

Installation instructions

DON'T FORGET TO REGISTER YOUR INSTALLATIONS AND START EARNING SCHIEDEL INSTALLER REWARDS See inside for more details

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DEFRA EXEMPT

SCHIEDEL

In general

- The installation instructions must be followed in order to comply with the guarantee of the system and we recommend that it is installed by a HETAS Approved Installer.
- The installer must inspect and test the finished system and leave the completed notice plate and results from the test with the householder.
- The accompanying documentation should be kept for the entire life of the installation.
- Make sure that the contents of the shipment are consistent with the delivery note and that they are not damaged. Transport damage must be reported to the driver at delivery and noted on the consignment notes.

CHIMNEY TYPE AND DISTANCE TO COMBUSTIBLES:

- Minimum distances to combustible material from the chimney is given in the CE designation (see page 3).
- For stoves, fireplace inserts and boilers, distances to combustible material are also given in the CE designation (see page 4).

DEFRA EXEMPT

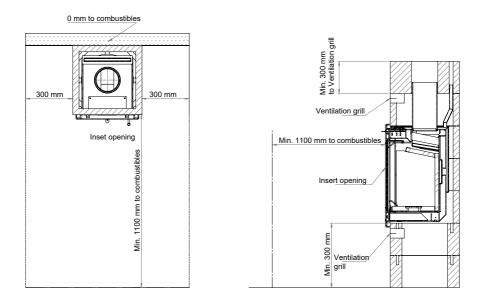
- Celsius is approved for installation in Smoke Control Areas in the United Kingdom, when operated in accordance with the instruction and installation manuals and when any conditions are met.
- Level 5 of the clearSkies mark is the highest possible energy efficiency rating available. Celsius has achieved the highest level in clearSkies certification, which means that it



exceeds the minimum performance level for Ecodesign Regulations.

Distance requirements:

When choosing a location, consider the illustrations below and the distances to combustible materials.



When installing against non-combustible material, the requirements of the building regulations must be followed.

As can be seen from the above drawings and the instructions for the structure of the frame, it is required that air circulation has been established around the insert itself, corresponding to 230 cm³ of air above the insert appliance immediately below the top plate as well as air intake just below the base plate. This air circulation is intended to ventilate and heat the room.

A hearth must be installed in line with Building Regulation guidance.

Note: CE mark and technical specifications are given on page 4

Technical specifications

CELSIUS insert stove is approved according to BS EN 13240.

This meets a number of requirements for safety, environment and efficiency. It has also been tested to meet DEFRA requirements and is DEFRA exempt.

CELSIUS SOLUTION:	
Weight Insert (Including Pumice Frame)	210 kg
Flue outlet	Ø150 mm
Recommended chimney draft	12 Pa



0036 04

Schiedel Skorstene ApS Industrivej 23 · DK-7470 Karup CPD 90219 001 DK014 DOP 23082019			
DS/EN 13240/A2:2004			
Schiedel Isokern Celsius installed within an Isokern Pumice frame Use only recommended fuel (wood). Device approved for log burning only. Strictly follow construction and user manual.	Nominal heat outpu CO emission at 139 Energy efficiency: Flue gas temperatu PM emission acc. to OGC emission: NOx emission: Minimum distances material Rear: Front: Side: Floor:	% O ² : 0.082% 83% re: 242 °C o DIN+: 3 mg/m ³ 58 mg/m ³ 82 mg/m ³	
	Fuel:	Dry wood	

Location of the system

Make sure that the location of the installation is accurately measured and that any installation takes into account obstacles such as floors and ceilings and the roof construction.

FOUNDATION AND REINFORCEMENT

Before building the frame and chimney, make sure that the floor can carry the weight of the whole system and that the floor is stable, level and non-flammable.

The foundation should be at least a 100mm thick reinforced concrete slab.

LIP GLUE FOR THE PUMICE COMPONENTS

Schiedel ISOKERN Chimney Adhesive is used for the construction of all the Pumice elements within the frame and chimney. The mixing instructions are shown on the packaging.

Apply the glue using the mortar bags provided to achieve a uniform application rate. Apply sufficient glue so that the glue is pressed out between the blocks during assembly.

Excess glue should be removed continuously inside and outside using a trowel and subsequently cleaned with a damp, soft brush or sponge.

RENDER

Schiedel ISOKERN chimney render is used for surface treatment. The mixing instructions are shown on the packaging.

The external part of the chimney that is open to the elements must be rendered to avoid moisture entering the chimney modules.



Measure and note the desired location of ISOKERN CELSIUS solution. Apply Schiedel ISOKERN chimney glue to the pre-prepared load bearing reinforced concrete slab and place first pumice block. Use a spirit level to ensure that the block is positioned correctly, then the whole installation remains in level throughout its length.



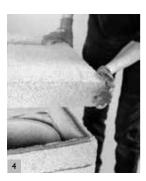
Apply glue to the whole top surface of the module before placing the the next block.

Wipe away any excess glue.



Apply glue to the module outer edge, with the exception of the gap for the first ventilation grill.

