visionLINE™
FIREPLACE SYSTEMS

IFS
insulated flue system

Installation and Instructions Manual

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Introduction and Compliance

Thank you for purchasing a VisionLINE Insulated flue system for you slow combustion fireplace. Please read this manual carefully to ensure the correct installation of the flue system.

VisionLINE Insulated Flue has been tested to Appendix F of Joint Australian & New Zealand Standard 2918 per report ASFT24094-preliminary report issued on 1st October 2018.

The flue system is tested according to Appendix B of AS/NZS2918:2018 on solid fuel appliances with maximum average heat outputs up to 15kw and a 6 inch active flue.

> **Units up to 12kw (max average) can be installed observing the Appendix B clearances of the tested appliance using a default flue with a single 180o rear heat shield, Decro mesh or Solid decro.**
>
> *Units requiring a double heat shield will also require an additional shield to meet rear clearance requirements.*
>
> **Units above 12kw and below 15kw (max average) require an additional reflective stainless steel 900mm x 180° flue shield installed directly above the appliance to the ceiling.**

Tested appliances should have this information on the compliance plate on the rear of the heater or alternatively you can request this information from the appliance manufacturer.

It is important to read these instructions completely prior to install in order to ensure all required clearances to sensitive materials are adhered to.

Clearances can also be reduced wall shield requirements as specified in AS/NZS 2918:2018 section 3.2.3.

Flue system specifications

VisionLINE IFS pipe is a two-layer twist lock steel pipe consisting of flues in Ø150 mm of 0.6 mm SS 304 stainless steel, insulated with 25 mm Morgan Frax ceramic insulation with a density of 128 kg / m³ and outer wall of 0.5 mm SS 304 stainless steel.

The IFS features a twist locking system which is unique to this product, no other pipes can be connected to this system and doing so may compromise the flue system safety and integrity thus will render the system and unit installation non-compliant.

IFS flues have both fixed length pipe and adjustable pipe that can not be cut.

All pipe, locking bands and terminations are powder coated in Forrest Paints satin black which can be touched up if required using Stove bright satin black

Warranty

Your VisionLINE IFS is covered by a five (10) year manufacturers warranty on defects to the flue system due to manufacture. This does not cover damage due to incorrect installation or abuse of the product beyond specification.

Caution

Please read these assembly instructions carefully prior to installation. To be installed by a qualified installer only, please check local requirements for qualification requirements. Incorrect installation is a fire risk and will result in a loss of warranty.

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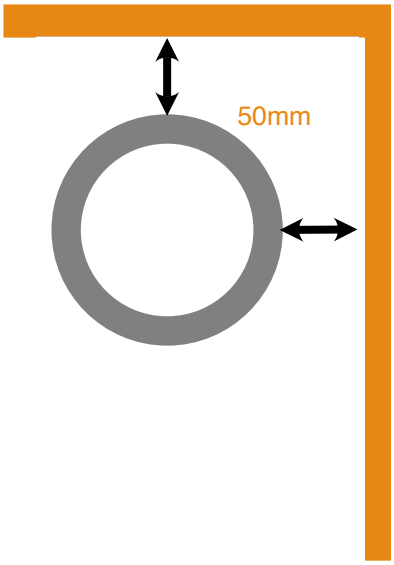
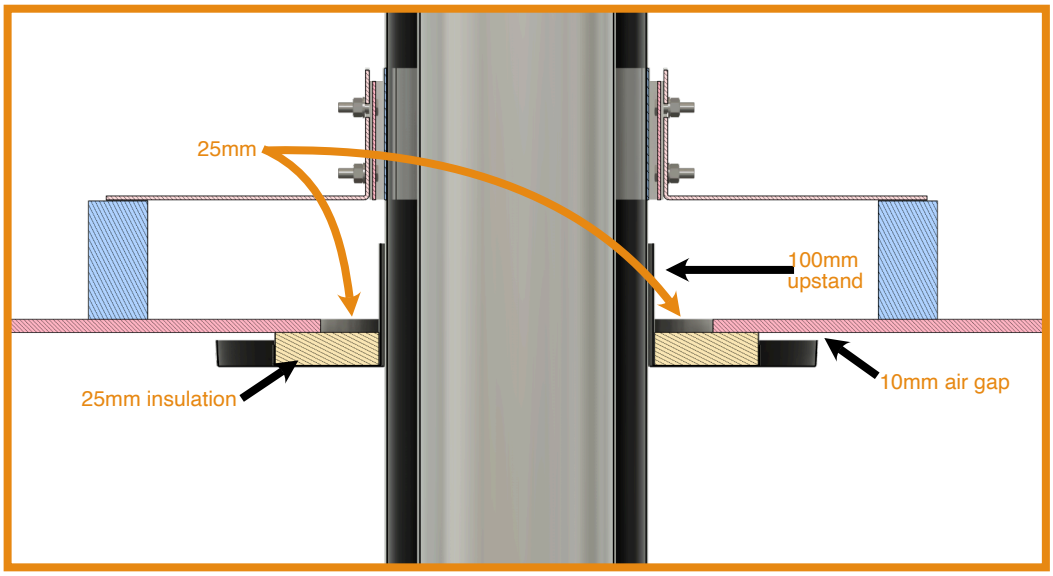
Distance required to combustible materials

