



Fitting Guidelines.

MODENA

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Front cover.

Fitting Guidelines: MODENA

(These guidelines consist of 8 pages).

Important.

- Please read all these guidelines and diagrams before commencing any installation.
- This fireplace **should be** installed by an experienced, suitably qualified, and competent fireplace fitter.
- The fireplace installation is **not** recommended as a DIY or single person installation.
- The fireplace installation **must be** in accordance with Current National laws, Building Regulations, and any Rules in Force.
Current Document J outlines various British Standards that cover all aspects of fireplace installation for England and Wales. The latest revision of BS 1251: 2015 refers to; Open fireplace components. The fixing of stonework is covered by BS 8298 “Code of practice for Design and Installation of Natural Stone Cladding and Lining.
- Refer to the Stone Federation of Great Britain, guidance on fire surrounds. (www.stonefed.org.uk)
- This fireplace **must only** be installed onto floors with an adequate load-bearing capacity. If an existing construction does not meet this requirement, suitable measures (e.g., load distributing plate) must be taken. **Must be** in accordance with Current National laws, Building Regulations & any Rules in Force.
- Should any conflict occur between these guidelines and any Current National laws, Building Regulations, and any Rules in force then the Current National laws, Building Regulations and Rules in Force shall apply.
- The fireplace installation **must be** in accordance with planning permission and local building control.
- Any solid fuel appliance installation completed in conjunction with this fireplace **must be** installed by a HETAS (England and Wales), registered installer or approved by your local building control officer. For further details go to www.hetas.co.uk . For areas outside England and Wales you must check the registered installer that may be required to ensure the appliance is installed to Current National laws, Building Regulations, and any Rules in Force. Also refer to the appliance manufacturers instructions.
- Before any electrical components are connected to the main electrical supply such as fireplace ambient lighting etc **must be** checked for suitability and safety by a suitably qualified electrician as below.
- Any electrical connections made whilst fitting this fireplace **must be** made by a suitably qualified and registered electrician and meet the requirements of Current National laws, Building Regulations, and any Rules in Force.
A recognised independent body for registered electricians in England, Wales, Scotland, and Northern Ireland is the National Inspection Council for Electrical Installation Contracting (NICEIC). Go to www.niceic where you will find a search facility to find NICEIC registered electricians.
- Any gas appliance installation made in conjunction with this fireplace **must be** completed by a Gas Safe registered gas engineer, or equivalent for other Nations in accordance with the gas fire manufacturer’s instructions, Current National Laws, Building Regulations, and any Rules in Force. You can find more information and registered Gas Safe engineers at www.gassaferegister.co.uk
- Only install the fireplace to a suitable solid brick wall of sound construction and suitable to support the full weight of the fireplace. The brick wall **must** meet the requirements of Current National laws, Building Regulations, and any Rules in Force.

- If the fireplace cannot be permanently fixed to a solid brick wall, such as block work, studwork, or any other type of structure, then we recommend that you consult an architect or structural engineer for advice.
- The fireplace is only suitable for interior installations.
- All fireplace mechanical fixings **must be** at least galvanised steel but preferably Stainless-Steel and be totally corrosion and heat proof and of adequate size and strength to fix the fireplace safely & securely.
- The consequences of failure of a fireplace incorrectly installed and secured are extremely serious. It is essential that the fireplace is installed and secured to withstand foreseeable abuse such as a child pulling down on a cantilevered shelf etc.
- Always inform the user when the fireplace can be used for the first time considering the full drying times for adhesives etc that have been used.
- Fixing brackets **must be** used when installing the fireplace.
- Lock wire with anchorage points **must be** used when installing the fireplace.
- Fixing dowels **must be** used when fitting the fireplace shelf and to any other overhanging parts. The shelf and any other overhanging components should be adequately restrained in all instances as they are liable to tip forward so it is imperative any overhanging part is securely fixed back into the brick wall so there is no possibility of any piece tipping and falling.
- The fireplace **must be** completely adhered to the brick wall with suitable adhesive. Such products should only be used for applications approved by the manufacturer. If there is any doubt, the adhesive manufacturer should be consulted.
- Gypsum based products is not recommended as an adhesive and should **not** be used.
- **Never** use adhesive alone to fit the fireplace
- Bracket fixings, anchorage points and dowels to be installed into brickwork **not** plaster.
- All mechanical fixings to be chased into the mounting wall brickwork to enable complete contact to all mating rear surfaces of the fireplace to the brick wall, this is required so a total bond can be made when also adhering the fireplace to the brick wall.
- Ensure all mechanical fixings do not obstruct total face to face contact of any fireplace mating parts.
- Use suitable heat proof white or clear stone silicone adhesive between **all** mating stone pieces. (Ensure to protect fireplace visible stone surfaces from silicone over spill).
- **Never** drag mating stone pieces together when fixing, as this could chip and scratch the stone.
- Grouting of stone joints can be made by using suitable white tile glue ensuring you wash of residue with clean water.
- It is recommended that after installation and when the fireplace has completely dried, that a suitable stone sealer is used to seal all visible stone surfaces, only when the appliances being used is switched off and the appliance and fireplace are completely cold. Refer to your fireplace retailer for advice.
- You **must** supply and fit, in correct position a data plate showing all correct information in accordance with Current National laws, Building Regulations and any Rules in Force.
- Ensure that purpose provided room ventilation is provided in accordance with Current National laws, Building Regulations, and any Rules in Force.
- Ensure these fitting guidelines together with the fireplace Customer Care & Safety sheet are given to the customer. Subsequently these to be passed on to any new homeowner or occupier.

