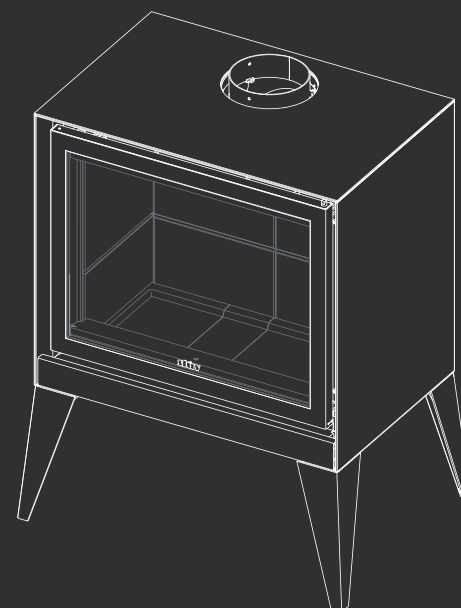
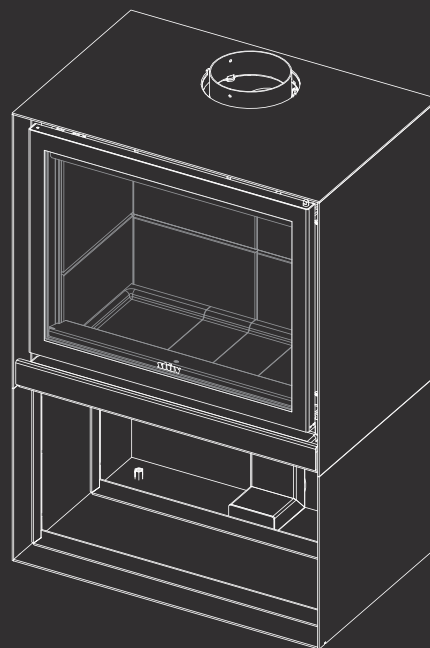
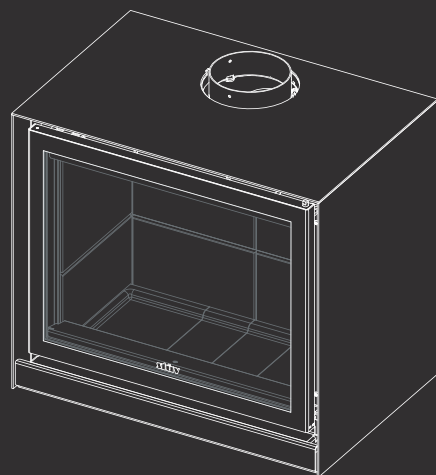


# s[16]cube, s[16]H & s[16]V

## INSTALLATION MANUAL

Keep these instructions for future reference



### REQUIRED TOOLS



Knife with  
retractable blade



Measuring  
tape



Crowbar



Level



Impact drill



Flat screwdriver



7mm  
Flat wrench

### REQUIRED HARDWARE



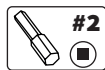
7 mm  
hex socket



8 mm  
hex socket



10 mm  
hex socket



No. 2  
square bit



No. 2  
Phillips bit



5 mm  
hex bit



hex 3mm

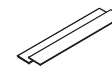


Torx 20 bit



Torx 25 bit

### REQUIRED MATERIAL



Non-combustible  
floor finishing



Protective fabric or  
cardboard



Chimney kit



Black no. 10 x 1/2"  
self-drilling screw



Ø4" clamping collar  
and flexible duct  
(option)

THANK YOU!

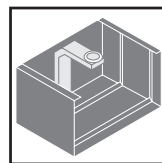
## APPENDICES

Thank you for choosing a Stûv wood-burning stove! It has been designed to provide maximum pleasure, comfort and safety. The utmost care has been taken in manufacturing this product. If, despite this, you still find a flaw, please contact your dealer.

This manual explains how to carry out a standard installation of a s16-cube, s16-H or s16-V unit. To install the H base or the air damper, certain particularities, which are outlined in the additional manuals provided, must be followed as applicable. If the appendices are missing, contact our customer service department and request the manual(s) needed, mentioning the code under the icon(s) below.

**Look for these symbols.** They signal a change from the standard installation. It is very important to look through the installation manual and the additional manuals before getting started and to follow the instructions closely during installation to ensure that no steps are omitted.

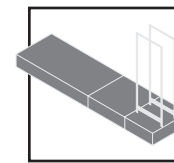
Keep all installation manuals provided close at hand to have all the information needed and to ensure proper and safe installation.



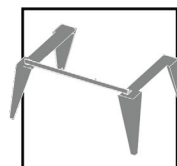
**H BASE**  
93109287



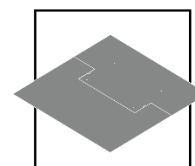
**AIR DAMPER**  
93109290



**PODIUM SET**  
93109288



**BASE V**  
93109268



**PLAQUE DE SOL**  
93109267



### IMPORTANT

Before installing this Stûv unit, contact the local authorities and/or your insurance company to obtain a building permit and inquire about all the requirements that need to be met.

For information on all the applicable regulatory requirements, contact your local fire department before starting the installation.

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# 1

## CERTIFICATION

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## 1.1 CERTIFICATION



**Tested and certified by CSA**  
according to these standards:

**UL 1482 – 7<sup>e</sup> Édition & CAN/ULC-S627-23 4<sup>e</sup> Édition**  
**CSA B415.1-22**  
**EPA 2020**  
6" ou 7" CHIMNEY : **UL-103HT or ULC-S629**

Please read this entire manual before you install and use your new room heater. Failure to follow instructions may result in property damage, bodily injury, or even death.

This unit must be installed by a qualified professional. Improper installation could result in a fire. To reduce the risk of fire, follow the installation instructions.

The instructions for the installation of this wood-burning stove comply with the above-mentioned standards. They must be closely followed to eliminate the risk of serious problems.

This wood heater must be installed in accordance with standard **CSA B365 (Canada) or N.F.P.A. 211 (United States)**, the Installation Code for Solid-Fuel-Burning Appliances and Equipment, the applicable building code and standards applicable to the structure in which the insert will be installed.

This manual describes the installation and operation of the s16-cube wood heater. Models s16 meet the 2020 U.S. Environmental Protection Agency's fine particle emission limits for wood heaters sold after May 15, 2020.



### NOTE

We strongly recommend that our products be installed and maintained by professionals certified by the Association des Professionnels du Chauffage if you are in Quebec or by Wood Energy Technical Training for the rest of Canada, and by the National Fireplace Institute in the United States.



## 1.2 TECHNICAL SPECIFICATIONS



| s16-cube, s16-H & s16-V                                       | 58                    | 68                   | 78                   |
|---------------------------------------------------------------|-----------------------|----------------------|----------------------|
| Average fine particle emission rate, in g/h and g/MJ (output) | 1.47 g/h<br>0.06 g/MJ | 1.7 g/h<br>0.07 g/MJ | 1.8 g/h<br>0.07 g/MJ |
| Fine particle emission rate in first hour, in g/h (output)    | 2.49 g/h              | 4.23 g/h             | 4.14 g/h             |
| Average efficiency of the appliance (%)                       | 71%                   | 66%                  | 67%                  |
| Minimum heat output rate (BTU/h)                              | 22 432*               | 22 179*              | 23 726*              |
| Maximum heat output rate (BTU/h)                              | 27 015*               | 23 727*              | 27 092*              |
| Max. log length                                               | 17"                   | 21"                  | 25"                  |
| s16-cube weight                                               | 250 lb.               | 272 lb.              | 300 lb.              |
| s16-H weight                                                  | 332 lb.               | 362 lb.              | 396 lb.              |
| s16-V weight                                                  | 267.4 lb.             | 289 lb.              | 317.6 lb.            |
| Combustion chamber usable volume                              | 1.59 pi <sup>3</sup>  | 1.94 pi <sup>3</sup> | 2.2 pi <sup>3</sup>  |
| Wood consumption/H                                            | 1.87 kg/h             | 1.86 kg/h            | 2.02 kg/h            |
| Tested fuel                                                   | Crib wood             |                      |                      |

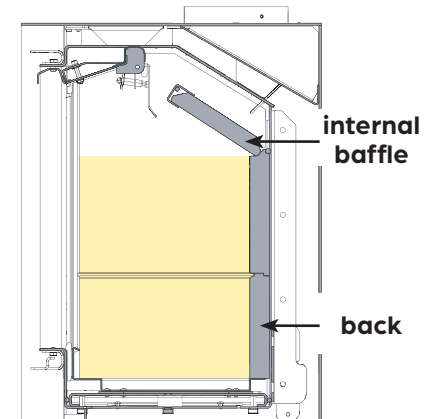
\*Value calculated under specific test conditions (calculated according to standard CSA B415.1). The results are calculated according to the wood's high calorific value.

Efficiency can be affected by the appliance's location in the building, the geographic location, outdoor temperatures and the wood used. See the **FUEL SELECTION** section for more information.



### NOTE

The height of the usable volume has been defined by the clear landmark formed at the junction with the back and the internal baffle. This permanent variation determines the maximum allowable height for fuel loading. However, we recommend following the instructions in section 6.3, "Reloading the Fire" to optimize combustion and prevent overheating the unit.



# 1.3 MARKING LABELS



## MODELS/MODÈLES :

STÜV 16-58 cube, 16-68 cube, 16-78 cube

STÜV 16-58 H, 16-68 H, 16-78 H

MANUFACTURED BY / FABRIQUÉ PAR :

STÜV AMERICA 34, Boul. de l'Aéroport

Bromont QC Canada J2L 1S6 [stuvamerica.com]

| DATE OF MANUFACTURE / DATE DE FABRICATION |     |     |     |     |  |
|-------------------------------------------|-----|-----|-----|-----|--|
| 2025                                      | JAN | FEB | MAR | APR |  |
| 2026                                      | MAY | JUN | JUL | AUG |  |
| 2027                                      | SEP | OCT | NOV | DEC |  |

LABEL NO. / NO. D'ÉTIQUETTE :

STÜV 16\_000 000

stuv



**CERTIFIED AND CONFORMS TO / CERTIFIÉ CONFORMÉMENT SELON :**  
CAN/ULC-S627-2023 4<sup>th</sup> Edition | UL 1482 - 7<sup>th</sup> Edition | CSA B415.1-22 | EPA 2020 CRIB WOOD  
ASTM E2780-10 | ASTM E2515-11 methods 28R as referred into 40 CFR Part 60 Subpart AAA  
16-58: 1.5 G/H (EPA 2020) | 16-68: 1.7 G/H (EPA 2020) | 16-78: 1.8 G/H (EPA 2020)

**LISTED FACTORY BUILT STOVE FOR USE IN CANADA AND THE U.S.A.**  
NOT SUITABLE FOR MOBILE HOME INSTALLATION

**POÊLE PRÉ-FABRIQUÉ HOMOLOGUÉ POUR LE CANADA ET LES É.-U.**  
NE PAS INSTALLER DANS UNE MAISON MOBILE

**U.S. ENVIRONMENTAL PROTECTION AGENCY**

Certified to comply with 2020 particulate emission standards for single burn rate heaters using crib wood. This single burn rate wood heater is not approved for use with a flue damper.

**AGENCE DE PROTECTION DE L'ENVIRONNEMENT É-U**

Conforme aux standards d'émissions 2020 pour foyers à combustion constante utilisant du bois dimensionné. Ce foyer à vitesse de combustion constante n'est pas approuvé pour utilisation avec un registre d'air.

**CHIMNEY TYPE (See manual for appropriate choice)**

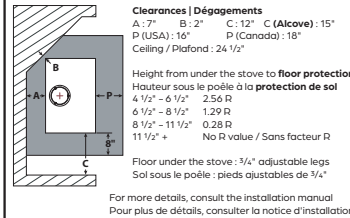
Use only a 6 or 7 inches double-wall flue pipe connector (black)  
Use only a 6 or 7 inch chimney listed per UL 103 HT or ULC-S629.

**TYPE DE CHEMINÉE (Voir la notice d'installation pour les bons choix)**

Utiliser uniquement un connecteur à double parois (noir) de 6 ou 7 pouces. Utiliser uniquement une cheminée de 6 ou 7 pouces répertoriée selon la norme UL 103 HT ou ULC-S629

The minimum clearances indicated below are **from the glass** and for all types of combustible materials (e.g.: wood, drywall, etc.).

Les dégagements minimaux indiqués ci-dessous sont **à partir de la vitre** et pour tous matériaux combustibles (ex. : bois, gypse, etc.).