The minimum distance of clearance to a combustible material for the VisionLINE IFS pipe is 25mm to the ceiling ring and 50mm in all other areas.

In Australia and New Zealand, this flue system can ONLY be used for solid fuel systems (Wood).





Preparation

Before installation, planning is essential for an efficient, safe and cost-effective installation. ONLY VisionLINE IFS parts can be used for installation. Improvised parts or blending with other types of flue systems is not allowed. This will void the warranty and is a fire risk.

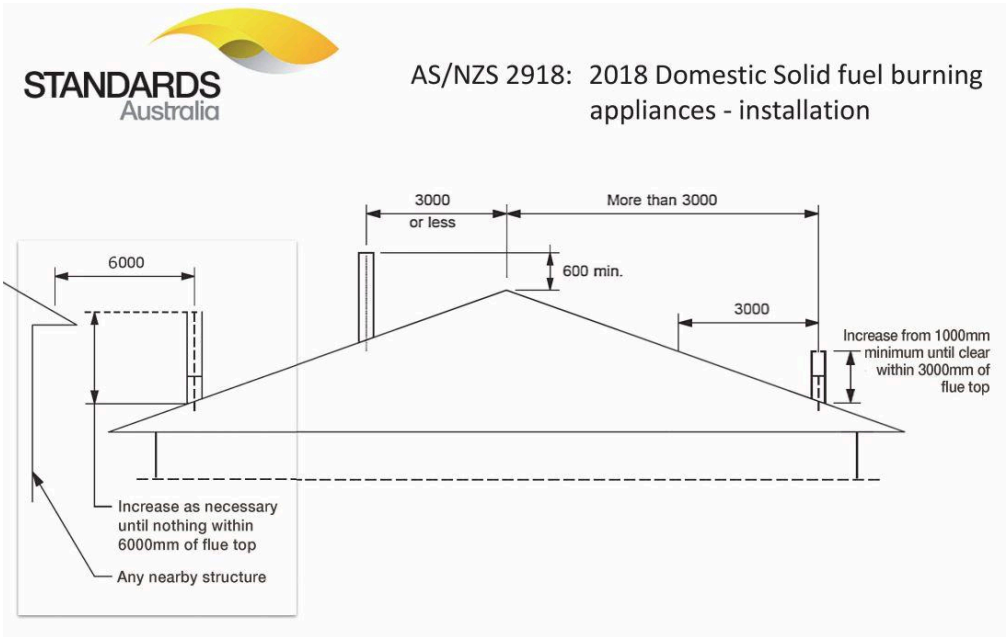
It is the fireplace clearance requirements to combustible material that determines the flue location in the building. Always read the installation manual from the manufacturer of the fireplace in conjunction with this installation manual for the flue pipe.

Flue height above roof

The flue pipe must extend 600mm above the highest point of the roof if within 3000mm.

If outside 3000mm, the pipe must extend until 3000mm is achieved to the roof structure.

The flue pipe must continue until clear if it is within 3000mm of any structure, including but not limited to second story, neighbouring properties, trees and any nearby structures.



