

Minimum distance to heat sensitive materials (mm) when a flue heat deflector is fitted as per standard AS/NZS 2918:2001

MODEL	FLUE SHIELD	FLOOR PROTECTOR TYPE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	R	W
F3000	MDS	AFP	75	250	300	136	50	293	581	390	633	933	860	1118	1015	567	551	662
F3300C	MDSD	AFP	100	300	300	136	100	318	631	440	633	933	892	1196	1069	574	622	662
ATLANTA BAY	MDS	AFP	160	250	300	130	50	294	570	371	600	900	1062	1293	1126	768	525	640
HESTIA 2	MDS	AFP	50	340	300	130	25	213	660	366	600	900	820	1125	1008	607	518	640
KRONOS MULTI FUEL	KDS	AFP	170	330	300	100	160	377	680	514	600	900	1013	1382	1175	636	726	700
R1500	MDS	AFP	110	290	300	111	55	285	590	382	522	822	835	1091	956	550	541	600
R1500WS	MDS	AFP	110	290	300	111	100	285	590	427	522	822	835	1154	1001	550	604	600
R1500 RURAL	MDS	AFP	110	290	300	111	55	285	590	382	522	822	835	1091	956	550	541	600
R1600	MDS-1200	AFP	110	290	300	111	55	285	590	382	522	822	835	1091	956	550	541	600
R5000 L/P	MDSD	AFP	128	200	300	100	85	324	550	441	600	900	968	1268	1109	644	624	700
R5000WS	RDS	AFP	170	290	300	100	135	366	640	491	600	900	1010	1339	1159	644	695	700
MACKENZIE R10000	RDS	AFP	150	400	300	87	160	350	795	550	664	964	1070	1498	1294	720	778	790
OSBORN 1600 Dry & MKII Wet	MDS	AFP	100	360	300	81	150	301	678	484	496	796	1002	1365	1155	701	684	635

Refer to page 13 for the full range of Masport floor protectors.

**NB:** It is important to note that this dimension page is a guide only. Please refer to the installation manual supplied with the fire for accurate manufacturer recommendations.

All details are available on [www.masportheating.co.nz](http://www.masportheating.co.nz)

**Note:** Clearances are for fire hazard only. For durability of finishes or surfaces you should contact the relevant manufacturer for their specification. Glen Dimplex New Zealand Ltd accepts no responsibility for the deterioration of surfaces or finishes.

For full warranty details refer to your owner's manual. All heaters must be installed and serviced by an authorised installer. Due to ongoing enhancements, specifications may change without notice. Some pictures and settings are for illustration purpose only. Consult your dealer for fires available in your area.

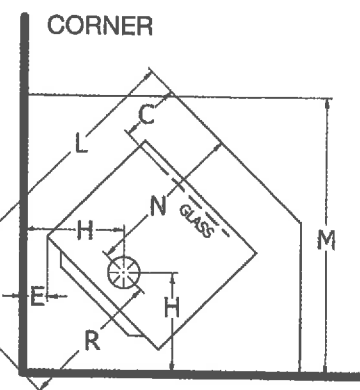
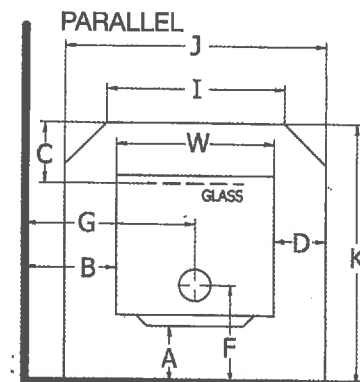
### FLUE SHIELDS:

- MDS** Masport Double Skin Flue Shield 1200mm long  
**MDSD** Masport Double Skin Flue Shield 1200mm long with diverter plate  
**KDS** Masport KRONOS Double Skin Flue Shield 1200mm long with heat diverter plate  
**RDS** Mackenzie R10000 Double Skin Flue shield 900mm long with special heat diverter and ceiling plate.

### FLOOR PROTECTOR:

- AFP** Ash Floor Protector

NOTE: \*These dimensions apply when a rear heatshield is fitted to the heater and no side-fitting warming shelves are fitted.





03-547-0747  
NELSON

2799  
878



17M

\$2699 3400 voucher 400  
\$700 \$3000.00\*

## Osburn 1600



Environmentally friendly and one of the best freestanding clean air fires on the market.

- NES, ECAN and ORC Airshed 1 clean air approved
- Efficiently heats areas 210m<sup>2</sup>
- Heavy steel construction with 8mm flat radiant cook top
- Built-in ash pan within pedestal for easy cleaning
- 12 hour Burn time
- Also available as a wetback model, when purchasing please specify as waterbooster cannot be retrofitted

**FINISH:** Metallic Black VHT

**LAB PEAK OUTPUT:** 21.96kW

**EMISSIONS:** 0.7g/kg dry and wet

**EFFICIENCY:** 70% (Dry), 67% (Wet)

**DIMENSIONS (WxDxH):** 635 x 618 x 743mm

This one!



Leg option



Pedestal option

Arron

## R5000



Simply a great multi-purpose radiant fire built to produce substantial heat whilst being highly efficient.

