



**SCHIEDEL**

# Schiedel Isokern Garden Fireplace Installation instructions

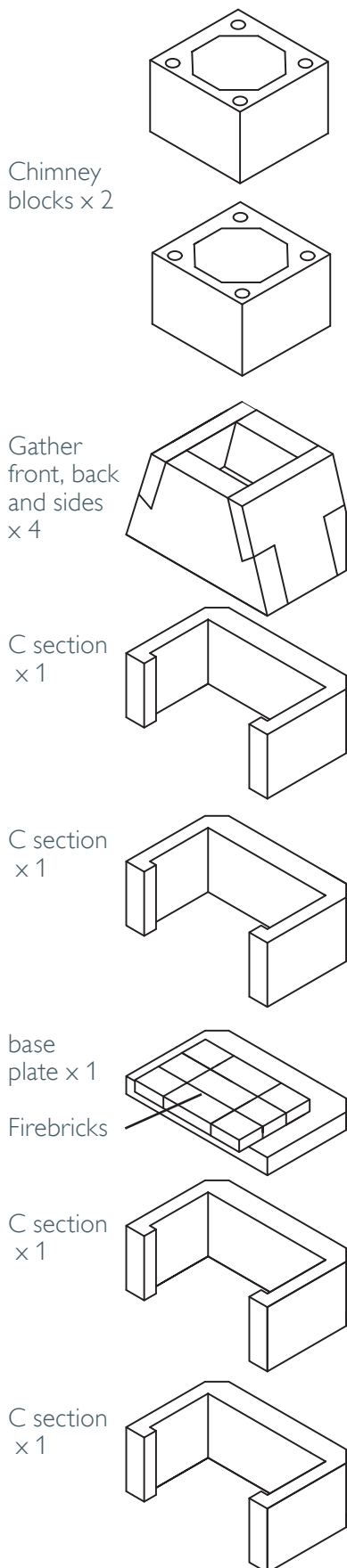
Model 500  
Build, rendering, firebricks and accessories

[www.schiedel.com/uk](http://www.schiedel.com/uk)

Photo from S. Holland and inset image from Instagram [onealchemistryhouse](#)  
Please note that the images show the version with two optional side log stores



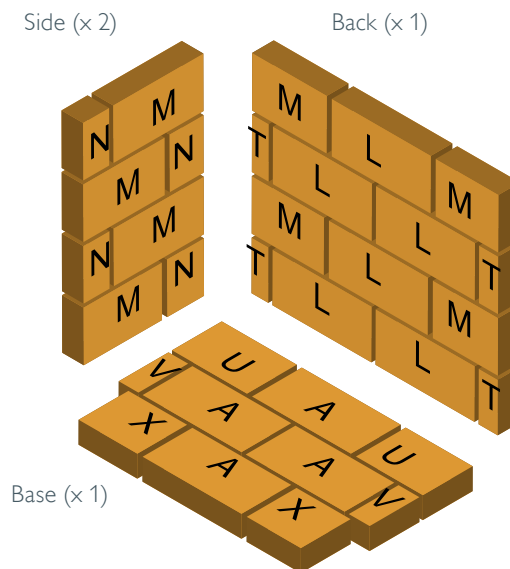
# Garden Fireplace 500



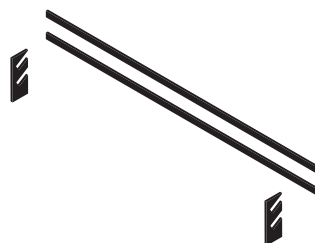
**The 500 model comes complete with the following components:**

- 1 bag of lip glue adhesive (for pumice components)
- 1 bag of Calderys fire brick mortar
- 1 bag of render
- 1 log retainer kit (2 metal bars + 2 fixing brackets)
- 1x grill and fixing brackets

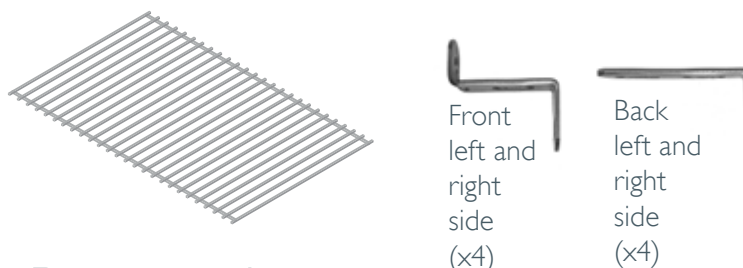
Fire brick diagram and parts (see page 6 for more details)



Log retainer kit (see page 10 for more details)



Grill and fixing brackets



## Preparation

The Garden Fire needs to be built onto a firm foundation. It should not be built directly onto decking. Schiedel recommends that a minimum 100mm reinforced concrete base is used to support the structure.

