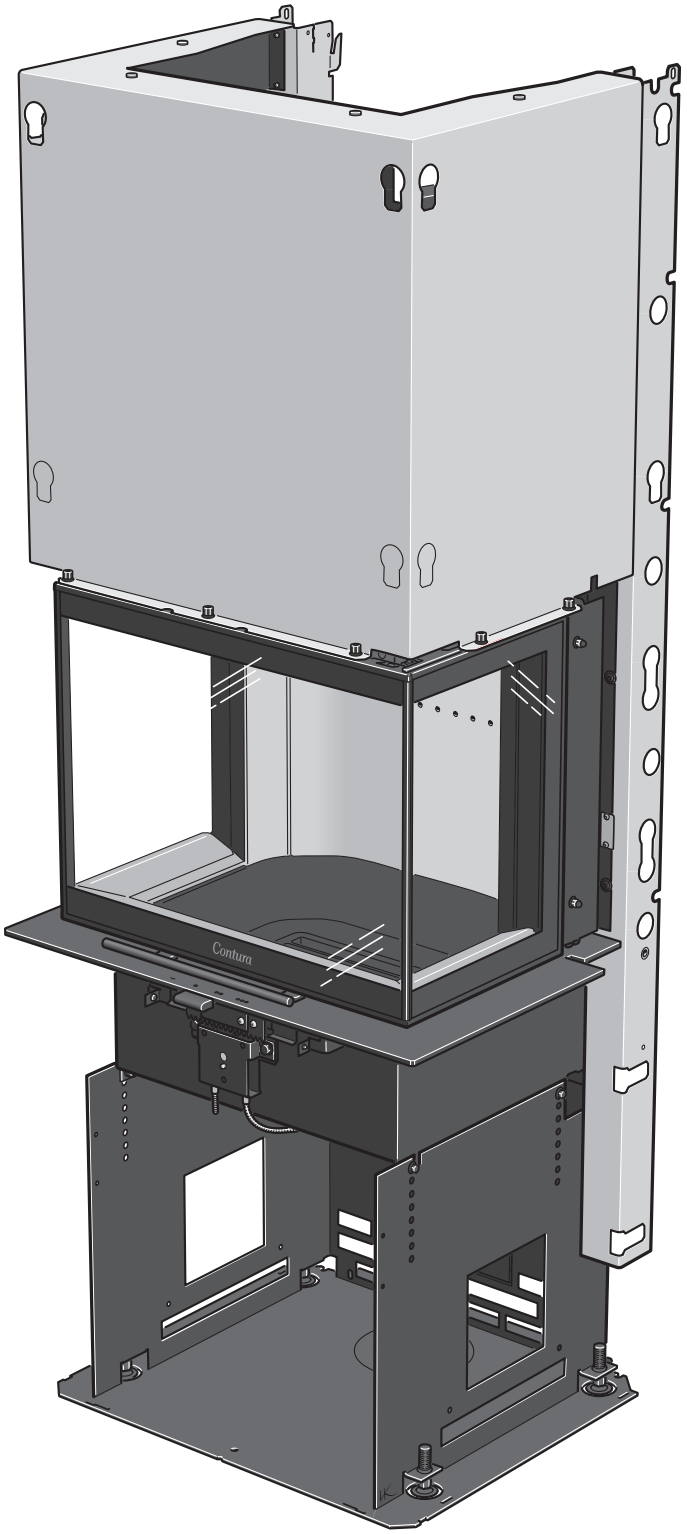
# Installation instructions




Ci60

Contura

# Declaration of performance according to Regulation (EU) 305/2011

No. Ci60-CPR-191219

Contura

## PRODUCT

| | |
|---|---|
| Type | Wood burning insert |
| Trade name | Contura i60 |
| Intended area of use | Heating of rooms in residential buildings |
| Fuel | Wood |

## MANUFACTURER

| | |
|---|---|
| Name | NIBE AB / Contura |
| Address | Box 134, Skulptörvägen 10<br>SE-285 23 Markaryd, Sweden |

## VERIFICATION

| | |
|---|---|
| According to AVCP | System 3 |
| European standard | EN 13229:2001/A2:2004/AC:2007 |
| Test institute | Rein-Ruhr Feuerstätten Prüfstelle, NB 1625. |

## DECLARED PERFORMANCE

| ESSENTIAL CHARACTERISTICS | PERFORMANCE | HARMONISED TECHNICAL SPECIFICATION |
|---|---|---|
| Fire safety | Pass | EN 13229:2001/A2:2004/AC:2007 |
| Fire classification | A1 | |
| Minimum distance to flammable materials | Rear: 90 mm (With heat shield)<br>Side: 500 mm<br>Ceiling: 550 mm (Front grate)<br>Ceiling: 700 mm (Top grate)<br>Front: 1000 mm<br>Floor: 0 mm<br>Corner: NPD | |
| Fire hazard due to burning fuel falling out | Pass | |
| Cleanability | Pass | |
| Emissions from combustion | CO: 0,07% | |
| Surface temperatures | Pass | |
| Temperature on the handle | NPD | |
| Mechanical resistance | Pass | |
| Temperature in the space for wood storage | NPD | |
| Nominal output | 6,0 kW | |
| Efficiency | 81,0% | |
| Flue gas temperature at nominal output | 278°C | |
| Flue gas temperature in flue spigot | 334°C | |

The undersigned is responsible for the manufacture and conformity with the declared performance.

**Niklas Gunnarsson,** Business area manager NIBE STOVES
Markaryd, December 19, 2019

UK CA

## A warm welcome to Contura.

Welcome to the Contura family. We hope you will get a great deal of pleasure from your new insert. Congratulations on your purchase of a Contura insert. You have acquired a reliable quality product with a timeless design and long service life. Contura produces environmentally-friendly wood burning stoves that create heat in the most efficient way possible.

Please read these instructions carefully and thoroughly before installation. The Lighting instructions explain how you can obtain optimal performance from your stove.

### Contents



## NB!

You are required to apply to your local authority for permission to install a fireplace/stove.

The owner of the house is personally responsible for ensuring compliance with the mandatory safety requirements and must have the installation approved by a qualified inspector. Your local chimney sweep must also be informed of the installation, as this will affect the routines for regular chimney-sweeping services.

## WARNING!

The insert becomes very hot

Parts of the insert become very hot when it is in use and can cause burns if touched. You should also be careful of the heat that transfers through the door glass. Combustible materials must be kept at the stated safe distance to prevent the risk of fire. A smouldering fire emits gases that can suddenly ignite and cause material damage and personal injury.

# Technical specifications

| **Model** | **i60** |
|---|---|
| Output | 5-9 kW |
| Nominal output | 6,0 kW |
| Efficiency | 81% |
| | |
| Weight (kg) | 140 |
| Width (mm) | 585 |
| Depth (mm) | 500 |
| Height (mm) | 1530 |

Connection sleeve diameter Ø150 mm ext.

## General information

This manual contains instructions on how to install the Contura i60. We recommend the insert be installed by a qualified tradesperson to ensure it functions safely and properly. Our Contura dealers can recommend suitable installers. Dealer information is available at www.contura.eu An instruction manual on how to obtain optimal performance from your insert is also provided. Please read this carefully and keep for future reference.

