



Fitting Guidelines.

TORNADO

Index.

Front cover.

Fitting guidelines. Pages 1 to 9.

Front cover.

Fitting Guidelines: TORNADO

(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 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 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 Tornado.

- Inset gas fires manufactured to ^{UK UK}EN1825 / CE standards suitable & compatible size for the fireplace, chimney, and flue.
- Inset electric fires manufactured and approved to ^{UK UK}EN1825 / CE standards suitable and compatible for the fireplace and chimney.

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 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.
- 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 / rendered brick walls the plaster / render should be cut back to enable the fireplace to be fixed directly to the brick wall. This is good practice as there will always be a risk of the fireplace becoming unstable should a failure of the plaster / render occur. The plaster / render can then be made good around the fireplace surround after installation. Cut the plaster / render back and remove from the area of fireplace installation, remove up to approximately 10mm outside the profile of the fireplace to be installed. Ensure the brick wall 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). **Note:** The rear mating surfaces of the fireplace that will require to be bonded to the brick wall at a later stage are sealed with a stone sealer prior to delivery.
 - 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) Completely bed the main hearth to the floor using suitable white dry lining wall adhesive or alternatively with 1-part white cement and 5 parts silver sand, ensure the hearth is central to the chimney and builders opening and level in all planes.
Do not use any coloured cement or sand or any other coloured products as this will discolour the stone.
 - 6) Position both legs on top of the hearth against the brick wall and adjust position so both legs will be in correct alignment with the top header and shelf when eventually fitted, do not fit at this stage. Mark the position of each leg to the brick wall. Horizontally pull each leg strap bracket positioned at the top of each leg taut against the brick wall and mark the fixing positions through the nearest strap bracket hole that meets the brick wall. Identify the holes to the top of the left- & right-hand leg that will accommodate lock wire at a later stage. Mark the brick wall for lockwire anchorage points horizontally from each hole Remove both legs. Drill suitably sized holes in the brick wall in your pre marked leg bracket and anchorage point positions to accommodate suitably sized stainless steel wall plugs. Fit wall plugs.
Remove the legs.
 - 7) Use silicone adhesive to fully adhere each leg mating surfaces to the brick wall to your previously marked positions. Using the strap bracket provided to the top of each leg, securely fix to the brick wall with suitable sized corrosion proof screws, washers, to the previously installed wall plugs.

Locate the hole provided to the internal reinforcing block located to the top of each leg. Use suitable lock wire and thread through each hole and securely fix each leg to the brick wall using suitable corrosion proof anchorage points. Tighten the lockwire using the correct lockwire procedure ensuring each leg is securely & permanently fixed to the brick wall.

