NEWMAN FIREPLACES LTD

Fitting Guidelines.

MISTRAL

Index.

Fitting Guidelines: MISTRAL

(These guidelines consist of 9 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 stainless-steel 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 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 Mistral.

- Newman Eco High Efficiency Elegance or Clarity gas fire. At the date of fireplace order the model of gas fire selected must be given so the fireplace 4-piece slip set corresponds accordingly.
- Electric effect fires manufactured and approved to CE standards suitable for fireplace fire opening.

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's 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°c.
  Important: When silicone adhesive is referred to within 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°c.
- **Important:** When Thixotropic chemical resin is referred to within 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.

- Fire cement.
  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.

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.
5) Using suitable thixotropic two-part resin chemical anchor adhesive glue all the brackets into the holes and holes and slots provided to all the outer frame parts. The shaped brackets are used for the lower and both side outer frames and the straight brackets are used for the top outer frame. Leave to dry.
6) Dry fit the lower outer frame into correct position on the face of the brick chimney, mark both bracket positions to the wall. Remove the lower outer frame and drill holes for suitable stainless-steel steel wall plugs, screws, and washers. Fit wall plugs. Using suitable silicone adhesive fully bond the lower outer frame to the chimney. Using suitable stainless-steel screws and washer securely fit the lower outer frame to the brick chimney through each bracket eyelet.
7) Ensure both the threaded dowels and the lower header threaded inserts are fully clean and grease free, using suitable steel thread locking fluid placed onto all the threads of dowels that correspond to both lower header inserts, screw the two fixing dowels fully into both threaded inserts ensuring they are fully screwed into inserts and tightened. Ensure the threaded dowels are screwed into inserts using the correct end. (Shorter stud threaded end, see diagram).
8) Mark the position of both lower header fixing dowels to the brick wall, (the lower header fitting position is on top of the lower outer frame), also mark the outline of the lower header to the brick wall.
9) Drill a hole into the brick wall at each lower header dowel fixing position using a drill bit that is double the diameter of the dowel. Ensure the holes are of adequate depth to accommodate both dowels fully to enable the complete mating rear surface of the lower header to be in contact to the wall. The holes must be of adequate size and in correct position to ensure the lower header 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 holes in the wall when used at a later stage. **WARNING**. If the

lower header dowels are forced into the brick wall holes this will create a very large force onto the lower header that will cause damage and cracking to the lower header either immediately or later.

10) Using a 6mm diameter masonry bit; drill an angled airway from the base of each dowel hole exiting above the dowel hole on the brick wall surface. (This is required to allow air to escape when adding Thixotropic adhesive to the dowel holes).
11) Ensure both dowel holes and lower frame dowels are clean, grease free and contamination free. Ensure the rear surface of the lower frame and wall brick work is totally clean and contamination free. Seal brickwork subject to silicone adhesive manufacturer's instructions.
12) Pull the fixing brackets straight to protrude above the lower header to each side. Dry fit the lower header to the brick wall. Mark bracket positions to the wall for suitable stainless-steel steel wall plugs, screws, and washers. Take dimensions for suitable trestles to be used when permanently fixing the lower header to the brick wall. The trestles must be able to support the weight of the lower header and be stable whilst all glues are curing. Locate or manufacture suitable trestles. Remove the lower header. Drill the wall at your pre marked bracket positions to accommodate suitable stainless-steel steel wall plugs. Fit wall plugs.
13) Using suitable Thixotropic two-part resin chemical anchor fixing glue suitable for brick, stone, metal, and masonry, fully fill all dowel holes in the brick wall. Use suitable heat proof silicone adhesive for brick, cement, and masonry to cover all rear mating surfaces of the lower header where it meets the brick wall ensuring the two types of adhesives do not come into contact with each other. Position the lower header dowels into the dowel holes in the brick wall containing the uncured Thixotropic two-part resin. Ensure the dowels are fully located into the holes to enable the rear mating surfaces of the lower header to be fully bonded to the brick wall with the silicone adhesive. Use suitable trestles that are stable to support the weight of the lower header in correct position. Using suitable stainless-steel steel screws and washers through each lower header bracket and securely fix the lower header to the brick wall.
14) When all resins and glues are fully cured, (please read Thixotropic resin and adhesive manufacturer's instructions for use, safety and curing times etc). Remove trestles.
15) Position each leg in correct positions on the top of the lower header and mark the positions of each leg fixing brackets and lock wire anchorage points to the wall, considering the positions of the lock wire holes provided to each leg. Ensure the brackets are pulled taut and then mark the position of the closest bracket hole to each leg to the wall. Remove legs.
16) Drill the chimney wall to accommodate suitable stainless-steel steel wall plugs to the left- and right-hand leg bracket positions and lock wire anchorage point positions. Fit all stainless-steel steel wall plugs to the brick wall.
17) Use suitable heat proof white or clear silicone to fully bond all mating surfaces of both the left- and right-hand legs to the lower header and the brick wall. Pull each leg fixing brackets taut and screw to the wall using the previously installed wall plugs with suitable stainless-steel steel screws and washers. Thread suitable corrosion proof locking wire through both the left- and right-hand leg lock wire holes provided and using the correct lock wire procedure securely tighten so both legs are fully secured to the wall using suitable stainless-steel steel anchorage points to the previously fitted wall plugs.
18) Permanently fix the lower; both side and top slip in correct positions ensuring they are mechanically fixed to the brick chimney as the example shown on page 9 and fully bonded to all mating stone surfaces using suitable heat proof white or clear silicone. Ensure all slips are fully back filled to the chimney using suitable heat resistant white cement and either silver sand or vermiculite granules. Mixing ratio 1 part cement 5 parts silver sand or vermiculite granules.
19) Position the top header into correct position on top of both legs. Pull each bracket taut located to the left- and right-hand side of the top header and mark the bracket positions through the bracket hole nearest to the top header to the brick wall.