- NES, ECAN and ORC Airshed 1 approved
- Efficiently heats areas 190m<sup>2</sup>
- Superior heat from 6mm steel firebox and 8mm radiant cook top
- Masonary fire bricks and 6mm steel baffle for efficient burning
- Leg option or Pedestal with Easy Clean ash pan option available
- Optional 2 speed Fan
- 9 hour Burn time
- Optional water booster available, Clean air approved (2.7 kW max)

**FINISH:** Metallic Black VHT

**LAB PEAK OUTPUT:** 19kW

**EMISSIONS:** 0.5g/kg **EFFICIENCY:** 71% (DRY)

**EMISSIONS:** 0.6g/kg **EFFICIENCY:** 66% (WET)

**EMISSIONS:** 0.7g/kg **EFFICIENCY:** 73% (FAN)

**DIMENSIONS (WxDxH):** 700 x 576 x 720mm



## R5000 Wood Stacker



A large multipurpose radiant fire with a convenient wood storage solution.

- NES, ECAN and ORC Airshed 1 approved
- Efficiently heats areas 190m<sup>2</sup>
- Superior heat from 6mm steel firebox and 8mm radiant cook top
- Masonary fire bricks and 6mm steel baffle for efficient burning
- 9 hour Burn time
- Optional water booster available, Clean air approved (2.7 kW max)

**FINISH:** Metallic Black VHT

**LAB PEAK OUTPUT:** 19kW

**EMISSIONS:** 0.5g/kg **EFFICIENCY:** 71% (DRY)

**EMISSIONS:** 0.6g/kg **EFFICIENCY:** 66% (WET)

**DIMENSIONS (WxDxH):** 700 x 576 x 804mm

**Masport®**  
Heating

**MODELS.**
**OSBURN 1600 DRY**
**OSBURN 1600 WET**
**OSBURN 1600 MKII WET**

## Floor Protector Construction (Hearth)

For minimum Floor protector dimensions refer to following data. The floor protector must extend at least 300mm beyond the door opening of the heater (measured from glass) and 200mm to each side of the door opening. Floor protector specification (AS/NZS2918: 2001) minimum floor protector only eg. Ceramic tiles glued to a continuous sheet of 6mm fibre cement sheet. A provision has been made on the base (behind pedestal) for seismic restraint by bolting through the two holes through the hearth and floor.

## Clearance Requirements

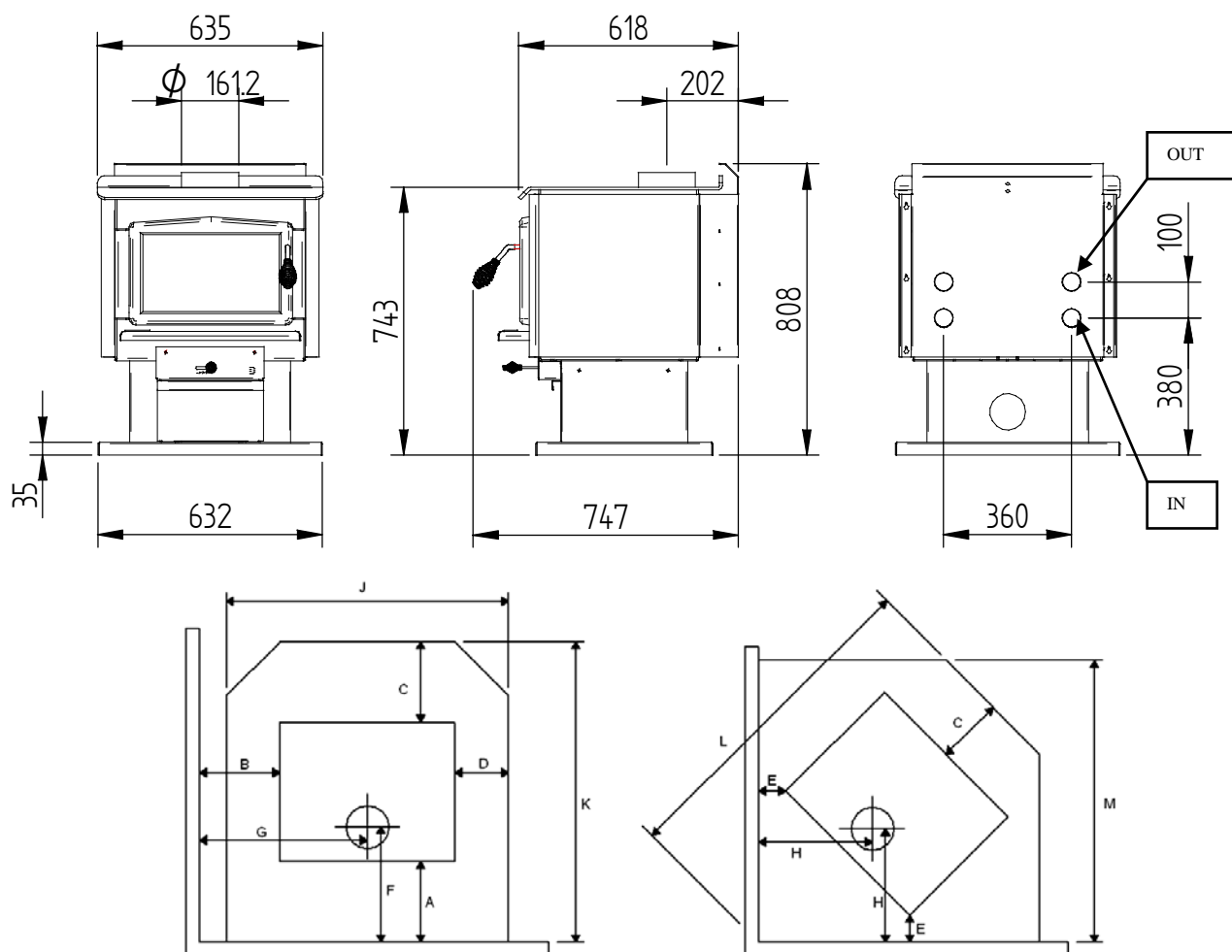
The Osburn 1600 (Dry or Wet) has been tested and complies to the Australian/New Zealand Standard AS/NZS 2918:2001 and all installations must be in accordance with the minimum clearances to combustibles indicated in these instructions.