**Clearances | Dégagements**

A: 7" B: 2" C: 12" C (Alcove): 15"  
P (USA): 16" P (Canada): 18"  
Ceiling / Plafond: 24 1/2"

Height from under the stove to **floor protection**  
Hauteur sous le poêle à la **protection de sol**

4 1/2" - 6 1/2" 2.56 R  
6 1/2" - 8 1/2" 1.29 R  
8 1/2" - 11 1/2" 0.28 R  
11 1/2" + No R value / Sans facteur R

Floor under the stove: 3/4" adjustable legs  
Sol sous le poêle: pieds ajustables de 3/4"

For more details, consult the installation manual  
Pour plus de détails, consulter la notice d'installation

## STÜV 16

|                                                                                          | 16-58               | 16-68               | 16-78               |
|------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|
| Average particulate emission rate (output)<br>Émission particules fines moyenne (sortie) | 1.5 g/h<br>0.06g/MJ | 1.7 g/h<br>0.07g/MJ | 1.8 g/h<br>0.07 g/h |
| Average efficiency of the appliance (%)<br>Rendement moyen de l'appareil (%)             | 71%                 | 66%                 | 67%                 |
| Minimum heat output rate (BTU/h)<br>Puissance minimum (BTU/h)                            | 22 432              | 22 179              | 23 726              |
| Maximum heat output rate (BTU/h)<br>Puissance maximum (BTU/h)                            | 27 015              | 23 727              | 27 092              |

Check STÜV's installation instructions for precautions required for passing a chimney or chimney connector through a combustible wall or ceiling and reference to local building code for details

Se référer au code du bâtiment et aux instructions STÜV avant de traverser le mur ou le plafond avec votre conduit de cheminée.

MADE IN CANADA / FABRIQUÉ AU CANADA

- Fuel : Cord wood Only. All other fuels are forbidden.
- Unit can be placed directly on combustible material if covered with ember protection.
- Do not obstruct the combustion and convection air inlet and outlet.
- Refer to local building code for heart extension dimensions.
- For safe operation and in accordance to federal regulations follow the manufacturer's instructions.
- Replace glass only with Stüv's ceramic glass 4 mm thick.
- Do not operate unit with the door open and open the door only to reload.
- Components used with fireplace must be listed. See installation manual.
- Contact your local building or fire officials about restrictions and installation inspections in your area.
- Do not overfire - If stove or chimney connector glows, you are overfiring.
- Do not connect this unit to a chimney flue serving another appliance.
- Inspect and clean chimney frequently - Under certain conditions of use, creosote buildup may occur rapidly.
- Inspect and repair wood heater for proper operation.
- Do not use grate or elevate fire. Build wood fire directly on hearth.
- This wood heater needs periodic inspection and repair for proper operation. Consult the installation manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.
- To be installed as a freestanding space heater with the clearances in the manufacturer's installation instructions. Not to be installed in any fireplace.
- **CAUTION** : Hot parts. Do not operate unit with damper removed.

- Combustible : Bois de corde seulement.
- Cet appareil peut être placé directement sur un matériau combustible si couvert d'une protection contre les braises.
- Ne pas obstruer les entrées et sorties d'air de combustion et de convection.
- Se référer au code du bâtiment local pour le prolongement de l'âtre.
- Pour un fonctionnement sécuritaire et conformément aux règlements fédéraux, suivre les directives d'installation du fabricant.
- Remplacer le verre uniquement par un verre de céramique Stüv de 4 mm d'épaisseur.
- Ne pas utiliser l'appareil la porte ouverte et ouvrir la porte seulement pour charger.
- Les composantes utilisées dans l'appareil doivent être répertoriées. Voir la notice d'installation.
- Communiquer avec les autorités locales en matière de construction ou d'incendie pour connaître les restrictions et inspections d'installation dans votre région.
- Ne pas chauffer au point ou des parties deviennent rougeoyantes.
- Ne pas relier cet appareil à un conduit de cheminée servant un autre appareil.
- Inspecter et nettoyer la cheminée fréquemment - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se faire rapidement.
- Inspecter et réparer le poêle pour assurer le bon fonctionnement.
- Ne pas utiliser de chenet. Ne pas surélever le feu. Brûler le bois directement au fond de l'âtre.
- Cet insert a besoin d'inspection et d'entretien périodiques pour sa bonne utilisation. Consultez la notice d'installation pour davantage d'informations. L'utilisation contraire à la notice d'installation représente une violation de la loi fédérale.
- À installer comme une chaufferette autonome en respectant les dégagements indiqués dans les instructions d'installation du fabricant. Ne doit pas être installé dans un foyer.
- **ATTENTION** : Pièces chaudes. Ne pas faire fonctionner avec le clapet retiré.

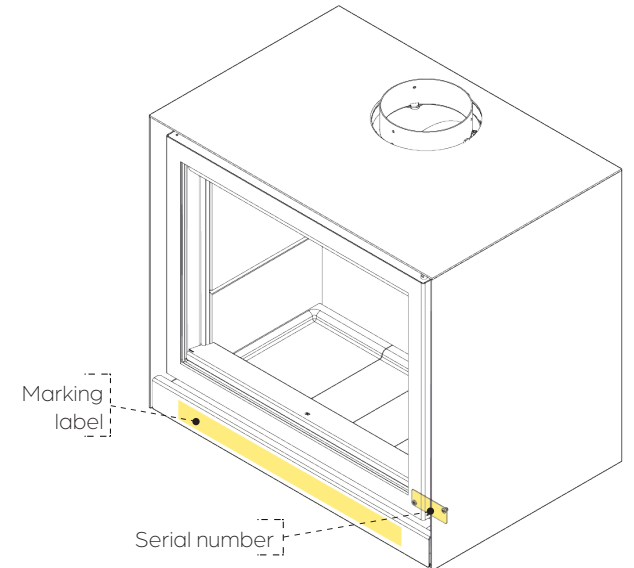
## ! CAUTION - ATTENTION !



HOT WHILE IN OPERATION DO NOT TOUCH, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAME-PLATE AND INSTRUCTIONS.

CHAUD LORSQU'EN FONCTION. GARDER LES ENFANTS, VÊTEMENTS ET MEUBLES HORS DE PORTÉE. TOUCHER L'APPAREIL POURRAIT CAUSER DES BRÛLURES. VOIR LA FICHE SIGNALÉTIQUE ET INSTRUCTIONS.

DO NOT REMOVE THIS LABEL / NE PAS RETIRER CETTE ÉTIQUETTE



## IMPORTANT

This Stüv appliance must be registered to be covered by the warranty. Please refer to the last section of this document for guidance.

The self-adhesive **marking label** is located in the back of the flap and the riveted label with the **serial number** is located under the door, on the combustion chamber. They contain all the information needed to register this product.



## WARNING

1. It is essential that this Stûv unit be installed by a qualified professional. For information on all the applicable regulatory requirements, contact the local fire department before beginning the work. The installation of the unit must comply with all local and national regulations.
2. The instructions for the installation of this unit comply with the aforementioned standards and with all local and national regulations; They must be closely followed to eliminate the risk of serious problems.
3. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.
4. Any modifications made to this unit may pose a hazard and will void the warranty. Should repairs be necessary, use only Stûv replacement parts.
5. Combustible materials such as firewood, wet clothing, etc. placed too close to the unit could catch fire. Objects placed in front of the unit must be kept at a distance of at least 48" (4') from the unit's glass face.
6. We recommend storing solid fuel in a clean, dry place. Do not place this type of fuel within the risk area or in the loading/ash removal area.
7. Do not operate this appliance with the door open. Never leave the stove unattended when the door is open. Always close the door after the ignition period.
8. Do not burn garbage, flammable liquids such as gasoline, naphtha and engine oil, plastic, petroleum-based products, rubber, industrial solvents, paper, cardboard, wood extracted from salt water and dried, painted wood or any substance that emits dense fumes and strong odours.
9. Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or 'freshen up' a fire in this heater. Keep all such liquids well away from the heater while it is in use. Do not use chemicals or fluids to start the fire.
10. Do not overfire the unit and do not use highly volatile fuel or combustible. Raising the temperature outside of the combustion chamber can result in a chimney fire.
11. Make sure the home is equipped with a smoke detector and carbon monoxide monitor kept near the stove to prevent carbon monoxide poisoning. We recommend keeping a type A or ABC fire extinguisher on hand in the event of a chimney fire.
12. Do not connect this appliance to a chimney flue serving another appliance, or to a hot air distribution system. Do not connect to or use in a conjunction with any air distribution ductwork unless specifically approved for such installations.
13. Hot while in operation. Keep children, clothing and furniture away. Touching the appliance while it is in operation may cause burns.
14. Some parts of the stove can be very hot when operated at rated capacity. Do not allow the stove to heat to the point where parts become red.
15. This appliance needs periodic inspections and maintenance for proper operation (minimum twice during the heating season).
16. Conduct regular maintenance of the stove as previously recommended.
17. Inspect and sweep the chimney frequently to ensure that it is in good condition. Creosote can build up quickly in certain operating conditions. Inspect and repair the chimney pipe as needed to ensure proper operation
18. Do not install this unit in a mobile home **(United States only)**.
19. The air inlets and outlets must remain unobstructed at all times. Do not obstruct the space beneath the heater, it could impact the combustion air opening.
20. This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.
21. Do not install in any fireplace. Do not install in a factory-built fireplace.
22. WARNINGS FOR TRANSPORTABLE BUILDING :
  - It is permit to install this unit in a transportable building in **CANADA ONLY**.
  - Do not install in sleeping room.
  - The structural integrity of the mobile home floor, wall and ceiling/roof must be maintained.
  - Remove the chimney for transportation of the building.
  - When installed in a transportable building, the unit must be affixed to the ground permanently.

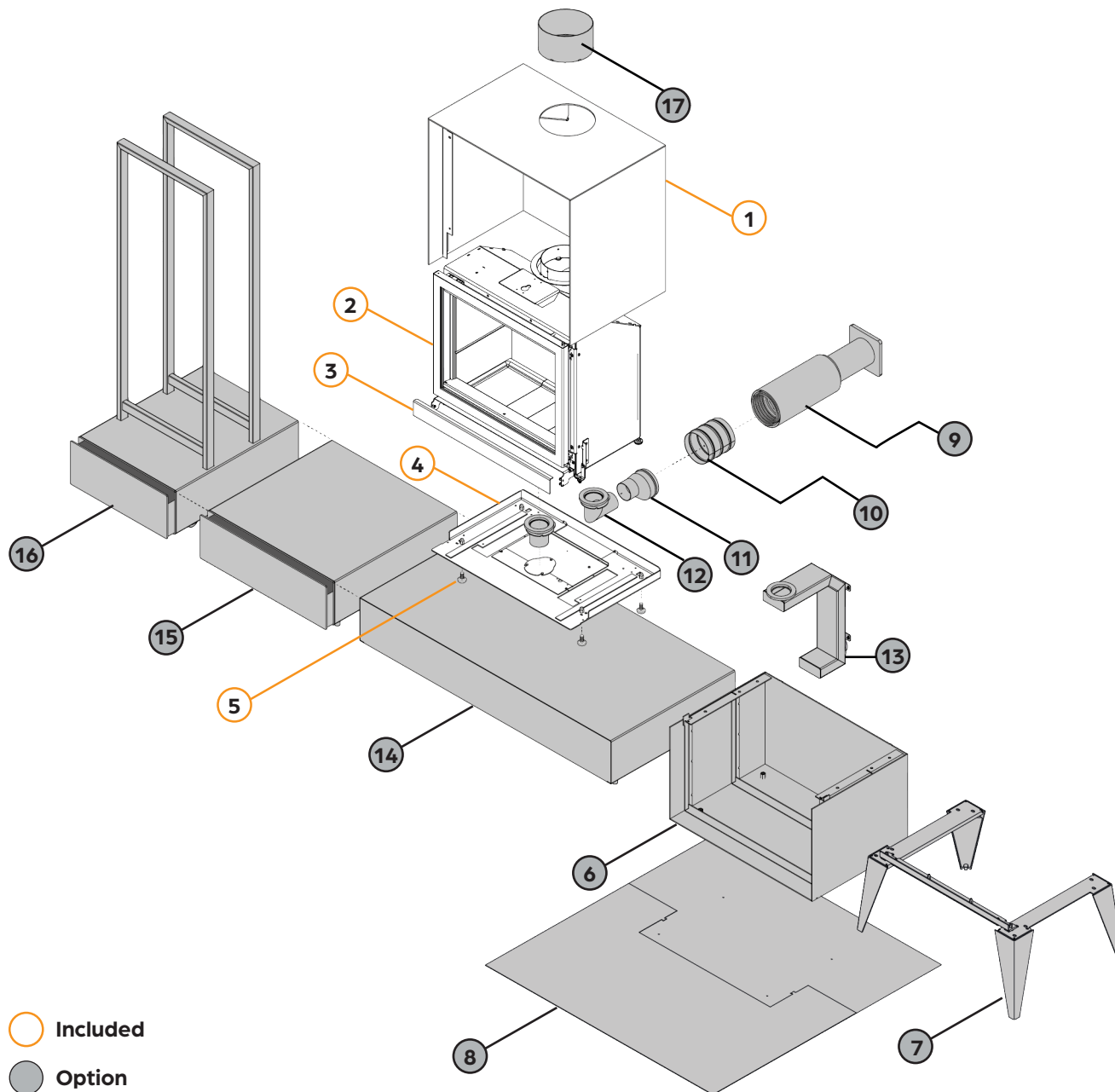
# 2

## COMPONENTS

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| 2.2 | AIR INTAKE ACCESSORIES ..... | 11 |



## 2.1 LIST OF COMPONENTS



### CAUTION

The only products that can support the s16-cube are the H base (6), the V base (7) and the podium (14).

The accessory drawer (15) **must never be used to support the stove.**

The log rack (16) cannot be installed directly on the side of the podium (14) except for the 16-58 cube model, which is centred on it).