Identify the lock wire holes located to each side of the top header and mark the brick wall vertically above these holes just above the top header. Remove the top header. Drill the brick wall to accommodate suitable stainless-steel steel wall plugs to the left- and right-hand side bracket positions and lock wire anchorage point positions. Fit all stainless-steel steel wall plugs to the brick wall.

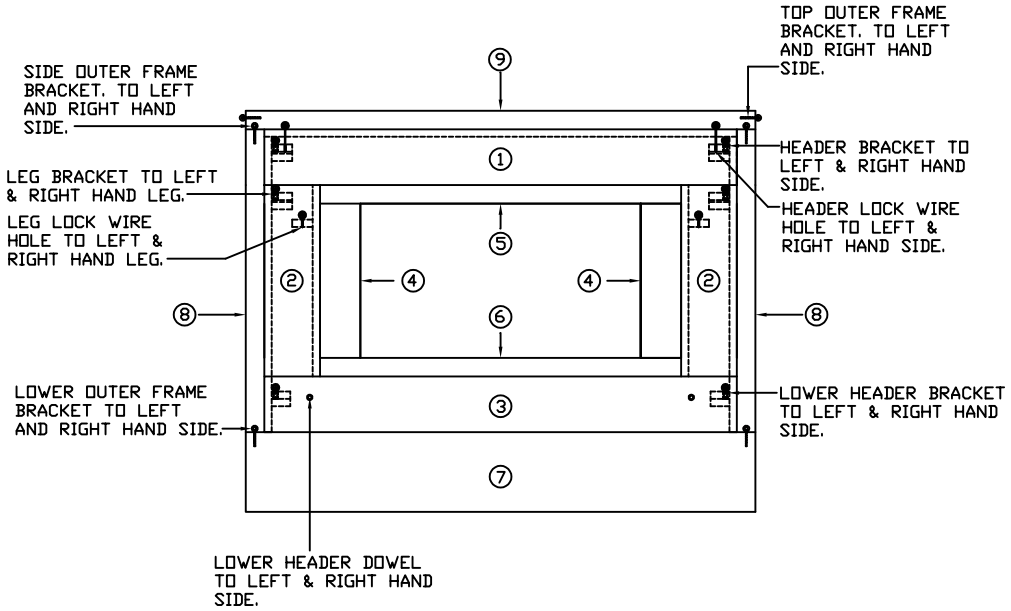
20) Thread stainless-steel lock wire through the left- and right-hand lock wire holes provided to the rear of the top header and leave over length above the top header. Use silicone adhesive to fully bond all mating surfaces of the top header to the legs, top slip, and the brick wall. Pull the left- and right-hand fixing brackets taut and screw to the brick wall using the previously installed wall plugs with suitable stainless-steel steel screws and washers. Fit stainless-steel anchorage points to the previously installed wall plugs above the top header. Using the correct lock wire procedure tie the top header left- and right-hand lock wires to the anchorage points ensuring the top header is securely fixed to the brick wall.
21) Dry fit both outer side frames into correct position on top of the lower outer frame against the brick wall. Mark the position of each bracket eyelet to the top of each side frame to the brick wall. Remove both outer side frames. Drill a hole into the brick wall at your marked bracket positions to accommodate suitable stainless-steel wall plugs, screws, and washers. Fit wall plugs. Use silicone adhesive to fully bond each outer side frame to the brick wall and all mating surfaces of the fireplace. Use suitable stainless-steel screws and washers through each bracket eyelet and fully secure each outer side frame to the brick wall.