## Structural support

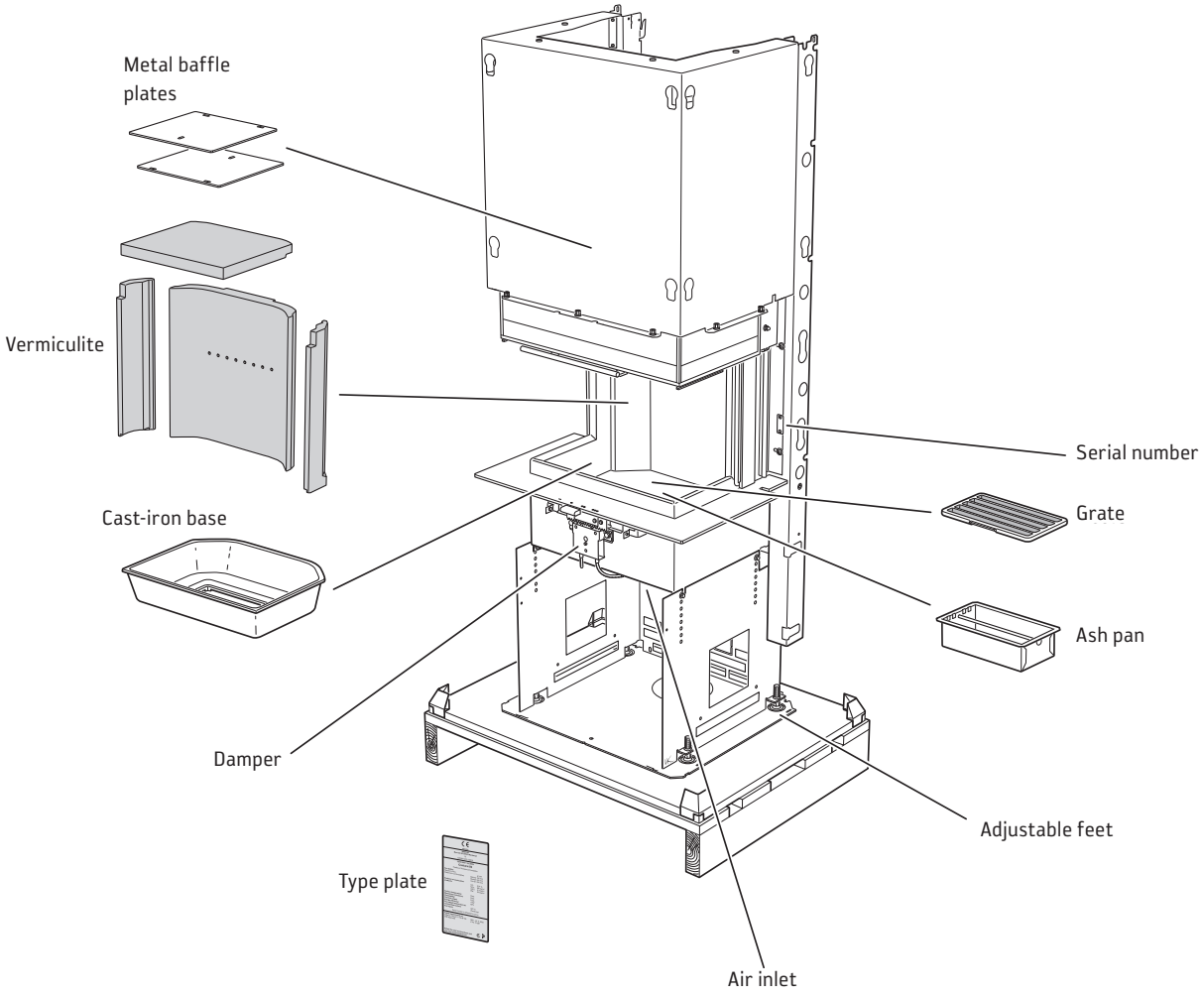
Check that the floor joists are strong enough to bear the weight of the insert, chimney and construction parts.

## Hearth plate

To protect the floor in front of the hearth from falling embers, a non-combustible floor covering must be placed at least 300 mm all around. A toughened glass hearth plate is available as an accessory.

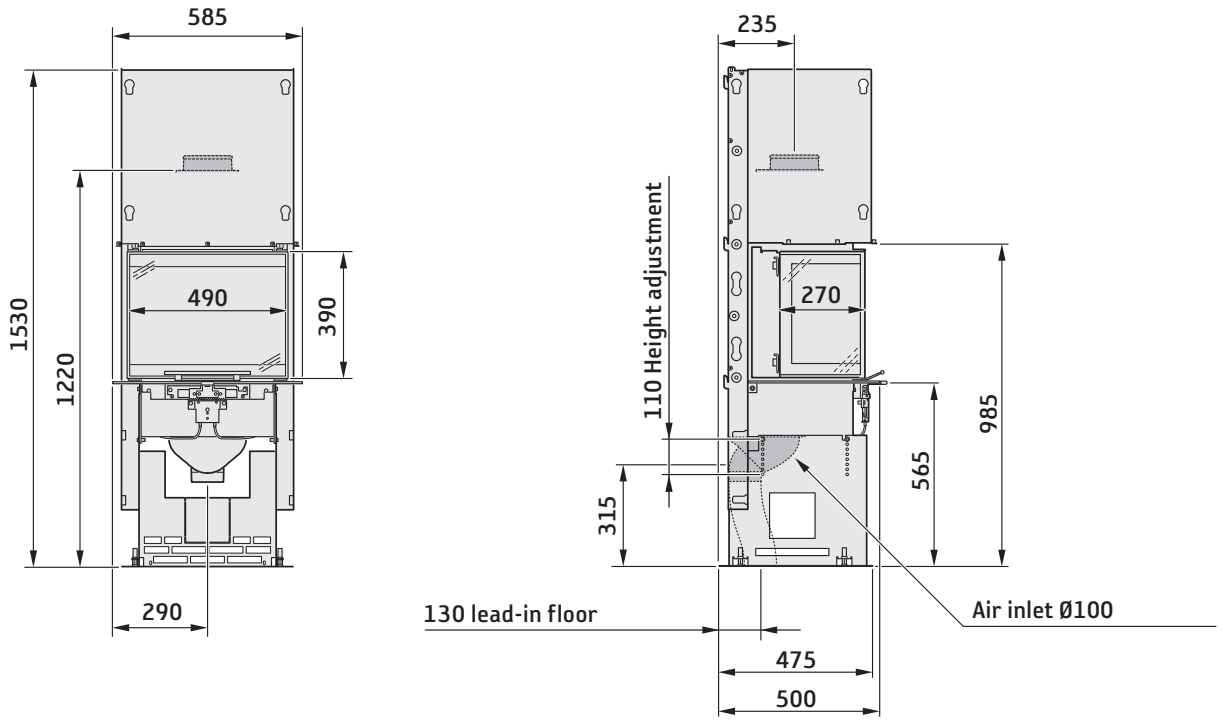
## Application to local authority

You must apply for permission from your local authority before installing a stove or erecting a chimney. We recommend you contact your local authority for advice and information about obtaining permission.