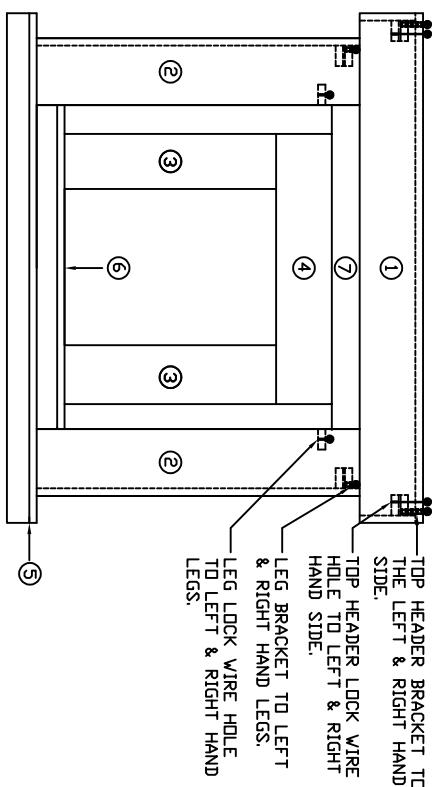
- 8) Completely bed the upper hearth in correct position on top of the main hearth between both legs & align the rear edge with the rear edge of the main hearth. Use suitable 1-part white cement and 5-parts silver sand.
Do not use any coloured cement or sand or any other coloured products as this will discolour
- 9) Correctly screed the base of the chimney builders opening so it is level to the upper hearth top surface at the rear edge and level to all planes. Refer to current Building Regulations and any Rules in Force.
- 10) Use silicone adhesive to fully bond all mating surfaces of the left- and right-hand inner leg returns to the rear of each leg. Note: The standard width measurement that is visible is shown on the drawing, however depending on the width of the appliance being installed. these may require to be moved inwards to each leg making the dimension between both inner leg returns larger. Identify the position of each lock wire hole to the top of each leg inner return, in a suitable position drill suitably sized holes into the brick wall to accommodate suitable stainless steel anchorage points. Fit anchorage points to the brick wall (Anchorage points can be suitable stainless-steel wall plugs, screws, and washers). Thread suitable stainless steel lock wires through the hole located to the top of each leg inner return. Lock wire each leg inner return to each anchorage point using the correct lock wire procedure, ensure there is no slack between each leg inner return and the anchorage points but ensuring that you do not pull the inner leg returns out of position.
- 11) Permanently fit the top frieze in correct position onto the top of both leg inner leg returns using silicone adhesive to all mating stone surfaces. This part should be lock wired to the brick wall, see page 9.
- 12) Depending on the appliance being installed the Tornado would normally be supplied with either a 3-piece or 4-piece slip set. Securely bond the lower slip, side slips and top slip into correct rebate positions using silicone adhesive between all mating stone surfaces. (If using a 3-piece slip set omit fitting of the lower slip). All slips should be mechanically fixed to the brick wall, refer to page 9. Back fill the rear of all slips to the brick wall ensuring all slip mating surfaces are sealed to the brick wall with suitable fire cement.
- 13) Permanently glue the dowels provided into the two holes provided to the rear of each side of the top header using suitable thixotropic two-part resin chemical anchor fixing, leave to dry. Ensure both dowels are glued 50% of their entire length into the stone holes to each side of the top header, the remainder 50% of dowel will be glued into the brick wall at a later stage.
- 14) When the dowel adhesive resin is fully cured, dry fit the top header into correct position on top of both legs and top frieze and mark the position of both header fixing brackets to the brick wall ensuring each bracket is pulled taut, use the hole to each bracket nearest to the top header. Mark the position of the left- and right-hand dowel positions to the brick wall. Remove the top header. Drill holes into the brick wall at your pre marked bracket positions to accommodate suitably sized stainless steel wall plugs. Fit suitable stainless steel wall plugs. Drill suitable holes into the brick wall to accommodate the top header dowels. **Warning:** Ensure the dowel holes within the brick wall are large enough to ensure the dowels do not have to be forced into the brick wall as this will cause damage. Ensure that the dowel holes within the brick wall are contamination free.
- 15) Pass suitable stainless steel locking wire through each hole provided to each end of the top header and leave enough over length above the top header to enable fixing to the brick wall at the next stage.
- 16) Permanently fix the top header centrally into correct position to the top of both legs, top frieze, and the chimney brick wall. Use suitable silicone adhesive to bond the top header mating surfaces completely to each leg, top frieze, and the brick wall. The over length locking wires to be positioned above the top header. **Ensure a total bond** has been made to **all** mating pieces including **all** the rear

mating surfaces of the top header to the brick wall. At the same stage use suitable thixotropic two-part resin to bond both header dowels into the brick wall. **Important.** As you are using silicone stone adhesive and thixotropic resin for the dowels, ensure the two adhesives do not make contact with each other. Using suitable sized stainless-steel screws and washers through each strap bracket located to each side of the top header, fully tighten into the stainless-steel wall plugs ensuring both strap brackets are taut. Drill holes into the brick wall to fit suitable sized stainless steel anchorage points in a suitable position above the top header and in line with the top header locking wires when pulled taut. Fit each top header anchorage point to the brick wall. Using the correct lock wire procedure tie each lock wire to each corresponding anchorage point ensuring that each lock wire is taut.