    Dry fit the outer top frame in correct position to the brick wall and top header. Mark the position of each eyelet bracket located to each side of the top outer frame to the brick wall. Remove the top outer frame. Drill a hole into the brick wall at your marked bracket positions to accommodate suitable stainless-steel wall plugs, screws, and washers. Fit wall plugs. Use silicone adhesive to fully bond the top outer frame to the brick wall, and to all mating fireplace surfaces. Use suitable stainless-steel screws and washers through each bracket eyelet and fully secure the outer top frame to the brick wall.
22) 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).
23) **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.
24) **Inform the customer / user** when the fireplace with appliance can be used, taking into account the full drying times for all the materials used.
25) **Ensure** the customer care sheet and the fitting guidelines provided are left with the customer and user.
26) 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.

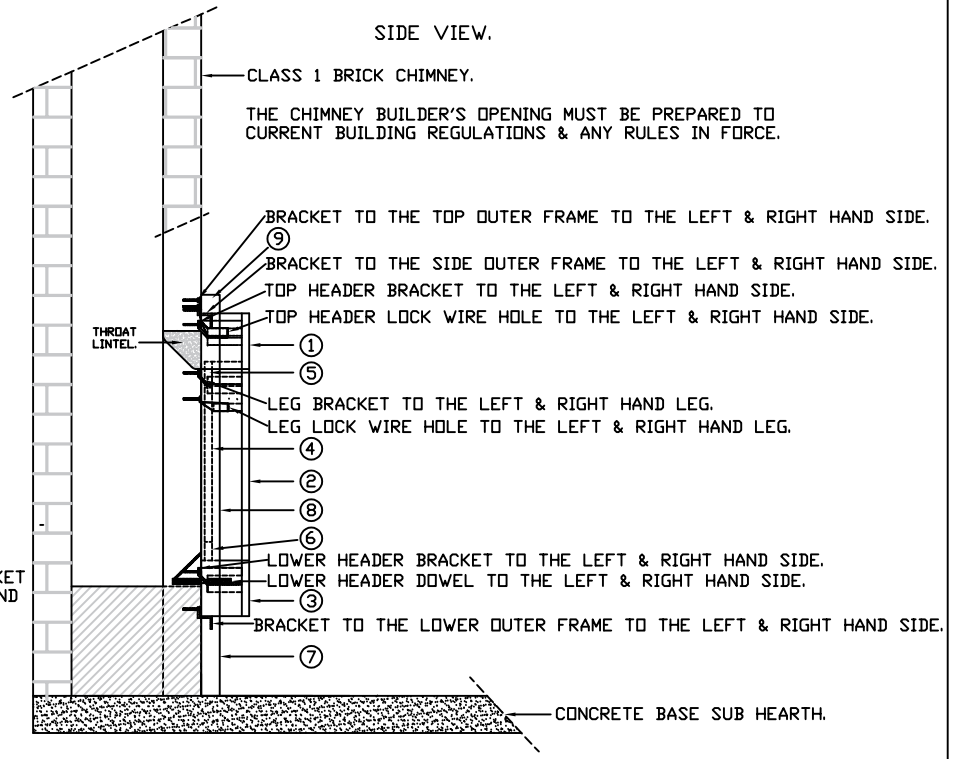
SUPPLIED PARTS IDENTIFICATION.