The grill should be fitted once the blocks have been rendered.



Apply glue to the whole surface of the block before placing the stove recess baseplate.

Always wipe off excess glue and check the level regularly with a spirit level.



Apply glue all around the edge, with the exception of the front edge where the appliance will be fitted.

Place first stove recess block.



Repeat this process again for each of the 7 U shaped stove recess blocks.

There are 7 layers to fit in the opening for the insert.



Glue the 3 metal plates onto the base plate within the opening for the insert so they lie under the 3 adjustable feet (bolts) in the bottom of the appliance.



Apply glue around the edge and place the first top section above the opening.



Apply glue to each block edge, with the exception of the gap for the 2nd ventilation grill

The grill should be fitted once the blocks have been rendered.



Apply glue before fixing the top plate in position.



Fasten fibre tape once around the underside of the flange of the air outlet.



Push the long end of the air outlet up through the slit in the top plate on the frame, and put 2 layers of fibre tape around the protruding air outlet before sliding them down to seal the gap around the outlet.



The door is removed first (the door can be lifted off at approx. 10 cm open position).

Step 1 Remove vermiculite baffle plate

Step 2 Remove log retainer, base panels and grill.

Step 3 Remove the back plate and side plates.



Remove the 2 thin cover plates, to get access to the adjustable feet (bolts) at the bottom. (IMPORTANT! Install the plates in position before the bottom vermiculite panels are reassembled).



Now slide the appliance into position and adjust and fix using the 3 screws at the bottom.



Putting your hand in through the top hole for the ventilation grill, pull the air inlet and flue pipe down into position. Glue is not required.



Putting your hand in through the top hole for the ventilation grill pull the Stainless steel adaptor pipe down into position



The steel pipe is sealed into the stove using fire cement.



The Octagonal stainless steel adaptor slides down inside the stainless steel pipe shown previously. The bottom of the Octagonal adaptor lies flush onto the Pumice top plate.



The octagonal pumice starter flue block fits inside the octagonal stainless steel adaptor.

Make sure the socket is uppermost.



The first outer chimney block is glued into place, making sure it's square and level.

Continue adding inner flue blocks and outer casing using lip glue on each joint on both inner and outer blocks.



4x steel spacers push fitted around inner flue block every 1m of chimney.



Step 1 Fit the back plate and side plates.

Step 2 Fit log retainer, base panels and grill.

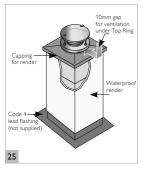
Step 3 Fit vermiculite baffle plate. Step 4 Fit the door.



To finish off add render with reinforcement mesh being used up to ground floor ceiling.

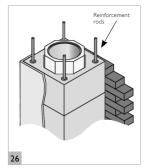
Apply a thin layer of render and press mesh into the render.





Code 4 lead flashing to be fitted at roof level as per Building Regulations. We recommend that you scorch a 5-10mm deep channel into the outer surface of the casings and fold in the top edge of the flashing.

Finish the outer surface of the casings above the roof with 2 part waterproof render. The recommended mix is 1:2:5-6 cement:lime:sand for the undercoats. 1:2:8-9 cement:lime:sand for the final coat. The number of coats required will depend upon the degree of exposure, generally a two coat mix is acceptable. The mix may vary due to climate conditions, the thickness of any one coat should not exceed 15mm, and each subsequent coat should be reduced by approximately 3mm. Isokern concrete capping for render to be lip glued onto the last casing.



High tensile steel reinforcement rods will be required for all chimneys with a height that exceeds 1.4m above the roof line, 1.1m if the wind speed exceeds 44ms.

These rods are available from Isokern and must be grouted (1:3 cement/sand) into the holes provided in the outer casings. You must start the rods at least the same height below the roof as what's above, please check with our technical department.



At the top of the chimney, insert capping fixings into the four corner holes of the casing



Fix capping using the bolts provided.



Fit aluminium top ring by pushing the steel prongs into the outside of the inner flue block.

Make sure it's a tight fit and that approx. 10mm gap remains from the underside edge of the top ring to the capping.



The Schiedel Installation App

Download the app today, as it offers a number of very useful guides on all aspects of installing an appliance using Schiedel Chimney Systems, including:

- Quick and straightforward reference for installers.
- Video breakdowns of each stage of the installation process, from connection to the appliance through to termination.
- Highlighting the safety critical areas where the chimney penetrates the floors, ceilings, roof and walls.
- Incorporates frequently asked questions information at each stage of the installation process, in line with building regulations.
- An easy-to-use system for downloading full product information and installation instructions.



Schiedel Installer Rewards

Exciting news from Schiedel Chimney Systems for Stove and Chimney Installers! Whenever you register an installation with our easy to use, online guarantee registration portal, you will now accrue points based on the number of installations and installation type.

Once you have reached a minimum of 25 points, you can begin to redeem them for \pounds 25 Love2Shop vouchers.

So head on over to the portal and start to register your Celsius installations to take full advantage of our Lifetime Guarantee and to start earning points!



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