The minimum clearances to combustibles may be reduced if the combustible walls are shielded with an approved non-combustible material. Details of suitable shielding materials and appropriate clearance reduction factors are present in Section 3 of AS/NZS 2918:2001.

Minimum clearances to combustibles in millimetres AS/NZS 2918:2001

<b>NEW ZEALAND</b>	A	B	C	D	E	F	G	H	J	K	L	M
With MASPORT double skin flue shield	100	360	300	81	150	300	678	483	796	1003	1386	1156

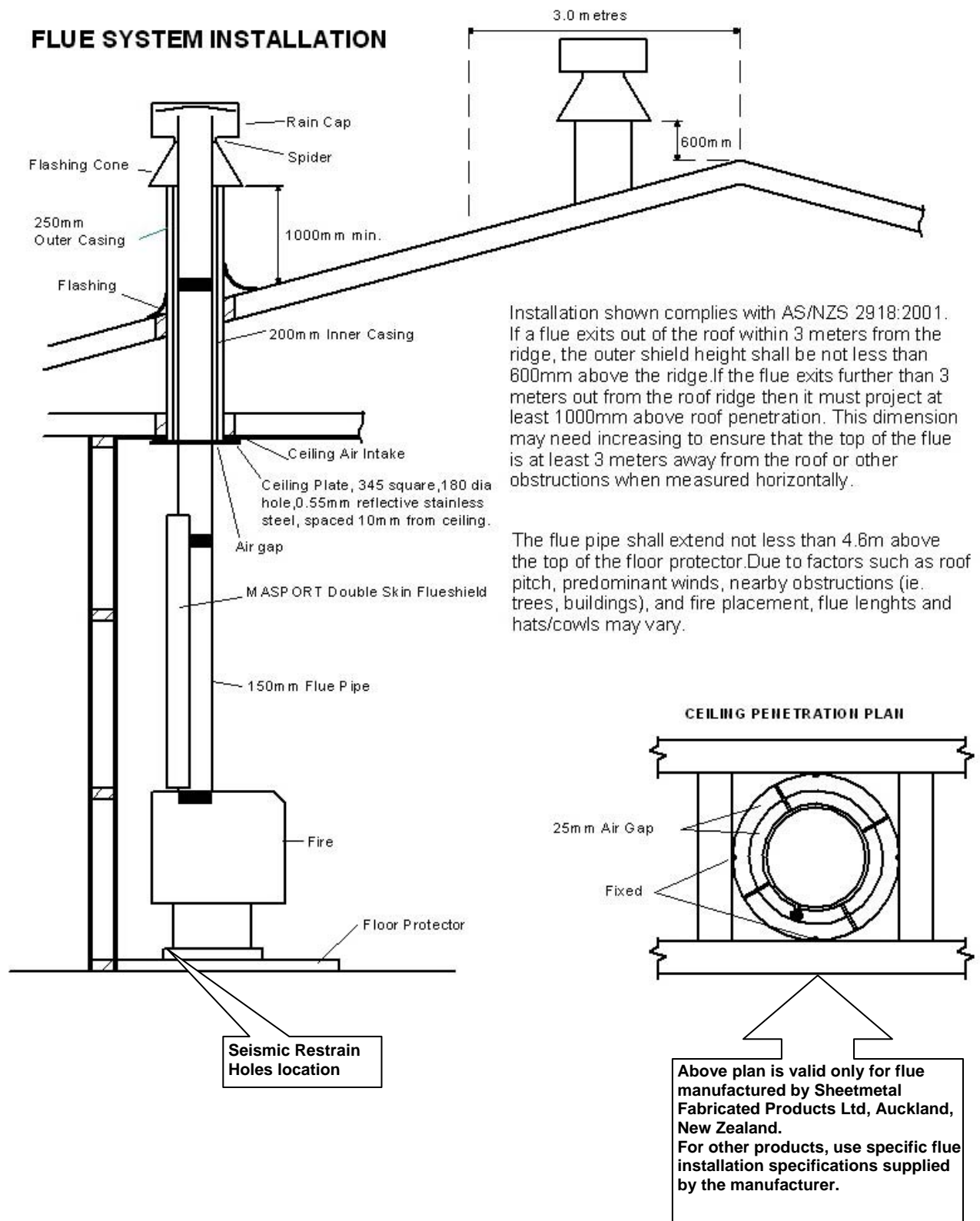
\* Note : All specifications are subject to change or variation without notification.