In all cases, it is vital to check the required clearance in the relevant chapter.

| MODEL    | 58                       | 68                       | 78                       |
|----------|--------------------------|--------------------------|--------------------------|
| s16-cube | ● 10160705<br>● 10160704 | ● 10160815<br>● 10160814 | ● 10160905<br>● 10160904 |
| s16-H    | ● 10161005<br>● 10161004 | ● 10161115<br>● 10161114 | ● 10161205<br>● 10161204 |
| s16-V    | ● 10161305<br>● 10161304 | ● 10161415<br>● 10161414 | ● 10161515<br>● 10161514 |

## 2.1 LIST OF COMPONENTS



58

| # | DESCRIPTION   | CODE STÛVGREY | CODE BLACK | INCLUDED OR OPTION | Q <sup>TY</sup> |
|---|---------------|---------------|------------|--------------------|-----------------|
| 1 | Cube shell    | 14016009      | N/A        | Included           | 1               |
| 2 | Stove         | N/A           | N/A        | Included           | 1               |
| 3 | Flap          | 14016023      | N/A        | Included           | 1               |
| 4 | Base plate    | 14997211      | N/A        | Included           | 1               |
| 5 | Leveling feet | 14997880      | N/A        | Included           | 4               |
| 6 | H base        | 13161305      | 13161304   | **                 | 1               |
| 7 | V base        | 13161905      | 13161904   | **                 | 1               |
| 8 | Floor plate   | 13090905      | 13090904   | Option             | 1               |

68

| # | DESCRIPTION   | CODE STÛVGREY | CODE BLACK | INCLUDED OR OPTION | Q <sup>TY</sup> |
|---|---------------|---------------|------------|--------------------|-----------------|
| 1 | Cube shell    | 14016010      | N/A        | Included           | 1               |
| 2 | Stove         | N/A           | N/A        | Included           | 1               |
| 3 | Flap          | 14016024      | N/A        | Included           | 1               |
| 4 | Base plate    | 14997235      | N/A        | Included           | 1               |
| 5 | Leveling feet | 14997880      | N/A        | Included           | 4               |
| 6 | H base        | 13161405      | 13161404   | **                 | 1               |
| 7 | V base        | 13162005      | 13162004   | **                 | 1               |
| 8 | Floor plate   | 13091005      | 13091004   | Option             | 1               |

78

| # | DESCRIPTION   | CODE STÛVGREY | CODE BLACK | INCLUDED OR OPTION | Q <sup>TY</sup> |
|---|---------------|---------------|------------|--------------------|-----------------|
| 1 | Cube shell    | 14016011      | N/A        | Included           | 1               |
| 2 | Stove         | N/A           | N/A        | Included           | 1               |
| 3 | Flap          | 14016025      | N/A        | Included           | 1               |
| 4 | Base plate    | 14997259      | N/A        | Included           | 1               |
| 5 | Leveling feet | 14997880      | N/A        | Included           | 4               |
| 6 | H base        | 13161505      | 13161504   | **                 | 1               |
| 7 | V base        | 13162105      | 13162104   | **                 | 1               |
| 8 | Floor plate   | 13091105      | 13091104   | Option             | 1               |

**\*\*When ordering a s16-H, the H base is included.**

**\*\*When ordering a s16-V, the V base is included.**

**\*The accessory drawer cannot be used to support the stove.**

## ACCESSORIES

| #  | DESCRIPTION                                         | PRODUCT CODE             | INCLUDED OR OPTION | Q <sup>TY</sup> |
|----|-----------------------------------------------------|--------------------------|--------------------|-----------------|
| 9  | Outside air kit                                     | 12002138                 | Option             | 1               |
| 10 | 4" air damper                                       | 12001027                 | Option             | 1               |
| 11 | s16-cube outside air intake connector               | ● 12002125<br>● 12002124 | Option             | 1               |
| 12 | s16-cube outside air intake connector with 90° bend | ● 12002135<br>● 12002134 | Option             |                 |
| 13 | s16-H outside air intake connector                  | ● 12002115<br>● 12002114 | Option             |                 |
| 14 | Podium                                              | ● 11981002<br>○ 11981003 | Option             | 1               |
| 15 | Accessory drawer*                                   | ● 11980302<br>○ 11980303 | Option             | 1               |
| 16 | Log rack with drawer                                | ● 11980102<br>○ 11980103 | Option             | 1               |
| 17 | Ø 7" chimney adaptor                                | ● 12005035<br>● 12005034 | Option             | 1               |

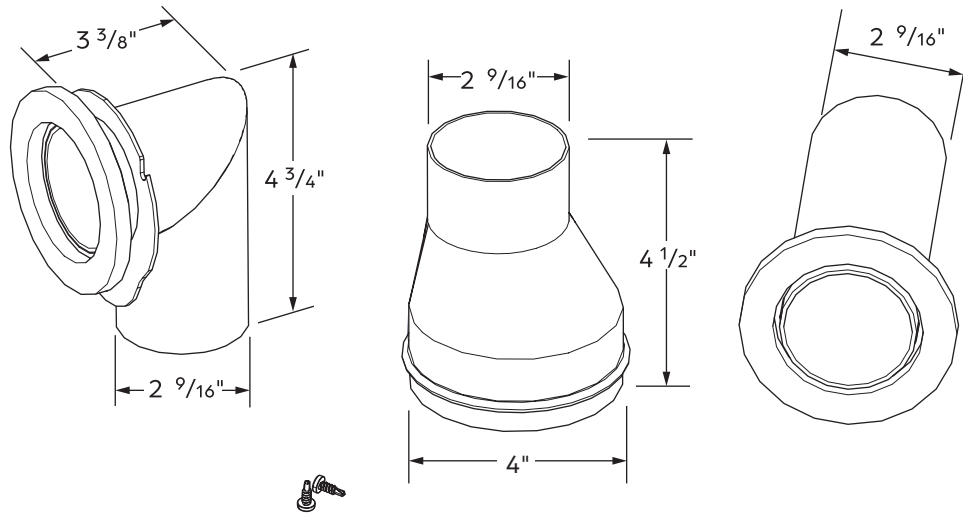
## 2.2 AIR INTAKE ACCESSORIES



### CONNECTORS (s16-CUBE)

For outside air intake

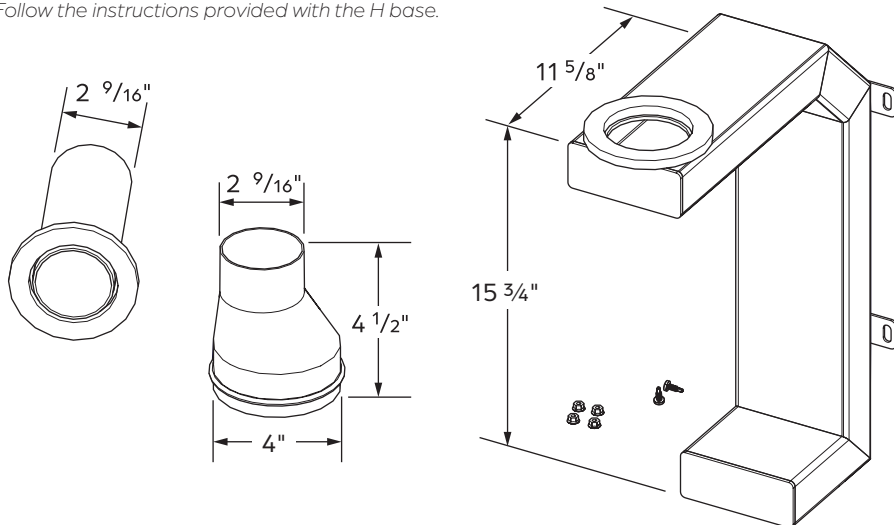
Installation p.24



### CONNECTORS (s16-H)

For outside air intake

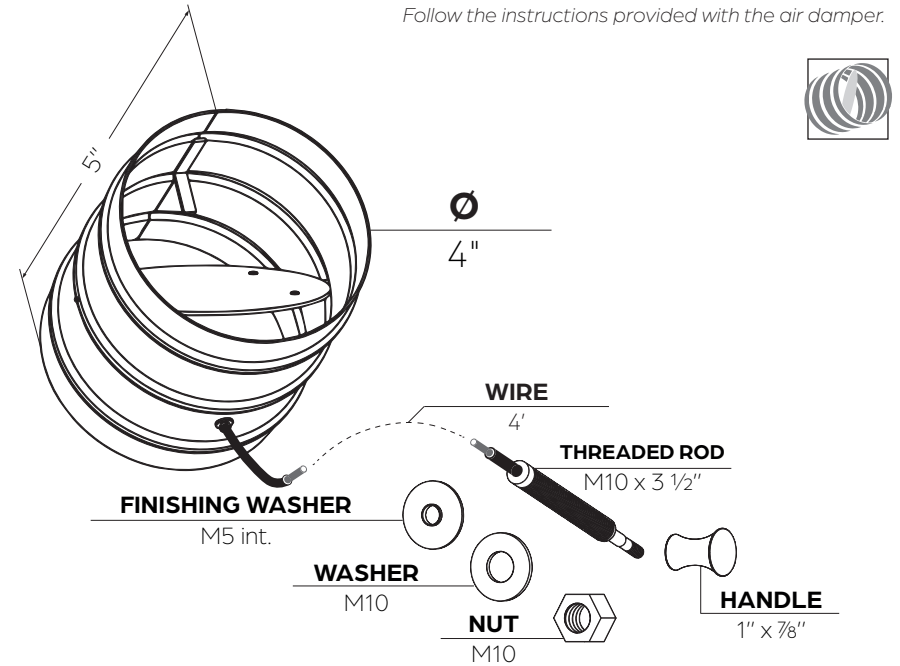
Follow the instructions provided with the H base.



### AIR DAMPER

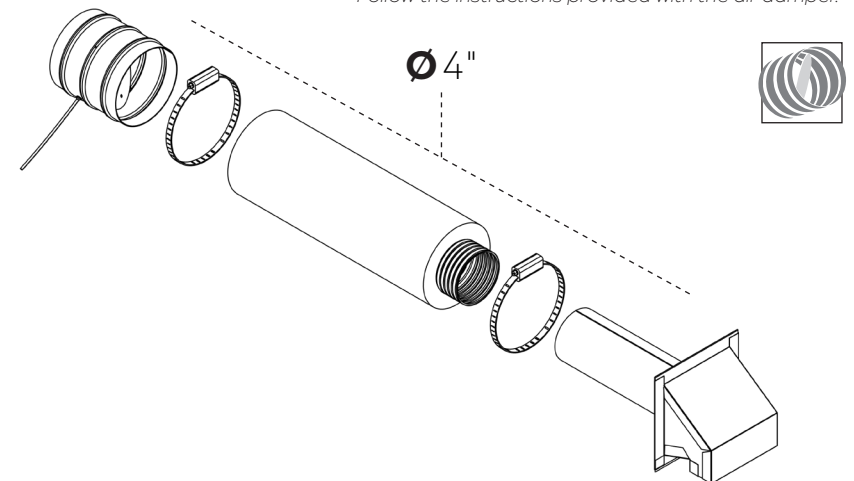
For outside air intake

Follow the instructions provided with the air damper.



### OUTSIDE AIR KIT

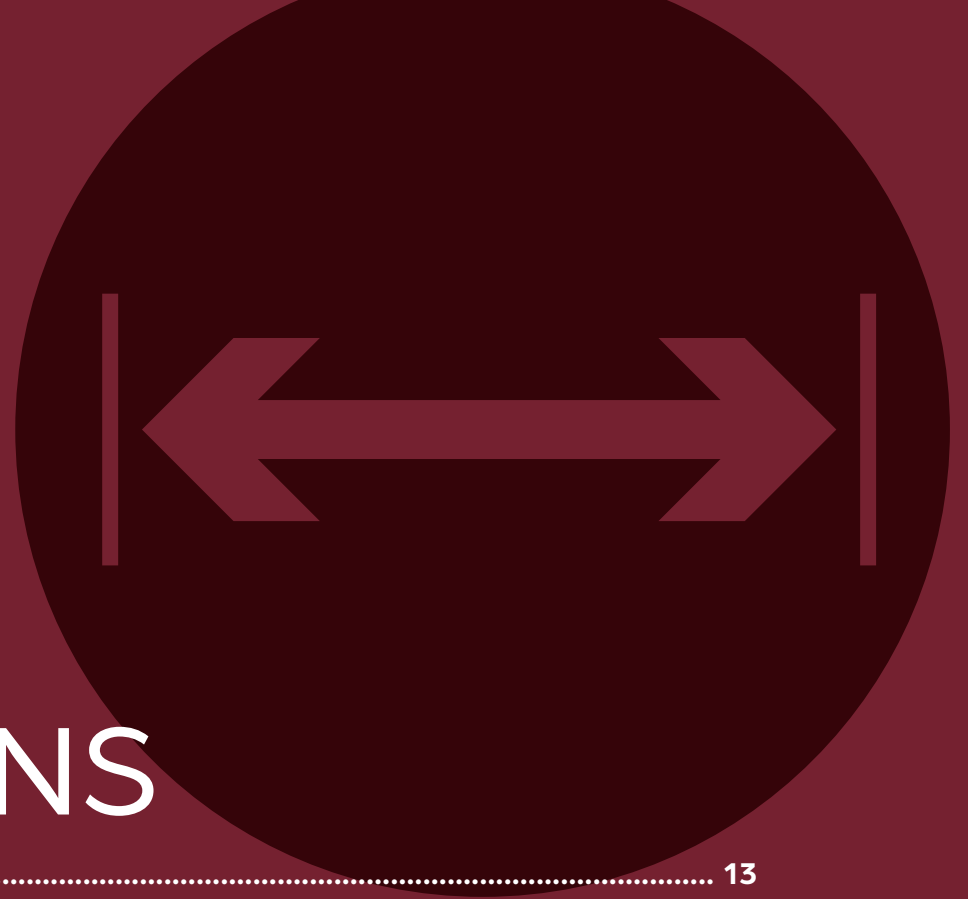
Follow the instructions provided with the air damper.