1) TOP HEADER
2) LEGS, LEFT & RIGHT
3) LOWER HEADER
4) SIDE SLIPS X 2
5) TOP SLIP
6) LOWER SLIP
7) LOWER OUTER FRAME
8) SIDE OUTER FRAME X 2
9) TOP OUTER FRAME
BRACKETS X 12

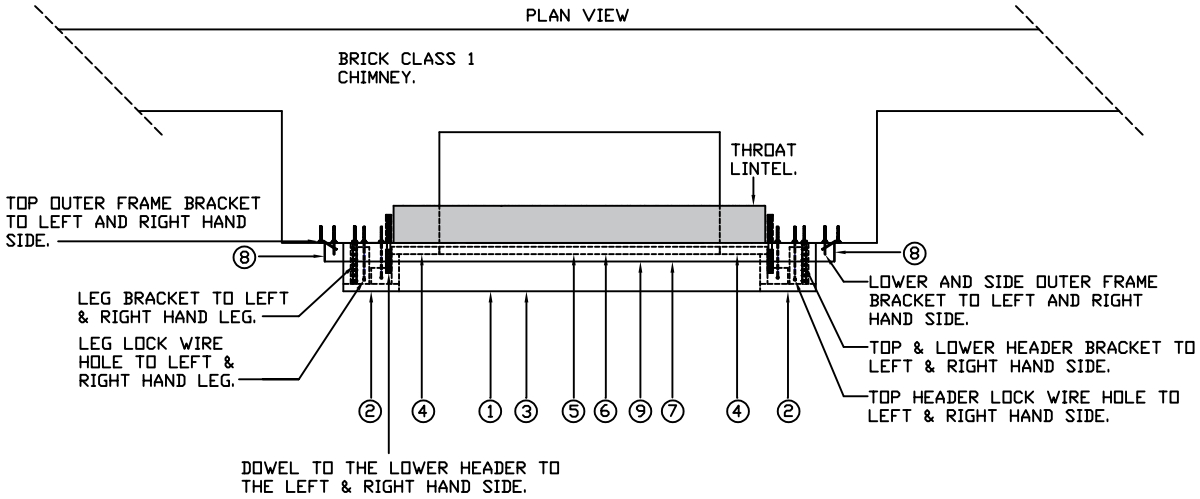
FRONT VIEW



SIDE VIEW.