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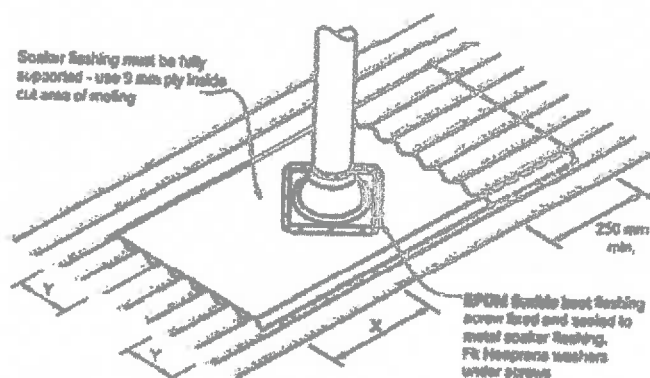


**Seismic Restrain** - In New Zealand and some part of Australia, it is required that the wood fire and floor protector are secured to prevent shifting in the event of an earthquake. This is best done by fastening the wood fire right through the protector to the floor, using two screws not less than 12 gauge or the equivalent size of coach bolts or toggle fasteners.

Wood Burner Flue Flashing – only for roof pitches 10 degrees or higher.

Department of Building and Housing (DBH) have adjusted Fig 5-4 (below) to accommodate pipe penetrations up to 500mm diameter. They will also show the roofing sheet above the flat flashing to be a separate sheet rather than a 'slit' sheet as implied in the document to date. This will be published in the reprint of the Building Code June/July, 2005.

(4) Suitable only for roof pitches of 10° or higher.



FIRE IS FREE STANDING AND NOT IN A CHIMNEY/  
HAVE ALSO PURCHASED A 4M FLUE KIT  
AND A FLUE SHIELD.