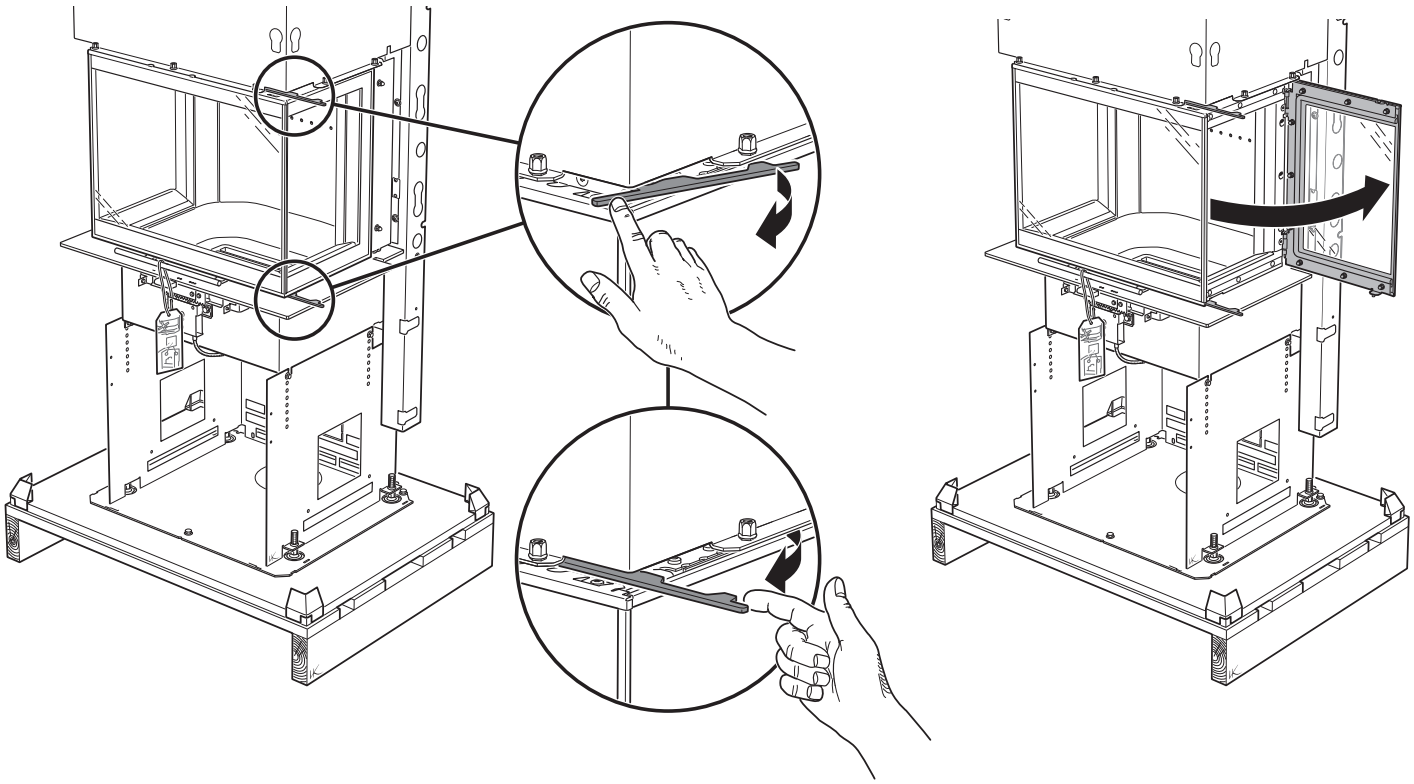
# Important dimensions

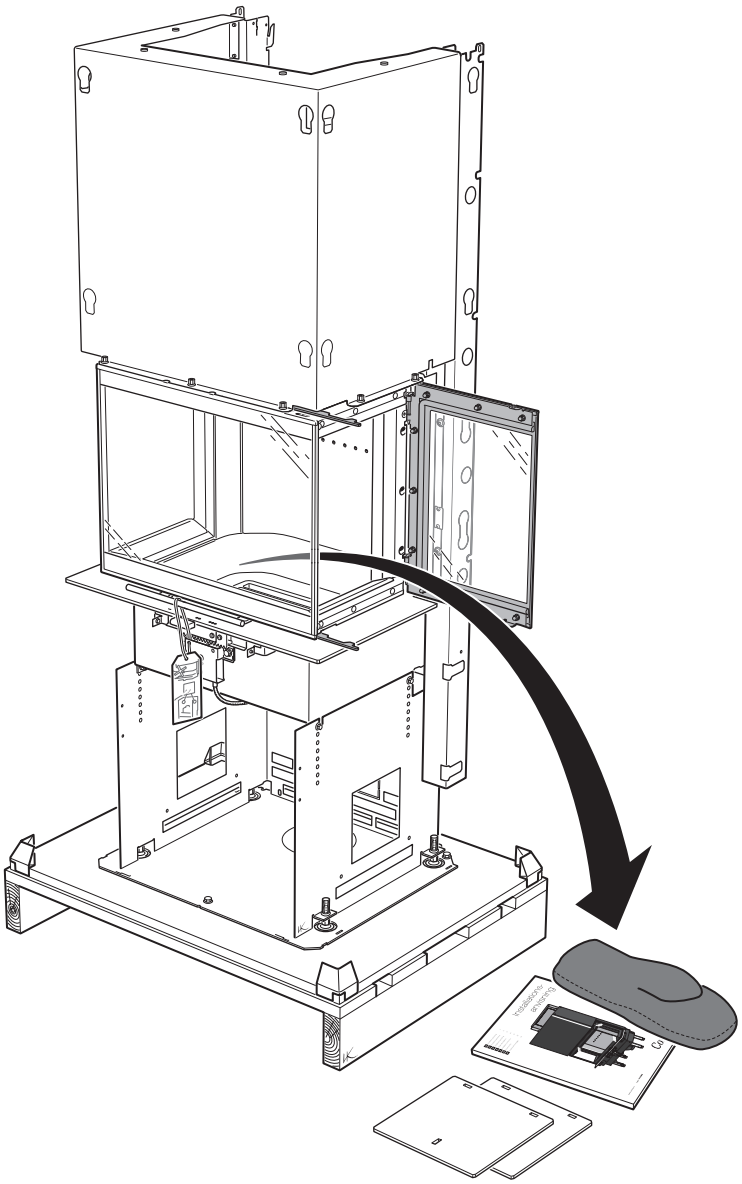
## Ci60

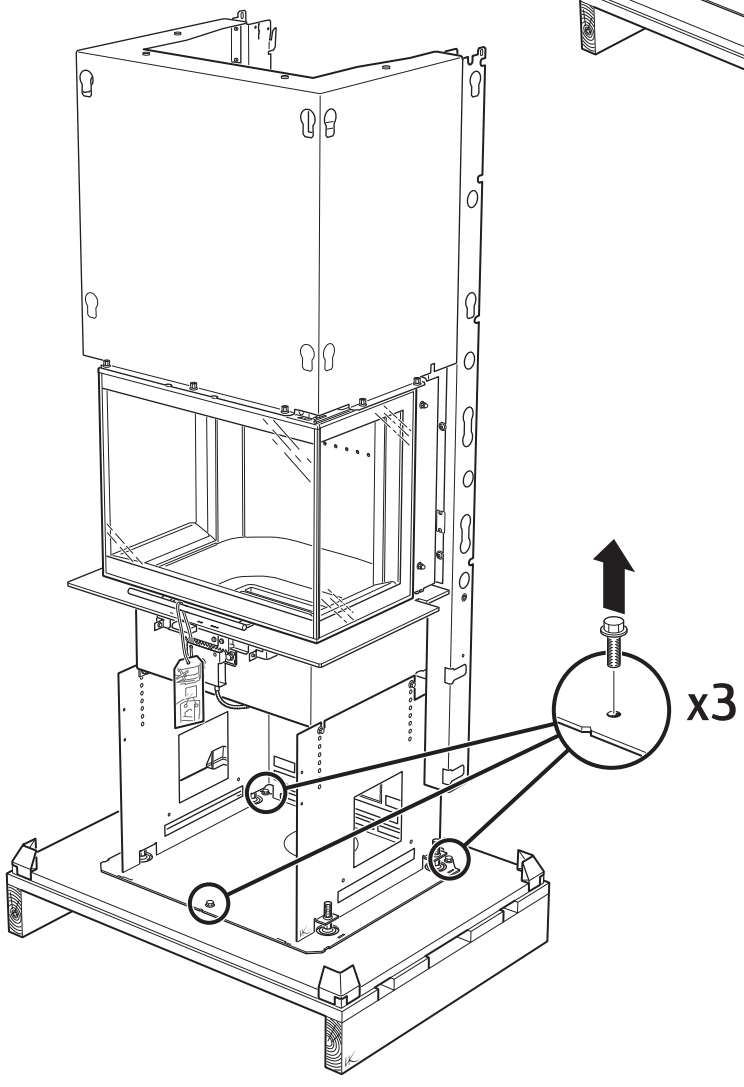


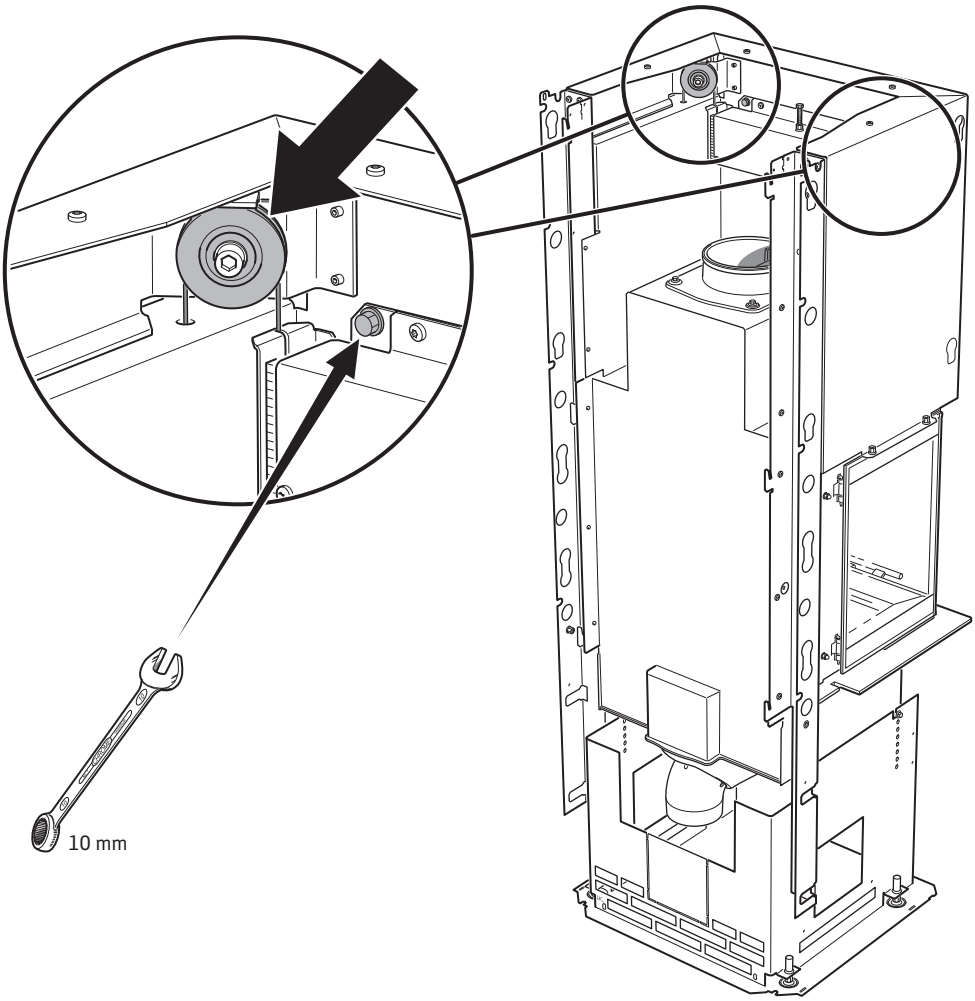

# Prior to installation

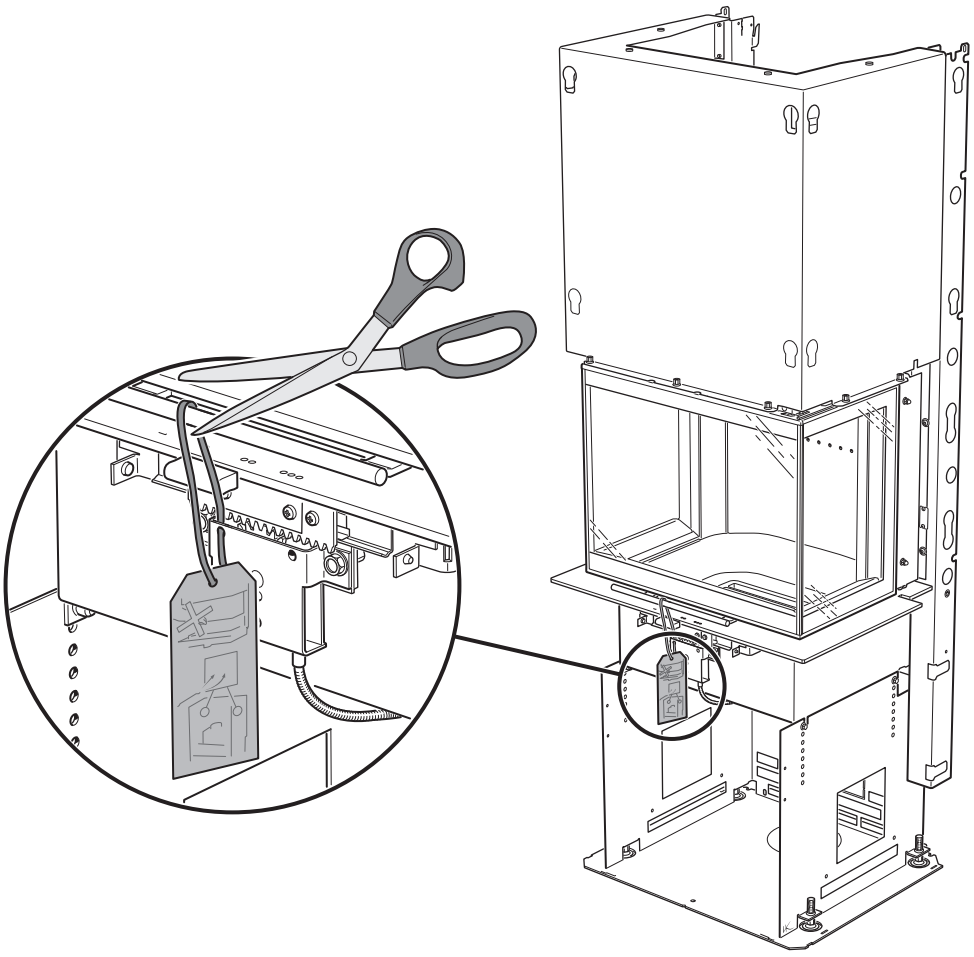
## Opening a side glass panel





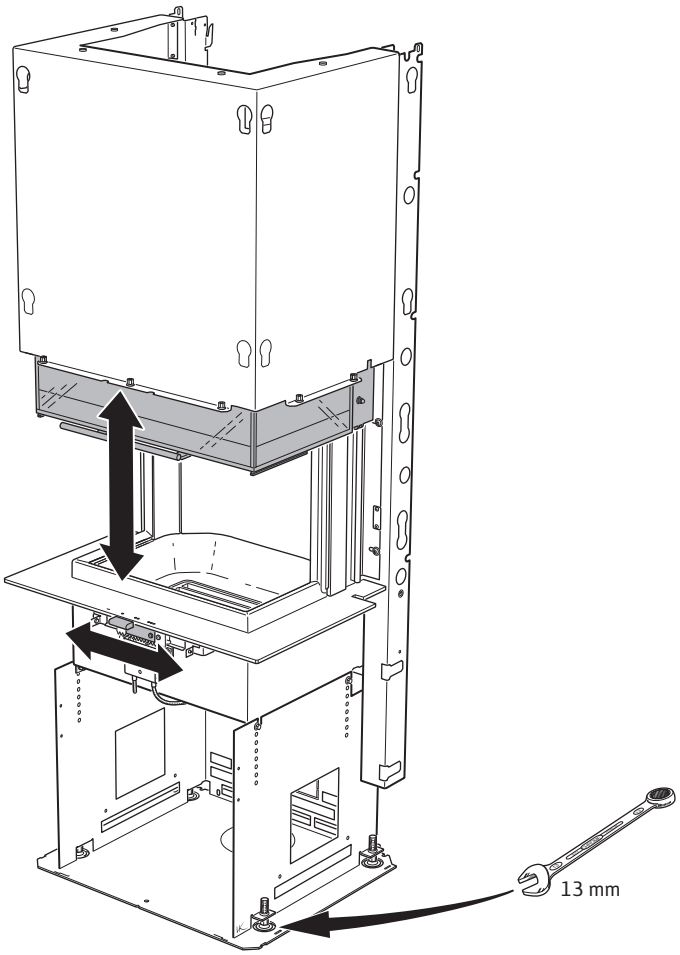

x3


10 mm



## Performance check

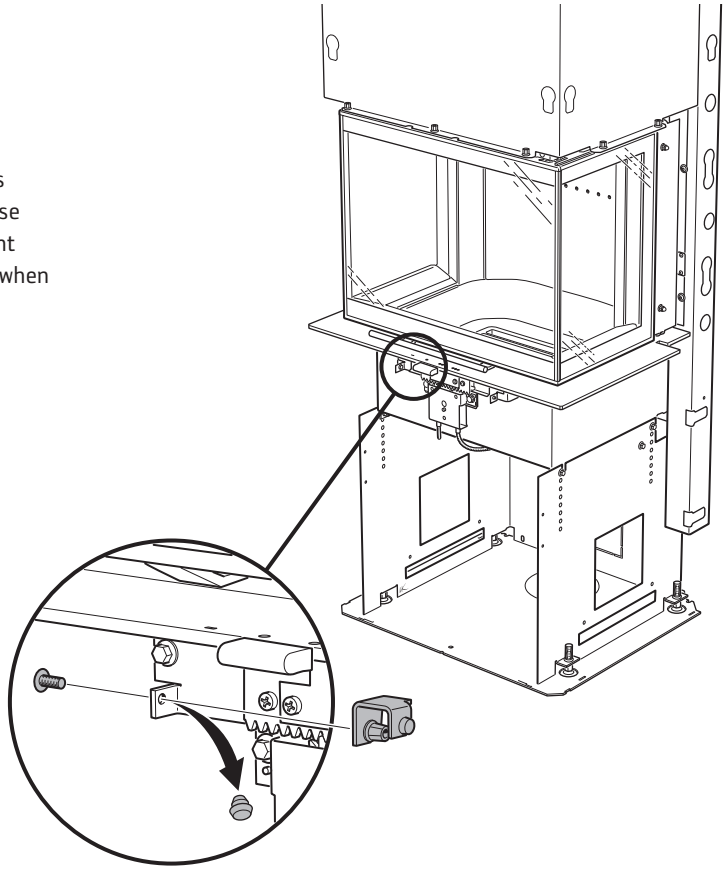
**Check the performance of the insert as follows:**
Use the adjustable feet to level the insert. Check that the door can be opened and closed.
