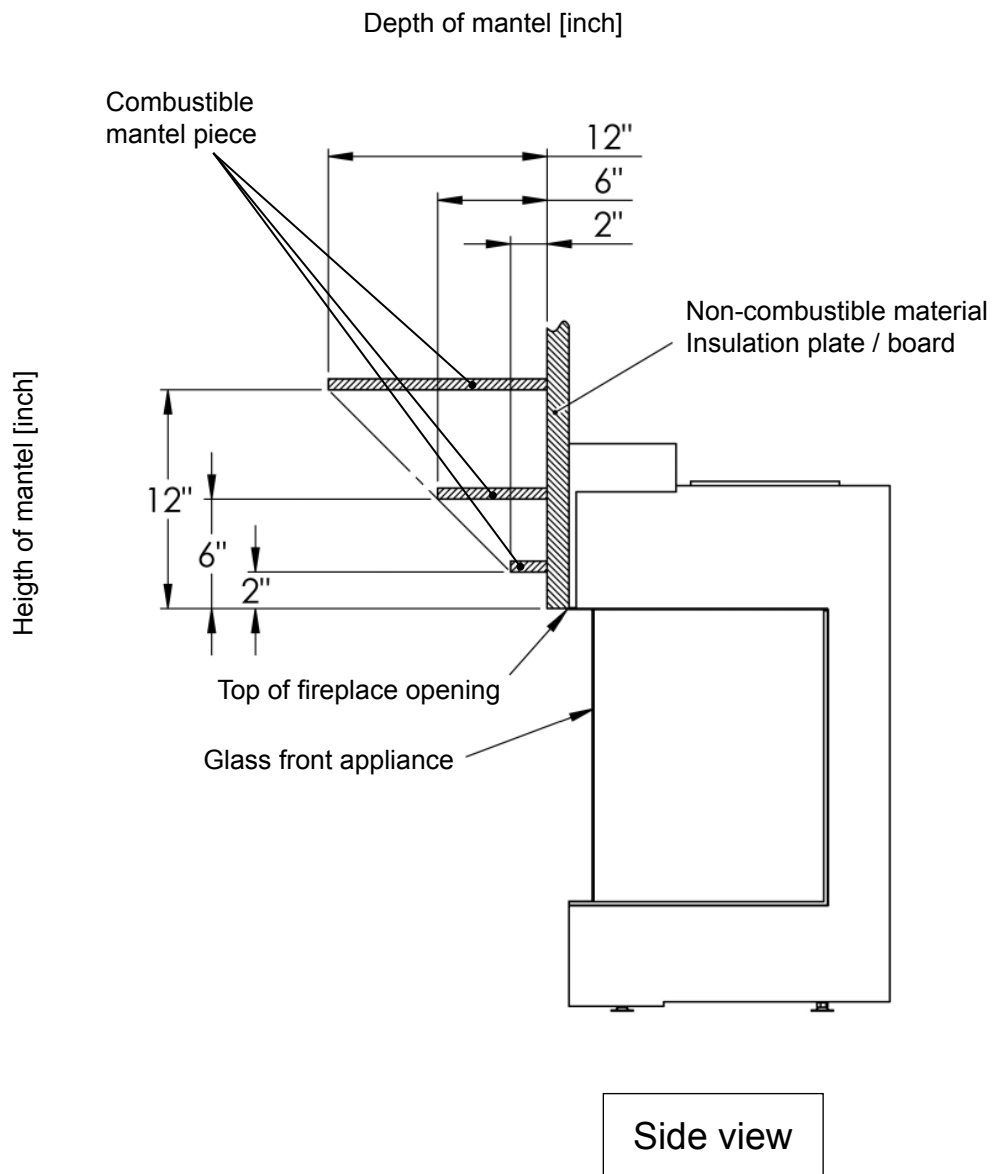


Figure 6: Top mantel clearances

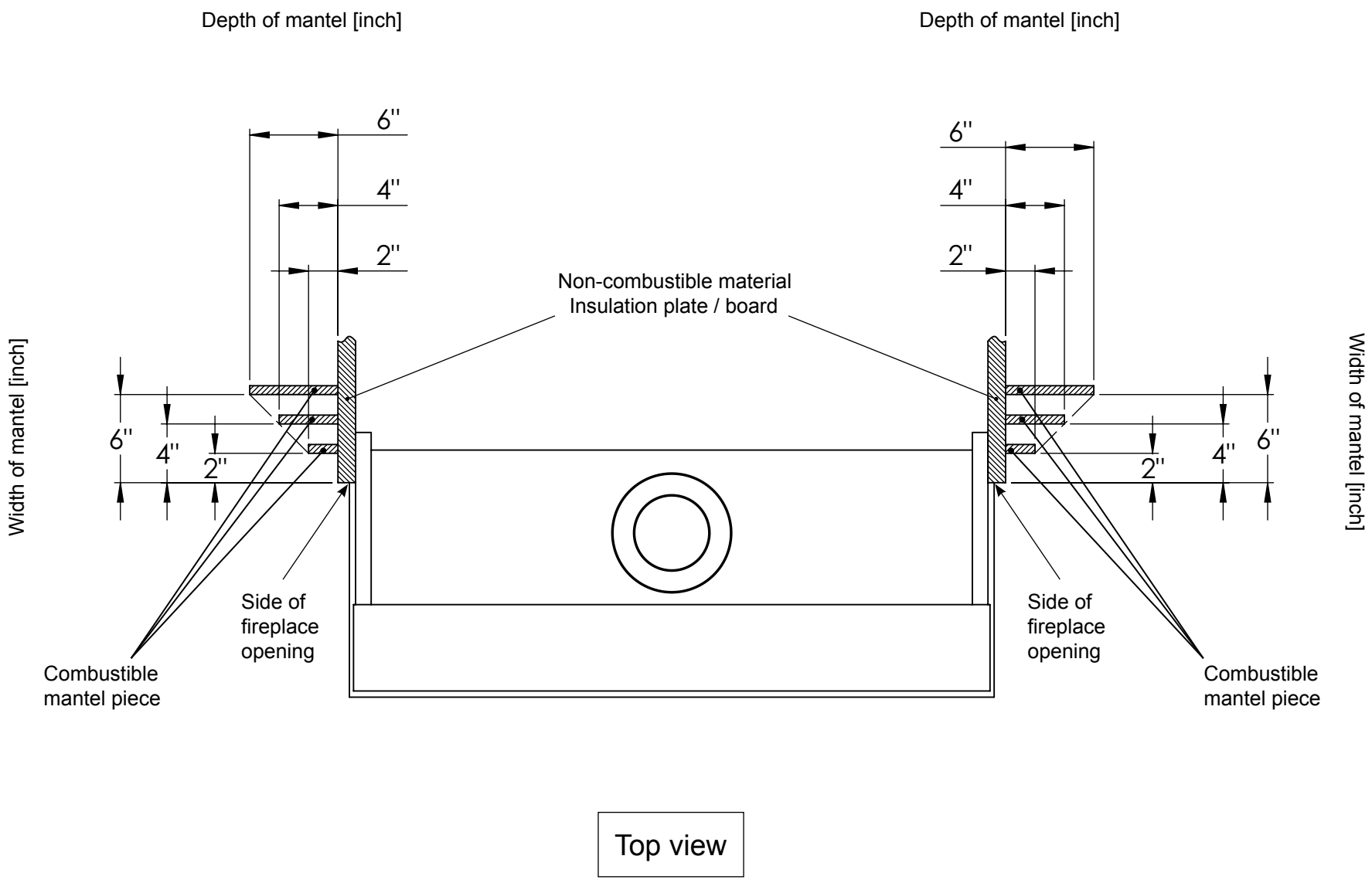


Figure 7: Side mantel clearances

CLEARANCES

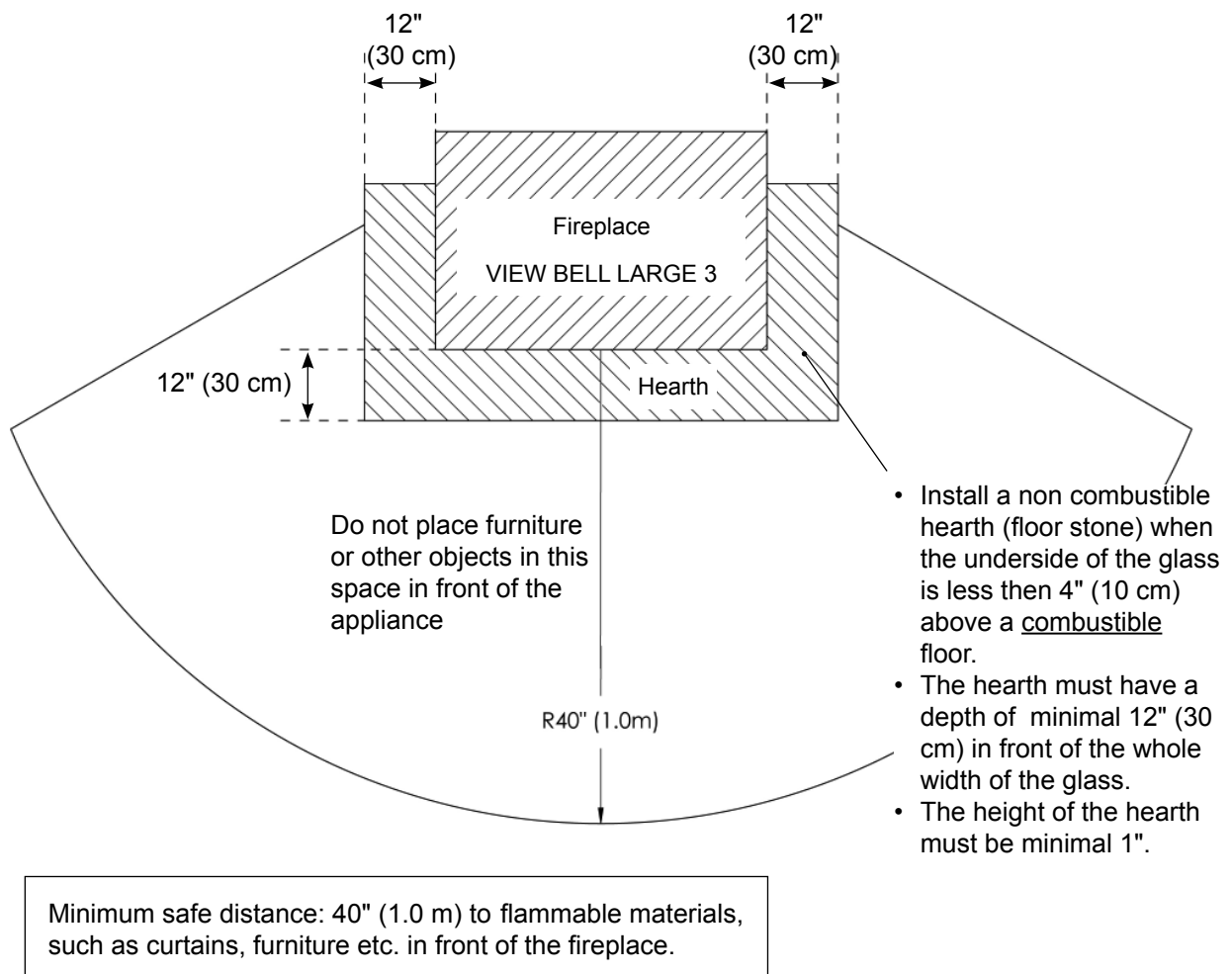


Figure 8: Safety distance front appliance

CLEARANCES

Television installation

Installation of a flat screen TV above the fireplace is possible. One can mount the TV flush or recessed.

Prevent that the ambient temperature around the TV and the cables can become warmer as normal.

High ambient temperatures will namely shorten the life time of the TV!

Install the TV exactly according to the instructions below.

Only then there will be no rise of the ambient temperatures around the TV and cables.

For the installation of a flat screen TV the following items are important:

- Use for the front of the fireplace/chimney enclosure a non-combustible insulation plate/board(*) with a thickness of 1½". The material specification (*) is given underneath.
- Place the cable for the power and signal lines in the insulated cable duct behind the front panel. Make the insulated cable duct of min. ½" thick non-combustible insulation plate/board(*).
- Clearances must be according to the following figures.
- Use a 'TV Wall Mount Bracket' which is suitable for the TV to install.
- Mount the 'TV Wall Mount Bracket' on the non-combustible insulation plate/board(*) with steel studs at the back of the plate/board, for a stable and strong construction.