- 17) 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).
- 18) **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.
- 19) **Inform the customer / user** when the fireplace with appliance can be used, taking into account the full drying times for all the materials used.
- 20) **Ensure** the customer care sheet and the fitting guidelines provided are left with the customer and user.
- 21) 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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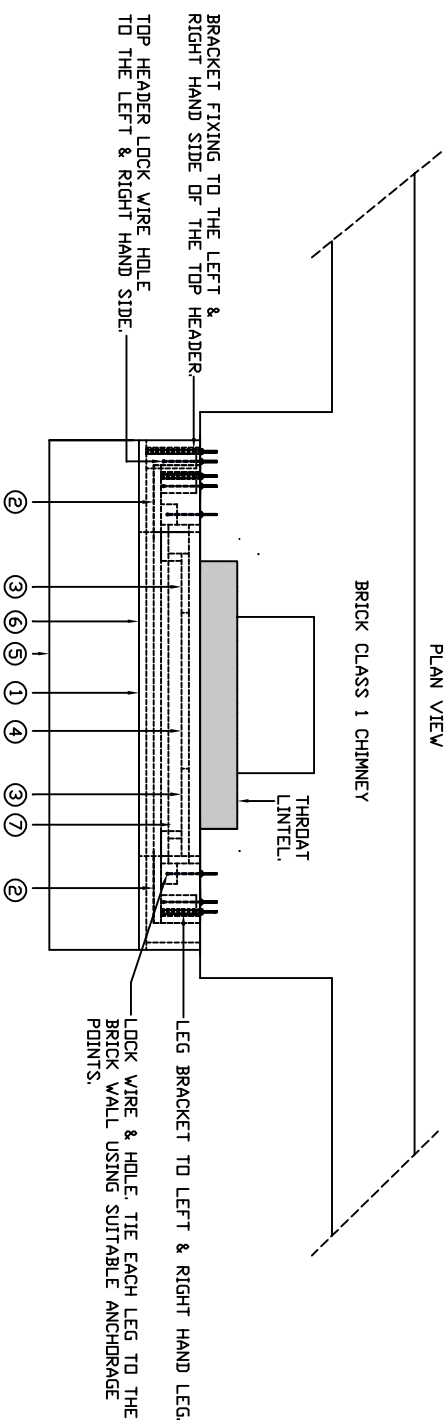
FRONT VIEW



SUPPLIED PARTS IDENTIFICATION.

- 1) TOP HEADER
 - 2) LEGS, LEFT & RIGHT
 - 3) SIDE SLIP
 - 4) TOP SLIP
 - 5) MAIN HEARTH
 - 6) UPPER HEARTH
 - 7) TOP FRIEZE
- BRACKETS X 4

PLAN VIEW

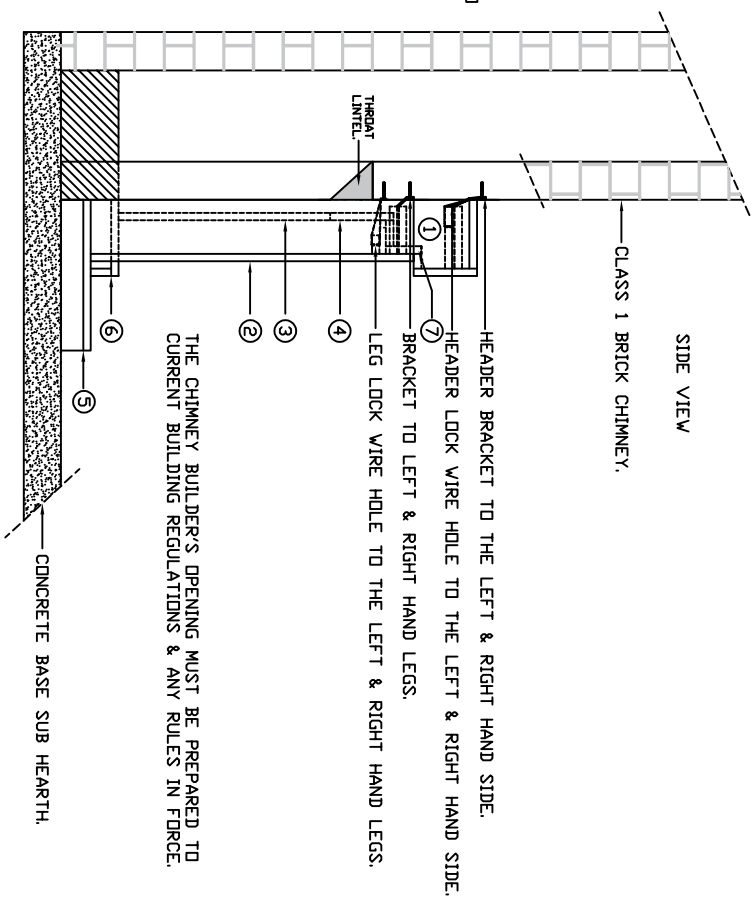


BRICK CLASS 1 CHIMNEY

THROAT
LINTEL.

LEG BRACKET TO LEFT & RIGHT HAND LEG.
LOCK WIRE & HOLE. TIE EACH LEG TO THE
BRICK WALL USING SUITABLE ANCHORAGE
POINTS.