Check that the damper knob can be moved back and forth to the max. and min. marks.



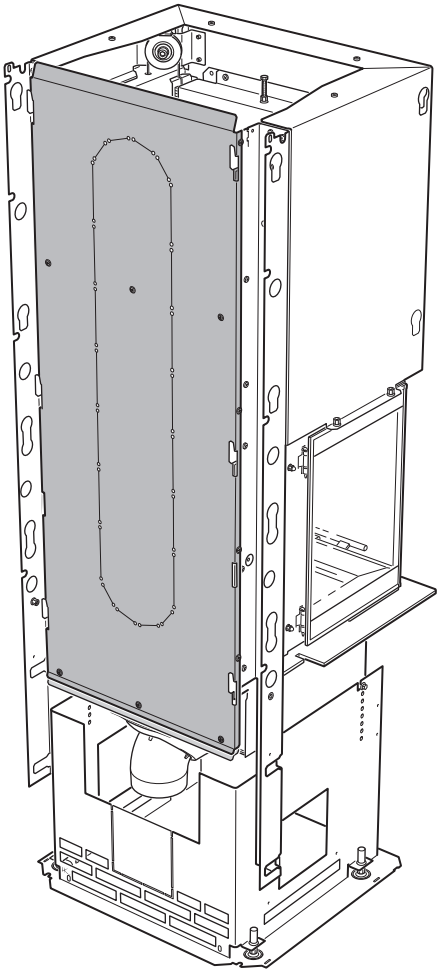

# For installation in the UK and in smoke control areas

## Mandatory for smoke control areas

The Contura i60 and i61, 6 kW woodburning stoves has been recommended as suitable for use in smoke control areas. This when burning wood logs and operated in accordance with these instructions and when fitted with a mechanical stop to prevent closure of the air control vent beyond the 19% open position when sold into smoke control areas.