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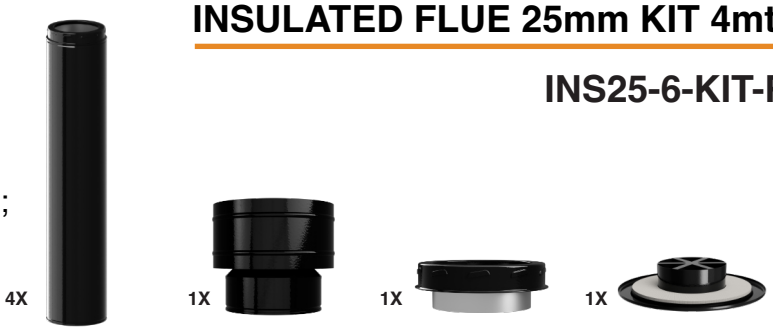
INSULATED FLUE 25mm KIT 4mtr

INS25-6-KIT-R

INS25-6-KIT

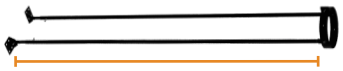
Kit Contains;



INS25-6-1000 INS25-6-RC INS25-6-AD INS25-6-CR

The 4 metre Insulated flue kit is shipped as a boxed kit for your convenience containing the above components. Optional support brackets are available such as the following;

Flue support options - not included in the kit

Product Code	Description	
INS25-6-CS	INSULATED FLUE 25MM CEILING SUPPORT	
INS25-6-WB1	INSULATED FLUE 25MM WALL BRACE	
INS25-6-RB200	INSULATED FLUE ROOF BRACE KIT	 Extends 1700 - 3000mm

Extra flue components - not included in the kit

Product Code	Description	
INS25-6-100	INSULATED FLUE 25MM 100MM PIPE	
INS25-6-250	INSULATED FLUE 25MM 250MM PIPE	
INS25-6-500	INSULATED FLUE 25MM 500MM PIPE	
INS25-6-1000	INSULATED FLUE 25MM 1000MM PIPE	
INS25-6-ADJ1	INSULATED FLUE 25MM ADJUSTABLE 340 - 500MM PIPE	
INS25-6-ADJ2	INSULATED FLUE 25MM ADJUSTABLE 620 - 1080MM PIPE	
INS25-6-45	INSULATED FLUE 25MM 45 DEGREE ELBOW	
INS25-6-90	INSULATED FLUE 25MM 90 DEGREE ELBOW	
INS25-6-CR15	INSULATED FLUE 25MM CEILING RING 15 DEGREE	
INS25-6-CR22	INSULATED FLUE 25MM CEILING RING 22 DEGREE	
INS25-6-CR30	INSULATED FLUE 25MM CEILING RING 30 DEGREE	
INS25-6-CR45	INSULATED FLUE 25MM CEILING RING 45 DEGREE	

Cut out point for ceiling penetration

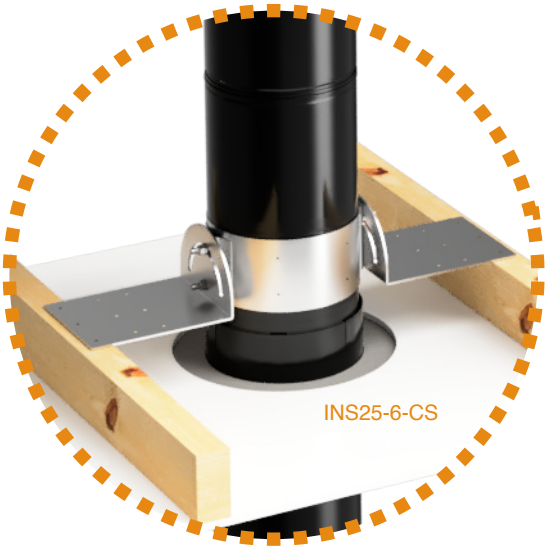
Using the installation manual for the fireplace being installed, position the fireplace into the desired location ensuring that all clearances stipulated by the fireplace manufacture are achieved. Once in position, check using a laser or plum bob the location of the flue penetration in the roof cavity.