FIRE IS TO BE FITTED BY  
M. WILLIAMS

117 ~~STAPLES~~ STAPLES ST  
MOTUEKA

WHO IS A QUALIFIED / CERTIFIED / LICENCED FIRE  
INSTALLER

HOPE ALL ENCLOSED IS OK

REGARDS Terry

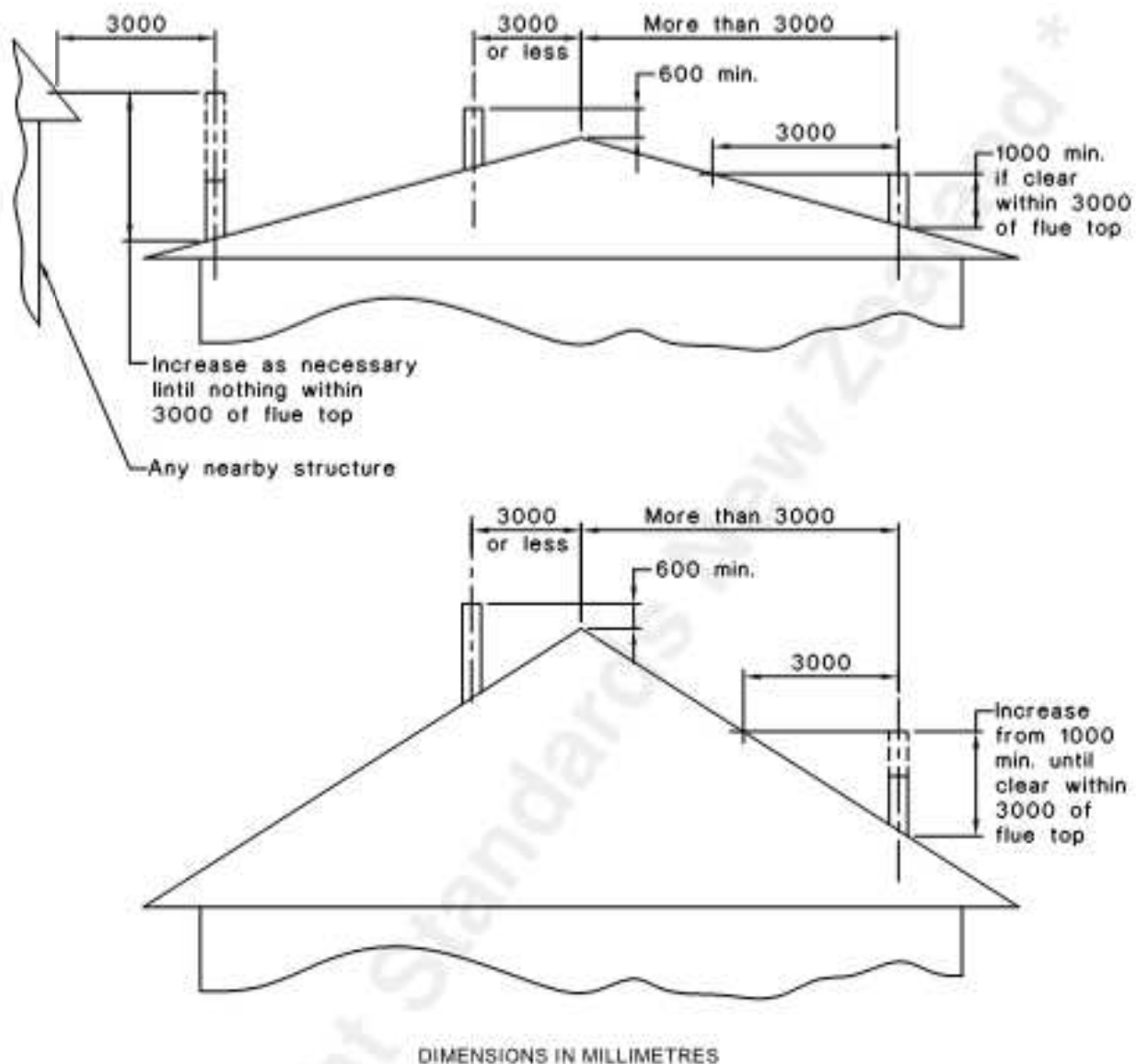


FIGURE 4.9 MINIMUM HEIGHT OF FLUE SYSTEM EXIT

#### 4.11 FLUE PIPES IN CHIMNEYS

For appliances discharging combustion products through a chimney, the chimney shall be inspected for soundness and thoroughly cleaned before a flue pipe is installed. The air gap between the flue pipe and the chimney shall be open at the top of the chimney to the extent that the total opening area is not less than 10 000 mm<sup>2</sup>. The chimney exit shall be fitted with means to prevent significant ingress of water and debris, and such means shall be constructed and fitted to maintain a total opening area at the chimney exit of not less than 10 000 mm<sup>2</sup>.

The flue pipe shall terminate outside the chimney in accordance with the requirements of Clause 4.9.1.

#### 4.12 FLUE DAMPERS

The appliance installation shall not include a flue damper unless such a device has been approved in writing by the appliance manufacturer.



# WOOD FIRE INSTALLATION GUIDE

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information consult an authorized technician, or your Masport Wood Fire Dealer.

**FOR YOUR SAFETY:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance. Installation and service must be performed by authorized personnel.

**PLEASE KEEP THESE INSTRUCTIONS FOR FURTHER REFERENCE.**

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**THE INSTALLATION INSTRUCTIONS IN THIS MANUAL APPLY  
TO MASPORT WOODFIRES:-**

(Softwood and Hardwood refer to the fuel used for emission testing.  
See the compliance plate attached to the heater)

Fireplace Insert models may be installed in a timber framed structure instead of a masonry fireplace by using a 'zero clearance' installation kit. Full instructions are included with the kit.

**NOTE: WHILE ALL MODELS HAVE BEEN TESTED TO SHOW COMPLIANCE WITH THE EMISSION LIMITS OF AS/NZS.4013:1999, ONLY SOME MODELS MAY BE INSTALLED IN DISTRICTS HAVING LOWER ALLOWABLE EMISSION LIMITS. PLEASE CHECK WITH YOUR BOROUGH OR SHIRE COUNCIL BEFORE PURCHASING A HEATER OR INSTALLING A WATER BOOSTER.**

**THIS BOOK CONTAINS IMPORTANT  
INFORMATION.  
PLEASE KEEP IT IN A SAFE PLACE FOR  
FUTURE REFERENCE.**



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# **INTRODUCTION**

In the interests of your safety, most building regulatory Authorities in Australia and New Zealand require any wood fire installation to comply with Installation Standard AS/NZS 2918. They may also have local requirements in addition to those in the Standard. Check with your local Building Authority before commencing installation to find if you will require a Permit and whether there are extra requirements. All MASPORT Wood fires have been tested to ensure that they will meet the appropriate safety Standard requirements if the instructions in this book are followed. As the safety and emissions performance can be affected by altering the appliance, no modifications are allowed without written permission from the manufacturer.

Wood fire models covered by this manual have been tested to demonstrate compliance with current general emission requirements in Australia and New Zealand, but some areas have stricter limits. Only some of the models meet those limits, so check before purchasing or installing a particular model.

In areas covered by stricter emission regulations:-

- (I) If a water-heating device is permitted, it must be factory fitted or be a MASPORT accessory retrofitted strictly in accordance with the instructions supplied by MASPORT.
- (II) Coal must not be used as a fuel.
- (III) Wood fuel must have a moisture content of less than 25%.