# 3

## DIMENSIONS

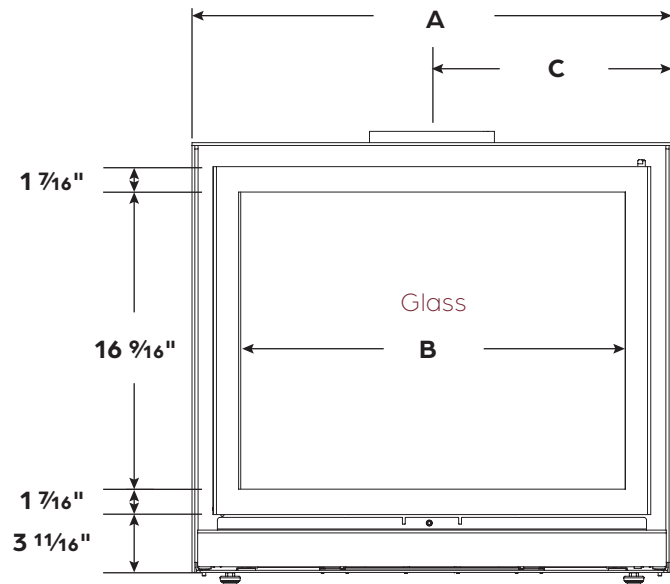
|     |                           |    |
|-----|---------------------------|----|
| 3.1 | s16-CUBE DIMENSIONS ..... | 13 |
| 3.2 | s16-H DIMENSIONS .....    | 14 |
| 3.3 | s16-V DIMENSIONS .....    | 15 |
| 3.4 | CLEARANCE .....           | 16 |
| 3.5 | RISK AREA .....           | 18 |
| 3.6 | AIR SUPPLY .....          | 19 |



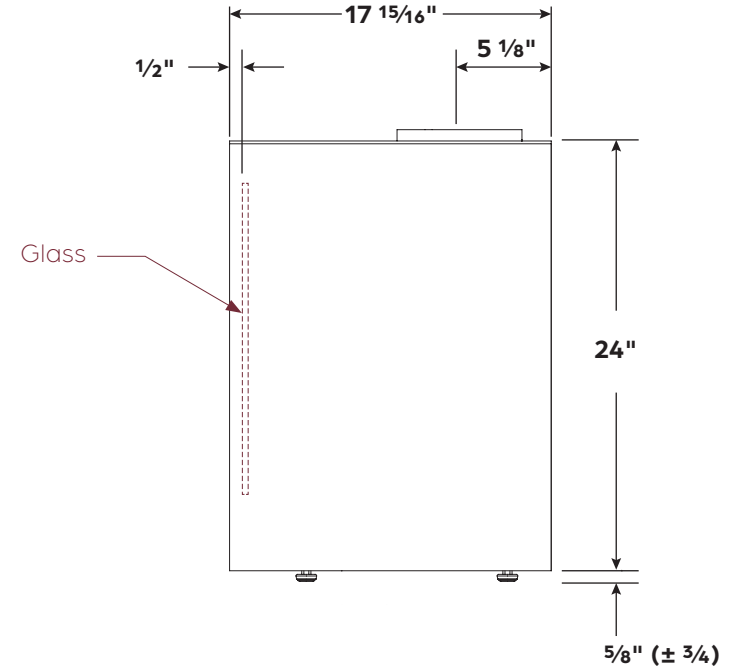
### 3.1 s16-CUBE DIMENSIONS



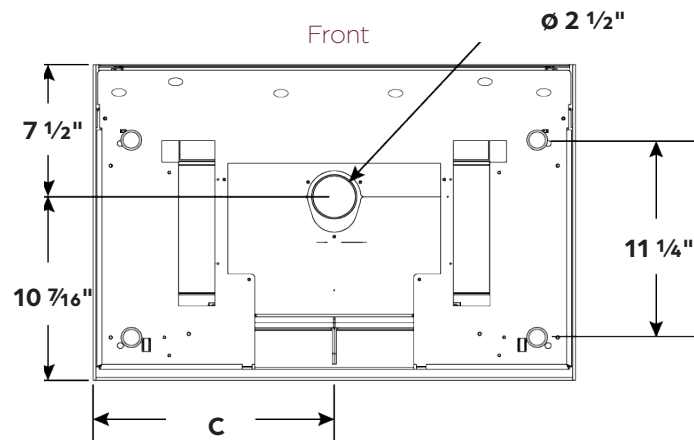
FRONT VIEW



SIDE VIEW



BOTTOM VIEW

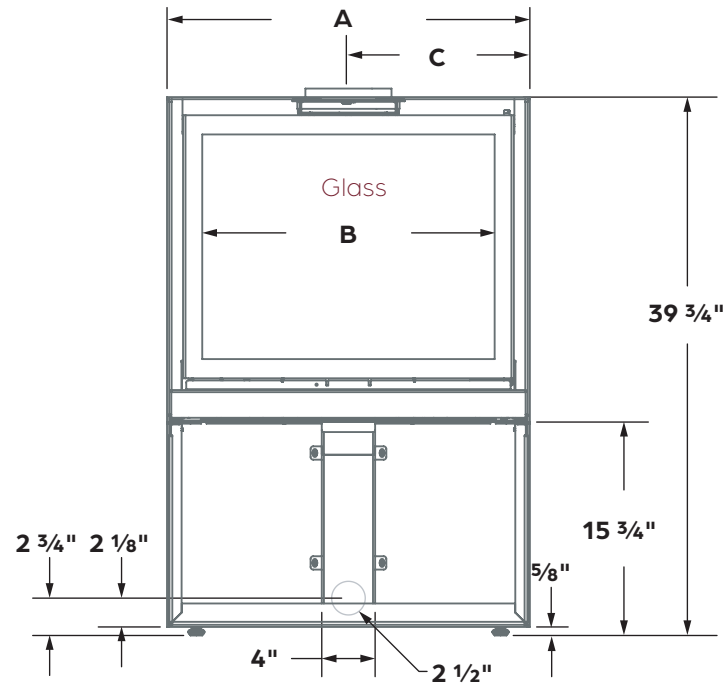


| s16-cube | A       | B       | C        |
|----------|---------|---------|----------|
| 58       | 22 7/8" | 17 5/8" | 11 7/16" |
| 68       | 26 3/4" | 21 5/8" | 13 3/8"  |
| 78       | 30 3/4" | 25 1/2" | 15 3/8"  |

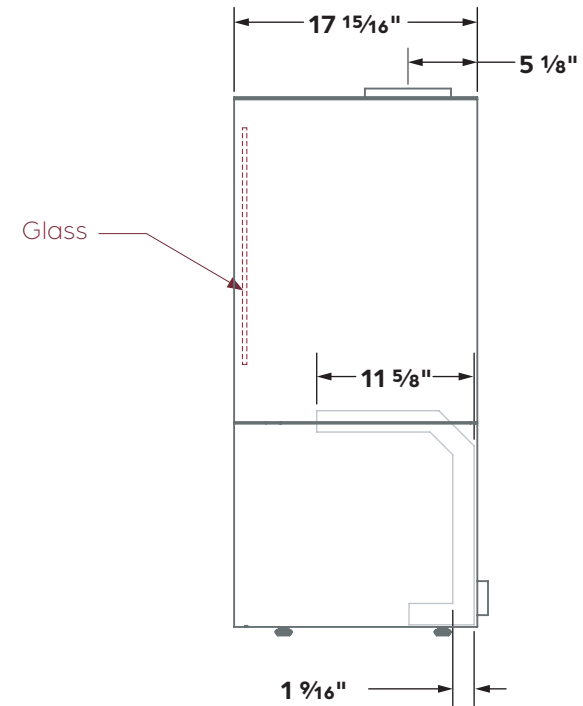
## 3.2 s16-H DIMENSIONS



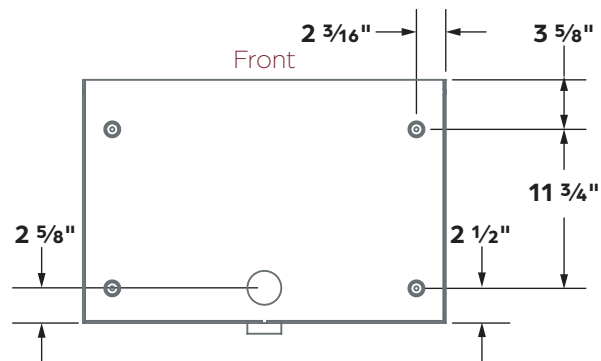
FRONT VIEW



SIDE VIEW



BOTTOM VIEW

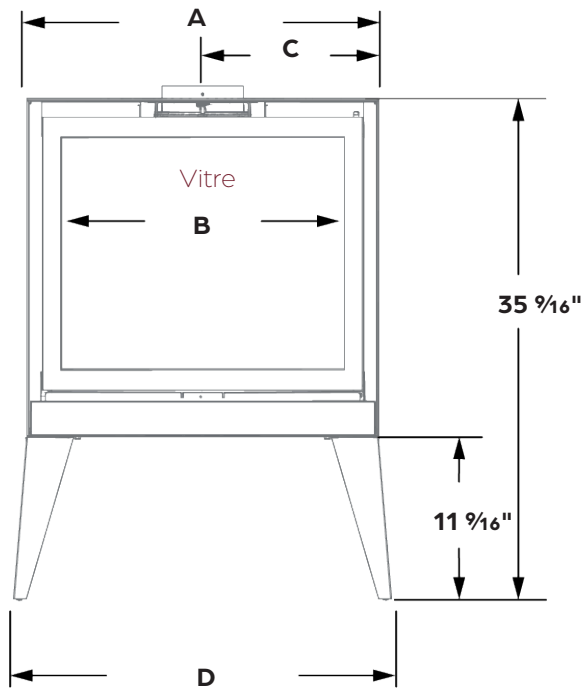


| s16-H | A       | B       | C        |
|-------|---------|---------|----------|
| 58    | 22 7/8" | 17 5/8" | 11 7/16" |
| 68    | 26 3/4" | 21 5/8" | 13 3/8"  |
| 78    | 30 3/4" | 25 1/2" | 15 3/8"  |

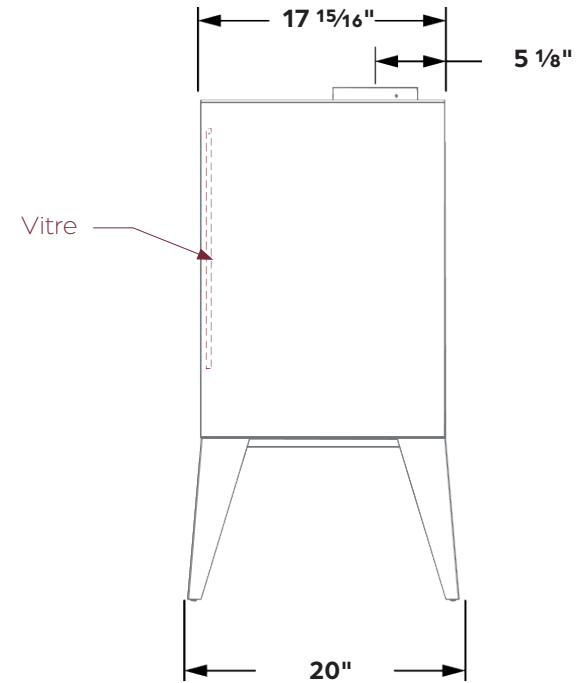
### 3.3 s16-V DIMENSIONS



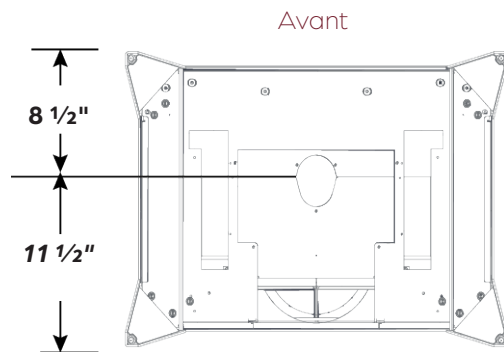
FRONT VIEW



SIDE VIEW



BOTTOM VIEW



| s16-V | A       | B       | C        | D         |
|-------|---------|---------|----------|-----------|
| 58    | 22 7/8" | 17 5/8" | 11 7/16" | 24 13/16" |
| 68    | 26 3/4" | 21 5/8" | 13 3/8"  | 28 13/16" |
| 78    | 30 3/4" | 25 1/2" | 15 3/8"  | 32 13/16" |

### 3.4 CLEARANCE



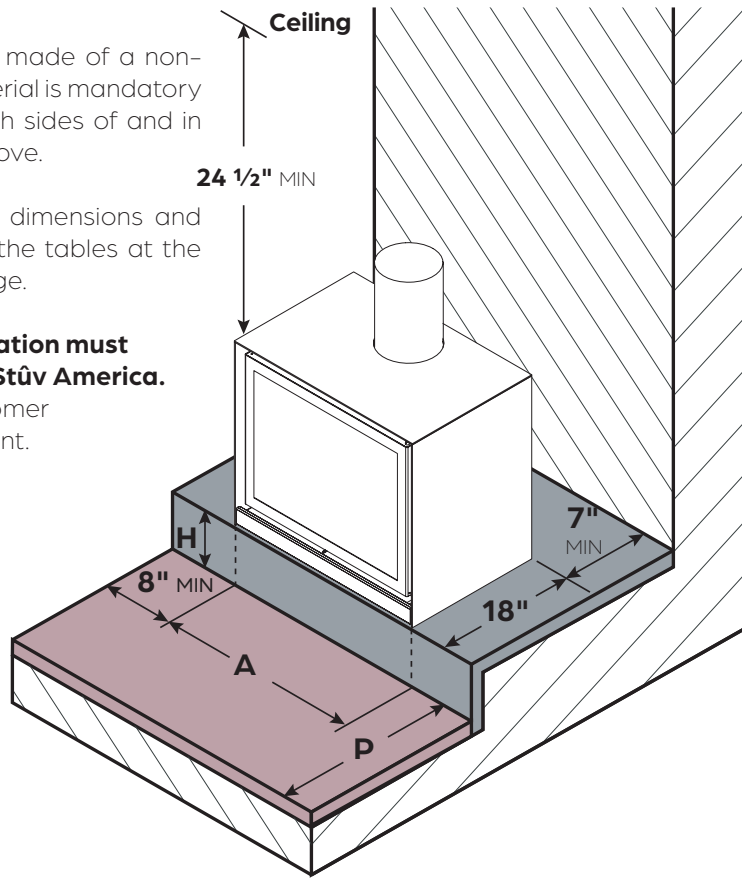
#### s16-CUBE

**Floor protection** made of a non-combustible material is mandatory in front of, on both sides of and in the back of the stove.