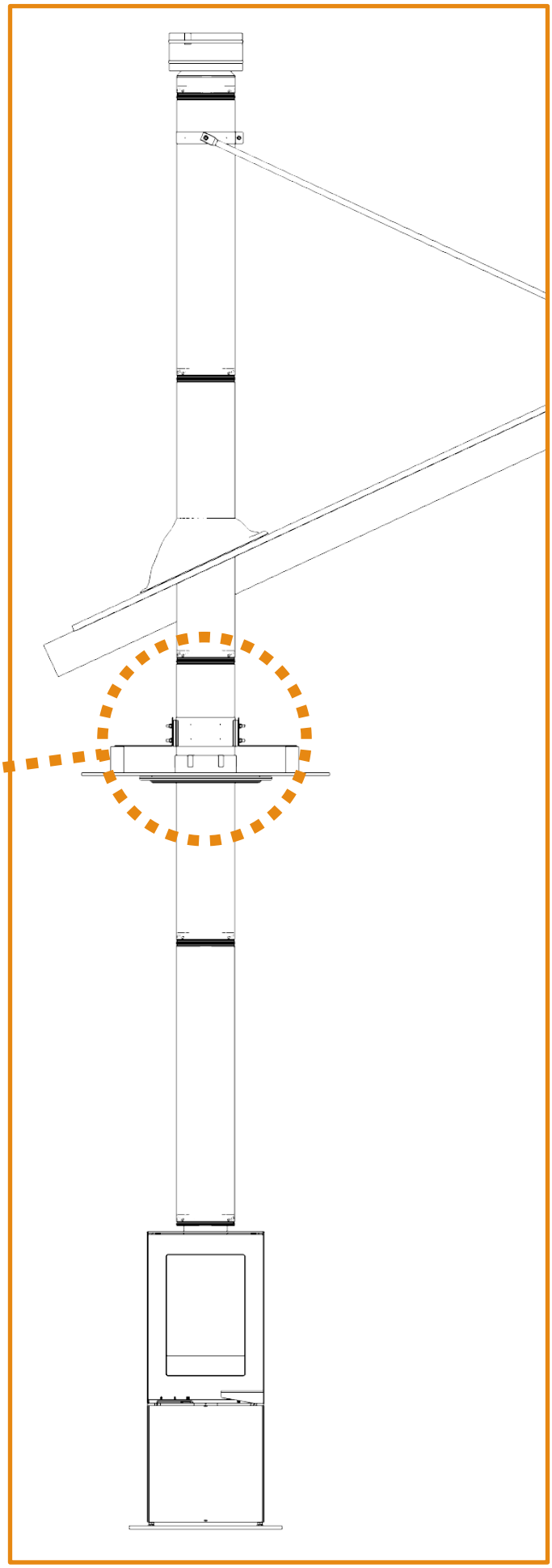
Outer diameter of the flue is 200mm.

Ceiling cut out should be 250mm.

The ‘Ceiling Support’ (INS25-6-CS) can be used to help support the flue inside the ceiling cavity. This has two arms that can articulate to suit sloped ceilings and be secured with the two retaining bolts and washers.

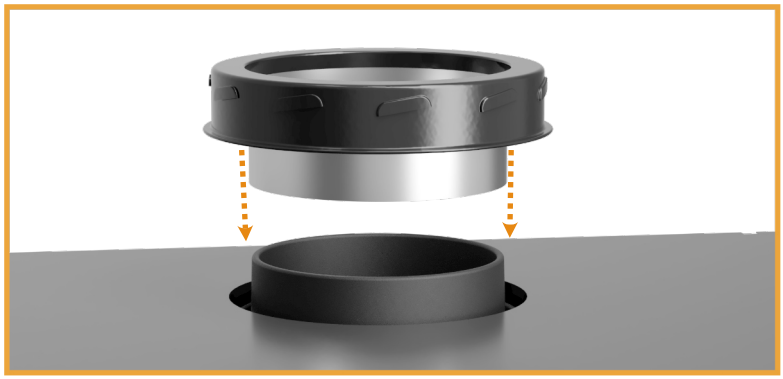
Please ensure clearances are met when fitting the flue bracing bracket and constructing any additional frame work. If the roof cavity is used as usable living or storage space or has blown in insulation, an attic shield is recommended to ensure the 50mm clearance to the IFS pipe.





Flue connection to heater

In order to connect the pipe to the fireplace, the flue adapter (INS25-6-AD) is placed into the flue spigot of the fireplace.



Pipe connection

When connecting the pipe together (1), the twist lock joins press together with alternating teeth. Twist the top pipe clockwise to lock in place and continue for each length.

Locking bands (2) secure the pipe together to ensure a secure fit for added security.