A distance of 75mm should be left between the Garden Fire and any wooden or other combustible material.

# Instructions - Log store and firechest (Step 1)



Create a suitable base. We recommend 100mm thick reinforced concrete. Bed the two C sections using the supplied lip glue adhesive. Check each stage is level.



Mix lip glue jointing adhesive as per instructions on the bag. Apply 15-20mm beads using the supplied application bag as shown in the picture above.



Apply lip glue around the top of the C section and then press the base plate down into position. Check that it is level.



Glue on the next two C sections

## Instructions - Gather unit (Step 2)



Apply lip glue to the top layer and then press the front and rear sections of the gather into place.



Apply lip glue to the joints on the sides of the front and rear panels of the gather.



Press the side panels of the gather into place.



The fireplace with the gather unit should resemble the image above.



Apply a layer of lip glue around the top of the first block and then press the second block into place. Ensure the top is level and clean off any excess glue.



Apply a layer of glue on the 2 x chimney blocks. Check all is level and wipe off excess glue.

# Instructions - Rendering (Step 3)

Render plaster must be mixed, applied, and smoothed by a skilled professional. **Please note: As a heat-resistant material, it necessitates greater care and pressure during application compared to conventional plaster, which is typically smoother.**

Cracking and bubbling in the render often results from moisture being trapped behind it. This issue can stem from inadequate surface preparation, incorrect mixing ratios, application in unsuitable weather conditions (such as high humidity), or applying the render to a damp surface. When moisture is trapped, it can expand and form bubbles as it attempts to escape. Key contributors to bubbling on concrete surfaces include an excessive amount of water in the render mix. Overly watery mixtures can weaken the bond and lead to moisture entrapment, resulting in bubbling during the drying process.

Additionally, insufficient substrate preparation, such as failing to clean or prime the concrete surface before applying the render, can result in poor adhesion and the formation of air pockets.

Render plaster is intended for a single coat application; if additional coats are necessary, more render must be purchased.



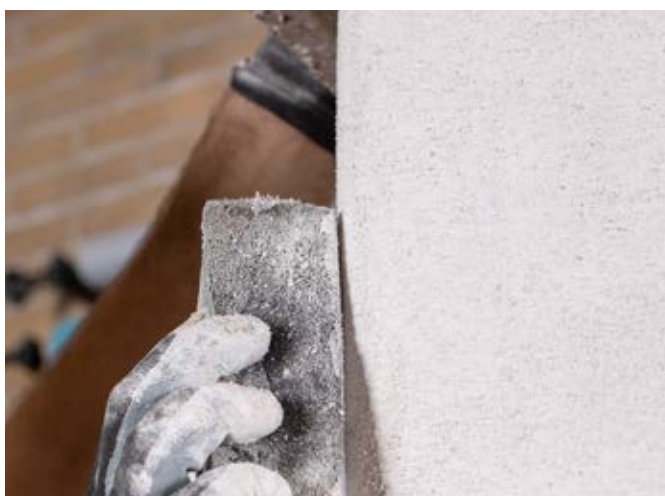
Burn off the fibres on external surface before rendering.



Mix the render as per the instructions



Render the surface areas.



Ensure the edges are smooth and wait to dry.