For the minimum dimensions and **R value**, refer to the tables at the bottom of the page.

**Any other installation must be approved by Stûv America.**

Contact our customer service department.

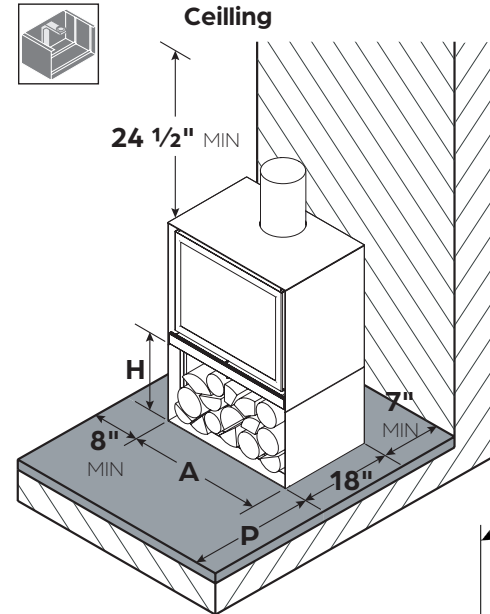


| MODEL | A       | P MIN                   |
|-------|---------|-------------------------|
| 58    | 22 7/8" | Canada: 18"<br>USA: 16" |
| 68    | 26 3/4" |                         |
| 78    | 30 3/4" |                         |

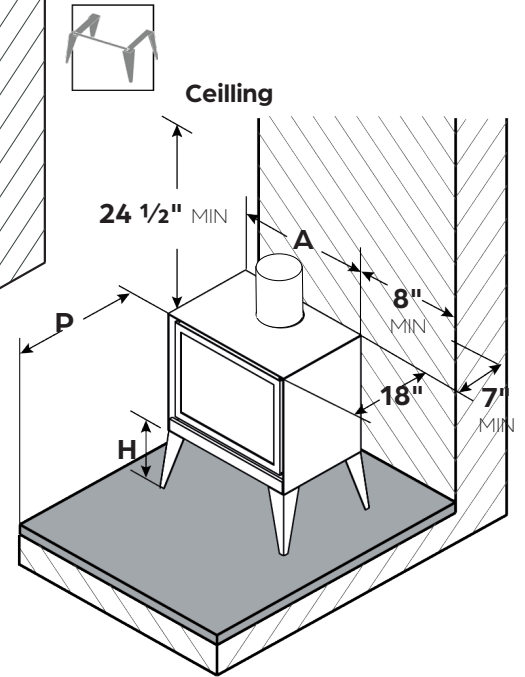
\*For any questions about the R value, contact customer service.

| H                 | R VALUE |
|-------------------|---------|
| 11 1/2" +         | 0       |
| 8 1/2" to 11 1/2" | 0.28    |
| 6 1/2" to 8 1/2"  | 1.29    |
| 4 1/2" to 6 1/2"  | 2.56    |
| 0" to 4 1/2"      | n/a     |

#### s16-H & s16-V



- non-combustible mandatory
- R value zone See table
- combustible



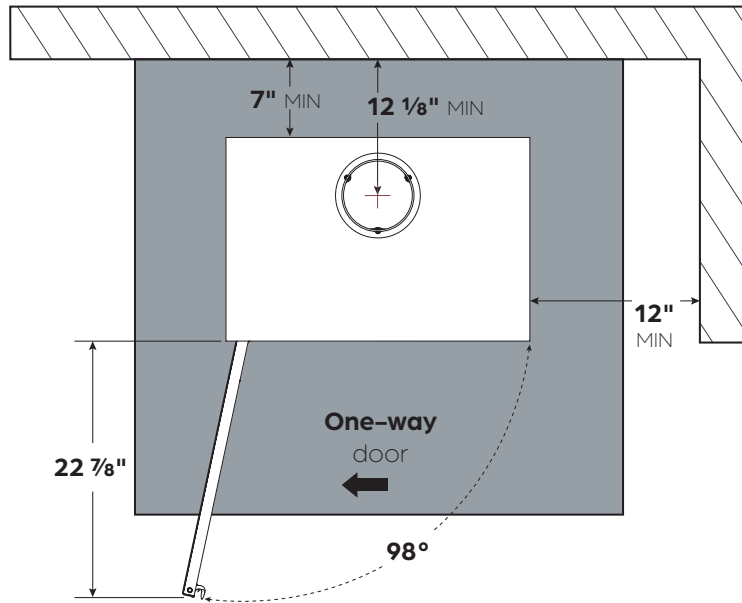
#### ! CAUTION

To increase the safety of your installation, we recommend limiting log storage to the inner area of the H base. It is prohibited to store any highly flammable materials in the base, such as paper or fire starters.

### 3.4 CLEARANCE

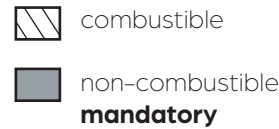
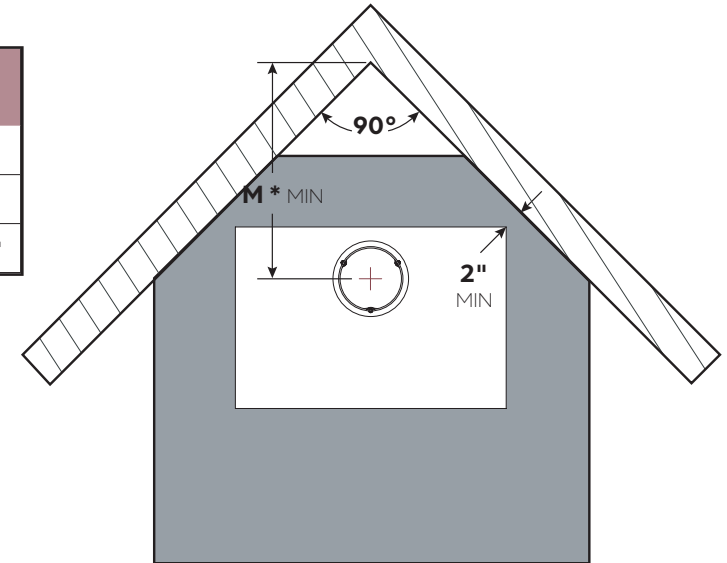


TOP VIEW



TOP VIEW - CORNER

| MODEL | M*       |
|-------|----------|
| 58    | 19 3/8"  |
| 68    | 21 3/8"  |
| 78    | 23 5/16" |



\* This is an example of an installation in a 90° wall corner. Dimensions may vary depending on the angle of the wall. In all cases, the minimum clearances indicated on this page must be respected.



#### STRUCTURE'S LOAD-BEARING CAPACITY

It is vital to ensure that the structure and the floor supporting the stove are strong enough to hold the weight of the appliance and the weight of the chimney. See the technical specifications (page 6) for the weight of the appliances.

If in doubt, **consult a specialist.**

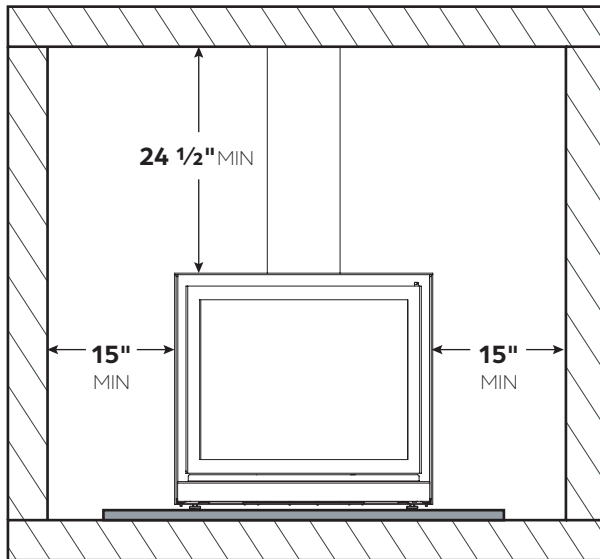


#### NOTE

To reduce clearances and assure safe installation, follow the procedures described in **CSA B365 (Canada)** or **N.F.P.A. 211 (USA)** regulations. Consult with a local building inspector before attempting any clearance reductions.

### 3.4 CLEARANCE

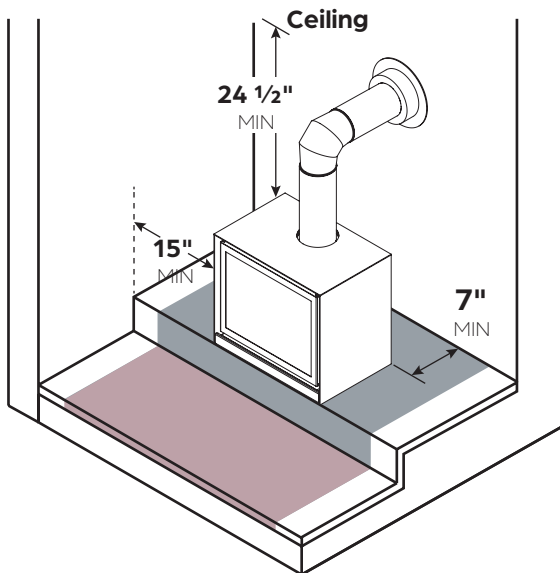
#### ALCOVE



When the stove is installed in an alcove, the minimum side clearances are increased to allow ventilation.

As indicated on the previous page, a minimum clearance of 7" is mandatory behind the stove.

#### CHIMNEY THRU THE WALL



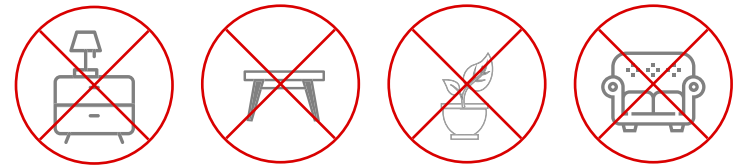
When the stove chimney is installed thru the wall, the minimum side clearances are increased to allow ventilation.

As indicated on the previous page, a minimum clearance of 7" is mandatory behind the stove.

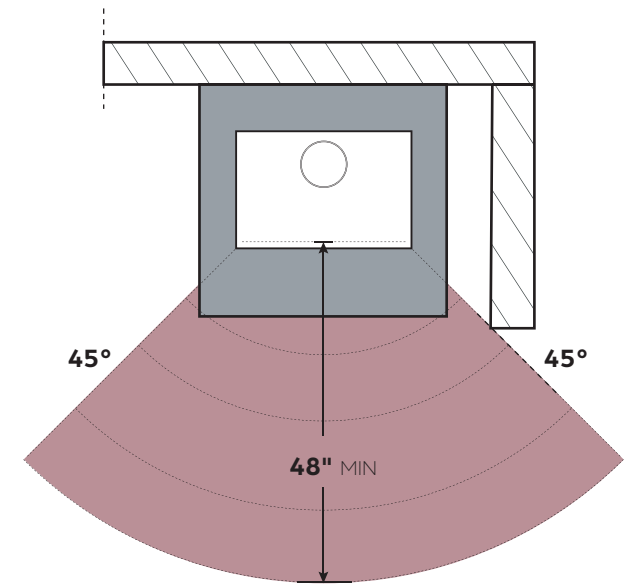
### 3.5 RISK AREA



The heat radiating from the glass will be significant. Any combustible object must be placed a minimum of 48" by 90° away from the glass face to avoid any fire risk.