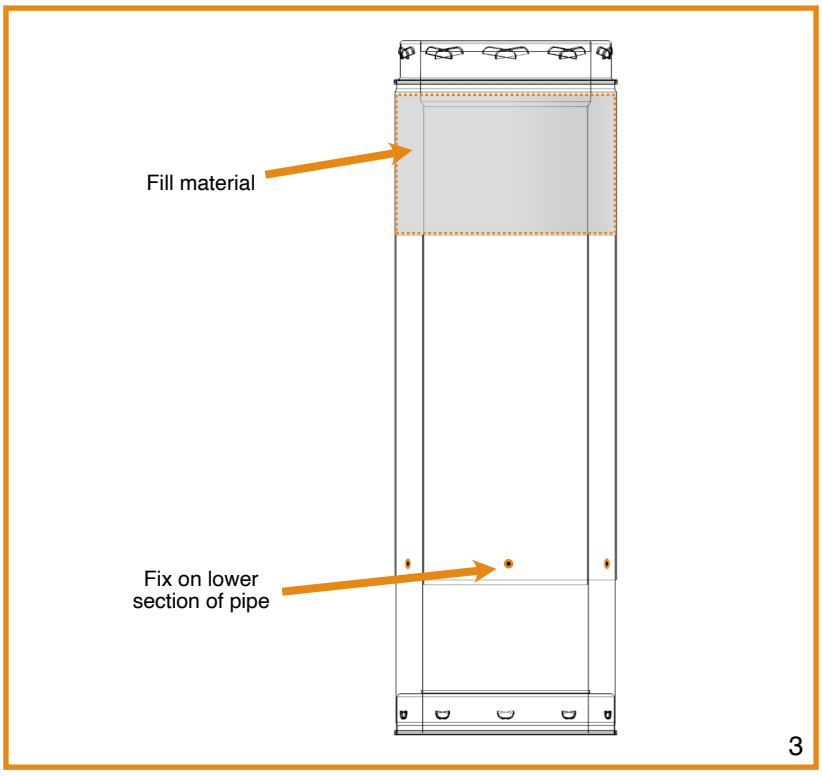
Adjustable pipe (3) comes with loose insulation fill material which once desired length is decided, fill material should be cut to suit and empty cavity of female pipe filled to ensure insulation fills entire pipe.

Add additional 30mm more insulation than required to ensure correct compression and complete filling of material.

Secure adjustable pipe once fitted to length with 3 stainless steel self tapping screws.

1

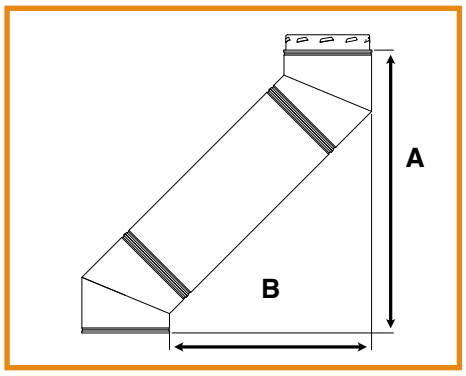
2



3

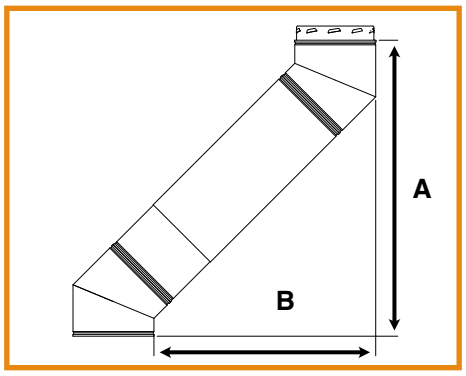
Use of elbows

Elbows can be used back to back or with the combination of fixed lengths or adjustable pipe to offset your flue to avoid obstructions. See below tables of the offset amounts.



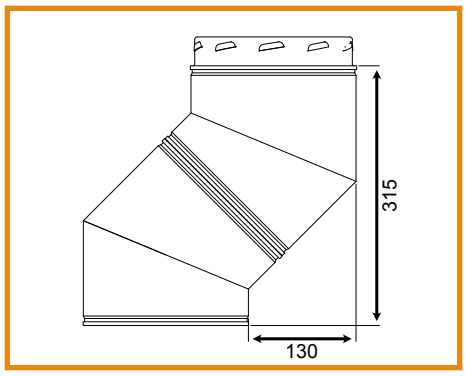
Fixed length between elbows

	A	B
100mm	389	169
250mm	491	307
500mm	645	461
1000mm	1000	815



Adjustable length between elbows

		A	B
340-500	Contracted	544	360
340-500	Extended	723	538
620-1080	Contracted	650	467
620-1080	Extended	925	741



Back to back elbows

Support Bracing Options

Product Code	Description	
INS25-6-CS	INSULATED FLUE 25MM CEILING SUPPORT	
INS25-6-WB1	INSULATED FLUE 25MM WALL BRACE	
INS25-6-RB200	INSULATED FLUE ROOF BRACE KIT	Extends 1700 - 3000mm

INS25-6-WB1
Adjustable 55mm - 300mm from the wall

INS25-6-RB200
Adjustable 1700 - 3000mm