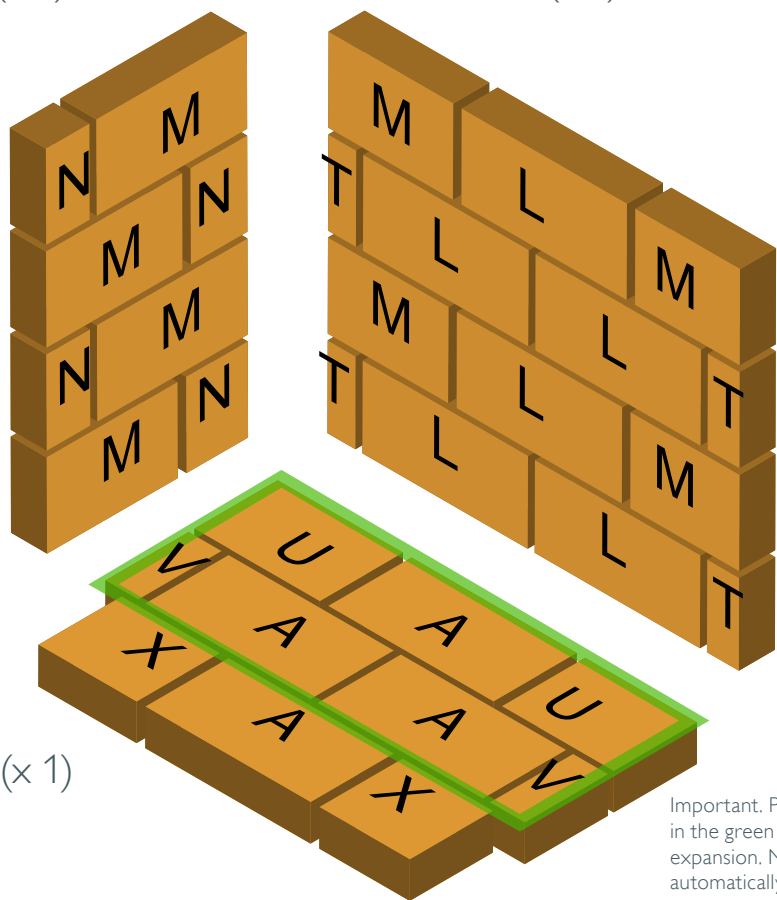


# Garden Fireplace firebricks guide

## 500 model

Side (× 2)

Back (× 1)



Base (× 1)

The finished firechest must be lined with firebricks that are at least 25mm thick on the sides and 50mm thick on the back and bottom. The firebricks should be either butt jointed or pointed and adhered to the pumice elements using firebrick mortar, with the exception of the base firebricks, which should be placed loosely.

The front row of the base bricks may be secured in position with adhesive. To ensure proper adhesion, thoroughly wet the pumice and allow sufficient time for the water to be absorbed. When preparing the firebricks, submerge one in a bucket of water until the surfaces are moist but not dripping.

Follow the mixing instructions for the firebrick mortar and apply a layer of 2-3mm thickness before positioning the firebricks onto the pumice.

Important. Please DO NOT glue the base bricks highlighted in the green area. This is to prevent cracking due to thermal expansion. Normally, the ash from the burnt material will automatically fill the gaps for these loose base bricks and allow for expansion.

Brick	L	W	D
A	230	114	50
L	230	114	25
M	156	114	25
N	78	114	25

Brick	L	W	D
T	35	114	25
U	154	114	50
V	35	114	50
X	124	114	50

### Note for all models

- 8mm gap between bricks.
- Bedded on 1-3mm thick firebrick mortar
- Firebricks to be glued on and pointed with the Calderys firebrick mortar as per enclosed instructions

Sizes in mm



Front bracket × 4



Back bracket × 4



Prior to gluing the bricks, remember to place the 8 × brackets (2 front and 2 back brackets on each side) supported on the firebricks, before the next row of firebricks are added. These are supports for the grill.

## Instructions - Firebricks and grill supports (Step 4)



Mortar bag - Used for gluing on firebricks and pointing in. Mix as per instructions on the bag



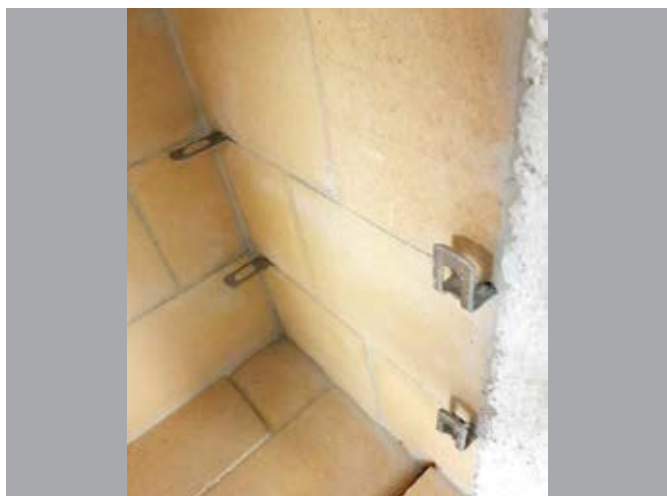
Bed the firebricks on to a 3mm layer of firebrick mortar. Use the tables on the previous page as a guide.



Complete the bottom layer of firebricks, then fasten the rear firebricks in place using the firebrick mortar. Use a tile spacer to keep an 8mm gap.



Once the bottom and rear firebricks are in place, fasten the side bricks in position using the firebrick mortar. Use a tile spacer to keep an 8mm gap. During the first and second level, you must slot in the grill supports as shown in the next step →



Inset grill support front and back brackets prior to fitting the firebricks on the side walls. These can be supported on the firebrick layer as shown.