SIDE VIEW



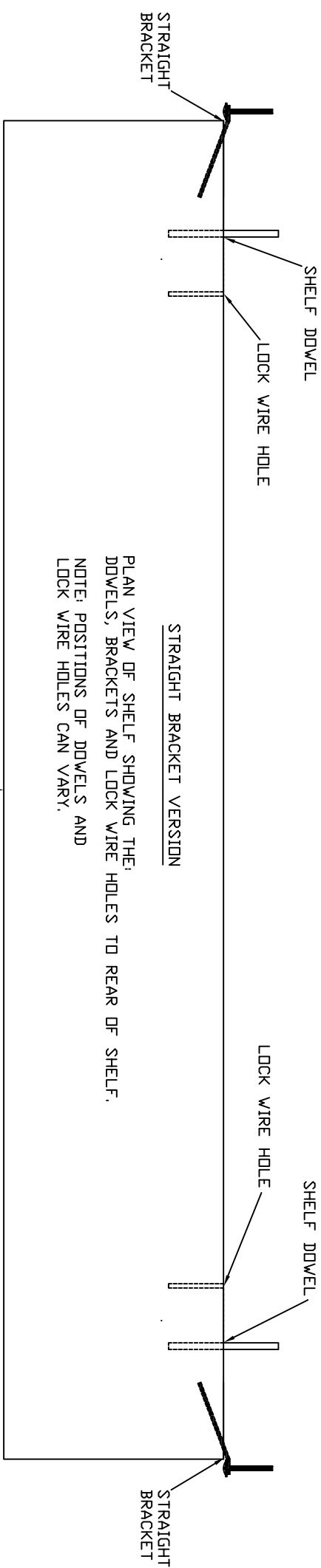
CLASS 1 BRICK CHIMNEY.

HEADER BRACKET TO THE LEFT & RIGHT HAND SIDE.
HEADER LOCK WIRE HOLE TO THE LEFT & RIGHT HAND SIDE.
BRACKET TO LEFT & RIGHT HAND LEGS.
LEG LOCK WIRE HOLE TO THE LEFT & RIGHT HAND LEGS.
THE CHIMNEY BUILDER'S OPENING MUST BE PREPARED TO
CURRENT BUILDING REGULATIONS & ANY RULES IN FORCE.

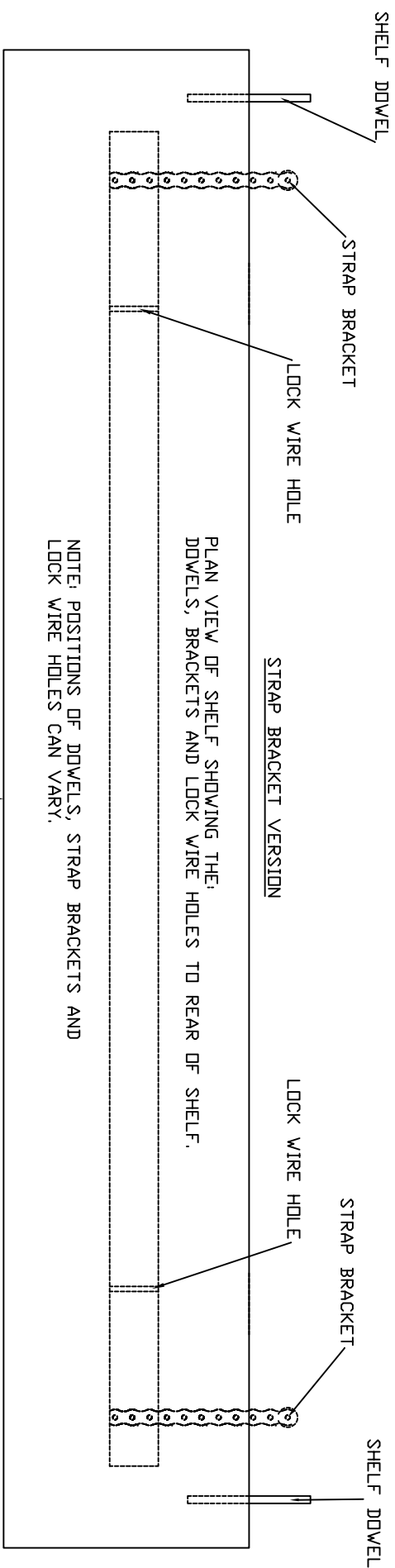
CONCRETE BASE SUB HEARTH.