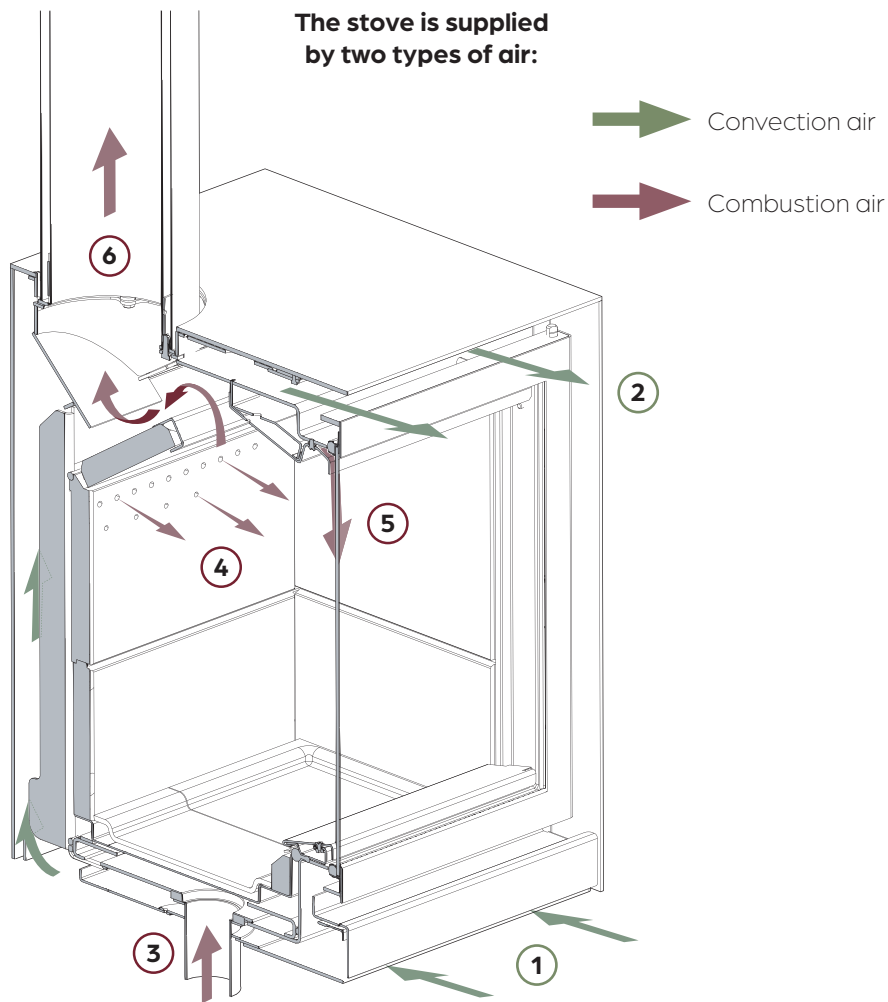
-  risk area
-  combustible
-  non-combustible mandatory



#### CAUTION – FIRE HAZARD

To avoid major damage, no combustible material should be placed near the stove's door or near the hot air outlet. Blocking the latter may cause the unit to overheat and, in some cases, cause a fire.

**Avoid heat traps.** Materials exposed to the radiant heat must be able to withstand high temperatures.



## CONVECTION AIR

The convection air system is incorporated in the stove. No connection is needed for its operation.

- 1 The ambient air gathered from the room moves along the combustion chamber, absorbing heat
- 2 Once heated, this air exits naturally through the appliance's upper frame, spreading a comforting warmth throughout the room.

## COMBUSTION AIR

- 3 The air required for combustion arrives directly from under the appliance via an outside air intake connector specially designed for the s16-cube and s16-H models (see next page for details).
- 4 The air injected into the top of the combustion chamber allows the gases to be burned a second time, preventing fine particles from being released into the air.
- 5 The air flow along the glass helps keep it free of combustion dust, for an impeccable view of the fire.
- 6 Once the gases have been burned, they are evacuated through the chimney pipe (see CHIMNEY section for details).

The air combustion inlet can be configured in **three ways**. See next page for details.



## CAUTION

The air intake must never be adjusted. This wood heater has a manufacturer-set minimum low burn rate that must not be altered. It is against federal regulations to alter this setting or otherwise operate this wood heater in a manner inconsistent with operating instructions in this manual.



## NOTE

Active air extraction systems (range hood, air conditioning, controlled mechanical ventilation, another stove, etc.) in the same space or in an adjacent room also consume a large amount of air, which could create negative pressure in the room and hamper the stove's operation (risk of backdraft). They can disrupt the stove's operation even if connected to an outside air intake.



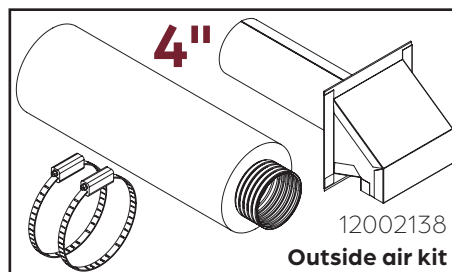
## COMBUSTION AIR (OPTIONS)

### Option 1: Connected to the outside air with a kit

Although **recommended**, this setup is mandatory in some places.

Whether it is connected to the stove or not, the duct leading to the outside air must:

- be protected outdoors by a grille whose clear passage section is at least 4" in diameter. Beware of water infiltration, snow accumulation and wind impacts, which can damage the system or hinder its operation
- not be crushed
- ideally be equipped with an air damper (optional)
- be at least 8' long, ideally insulated, and form a loop in the wall to prevent condensation **(in places with winter temperatures)**.



If our standard  $\varnothing 4'$  flexible duct is used, we recommend a maximum length of 12' with no more than 4 bends (see table to the right). If these recommendations are exceeded, it will be necessary to compensate with a larger diameter and/or a smoother duct.

| Duct length | Max. number of 90° bends authorized |
|-------------|-------------------------------------|
| 0 to 8'     | 4 bends                             |
| 8' to 10'   | 2 bends                             |
| 12' and +   | 1 bend                              |

### Option 2: Connected to the inside air, in another location near the stove.

This air inlet must have a sufficient air intake (minimum  $\varnothing 4'$ ), from a crawl space, ventilated room (basement) or another room in which the air exchange will always be sufficient.

The criteria for the length of the duct and the bends are the same as for the option 1.

### Option 3: Without a connector, air taken from the same room as the stove

This option is not recommended for an airtight house.

If it is not possible to connect the stove to the outside air, it is important to ensure that the air exchange in the room will always be sufficient when the stove is in operation.

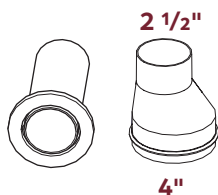
## AIR DAMPER (OPTIONAL)

The air damper keeps the house from cooling down when the stove is not in use. It has a 100% open and a 100% closed position, which cannot affect combustion. It is recommended when installing in a highly energy-efficient house.

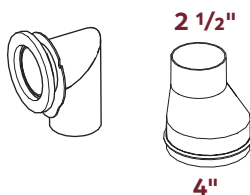
It should ideally be placed as close to the outer wall as possible. Validate that the air damper dimensions meet the installation's needs. The damper's control cable is 48" long and the damper is  $\varnothing 4'$  in diameter.

## CONNECTORS

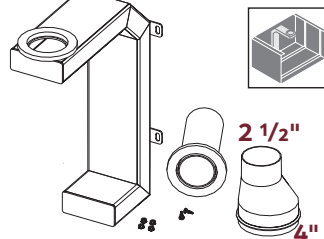
**Air intake connector  
s16-cube version  
12002125**



**Air intake connector  
with a 90° bend  
s16-cube version  
12002135**

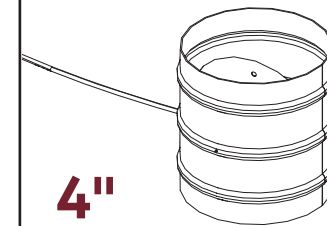


**Air intake connector  
s16-H version  
12002115**



For more information, see the **Air Damper Installation Manual** (93109290).

**Air damper  
12001027**



# 4

## INSTALLATION

|     |                                 |    |
|-----|---------------------------------|----|
| 4.1 | UNPACKING .....                 | 22 |
| 4.2 | OPENING THE DOOR .....          | 23 |
| 4.3 | SEPARATING THE CUBE SHELL ..... | 24 |
| 4.4 | BASE PLATE AND CONNECTION ..... | 25 |
| 4.5 | FASTENING THE CUBE SHELL .....  | 27 |
| 4.6 | ADJUSTING THE DOOR .....        | 28 |



## 4.1 UNPACKING



### ! IMPORTANT

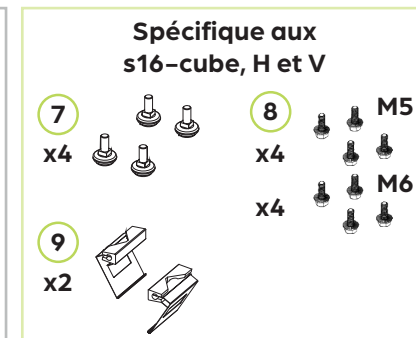
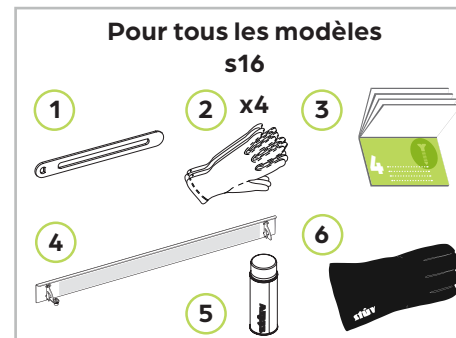
The paint is not cured. It is therefore fairly **fragile**, but will harden after being heated several times. Handle the unit with care.

#### Inspect the unit.

The warranty does not cover shipping-related damage unless it is reported within 48 hours of delivery.

### 1 CONTENTS OF THE COMPLEMENTARY BOX

1. Door handle
2. **4x** white gloves
3. Installation manual
4. Flap with marking label
5. Spray paint for touch-ups
6. Stûv glove
7. **4x** Cube leveling feet
8. **8x** Fastening bolts
9. **2x** Cube carrying handle



**Step 1** The complementary box and any accessories can be found around the stove or its packaging. Validate the receipt of the accessories and the contents of the box.

**8** The type of screw varies depending on the fastening direction of the combustion chamber to the base plate. Four screws will remain at the end of the installation.

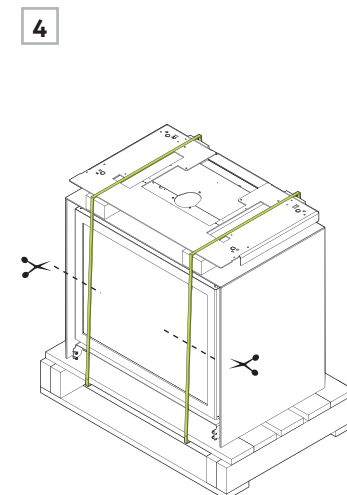
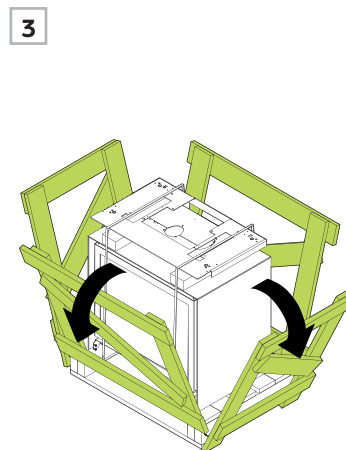
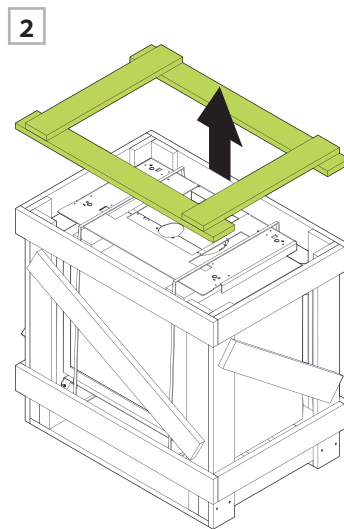
**Step 2** Using a crowbar, remove the top of the shipping pallet.

**Step 3** Remove each side of the pallet, only the base is left.

**Step 4** Cut the straps and carefully remove the protective plastic. If using a retractable knife, take care not to damage the paint.

### ! CHECK

Check if all the material is included and in good condition.