(*): *Non-combustible insulation plate/board with a maximum thermal conductivity of 0.69 BTU/(ft².h.°F/in) (0.10 W/m.K).*

CLEARANCES

TV installation above mantelshelf (Flat 3-sided fireplace) (Flush mounted)

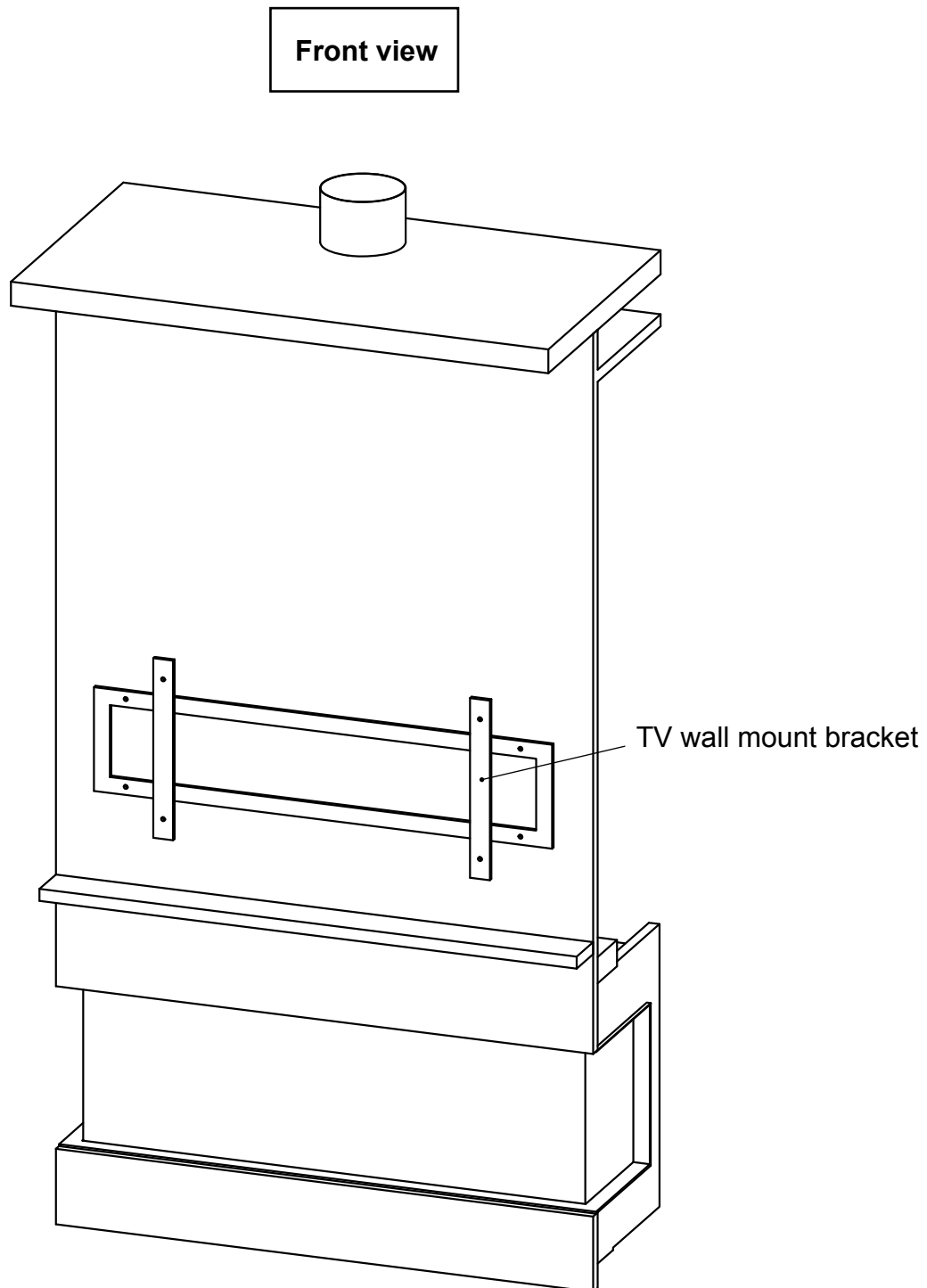