Important.

Ensure the fireplace is fixed to the brick wall safely and securely and fitted correctly to all Current National laws, Building Regulations, and any Rules in Force.

If this cannot be achieved **do not fit the fireplace** until any fault is rectified, to ensure a safe & secure fireplace installation.

Safety precautions.

- Use all necessary safety clothing, for example:
- Suitable dust masks where there is a risk of dust contamination
- Suitable protective gloves.
- Suitable Protective footwear.
- Suitable Protective eye goggles.
- Never wear loose clothing or jewellery.
- Ensure long or loose hair is adequately protected, so as not to be a hazard when using tools etc.
- Ensure all fitting tools and equipment to be used are in good working order and safety approved and suitable for the use intended.
- Always comply with all Current Health & Safety Regulations.
- This fireplace has parts that are irregular in shape and above 25kg in weight, therefore installation is recommended for more than one person or suitable lifting equipment to be used.

Types of fires suitable for the Modena.

- Newman Eco Clarity High Efficiency gas fire.

Important.

- Solid fuel fires of any type are **not** suitable for the above models and **must not** be used.

Chimney Type.

- Class 1. The chimney and flue **must be** in accordance with Current Building Regulations and any Rules in Force, with a suitable builder opening and flue, for your selected fireplace and appliance combination.
- Chimneys and flues **must be** swept, checked, and tested by an approved chimney sweep to confirm the chimney and flue is in good safe condition & suitable for the appliance being installed prior to fireplace installation,

Fireplace inspection and precautions.

- Before installation the fireplace **must be** thoroughly checked for faults or damage. If any fault or damage is observed the fireplace **must not** be installed and the problems reported to your fireplace retail supplier. No claims of this nature will be accepted after the fireplace is installed.
- Limestone is soft and therefore can easily be damaged on installation, therefore all precautionary measures must be taken to avoid these situations i.e., taking extreme care when handling stone and always use suitable covers to protect stone whilst using equipment and fixing materials.

Fitting Guidelines. (To be used in conjunction with diagrams).

This fireplace will require other fixing materials including:

- Suitable stainless-steel screws, washers, and wall plugs.

- Suitable stainless steel locking wire and anchorage points (can be suitable stainless-steel screws, washers, and wall plugs).
- Heat resistant silicone adhesive suitable for stone, brickwork & masonry in clear or white finish that must have a minimum temperature rating range from -20°C to $+1200^{\circ}\text{C}$.
Important: When silicone adhesive is mentioned in the guidelines then the above is the minimum requirement
- Heat resistant Thixotropic two-part resin chemical anchor glue suitable for stone, brickwork, masonry, and metal with a minimum temperature range of -20°C to $+300^{\circ}\text{C}$.
- **Important:** When Thixotropic chemical resin is mentioned in the guidelines then the above is the minimum requirement.
- Suitable sealer for stone and brickwork.
- White dry lining wall adhesive or white cement and silver sand for bedding hearth.
Always follow manufacturer's instructions for all adhesives and cements.

- ⚠ Take all necessary measures to protect floor coverings / furnishings and any other items that could become damaged whilst delivering and during fireplace installation.
- ⚠ Ensure that any person or animal is restricted from any area whilst delivering and fireplace installation.
- ⚠ The holes drilled within the internal reinforcing blocks located to the left- and right-hand side of the internal top header, shelf and each leg provided to accommodate lock wire ties can vary.