Use the mortar mix to point up the joints between the firebricks once they are all in position. Clean off excess mortar.

# Instructions - Log retainer (Step 5)



Drill 2 x 12mm diameter holes in the front row of the firebricks. Push log retainer holders in place.



Then push fit the log retainer bars into the slots.

## Optional extras



Code	Optional extras
157837	Log Storage for 950
130708	Additional height blocks for 950
130710	Capping



Code	Optional extras
177085	Rain cap
130771	Lip glue 5kg
135329	Render plaster 25kg bag



## Instructions - Capping



If extra chimney blocks are purchased, simply repeat the steps shown on p.4, applying a layer of lip glue adhesive between each block and pressing the next block firmly into place. Ensure the top is level and clean off any excess glue.



If the capping is purchased, then apply a layer of lip glue to the top of the final block and then press the capping into place ensuring that it is level and wiping off any excess glue.



# Instructions - Additional log store



The additional log stores can be placed to either side or on both sides of the fireplace to suit your outdoor area plans.



Place the C shaped section onto the prepared surface alongside the main fireplace and apply lip glue adhesive around the top edge of the section.



Place the next C shaped section on top of the first one.



Apply a layer of lip glue adhesive around the top edge of the C section.



Carefully lower the top slab into position and ensure the surface is level.



The completed log store can now be rendered as part of the overall rendering procedure. Follow the procedures shown on p.5 with regards to preparation and then rendering of the log store.

# Instructions - Raincap



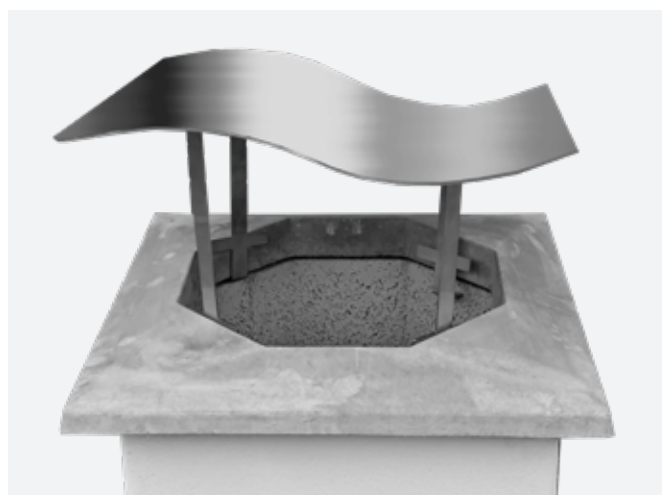
Locate the etching on the top of the Raincap and loosely fix legs (on the underside) in position according to etching marked on each one.



When the capping is being glued into place, slide the wave legs into the lip glue joint (as per pic).



All are now positioned



Tighten the bolts on the Raincap



# After completion / Guarantee

Once build and rendering is complete, please do not use for at least 72 hours after completion.

On first use, always light a small fire first and increase the size of the fire once the firechest has fully dried out. Only use dried and seasoned wood for the fire. Do not burn plastic or waste products.

## INTRODUCTION

We are confident in our products and so offer you (the owner) a generous guarantee in relation to the Garden Fireplace. Provided that you comply in full with your responsibilities (below) and subject to the Small Print (below), we guarantee to you that the fireplace will be free from defects on delivery to you via pallet.

Any blocks or firebricks which are cracked or damaged at the time of delivery will be replaced free of charge.

This guarantee does not cover any major impact to the fireplace (such as wear and tear, wind damage) once the item has been constructed and rendered.

As the fireplace is an outdoor product, standard wear and tear will occur and any structural damage would have to be investigated. In the unlikely event that the fireplace becomes defective during the guarantee period, we will provide replacement component parts and render material free of charge.

## YOUR RESPONSIBILITIES

To benefit from our guarantee, this product will be registered to the address where we delivered it. Please inform us if the fireplace was installed elsewhere.

## HOW TO CLAIM UNDER YOUR GUARANTEE

To claim under your guarantee, please email us at [sales.uk@schiedel.com](mailto:sales.uk@schiedel.com). You will be asked to provide proof that you have complied in full with the terms of usage of the fireplace and that only dried and seasoned firewood has been used as a fuel.

## Also from Schiedel: The Celsius, an all-in-one stove and volcanic chimney package

The same material used in the Garden Fireplace; formed from pumice from the Hekla Volcano



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[www.schiedel.com/uk](http://www.schiedel.com/uk)

The Celsius system is a DEFRA exempt, A+ rated system, which allows zero distance to combustibles.



The ideal stove and chimney combined package for any house development, log cabin, conservatory or outhouse.

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