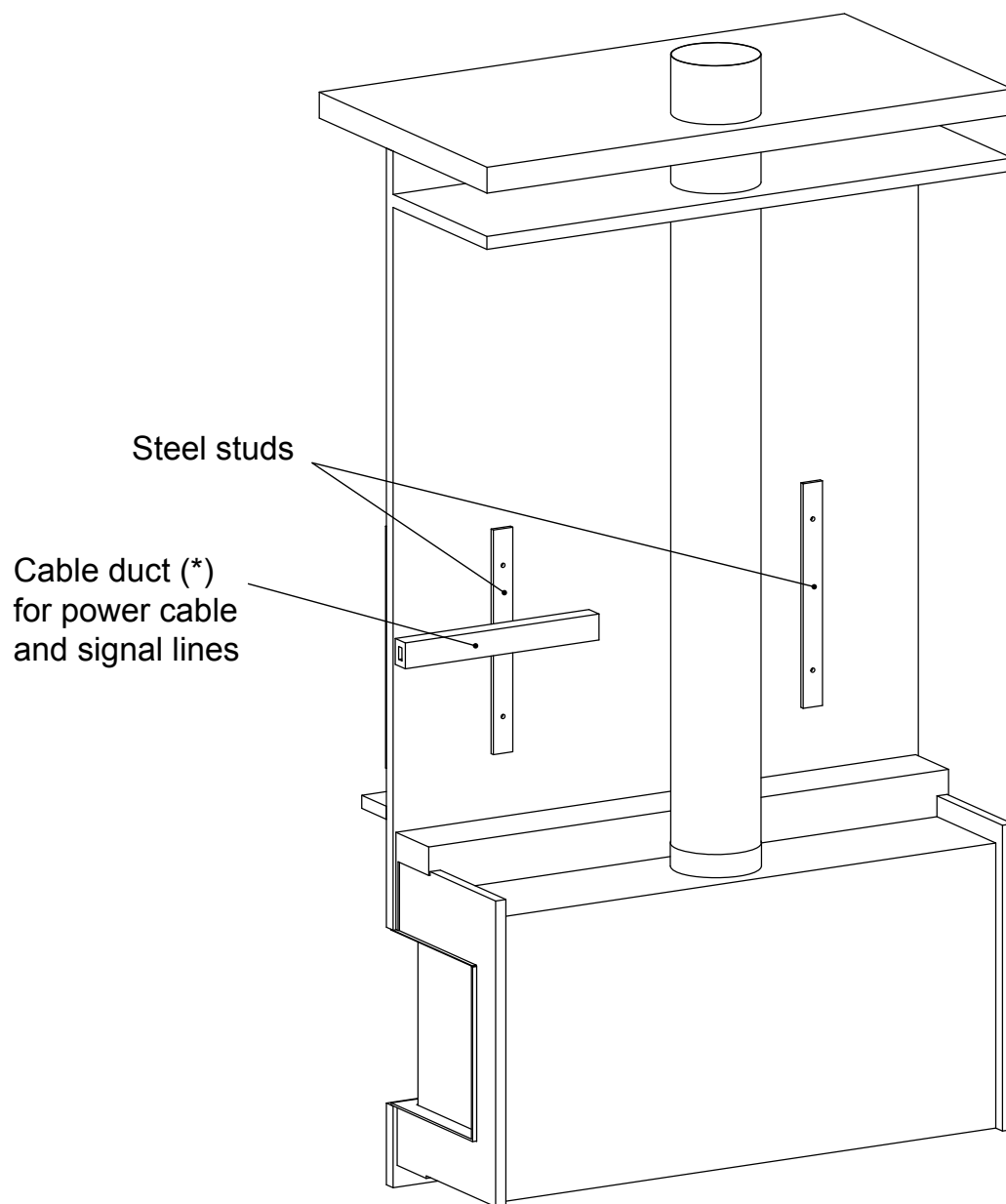


Figure 9: TV installation above mantelshelf (Flat 3-sided fireplace) (Flush mounted)
Front view

CLEARANCES

TV installation above mantelshelf (Flat 3-sided fireplace) (Flush mounted)