Important note:

The fitting instructions supplied with the gas fire must be used in conjunction with the fireplace fitting guidelines as this type of high efficiency fire must be installed with the fireplace as it is an integral appliance.

- 1) With suitable testing equipment check for live electrical cables or gas pipes and any other obstructions or connections that maybe obscured within the area of intended fireplace installation. If found use a suitably qualified person to remove and make safe.
- 2) Remove all wall coverings and emulsion in area of intended fireplace installation. Ensure the chimney face is completely sound, dry, dust, grease, and contamination free before fitting. Seal all fixing areas. (Note: subject to adhesive manufacturer's instructions. The rear edges of all fireplace components are sealed with a stone sealer prior to delivery).
- 3) In properties with traditionally plastered brick walls the plaster should be cut back to enable the fireplace surround to be fixed directly to the brickwork behind. The plaster can then be made good around the fireplace surround after installation. Cut back and remove the plaster from the area of fireplace installation, remove up to approximately 10mm outside the profile of fireplace to be installed. Ensure the chimney brickwork face is completely sound, dry, dust and grease free before fitting. Seal all fixing areas with appropriate sealer. (Note: subject to adhesive manufacturer's instructions. The rear edges of all fireplace components are sealed with a stone sealer prior to delivery). Removal of the plaster is good practice as there will always be a risk of the fireplace surround becoming unstable should a failure of the plaster occur.
- 4) Correctly prepare the chimney builders opening. Refer to current Building Regulations and any Rules in Force including the appliance manufacturers instructions that relates to the appliance that is going to be installed to the fireplace. As the Modena does not use a hearth the installation must comply with current Building Regulations & any Rules in Force.
- 5) Use silicone adhesive to bond all mating rear surfaces of the base to the brick wall and at the same time bed the base to the floor using suitable 1 part heat resistant white cement and 5 parts

silver sand, ensure the base is level to all planes and central to the chimney. **Do not** use any coloured cement or sand or any other coloured products as this will discolour the stone.

- 6) **Important:** The Modena can be ordered with either dowel fixings or threaded stud, nut, and washer fixings. See below guidelines on each fixing method.

Cradle with dowel fixings.

- a) Permanently glue the two straight eyelet fixing brackets to each end of the cradle using thixotropic two-part resin chemical anchor fixing glue ensuring they are fully pushed into the stone and leave to dry.
- b) Lift the cradle into correct central position on top of the base and mark the positions of the cradle dowel positions and straight eyelet fixings to the wall. Remove the cradle.
- c) Drill a hole into the brick wall at each fireplace cradle dowel fixing position using a bit that is 8mm larger in diameter than the cradle dowel. Ensure the holes are of adequate depth to accommodate both dowels fully to enable the complete rear surface of fireplace cradle to be in contact to the brick wall. The holes must be of adequate size and in correct position to ensure the fireplace cradle does not have to be forced into the holes and to allow space for the thixotropic chemical anchor fixing glue to create a total bond around each complete dowel and hole in the brick wall when used at a later stage). **WARNING.** If the fireplace cradle dowels are forced into the brick wall accommodating holes this will create a very large force onto the stone that will cause damage and cracking to the fireplace.
- d) Using a 6mm diameter masonry bit, drill an angled airway from the base of dowel hole exiting above the dowel hole on wall surface. (This is required to allow air to escape when adding glue to the dowel holes). Alternatively, commercially available guns and nozzles can be used providing the nozzle will reach the full depth of hole as it is crucial that the thixotropic resin is used at the bottom of the hole first allowing air to escape as you fill the hole to its surface.
- e) Ensure both dowel holes in the brick wall and fireplace cradle dowel connecting threads are clean, grease and contamination free. Ensure the rear surface of the cradle and the brick wall face are totally clean and contamination free.
- f) At your pre marked straight eyelet bracket positions, drill the wall for suitable stainless-steel wall plugs, screws, and washers. Fit wall plugs.
- g) Ensure each threaded dowel and fireplace cradle threaded insert are fully clean and grease free, using suitable steel thread locking fluid placed onto all threads of dowels and inserts, screw the two fixing dowels fully into both fireplace cradle threaded inserts ensuring they are fully screwed into the inserts and tighten.
- h) Permanently fix the cradle to the brick wall. Use suitable thixotropic resin for brick, metal, and masonry to fully fill both previously drilled dowel holes within the brick wall. Use silicone adhesive to bond all rear mating surfaces of the cradle to the brick chimney. Position the cradle with each cradle dowel into each dowel hole containing the uncured Thixotropic two-part resin in chimney. Ensure the dowels are fully located into the dowel holes to enable the rear mating surfaces of the cradle to be totally bonded to the brick wall. Using suitable stainless steel-screws and washers through each eyelet bracket and securely fix the to the brick wall.
- i) Leave to dry.