PLAN VIEW



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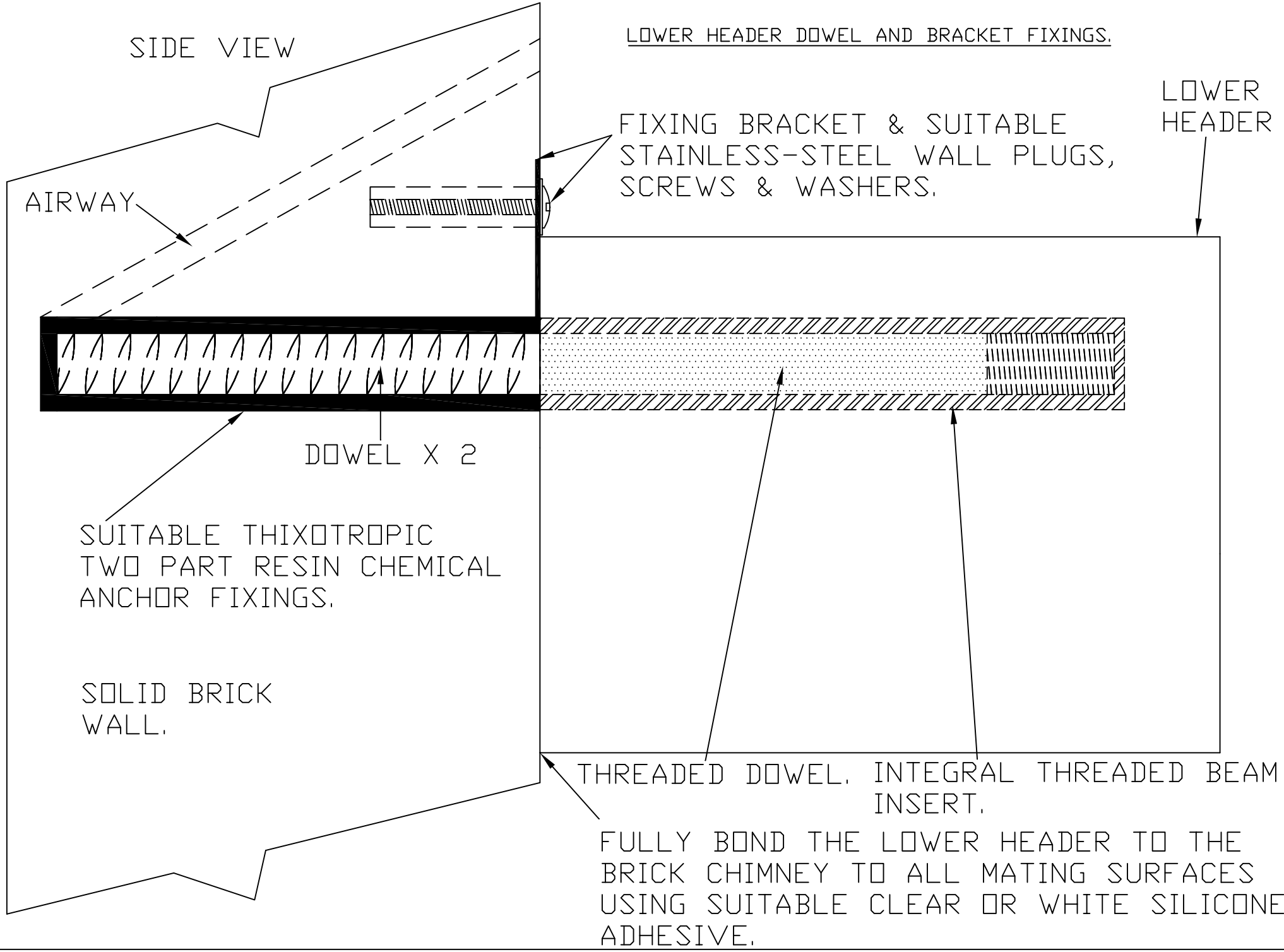
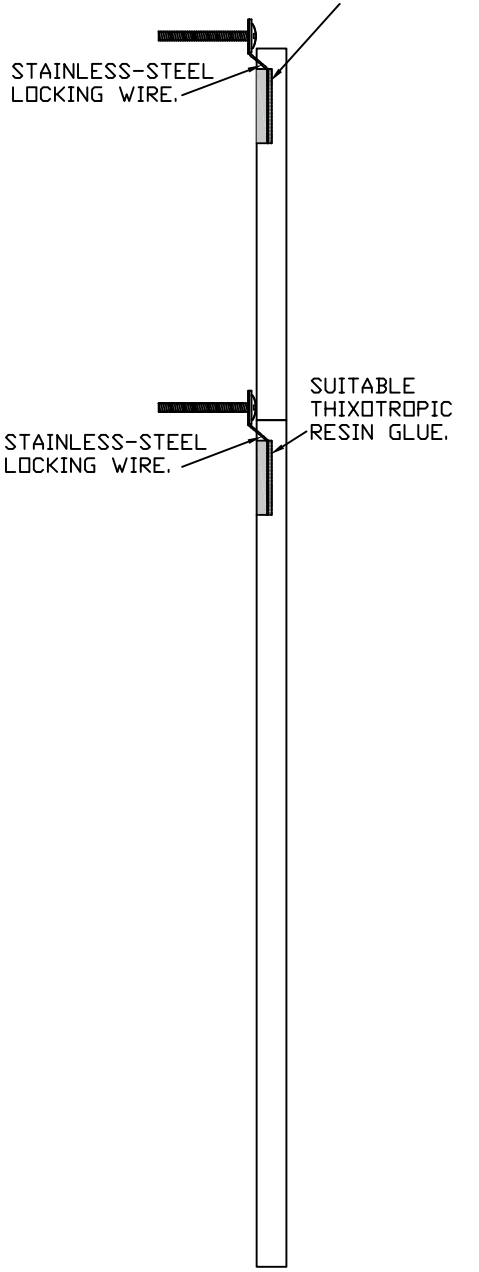
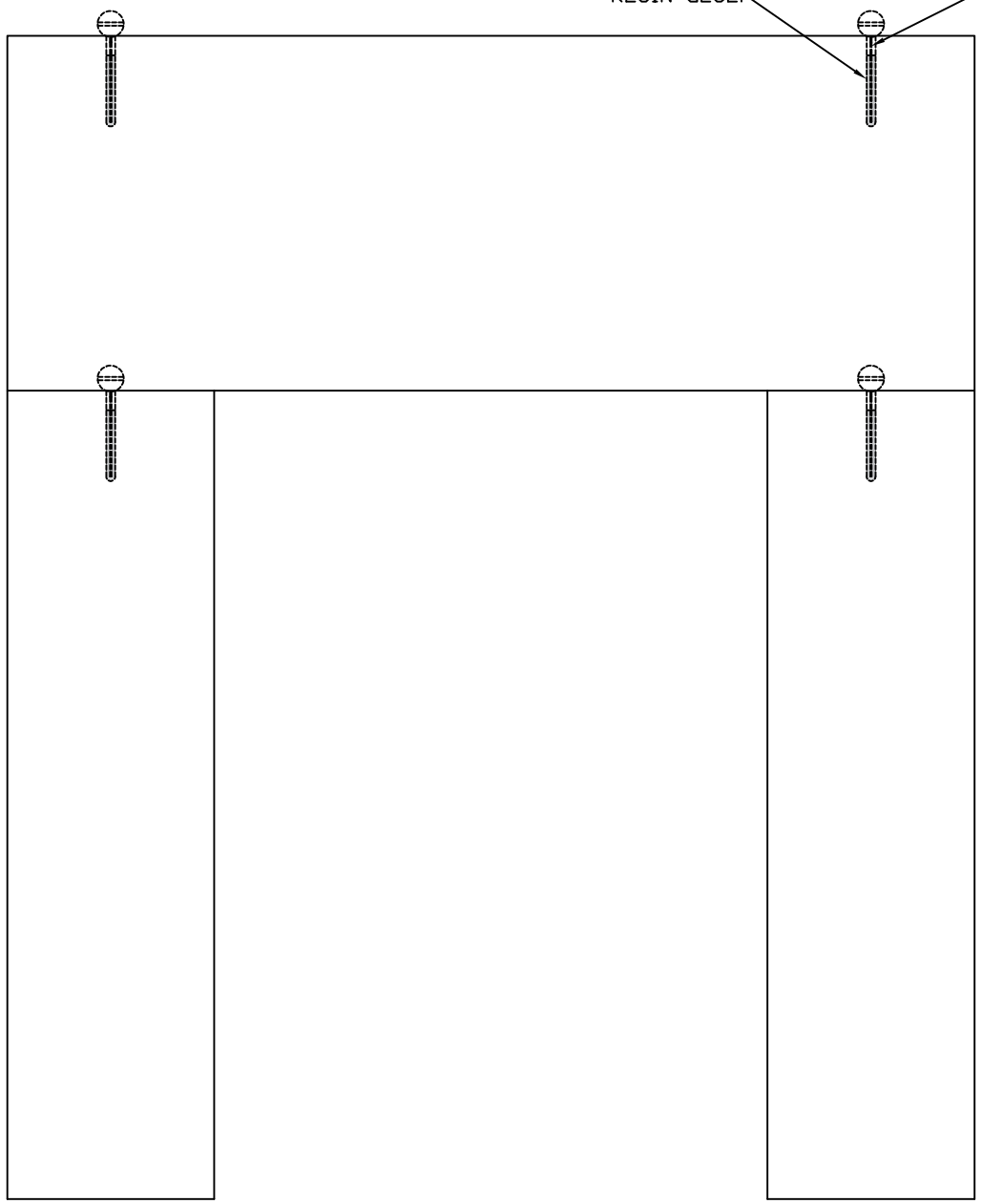