## 4.2 OPENING THE DOOR



**Step 5** Take out the base plate and set it aside for later. Remove the styrofoam and the rest of the packaging.

**Step 6** Place the door handle around the lock cylinder above the door.

**Step 7** Turn the door handle counter-clockwise to open the door.



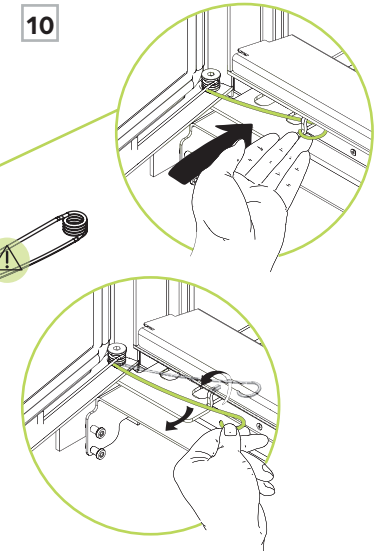
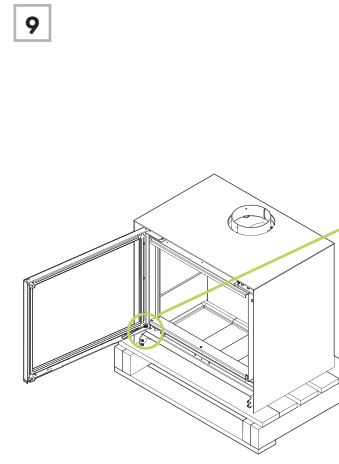
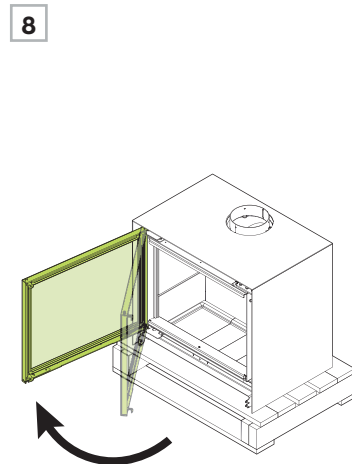
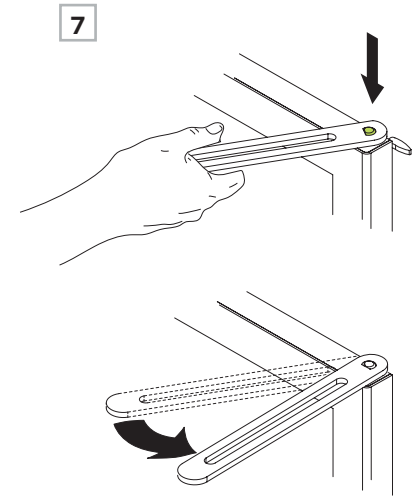
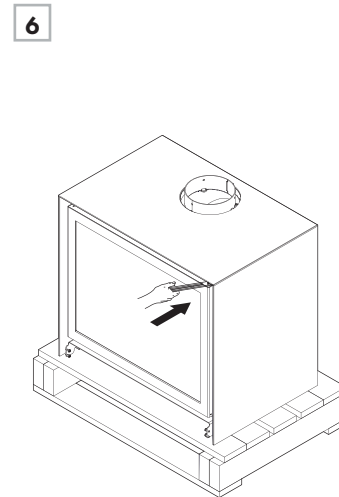
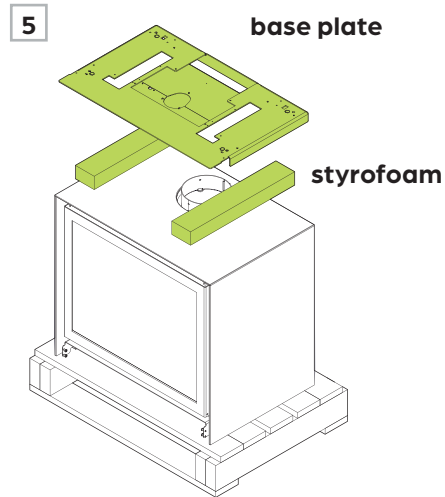
### CAUTION

The paint is fragile. Spray paint is included if needed. Watch the video on our YouTube channel to learn how to touch up the paint on the cube shell.

**Step 8** Open the door 90°.

**Step 9** Locate the spring at the bottom of the door, near the rotation axis.

**Step 10** Disengage the spring by pushing it down and pulling it forward.



## 4.3 SEPARATING THE CUBE SHELL

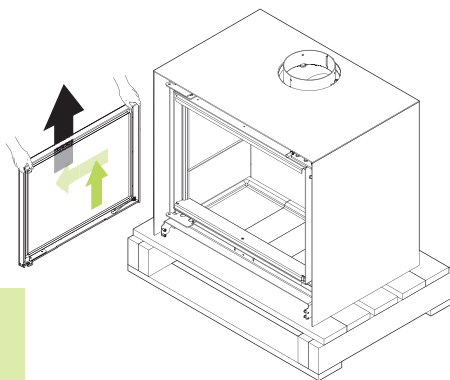


**Step 11** Slowly and gently lift the door to take it off its hinges.

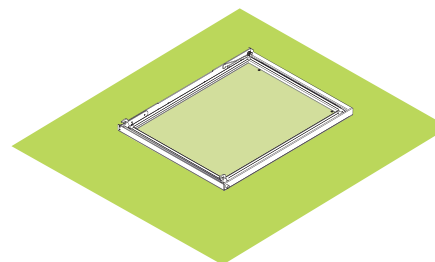
**Step 12** Set the door down somewhere where it will not get damaged. Take care not to damage the paint.

**Step 13** The next two steps will release the cube shell's fasteners to the stove at the locations indicated.

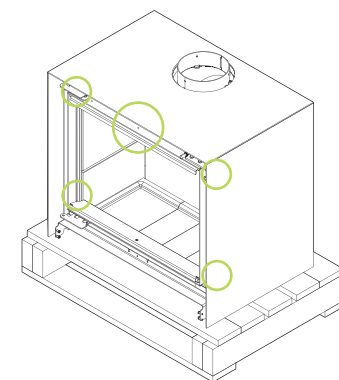
11



12



13



### FOR s16-CUBE ONLY

Removing the shell is only required for the s16-cube model. For the s16-H and s16-V models, the shell can remain on the combustion chamber. Follow additional manual.

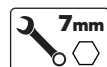
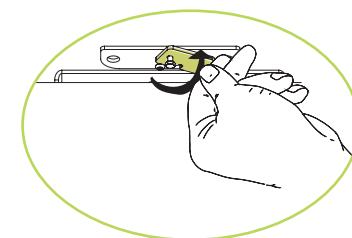
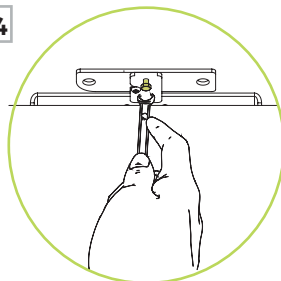
For **serial number A-005253** and under, these steps are mandatory for all models.

**Step 14** Slightly loosen the bolt on the top end of the cube shell and turn the shell's fastener to release the screw.

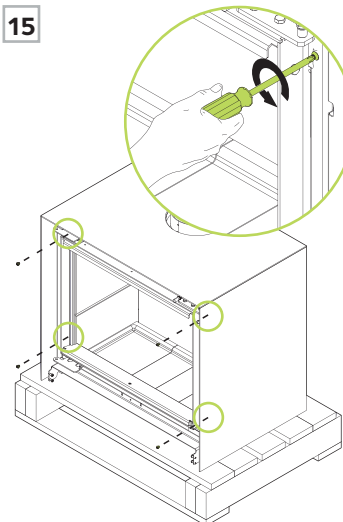
**Step 15** Unscrew the 4 screws to detach the shell from the body of the unit. Keep the screws for later reassembly.

**Step 16** Use the cube shell handles provided with the s16 to lift the shell (two people).

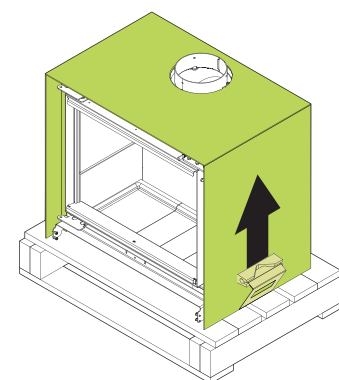
14



15



16



## 4.4 BASE PLATE AND CONNECTION



### s16-H ou s16-V

To position the base and the base plate, refer to the H and V Base Installation Manual.



### For the s16-cube only

**Step 17** Screw in the leveling feet. They will make it possible to make the base plate level.

**Step 18** Prepare the base plate according to the chosen configuration

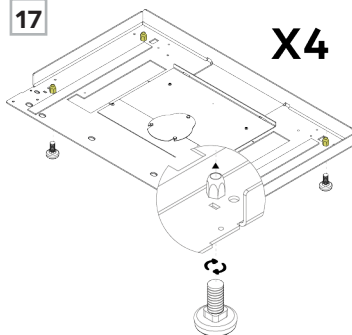
- If the stove is installed without a connector, the base plate must stay as is.
- For H and V base, follow their manual.
- If using a s16-cube connector, only remove the cutout in the middle of the trap and connect with a clamping collar.

**Step 19** Decide the stove's exact location and align the base plate with the air intake and chimney pipe. A small hole cut into the back trap indicates the middle of the smoke outlet.

The front edge of the base plate will be set back  $\frac{5}{16}$ " from the front of the door and the flap.

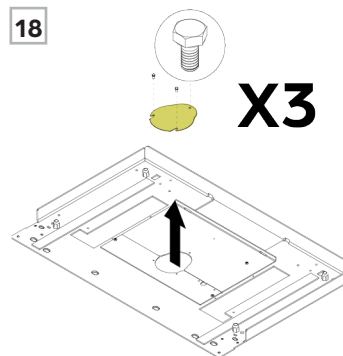
**Level the leveling feet.**

17

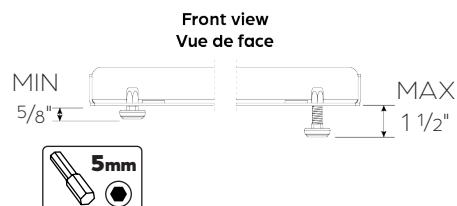


X4

18



X3



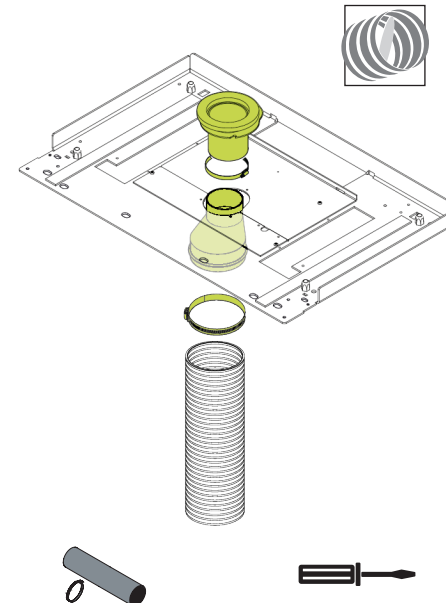
Front view  
Vue de face

MIN  
5/8"

MAX  
1 1/2"



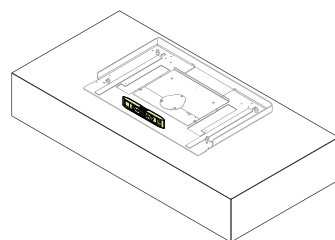
7mm



19

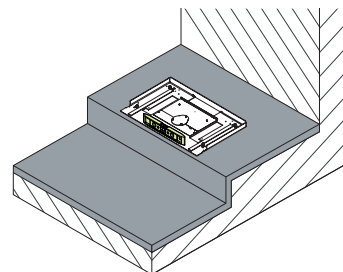
### On the podium or the floor plate

Refer to the podium set installation manuals

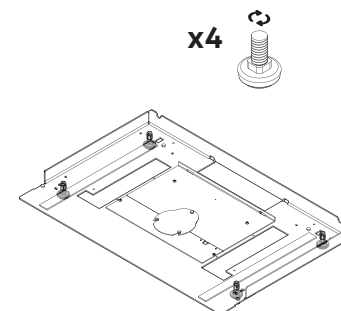


### On non-combustible flooring

Validate the clearance and mandatory non-combustible materials.



x4



## 4.4 BASE PLATE AND CONNECTION



### TRANSPORTABLE BUILDING

It is **mandatory to permanently secure the appliance** to its final location through the base plate or the base if this stove is installed in a transportable building. See the instructions for the H and V base to fix them.

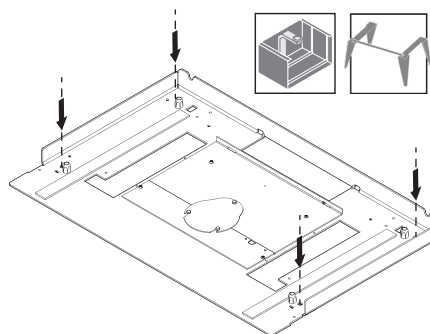


### NOTE

Do not use the flap support to move the unit.