Cradle with threaded stud, nut and washer fixings.

- a) Permanently glue the two straight eyelet fixing brackets to each end of the cradle using thixotropic two-part resin chemical anchor fixing glue ensuring they are fully pushed into stone and leave to dry.
- b) Lift the cradle into correct central position on top of the base and mark the positions of the cradle dowel positions and straight eyelet fixings to the wall. Remove the cradle.
- c) Drill a hole into the brick wall at each fireplace cradle threaded stud fixing position using a bit that is just slightly larger than the diameter of the threaded studs, ensure to drill completely through the brick wall. The holes must be of adequate size and in correct position to ensure the fireplace cradle does not have to be forced into the holes. **WARNING.** If you force the fireplace cradle studs into holes this will create a very large force onto the stone that will cause damage and cracking to the fireplace.
- d) At your pre-marked straight eyelet bracket positions, drill the wall for suitable stainless steel wall plugs, screws, and washers. Fit wall plugs.
- e) Ensure each threaded stud and each of the cradle threaded inserts are fully clean and grease free. Use suitable steel thread locking fluid placed onto all corresponding threads of each threaded stud and insert and screw each threaded stud fully into each cradle threaded insert ensuring they are fully screwed into the inserts and tightened. Ensure the threaded dowels are screwed into inserts using the correct end.
- f) Ensure the rear surface of the cradle and the mounting face of the brick wall are totally clean and contamination free.
- f) Permanently fix the cradle to the brick wall. Use silicone adhesive to bond all rear mating surfaces of the cradle to the brick wall. Lift the cradle and position each cradle threaded stud through each previously drilled holes within the brick wall. Ensure each threaded stud is fully located into each hole to enable all rear mating surfaces of the cradle to be fully bonded to the brick wall.
- g) Ensure the threaded studs are fully clean without contamination. Place each washer onto the threaded stud, use suitable thread and nut locking fluid and screw each nut onto each threaded stud to the rear side of the brick wall.
Tighten the nuts ensuring the cradle is fully bonded with the brick wall. **WARNING.** Do not over tighten the threaded stud nuts as this can cause damage to the cradle and the cradle threaded inserts.
- 7) Position the slips onto the cradle and mark the lock wire fixing positions to each slip to the brick wall. Remove all slips from the cradle. Drill the brick wall for suitable sized holes at each lock wire anchorage fixing position to accommodate suitable stainless-steel wall plugs to the chimney. Note: The brick wall will require to be recessed at the fixing point positions to allow the slips to be fully in contact with the brick wall when the lock wire anchors (suitable screw and washer) are fitted. Fit all stainless-steel wall plugs.
- 8) Starting with the lower slip, fully bond the rear surface of the lower slip to the brick wall with silicone adhesive, ensure the lock wires are pulled taut above the lower slip. Install suitable anchorage points to the wall plugs previously installed. Using the correct lock wire procedure securely tie each lock wire to each anchorage point. Repeat this process for both side slips and the top slip ensuring each slip is securely fastened to the brick wall.
- 9) Make good the plaster / render to the brick wall around the fireplace surround taking extreme care and protection to ensure there is no plaster / render contamination to the stone fireplace. (It is recommended that when the fireplace has totally dried, to seal all visible surfaces with a suitable stone sealer and let fully dry before carrying out the plaster / render process).

- 10) **Important:** Ensure the area around the fireplace fitting area is restricted to all persons, animals and valuables until all fitting materials have fully dried and cured and all fireplace components are deemed to be installed correctly and safely.
- 11) **Inform the customer / user** when the fireplace with appliance can be used, taking into account the full drying times for all the materials used.
- 12) **Ensure** the customer care sheet and the fitting guidelines provided are left with the customer and user.
- 13) It is highly recommended that before use the stone fireplace is sealed with a suitable stone sealer. Ensure the fireplace is cold and fully dry before sealing. Ask your fireplace retailer for advice and refer to the stone sealer manufacturer's instructions.

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SUPPLIED PARTS IDENTIFICATION

- 1) TOP SLIP
- 2) LOWER SLIP
- 3) LEFT SIDE SLIP BRACKET
- 4) RIGHT SIDE SLIP
- 5) CRADLE
- 6) BASE
- 2 X DOWELS
- 2 X STRAIGHT BRACKET