**WE RECOMMEND THAT THE INSTALLATION OF YOUR MASPORT WOODFIRE BE CARRIED OUT BY A QUALIFIED SPECIALIST INSTALLER.**

**IF ANY ELECTRICAL WORK IS REQUIRED, IT MUST BE CARRIED OUT BY A LICENSED ELECTRICIAN.**

**WARNING: THE APPLIANCE AND FLUE SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.**

**WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING 'TESTED TO AS/NZS 4013'. ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITNG BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.**

**WARNING FOR APPLIANCES WITH WATER HEATING DEVICES: DO NOT CONNECT TO AN UNVENTED HOT WATER SYSTEM. INSTALL IN ACCORDANCE WITH AS 3500.4.1 OR NZS 4603 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.**

**IN SOME REGIONS POWER POINTS ARE NOT PERMISSIBLE WITHIN THE FLOOR PROTECTOR AREA, PLEASE CHECK WITH YOUR LOCAL AUTHORITY.**

**PLEASE ENSURE THAT ONLY COMPONENTS APPROVED BY MASPORT ARE USED FOR THE INSTALLATION, as substitutes may adversely affect performance and might nullify compliance with the requirements of AS/NZS 2918.**

**CAUTION: MIXING OF APPLIANCE OR FLUE SYSTEM COMPONENTS FROM DIFFERENT SOURCES OR MODIFYING THE DIMENSIONAL SPECIFICATION OF COMPONENTS MAY RESULT IN HAZARDOUS CONDITIONS. WHERE SUCH ACTION IS CONSIDERED, THE MANUFACTURER SHOULD BE CONSULTED IN THE FIRST INSTANCE.**

**CAUTION: CRACKED AND BROKEN COMPONENTS, e.g. GLASS PANELS, MAY RENDER THE INSTALLATION UNSAFE.**

**TO AVOID THE RISK OF ELECTRIC SHOCK OR CONTACT WITH MOVING PARTS, ONLY THE MANUFACTURER, THE MANUFACTURER'S SERVICE AGENTS OR SIMILARLY QUALIFIED PERSONS SHOULD REMOVE PANELS WHICH ALLOW ACCESS TO FANS.**

## **UNPACKING**

After removal of the shipping carton, open the door and lift it from its hinges. Do not remove the polystyrene packers above the top baffle of the firebox at this stage. Do NOT discard the top baffle. Remove the pedestal components from the firebox in the case of fires requiring pedestal assembly. Remove and discard the four bolts holding the wood fire to the shipping pallet.

Remove the wood fire from the pallet, lifting only from the lower edge of each side.  
**DO NOT LIFT BY THE LOWER FRONT PANEL OR THE REAR PANEL.**

## **ASSEMBLY OF FREESTANDING MODELS**

### **PEDESTAL.**

Some models are shipped with the pedestal dis-assembled. For these models, the first step is to assemble the pedestal. The table inside the front cover of the owners manual will help you identify the various fastenings. Secure the two pedestal sides to the front, using four M6x12 set screws and taking care that the bottom flanges of the side panels align with the bottom flange of the front panel. The side with the square hole for the fan switch, (some models only), goes on the right (as viewed when looking at the front of the front panel). The top flange of the front panel will be above the top flanges of the side panels. Fit the slotted pedestal rear panel, positioned as shown in the diagram, using the four black 12mm long self-threading screws (sharp points).

### **FAN.**

On some models a fan is available as an accessory and, **when permitted by the local authority**, can be retrofitted to the fire. The fan is **not** permitted in the Christchurch Clean Air Zones and Canterbury.

**The fan MUST only be operated when the air control is set on 'HIGH'.**

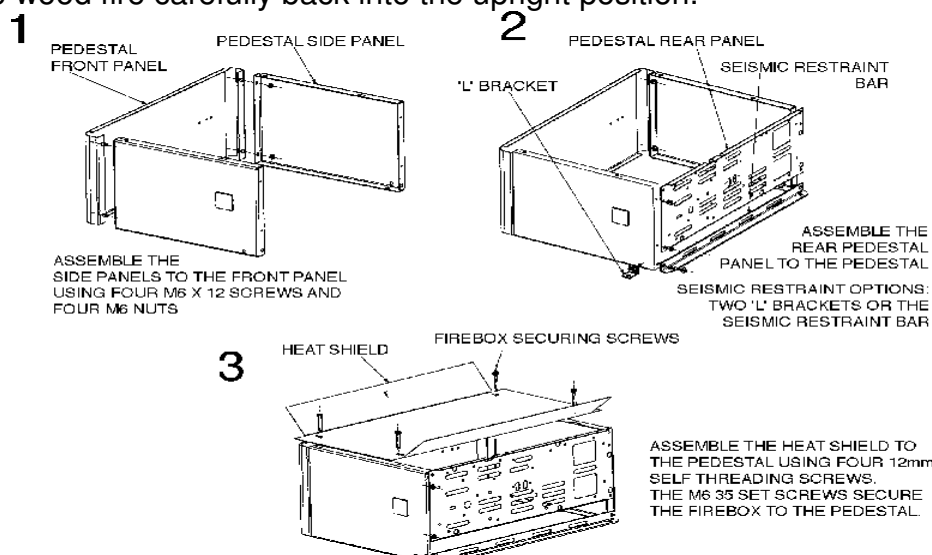
Fit the fan to the fire as per instructions supplied with the fan.

### **BOTTOM HEAT SHIELD.**

Using the four zinc plated 12mm long self-threading screws (blunt points), screw the heat shield to the top of the pedestal assembly with the turned up ends of the heat shield facing upwards. Check that the pedestal foot and trim (if any) will fit snugly around the assembled pedestal before tightening all assembly screws fully.

Roll the wood fire carefully onto its back, using the flattened carton to protect the floor. Taking care that the slotted pedestal rear panel will be at the rear, attach the pedestal and heat shield assembly to the firebox using the four M6 x 35 set screws, four M6 flat washers and four M6 Hexagon nuts. Place the washers on the setscrews and pass the screws from inside the firebox into the pedestal. The nuts will be inside the pedestal. Check the alignment of the pedestal before tightening the nuts firmly.