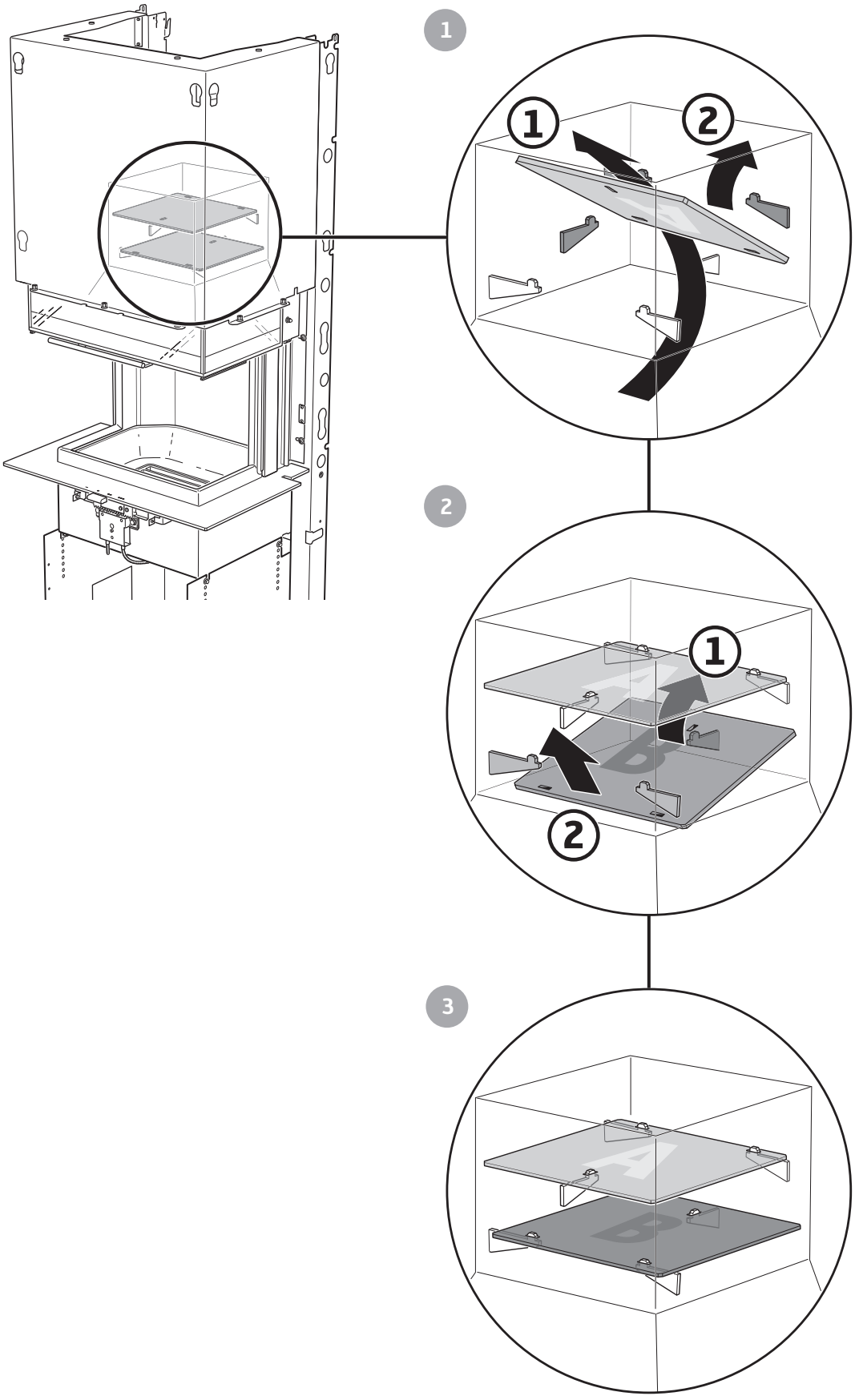
The permanent stop must be installed if the appliance is to be used in a smoke control area, this stop must not be removed in smoke control areas, otherwise an offence will be committed if the appliance is used without the permanent stop in place.



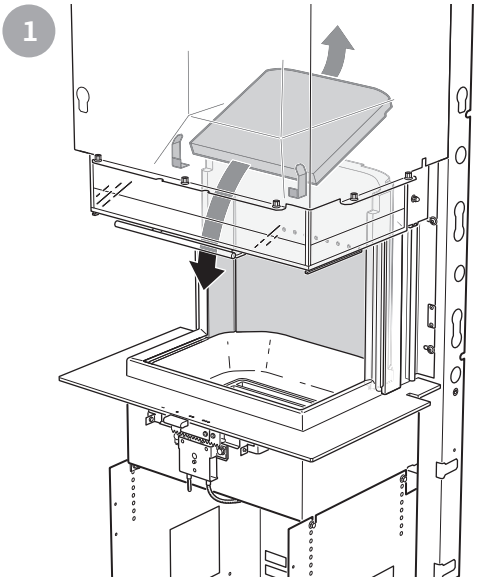
## Heat deflector

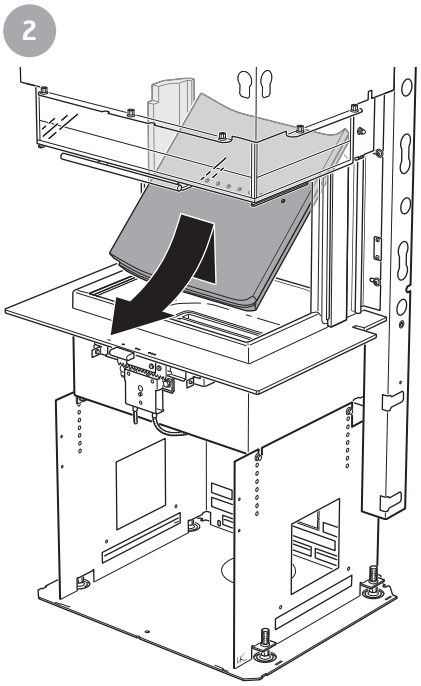
Install the heat deflector according to separate instructions.
Note that Contura's protective screen is used instead of the heat deflector for all Ci61 installations.

