EK Series Outdoor Fireplace Kitchen

Flue Specification Guide

FIRE BY escea.

SPECIFICATIONS

Flue Length (min. recommended)	2.4m - from the fireplace top
Compliance	Tested to *AS/NZS2918 Appendix F* - Timber Cavity Flue Only
Flue Type	Natural Draught
Flue Size (Ø)	350mm/400mm/450mm
Flue Shield	Not required
Flue Clearances to Combustibles	50mm from 450Ø liner *(Timber Cavity Flue Only)*
Flue Extensions	Double Skin and Triple Skin

FLUE HEIGHT

Where the EK Series Fireplace is in contact with a building or the flue pentrates through a roof, the flue height will be a combination of the minimum flue length and the requirements to meet *AS/NZS2918 External Clearances*. The external clearance requirements of *AS/NZS2918* are to ensure that the flue cowl is not obstructed from any adjacent buildings or structures. Refer to the EK Series Installation Manual for all requisite clearances.
Please note: a decrease in flue length will increase the chance of smoke spillage.

AAC HEAT CELL FLUE DROPBOX

The AAC heat cell dropbox is an integral part of the timber cavity installation method supporting the flue and liners, directing cavity air into the correct flue liner, and acting as a transition piece to seal the AAC Heat Cell.

FLUE RESTRAINT

The outer flue or shroud should be restrained by way of compatible brackets connected to the outer casing and an adjacent roof or wall. Spacing of these brackets is at 3m intervals or 2m when the flue is installed up to 45° off vertical.

FLUE OPTIONS

EK Series Timber Cavity Flue Kit comprises a 2.4m triple skin flue system (350/400/450mm Ø) extending from the Fireplace and AAC Panel Heat Cell to the final cowl location. The triple skin flue allows for flue penetrations through a combustible roof. An additional 550mm Ø flue liner will be required to form the roof penetration or part of the chimney cap. This is not supplied by Escea.

EK Series Concrete Cavity Flue Kit comprises a 2.4m double skin flue system (350/450mm Ø) from the fireplace to the final cowl location. This kit is for use with non-combustible cavities NOT in contact with a building or passing through a combustible roof.
**For specific flue detailing refer to the Escea website: www.escea.com/technical*

BENDS OR OFFSETS

Flue offsets are useful when the flue centerline needs to navigate obstacles or have a different roof penetration location, not directly above the fireplace. Depending on the offset location and installation type, you may need double skin or triple skin offsets. However, it's advisable to minimize flue offsets or consider extending the flue length to reduce potential draught issues within the flue pathway. Flue offsets are not provided by Escea.

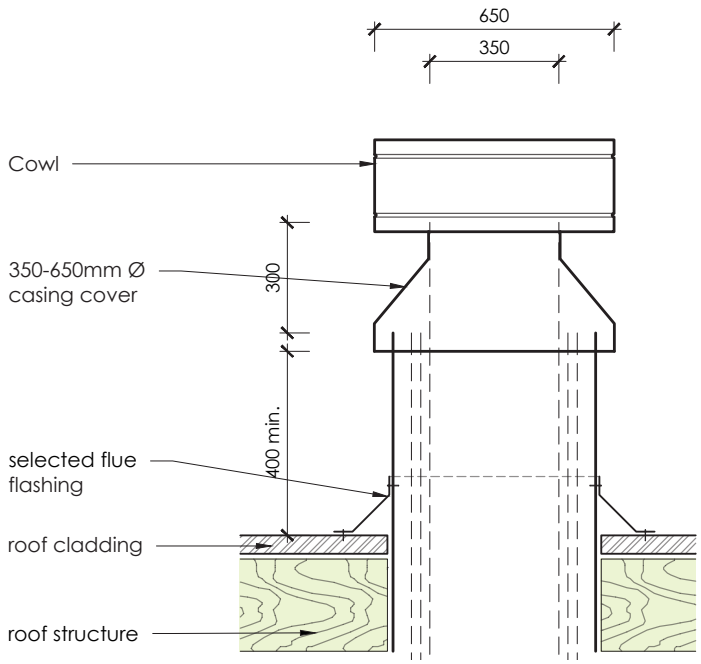
FLUE CLEARANCES

Maintain a **50mm** gap from the EK Series Timber Cavity Flue Kit 450mm Ø flue liner and any adjacent combustible material.
A **450mm** gap is required from the 450mm Ø flue liner to any combustible material when using the EK Series Concrete Cavity Flue Kit.

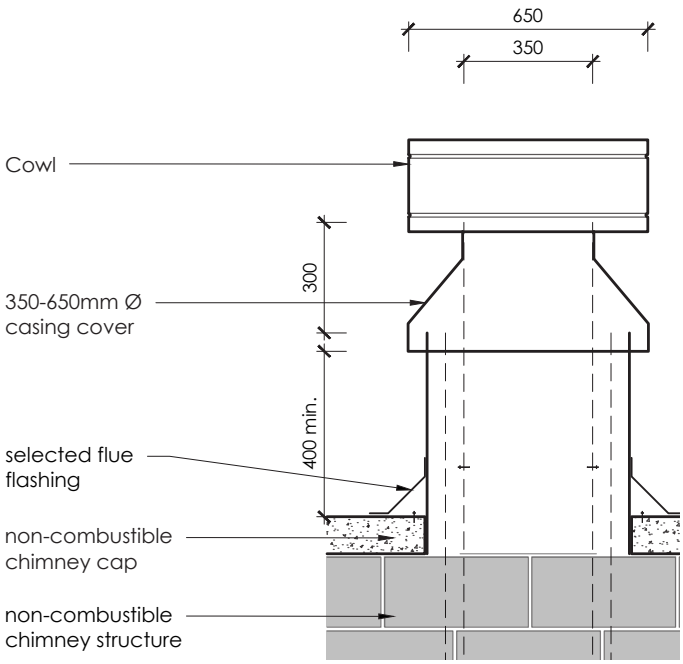
FLUE FLASHING

Flue flashing design and installation is the responsibility of the specifier or the installer. Choose a detail and/or component that will meet all relevant Building Code requirements and manufactured from a heat resistant material.

TIMBER CAVITY (TRIPLE SKIN) FLUE



CONCRETE CAVITY (DOUBLE SKIN) FLUE



Install in accordance with *AS/NZS2918* and the *Escea EK Series Install Manual.*
For Installation methods not covered in this document please contact:
Email: aa@escea.com PH (NZ): **0800 17 3000** PH (AU): **1800 460 832**

Install Manual and CAD files are available via the QR Code or link:
www.escea.com/technical

Disclaimer:
Dimensions provided are indicative and may not consider all site-specific variations or installation needs. Verify dimensions on-site before manufacturing or construction.