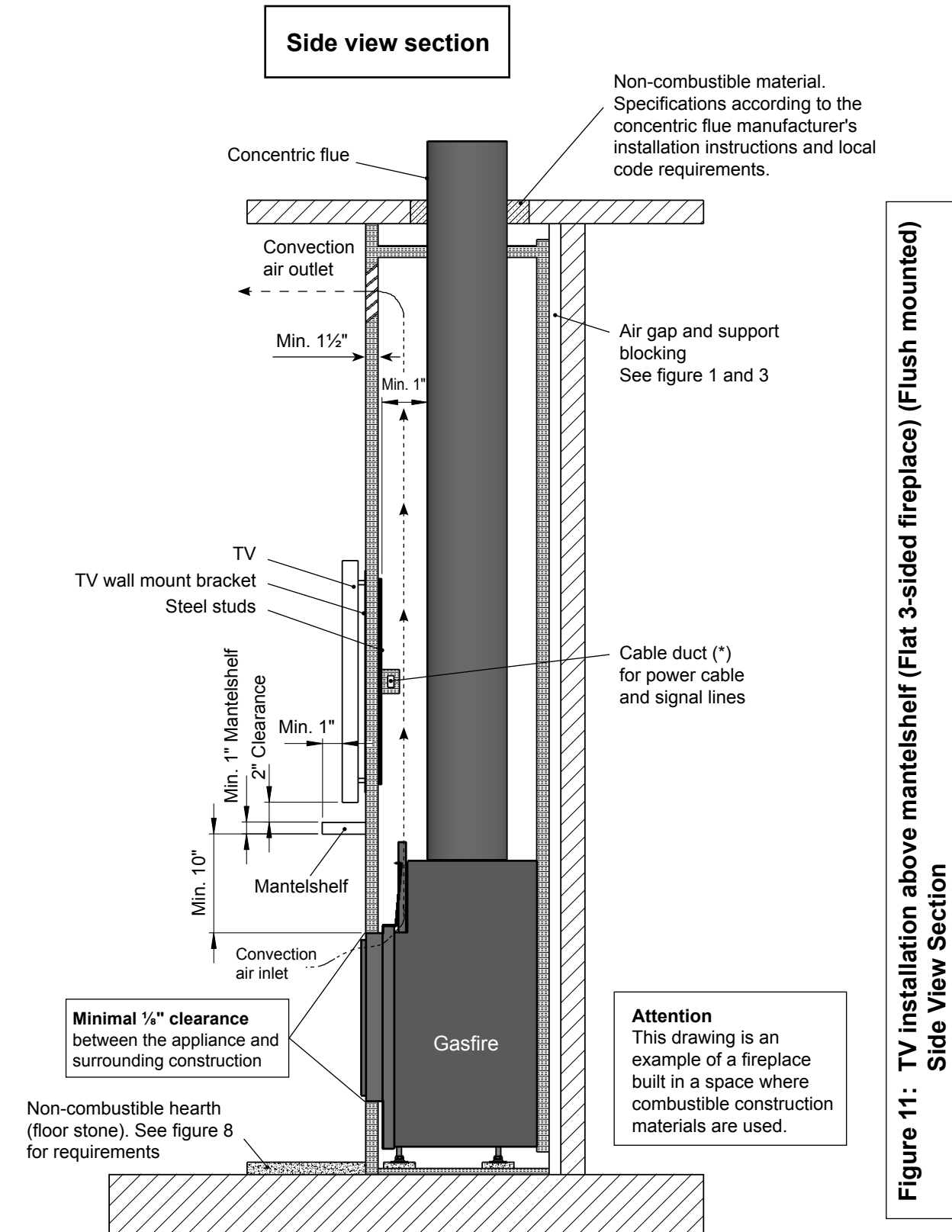
Back view



**Figure 10: TV installation above mantelshelf (Flat 3-sided fireplace) (Flush mounted)
Back view**

CLEARANCES

TV installation above mantelshelf (Flat 3-sided fireplace) (Flush mounted)



Combustible construction material



Non-combustible insulation plate/board(*)

See above drawing and figure 1, 2, 3 and 4 for the required thickness and material specifications