Roll the wood fire carefully back into the upright position.



## **POSITIONING YOUR FREE-STANDING WOODFIRE**

Freestanding wood fires must not be installed in a fireplace or alcove, or under a ceiling of less than 2.3m height.

No wall or other fixed object may be closer to the front of the wood fire than one metre.

When fitting a hot water booster, the wood fire should be close to the water cylinder.

Determine the installation position for your wood fire only after considering the necessary clearances (See Installation Specification Sheet) and checking the practicability of installing the flue system.

Regard heat resistant walls with heat sensitive surface treatments (e.g. wallpaper or heat sensitive paints) as heat sensitive walls.

There must be a 25mm gap between the flue shieldings (see Installation Specification Sheets for size ) and any combustible material. This space must be available without the removal of structural beams.

Flue installations other than strictly vertical ones are possible. See AS/NZS 2918 for information on non-vertical flues and flues passing through walls and eaves.



## **FLOOR PROTECTOR (Hearth) REQUIREMENTS — Freestanding models**

Unless your wood fire will be standing on an un-covered fireproof floor (containing no combustible material) extending at least 500mm from the appliance, it will be necessary to provide a floor protector (hearth). See below for construction details. Where the minimum size requirements bring the side of the floor protector nearly to a wall, it is advisable to extend the protector to meet the wall.

## **CORNER FLOOR PROTECTORS (Hearths)**

The Installation Specification Sheets of your heater, details the MINIMUM size of floor protector necessary to comply with the Safety Standards, it may often be desirable to use a larger size for aesthetic reasons. A particular example is when the wood fire is installed diagonally in a corner. It will be more practical to carry the protector right into the corner and shape it as shown. The chart facilitates calculation of the MINIMUM dimensions required for floor protectors of this shape. Minimum allowable values for dimension 'E' are given in the Installation Specification Sheets for your particular model.

## **FLOOR PROTECTOR (Hearth) CONSTRUCTION**

**In AUSTRALIA**, the minimum floor protection requirement is a sheet of 6mm fibre cement board. It is usually fastened directly to the floor.

**In NEW ZEALAND**, some wood fires must have an insulating floor protector. (See Installation Specification Sheets). All other current models may be installed on an ash type floor protector. Of course, all models may be installed on insulating floor protectors if desired. The necessary minimum construction details for ash and insulating floor protectors are shown below, and such constructions are suitable for use on solid timber or particleboard floors. Bricks or concrete in contact with the flooring material **DO NOT provide the required insulation**. If the floor within 500mm of the appliance is concrete and has no combustible material in contact with it, a floor protector is not required. In this case, if tiles or pieces of slate etc. are required for decorative purposes, they may be fixed directly to the concrete floor.

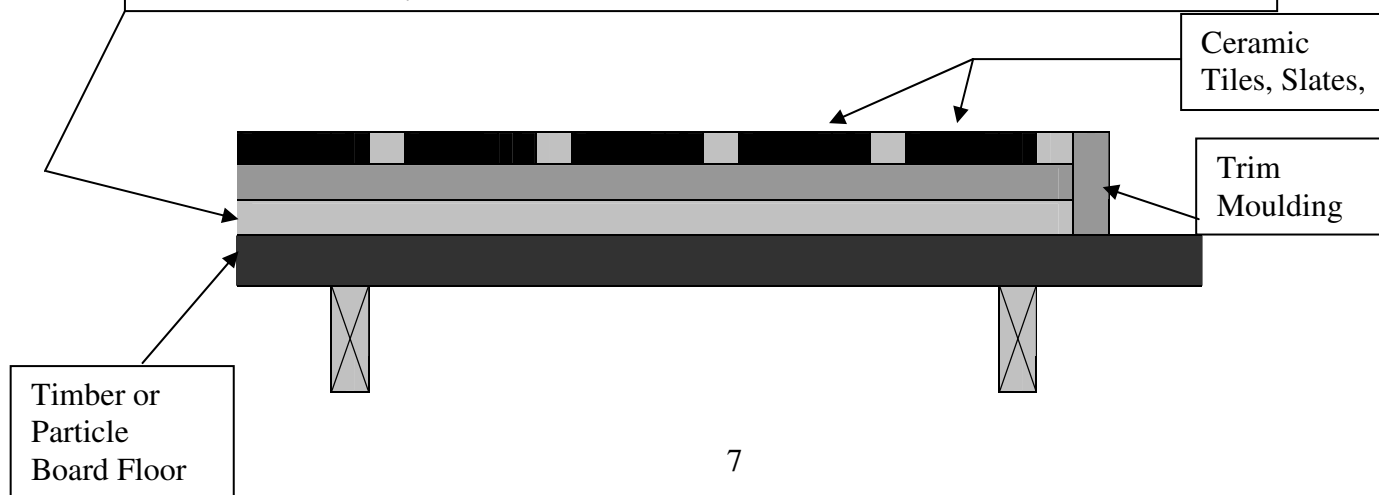
**In BOTH COUNTRIES**, the protector must extend right under the wood fire and a durable top surface will be needed to resist damage from heat or dropped embers. Obvious surface materials are slate, bricks and ceramic tiles. Any gaps in the top surfacing material must be grouted to prevent the penetration of embers. A trim moulding will provide a neat edge finish.