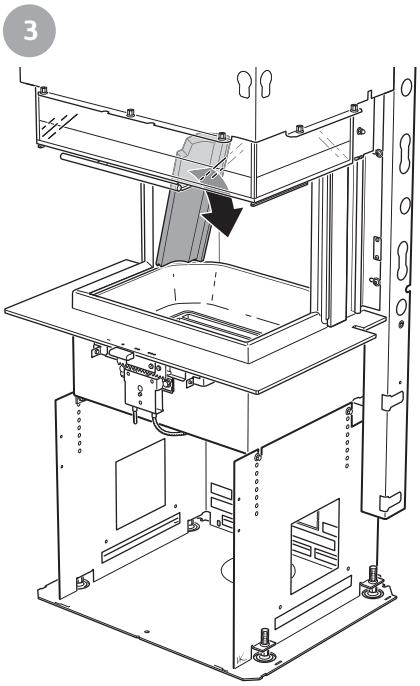
# Installing the metal baffle plates

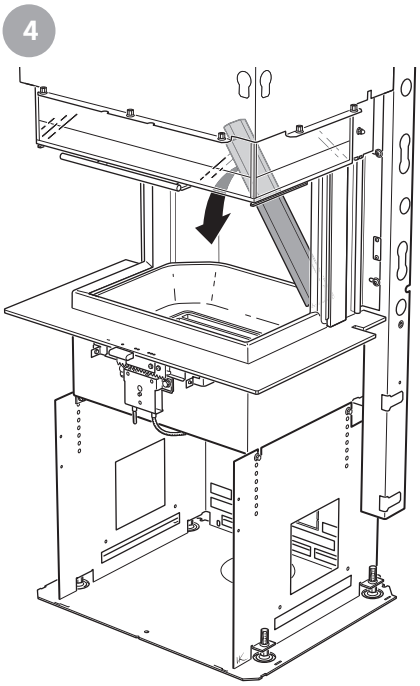


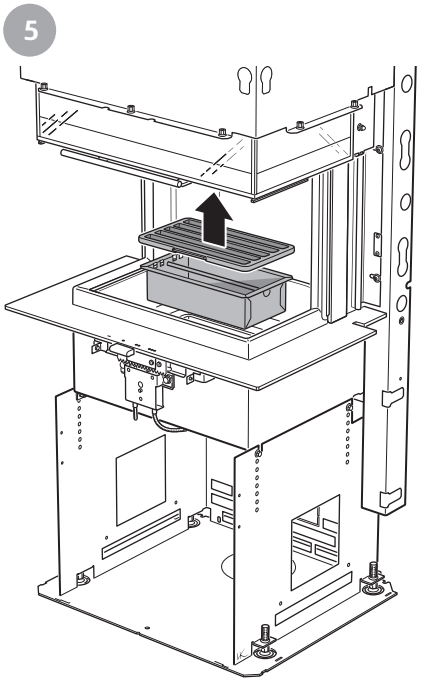
# Removing the hearth cladding

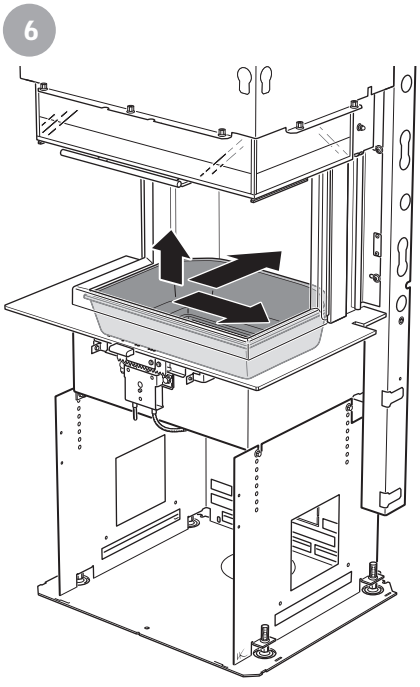


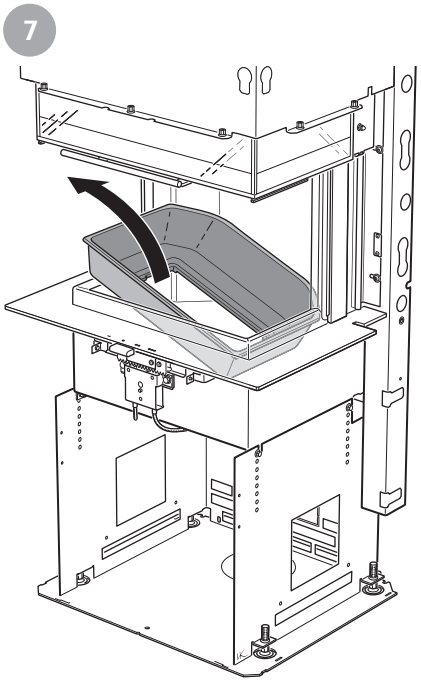



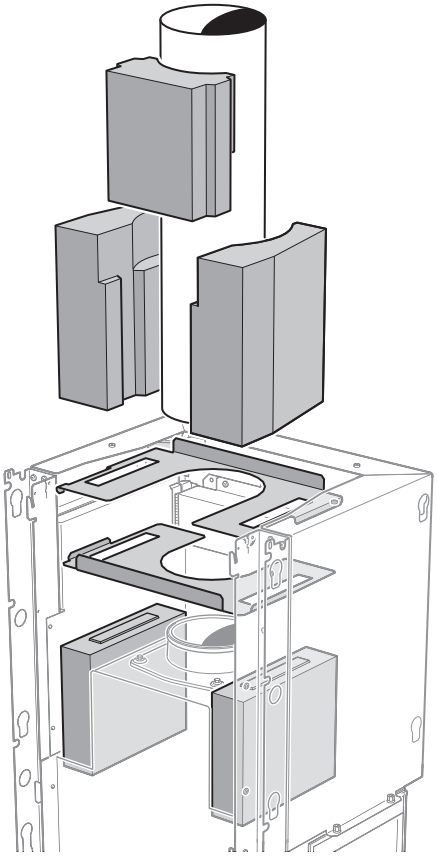



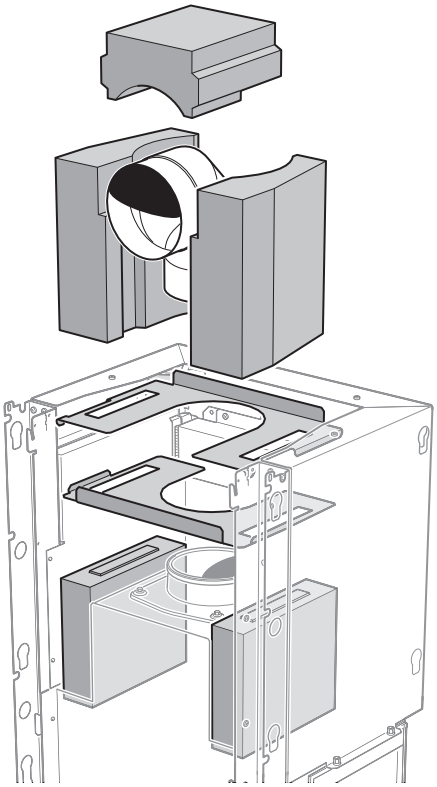



# Installing Powerstone

Option





# Installation

Make sure that the installation complies with national and regional regulations. The installation must be approved by an authorised inspector.

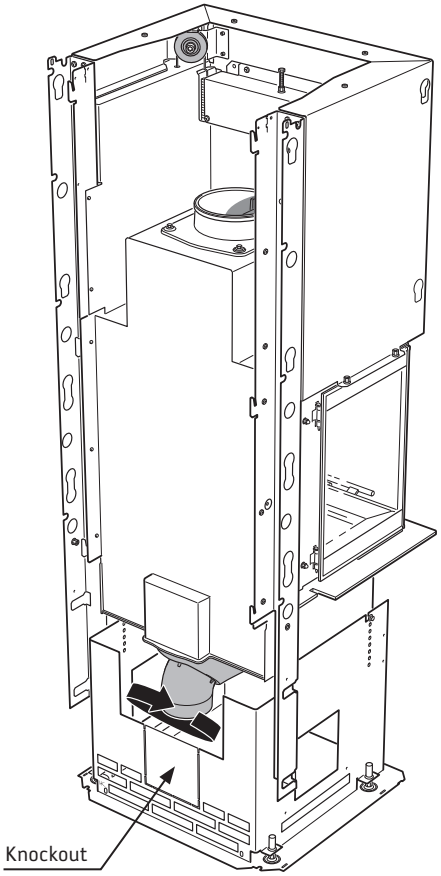
## Combustion air supply

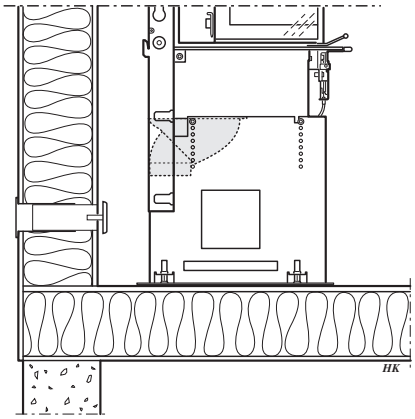
Supply of combustion must be provided. Combustion air can be drawn directly via a duct from outside, or indirectly via a vent in the outer wall of the room where the stove is placed. The amount of combustion air that is used for combustion is approx. 25 $m^3$/h.

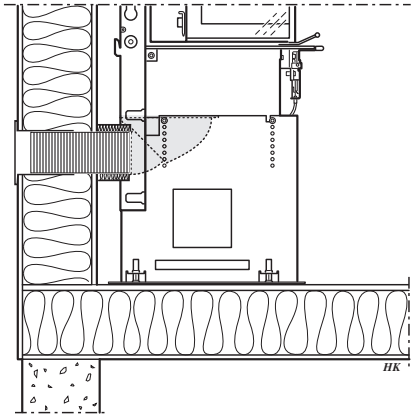
Some installation alternatives are shown below. The connection sleeve on the stove has an external diameter of Ø100 mm.

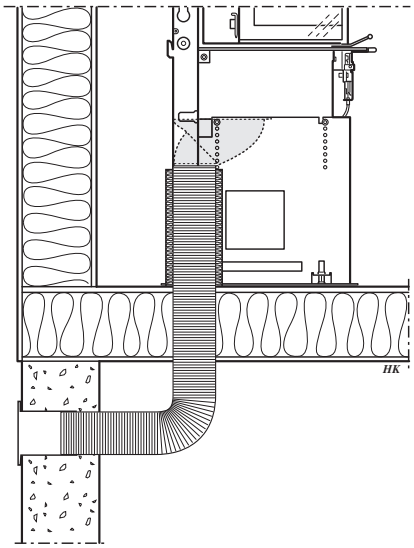
In warm spaces, the duct should be insulated to prevent condensation using 30 mm mineral wool covered with a vapour barrier (aluminium tape). It is important that the lead-in, between the pipe and the wall (or floor), is sealed using jointing compound.