IMPORTANT

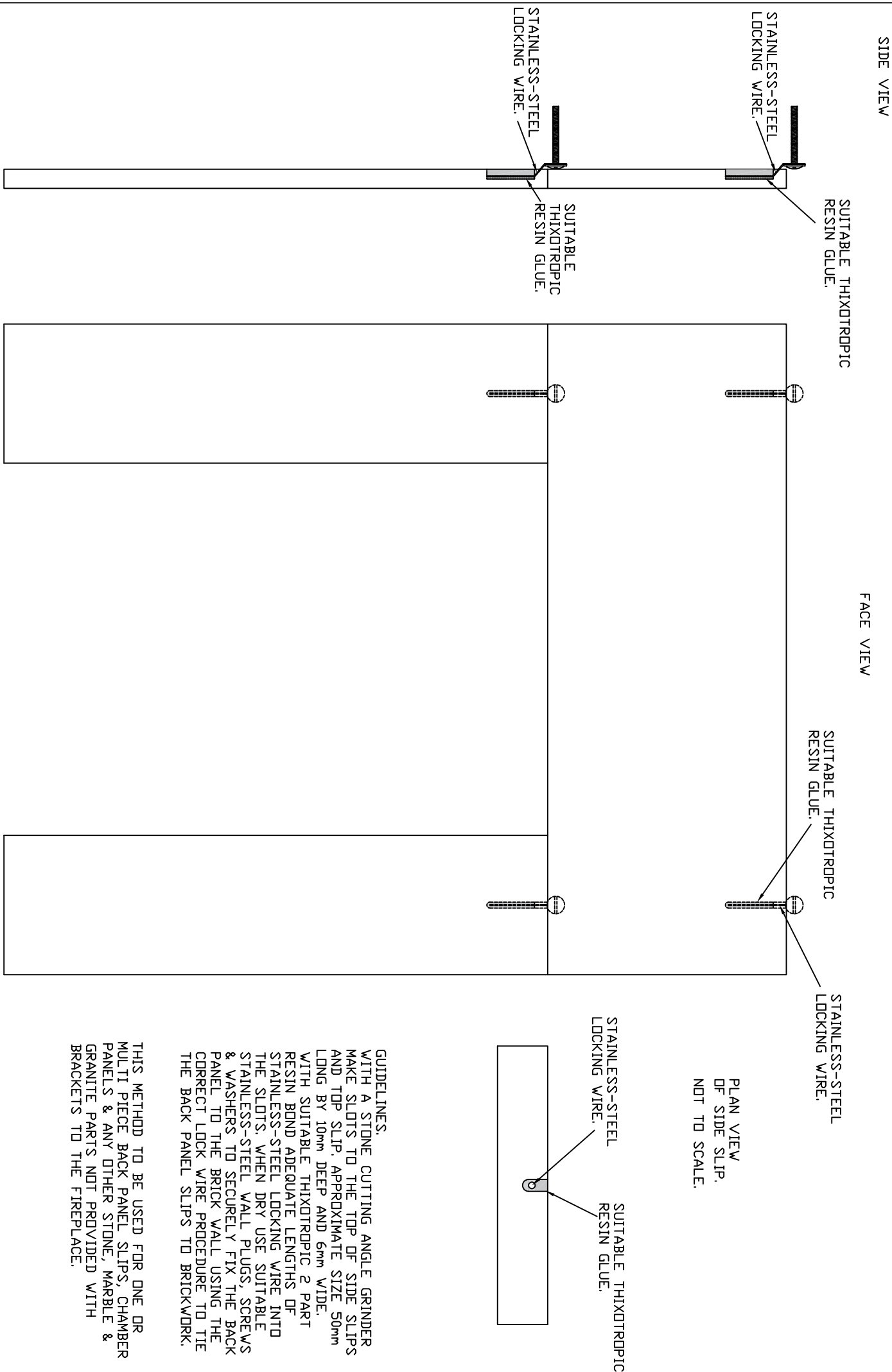
DEPENDING ON THE DATE OF MANUFACTURE THE SHELF USES TWO DIFFERENT BRACKET FIXING METHODS ONE HAS STRAIGHT EYELET BRACKETS AND THE OTHER USES STRAP BRACKETS, IDENTIFY THE SHELF FIXING BRACKETS FROM THE 2 DRAWINGS BELOW & REFER TO THE FITTING GUIDELINES.



FRONT



FRONT



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.