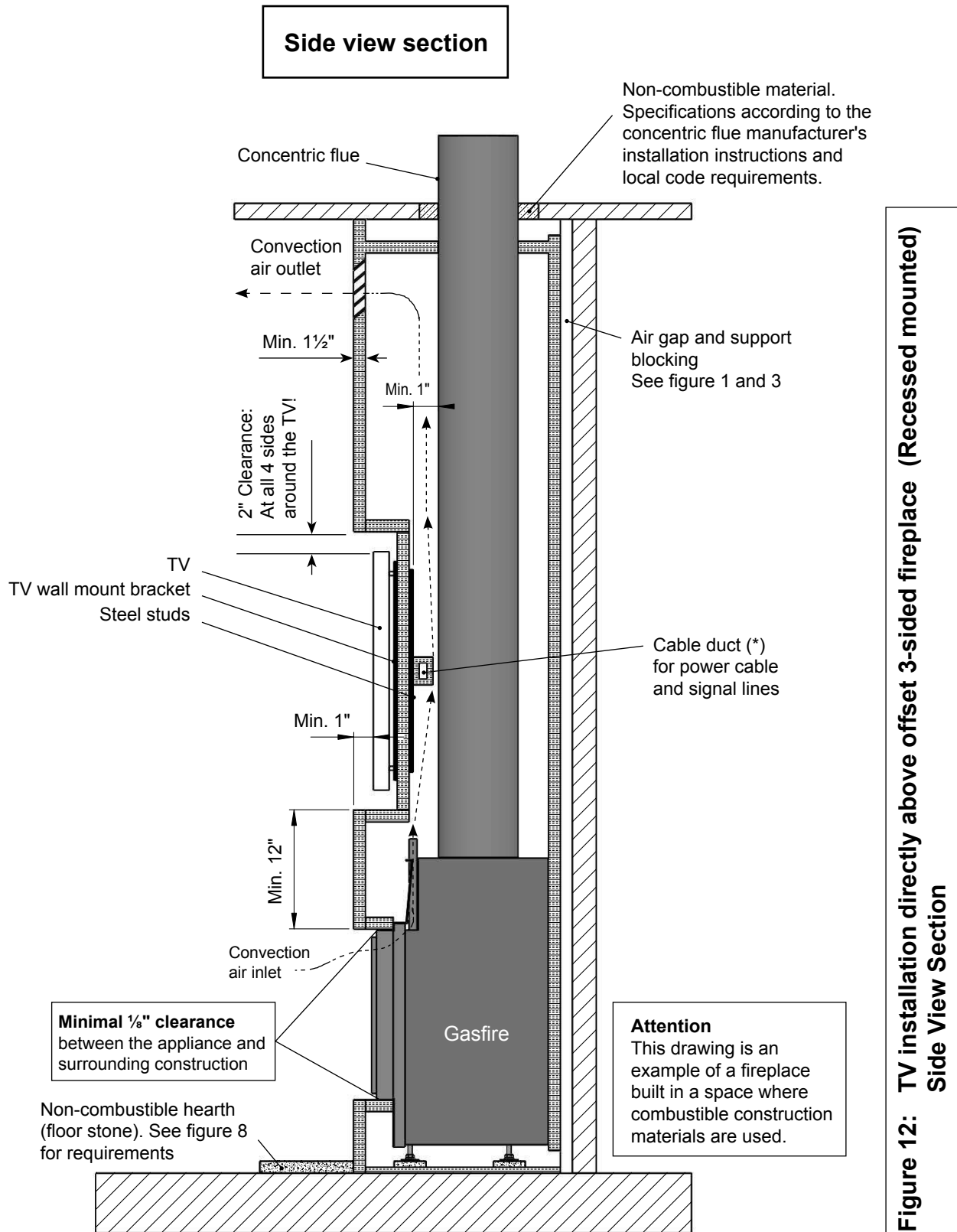


Non-combustible material (for example: concrete board)

See above drawing and figure 1, 2, 3, 4 and 8 for the required thickness and material specifications

CLEARANCES

TV installation directly above offset 3-sided fireplace (Recessed mounted)



Combustible construction material



Non-combustible insulation plate/board(*)
See above drawing and figure 1, 2, 3 and 4 for the required thickness and material specifications



Non-combustible material (for example: concrete board)
See above drawing and figure 1, 2, 3, 4 and 8 for the required thickness and material specifications