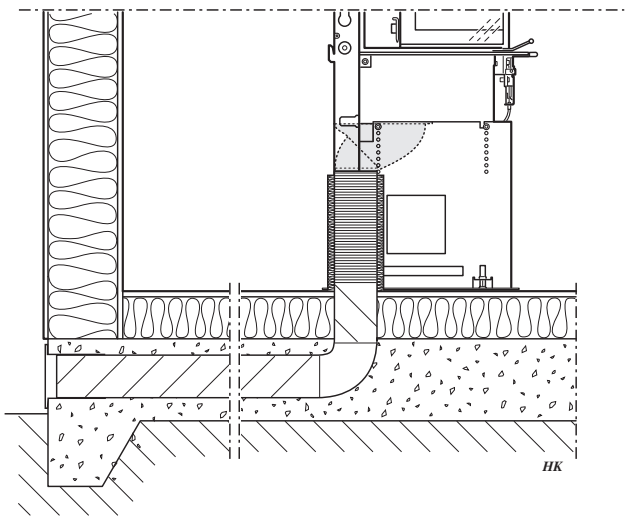
A 1-metre combustion-air tube insulated to prevent condensation is available as an optional extra.



# Chimney

The insert is approved for connection to a chimney designed to withstand flue gas temperatures of up to 350°C. The external diameter of the connection sleeve is Ø150 mm.
The insert requires a chimney draft that creates a negative pressure of 20–25 Pa in the firebox. The draft is affected primarily by the length and area of the chimney and also by how well sealed it is. The minimum recommended chimney length is 3.5 m and a suitable cross-section area is 150-200 $cm^2$ (Ø140-160 mm). Carefully check that the chimney is sealed and that there is no leakage of smoke from the soot doors or connections.

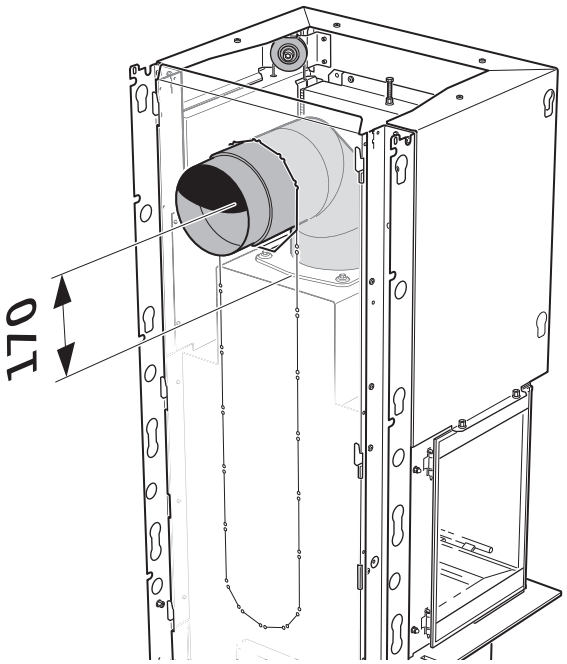
Note that sharp bends and horizontal lengths in a flue pipe reduce the draft in the chimney. The maximum horizontal length of flue pipe allowed is 1 m, provided the flue pipe rises vertically for at least 5 m. It must be possible to sweep the full length of the flue, and the soot doors must be easily accessible.

If two fireplaces are connected to the same chimney flue, the stove must be fitted with a self-closing door.

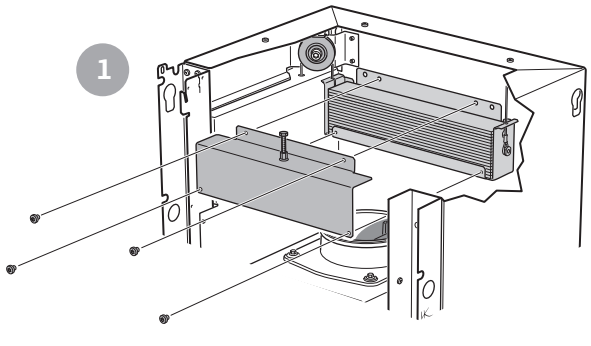
## Rear connection

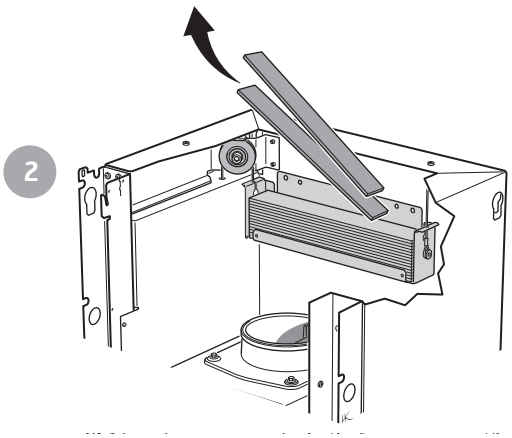
If connecting at the rear, we recommend using a 45°+45° angle with a soot hatch and with the centre 170 mm above the sleeve.

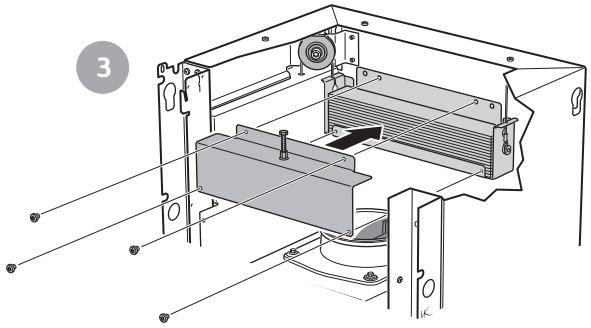
It is important that sweeping can be carried out through convection grates or a hatch in the surround.

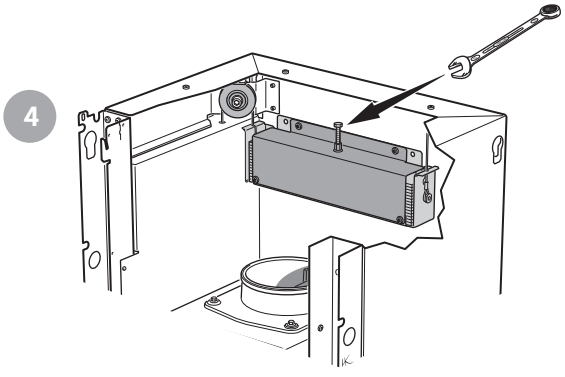



## Self-closing door
(ONLY APPLIES TO GERMANY)



# Recessing the insert

When recessing the insert, adjacent walls that are not classed as fire walls or are considered unsuitable for exposure to heat must be protected by non-combustible building material in accordance with the specifications below.
All joints on the non-combustible material must be sealed using the method indicated by the manufacturer. The space between the insert and the recess must be ventilated in accordance with specifications/dimensions diagrams on page 97.

When connecting a steel flue, please refer to the particular manufacturer's installation instructions. Observe the requirements for safe distances from the steel flue to combustible materials. Because of the strong heat radiating from the door, combustible materials must be placed a minimum of 1 m from the door. The insert must be installed with clearance to the building material, not in direct contact with it, to allow for thermal expansion of the insert.
Note that the area below and in front of the insert must comply with building regulations. See section "Hearth plate".

## Material requirements

The building material must not be combustible.
The thermal conductivity coefficient λ must be maximum 0.14 W/mK.
The building material must always be at least 40 mm thick.
Where the insulation properties of building material are given as a U-value, it must be maximum 1.4 W/ m²K.

**List of suitable materials:**
**Aerated concrete** λ = **0.12-0.14**
**Vermiculite** λ = **0.12-0.14**
**Calcium silicate** λ = **0.09**

## Sealing

The recess must not go all the way up to the ceiling. Leave an air gap of at least 20 mm closest to the ceiling. The recess must be sealed off above the convection exhaust. The seal must be a 100 mm non-combustible material (see material requirements above) and must be placed no more than 40 mm above the upper edge of the convection exhaust. Use heat-resistant silicone, or a suitable equivalent, between the seal and chimney.

## Convection air

The convection air ventilates the surround, cools the insert and carries hot air out into the room. The effective cross-section area on the air intake and exhaust must not be less than the stated values. The air intake must be positioned somewhere between floor level and the bottom of the insert, at the front or on the sides of the recess. The air exhaust must be positioned above the highest point of the insert at the front or the sides of the recess.

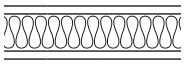
If the air intakes or exhausts are positioned on the sides, the areas for the left and right side respectively must be the same size to ensure that the insert is evenly cooled.
The distance between the exhausts on the sides and a combustible wall behind should be at least 100 mm.
Observe the minimum distance up to the ceiling (see the diagram on page 95).

**Convection air in: 300 cm²**
**Convection air out: 300 cm²**

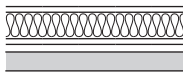
## Service

Make sure it is possible to access the damper control and counterweight through hatches or ventilation grilles in the surround.

