

## SPECIFICATIONS

Where the EK Series Fireplace specification involves:

- Attaching the fireplace to a building's external wall, or
- With flue pathways through timber framed roofing, or
- Positioning the fireplace adjacent to combustible materials,

One of two tested solutions is to surround the fireplace in a **concrete chimney cavity**. The entire fireplace and flue must be fully enclosed in concrete having a minimum thickness of 140mm, and the concrete structure must extend fully through, and above the roof line.

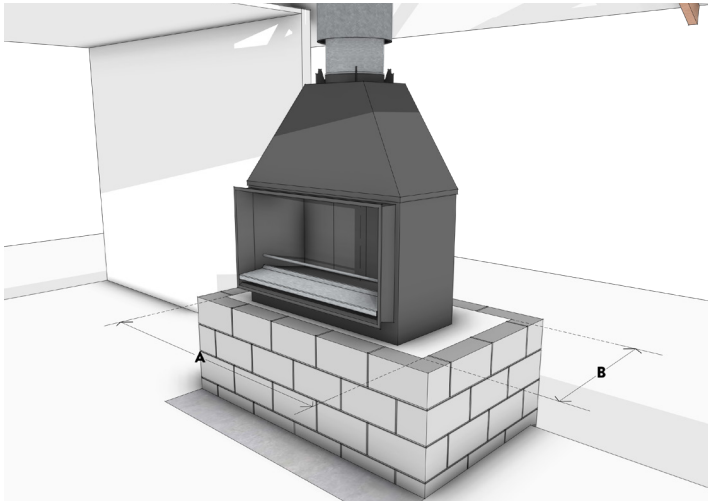
These installations require the **EK Series Concrete Cavity Flue Kit**, for compliance, safety and ventilation. The concrete cavity flue kit consists of a **350-450mm Ø** flue and liner. An additional **550mm Ø** flue liner is required at the chimney cap.

*Note: The EK1550 requires 2x flue kit and flue dropbox.*

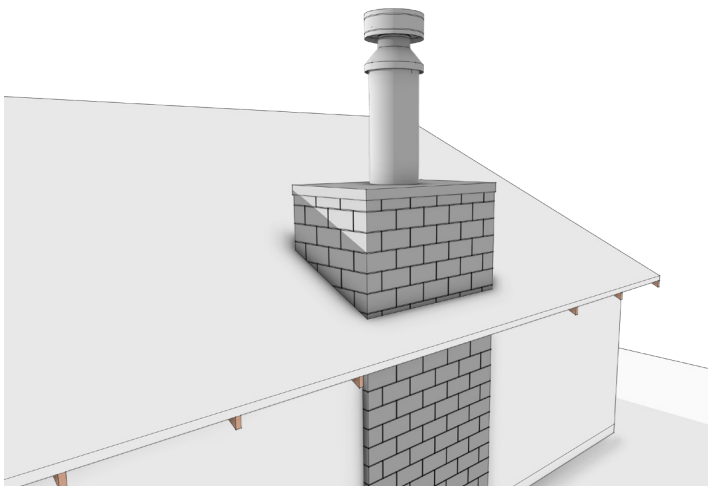
## CAVITY CLEARANCES

Ensure combustible materials are not in contact with the outside of the concrete structure. **Maintain a 50mm clearance to any combustible material** at any height on the concrete structure. Additionally maintain a 2000mm external clearance if heat-sensitive material extends in front of the concrete cavity.

## INSTALLATION OPTION



Cavity base is laid with fireplace base installed. **Fireplace weight: 127kg + Flue (40kg)**  
Initially, the fireplace is located towards the back of the cavity. Initial flue components can be installed.



Fireplace is shifted forward into the cavity and final flue elements installed. Restrain the fire to its base structure. The flue height is a combination of the minimum flue length and the requirements of AS/NZS2918 External Clearances. **Minimum flue length: 2.4m**

## CONCRETE CAVITY REQUIREMENTS

The concrete cavity is a self-supporting structure constructed from cast-in-situ concrete, pre-cast concrete, or concrete block, having a minimum thickness of 140mm.

The concrete cavity requires venting with air coming from an external space and not the building cladding cavity. Vents must be no higher than 300mm above the base. Intake vents can be any size or shape, but must have a minimum open area of

	A	B
<b>EK950 Concrete Cavity Internal Dimensions</b>	1077mm	835mm
<b>EK1250 Concrete Cavity Internal Dimensions</b>	1376mm	835mm
<b>EK1550 Concrete Cavity Internal Dimensions</b>	1676mm	835mm

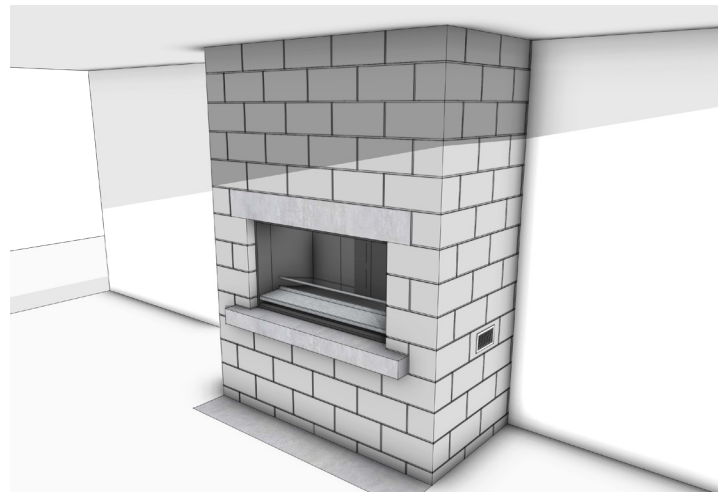
## HEARTH

A heat-resistant Floor Protector is required when the fireplace is positioned at or above **790mm** from the floor level to the fireplace opening. Below this threshold, either a 1000mm deep, insulating, non-combustible hearth in front of the fireplace according to AS/NZS 2918 standards, or a fully non-combustible floor, is required. Floor Protector dimensions below (W x D):

<b>EK950</b>	1348mm x 300mm
<b>EK1250</b>	1647mm x 300mm
<b>EK1550</b>	1947mm x 300mm



Complete the concrete structure to the prescribed height. The concrete cavity must extend at least above the roof line. Complete the flue installation by installing the remaining 350/450mm Ø flue and liners, and cowl.



Detail the opening to cover the wall linings and protect from direct heat exposure. Complete the installation by installing the remaining fireplace components, apply any non-combustible finishes to the walls, and install the floor protector or hearth.