SIDE VIEW

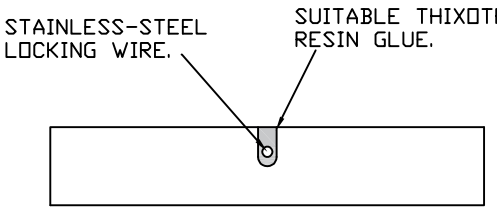


FACE VIEW



PLAN VIEW
OF SIDE SLIP.

NOT TO SCALE.



GUIDELINES.
WITH A STONE CUTTING ANGLE GRINDER MAKE SLOTS TO THE TOP OF SIDE SLIPS AND TOP SLIP. APPROXIMATE SIZE 50mm LONG BY 10mm DEEP AND 6mm WIDE. WITH SUITABLE THIXOTROPIC 2 PART RESIN BOND ADEQUATE LENGTHS OF STAINLESS-STEEL LOCKING WIRE INTO THE SLOTS. WHEN DRY USE SUITABLE STAINLESS-STEEL WALL PLUGS, SCREWS & WASHERS TO SECURELY FIX THE BACK PANEL TO THE BRICK WALL USING THE CORRECT LOCK WIRE PROCEDURE TO TIE THE BACK PANEL SLIPS TO BRICKWORK.

THIS METHOD TO BE USED FOR ONE OR MULTI PIECE BACK PANEL SLIPS, CHAMBER PANELS & ANY OTHER STONE, MARBLE & GRANITE PARTS NOT PROVIDED WITH BRACKETS TO THE FIREPLACE.