# Recess example

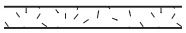


Wall made of combustible material



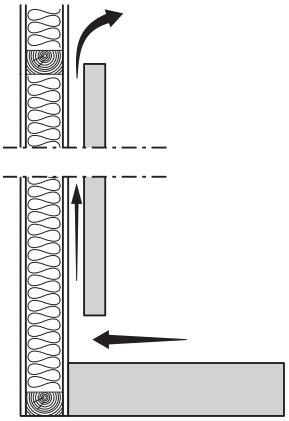
Aerated wall, comprising at least a 40 mm calcium silicate board and an air space. There must be a 20 mm air space between the building board and the combustible wall. The air space must allow air to flow freely along the lower and upper edges (see diagram to the right).

Firewall, approved and fully complies with safety requirements according to the authorised inspection body. Examples of approved firewalls are 120 mm solid brick and 100 mm aerated concrete.



Wall made of non-combustible material that is not in contact with combustible material and therefore has no minimum thickness requirement.

**Unless otherwise stated, these are the minimum dimensions.**



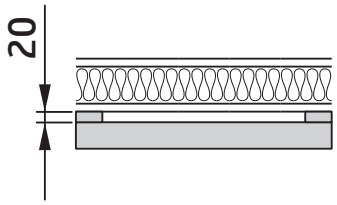
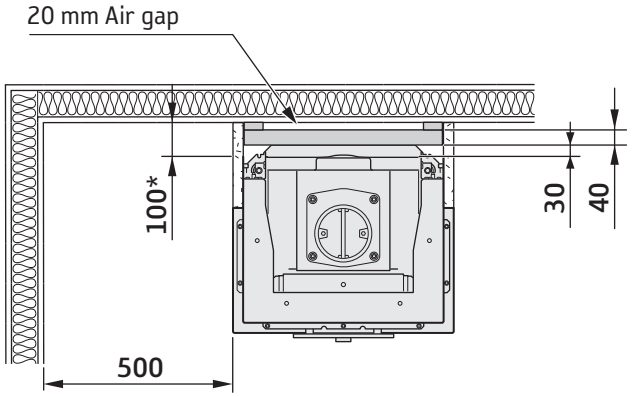


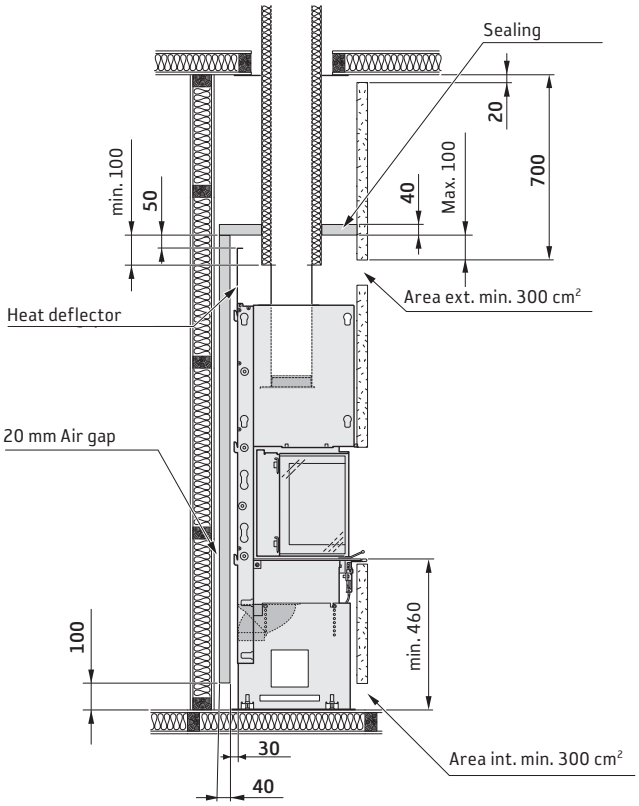

Diagram of aerated wall
Two calcium silicate board battens ensure that the air space is maintained.

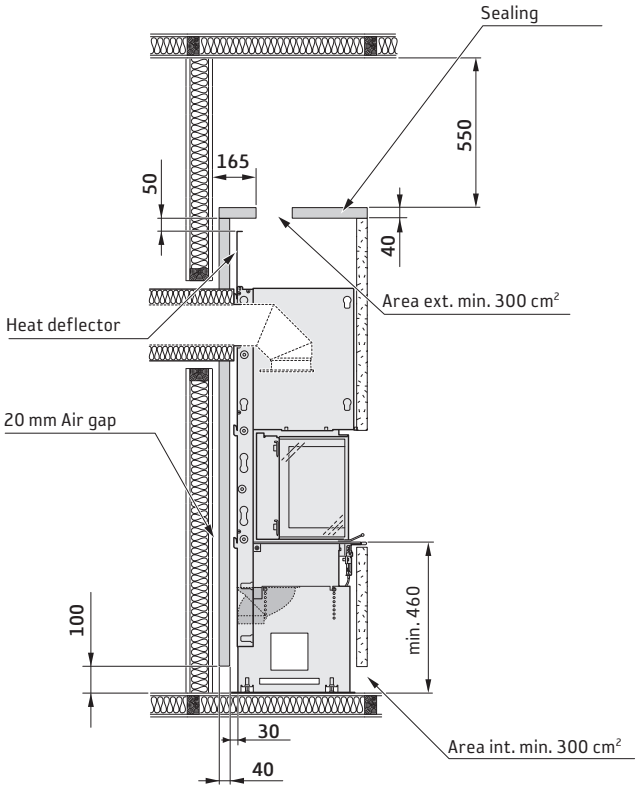


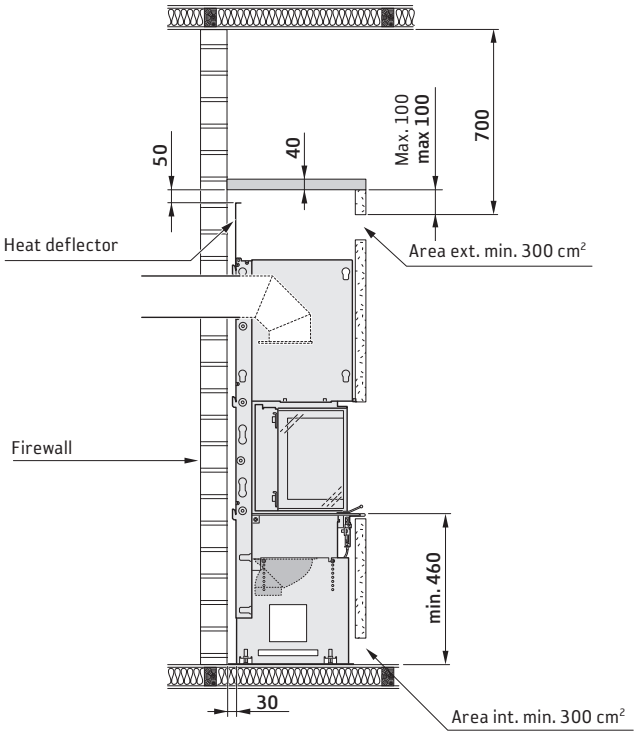

* The distance between the exhausts on the sides and a combustible wall behind should be at least 100 mm.

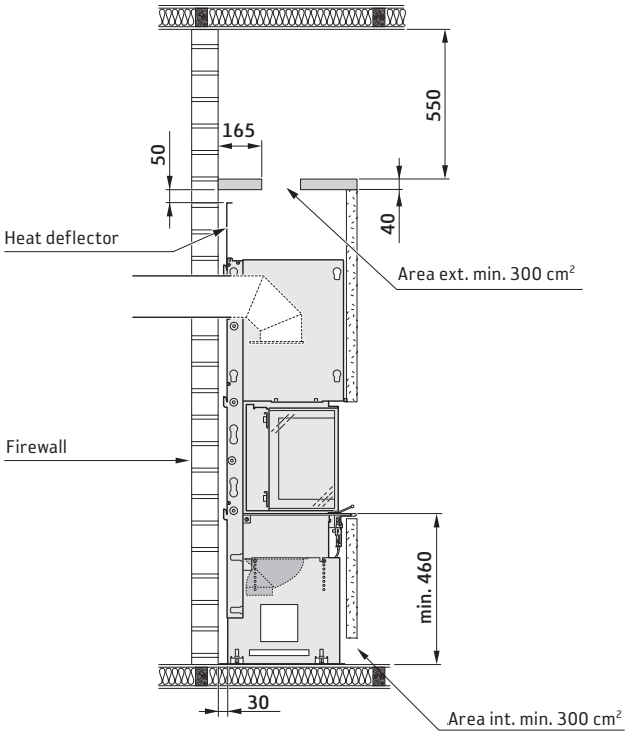
## Final inspection of the installation

It is extremely important that the installation is inspected by an authorised inspection body before the stove is used. You should also read the “Lighting instructions” before lighting the stove for the first time.




Always observe the requirements for safe distances from a steel flue to combustible materials

Unless otherwise stated, these are the minimum dimensions.

Contura

NIBE AB · Box 134 · 285 23 · Markaryd · Sweden
contura.eu



811412 IAV SE-EX Ci60-1
2021-11-25