### **Minimum Floor Protector (Hearth) Construction Requirements**

**AUSTRALIA** - One Sheet 6mm Fibre Cement Board

**NEW ZEALAND – Insulating Floor Protectors:-** Two Sheets of 16mm thick MICORE 160 or One Sheet of WOODEX (35 Thick).

**Ash Floor Protectors:-** One Sheet 6mm Fibre Cement Board (e.g. Hardies TILE & SLATE UNDERLAY)



## **INSTALLING THE FLUE**

You **MUST** use a flue system, which complies with the current installation Standard AS/NZS 2918.

Full instructions are supplied with the flue kit, and these **MUST** be followed closely, including the minimum flue exit height from the top of the floor protector and the minimum exit height above the roofline or roof ridge as detailed in the instructions.

**Always seal the flue to the flue socket of the firebox** using firebox cement or fiberglass rope.

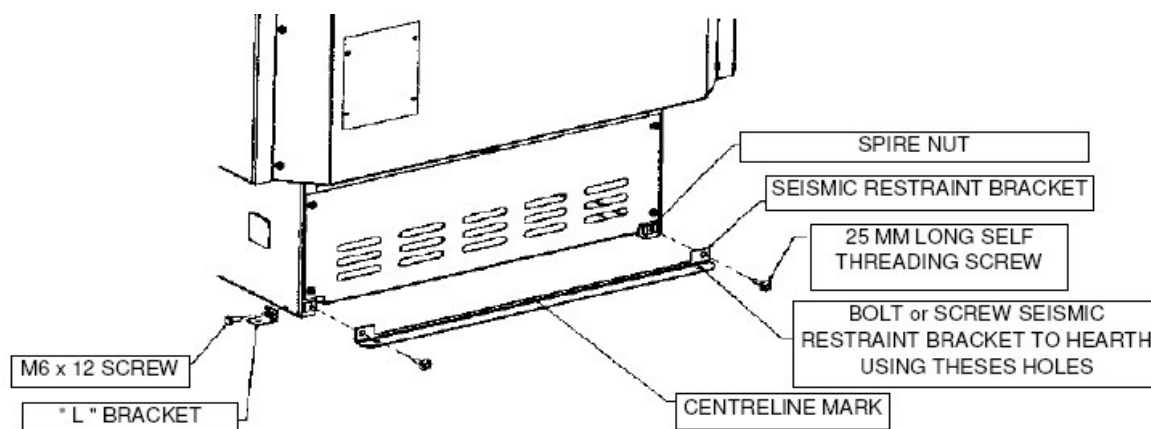
Only flue systems tested with your particular model are approved for use at the tabled clearances, see Installation Specification Sheets.

### **OTHER FLUE SYSTEMS**

Flues and flue heat shields other than those listed on the Installation Specification Sheets may be used, but if they have not been tested with these heaters, their installation clearances will be those specified in AS/NZS 2918 : 2001 for untested flue installations. Unless otherwise specified, all heat sensitive wall material must be kept at least 600mm away from any flue, which is not fitted with a flue heat shield.

## **FIXING THE WOODFIRE IN POSITION**

Once the flue shielding system has been installed through the ceiling and roof, the wood fire can be placed in its approximate position on the floor protector, and the flue pipes installed. First, reach down through the flue spigot and carefully remove the polystyrene packing above the firebox top baffle, remembering that the baffle can be broken by rough handling. Finally adjust the stove position making sure the flue is vertical and that the necessary minimum wood fire-to-wall distances are being achieved. In New Zealand and some parts of Australia, Standards require that the wood fire and floor protector be secured to prevent shifting in the event of an earthquake. This is best done by fastening the wood fire right through the protector to the floor, using two screws not less than 12 gauge, or the equivalent size of coach bolts or toggle fasteners. Anchor the appliance through the holes in the seismic restraint bracket at the rear of the pedestal or in the two angle brackets supplied with some models. The angle brackets attach at each side of the pedestal (except for some of the smaller models, where they attach at the rear). The pedestal can be fastened to the seismic restraint bracket either before or after fitting the anchor screws. The small centerline hole in the bracket will help in pre-positioning it.



## **FINAL ASSEMBLY**

Before using the wood fire, confirm that the internal firebox components are in their correct positions. (See 'FIREBOX LINERS' in the Maintenance section of the Owners Manual).

Make sure that the baffle is correctly placed on top of the supporting shelves at each side of the firebox, and that it is back far enough for the two front corners to drop behind the retaining ribs on top of the shelves. On some models, a metal reinforcing channel is provided for the baffle. Fit this along the edge of the baffle nearest the door.

If you need to remove the top baffle, first withdraw the secondary air tube following the instructions in the Maintenance section of the Owners Manual.

In cases where a pedestal foot is to be fitted, simply fit the trim into the foot and slide the assembly onto the pedestal, keeping the foot in contact with the Floor protector all the time to avoid marking the finish on the sides of the pedestal.