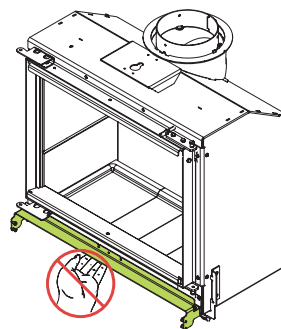
### TRANSPORTABLE BUILDING



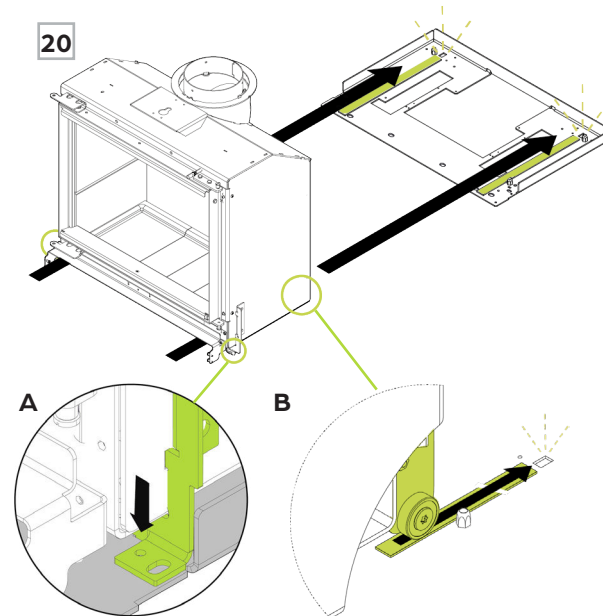
NOT INCLUDED



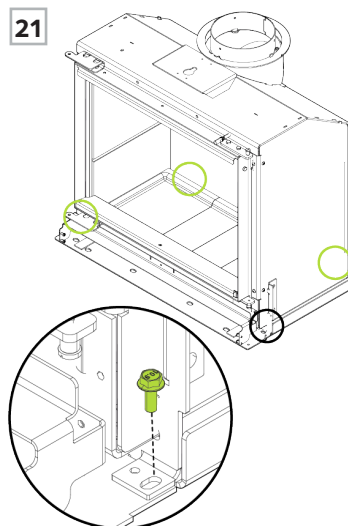
### NOTE



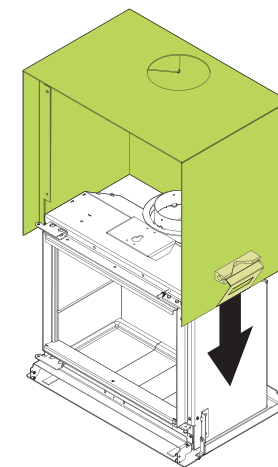
20



21



22



**Step 20** Slide the unit onto the base plate previously installed at its permanent location.

- The two tabs, one on each side, will stabilize the unit in the right place.
- The stove is equipped with two wheels in the back and a track to guide its placement.

Validate these positionings before continuing.

The next steps are valid for **serial number A-005253** and higher.

**Step 21** Secure the combustion chamber to the base plate with the four M5x12 hex bolts supplied in the parts and accessories box **on all sides** (front, rear, left and right).

For the s16-cube, the hex bolts can be screwed by the top.

**Step 22** Put the cube shell back on by sliding it down.

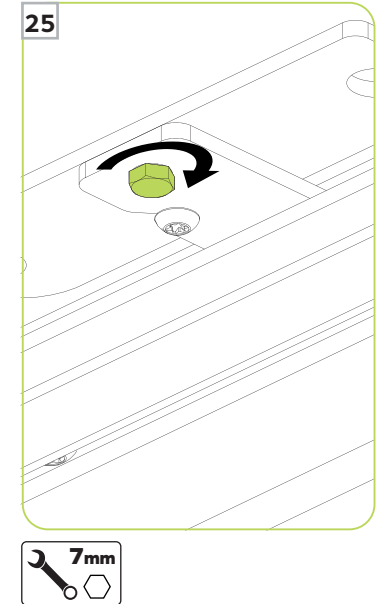
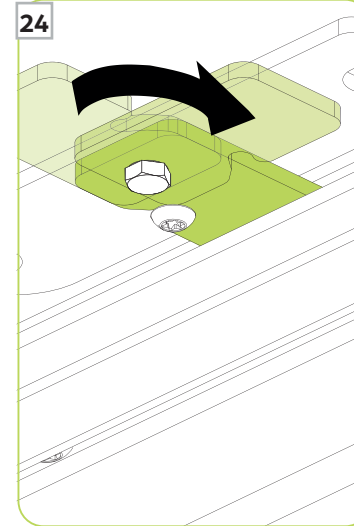
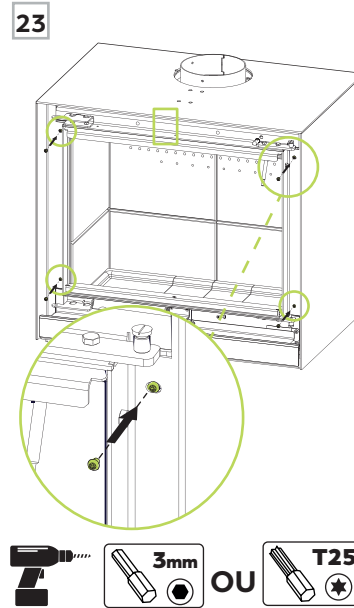
## 4.5 FASTENING THE CUBE SHELL



**Step 23** Reconnect the cube shell and the stove using the previously removed screws.

**Step 24** To strengthen the upper part of the shell and the stove, loosen the hex head screw and rotate the lock until it surrounds the button-head screw.

**Step 25** Tighten the hex head screw.

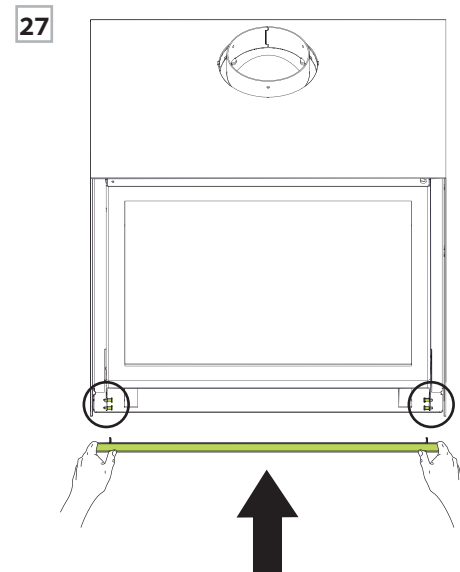
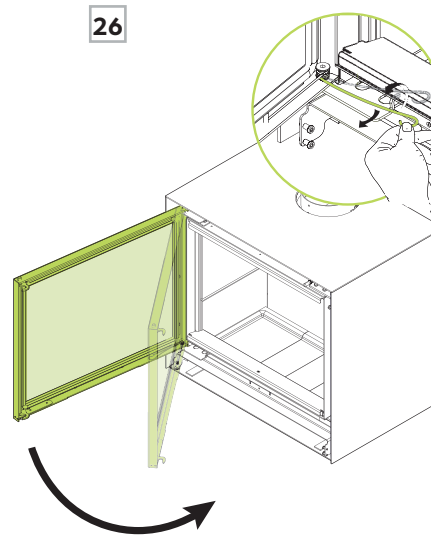


**Step 26** Put the door back on its hinges and make sure it is level and closes well.

If so, re-engage the spring, then close and lock the door.

If not, follow the steps on the next page to adjust the door.

**Step 27** Tilt the flap toward you slightly to be able to see clearly. Position the flap on the stove's screws. Push down, without forcing, to secure the flap.



## 4.6 ADJUSTING THE DOOR

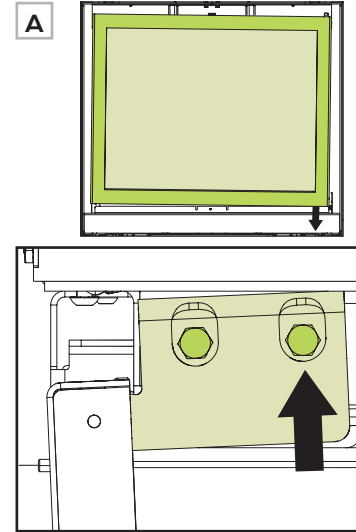
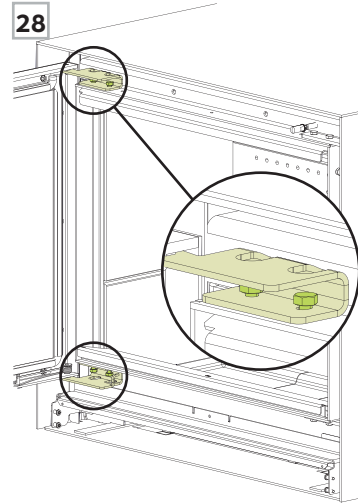


**Step 28** To make the door level, **slightly** loosen the 4 bolts holding the door hinges, at the top and bottom.

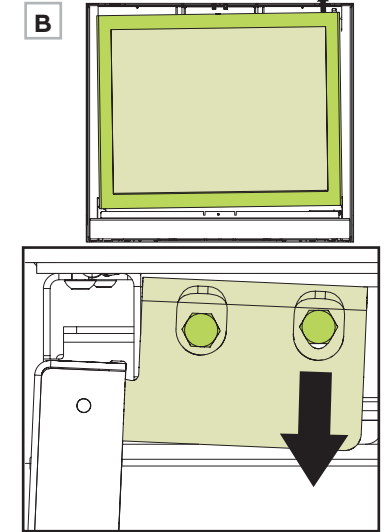
**A** If the side opposite the rotation axis is too low, push the top hinge inward. If necessary, the bottom hinge can be pushed outward.

**B** If the side opposite the rotation axis is too high, push the top hinge outward. If necessary, the bottom hinge can be pushed inward.

**Gradually** adjust the door according to the instructions above. It may take several tries to get it perfectly level.



Adjustment at the top

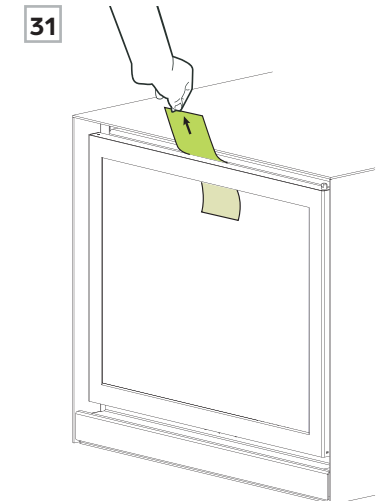
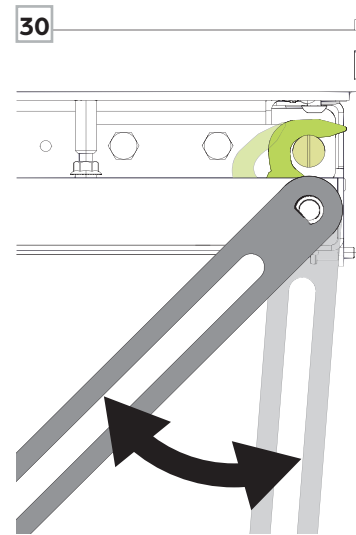
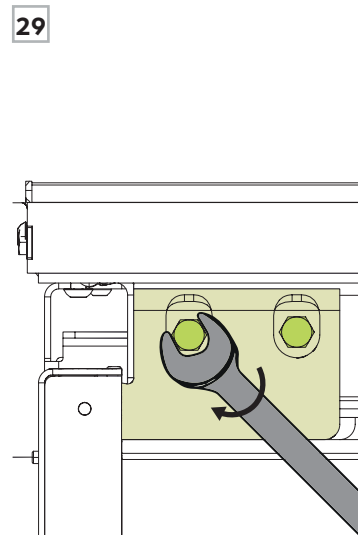


Adjustment at the top

**Step 29** When the door is level, tighten the 4 bolts.

**Step 30** The door must be loose enough to be easy to close, but tight enough to be airtight. Open and close it a few times to check that the door filler plate reinforcement is adjusted properly.

**Step 31** Also check the door's airtightness, by placing a sheet of paper in the door and closing it. Try to pull the paper out all along the door frame. If the door is airtight, you will not be able to remove the paper. If the paper moves or the door's grip is not perfect, make the adjustments indicated on the next page.



## 4.6 ADJUSTING THE DOOR

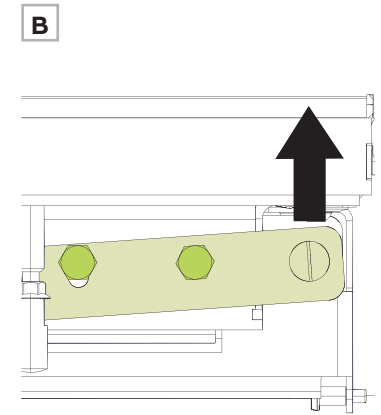
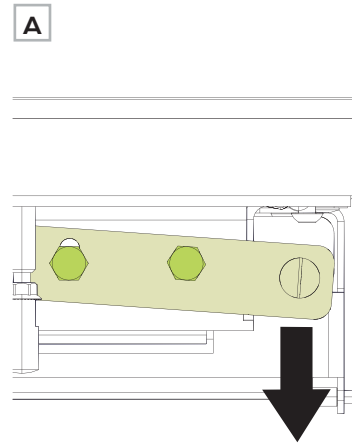
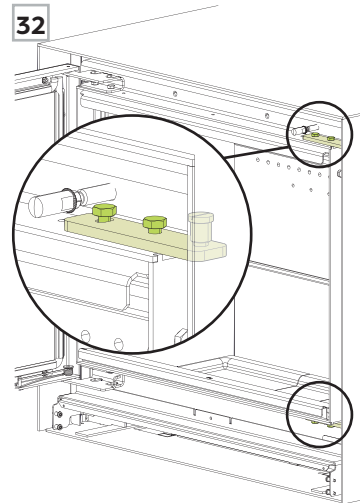


**Step 32** To adjust the door's grip or airtightness, slightly loosen the 4 bolts holding the door filler plate reinforcements at the top and bottom.

**A** If the grip is too tight, the door filler plate reinforcement cylinder has to be pushed outward.

**B** If the grip is too loose, the cylinder has to be pushed inward.

**Gradually** adjust the door according to the above instructions and then tighten the bolts.

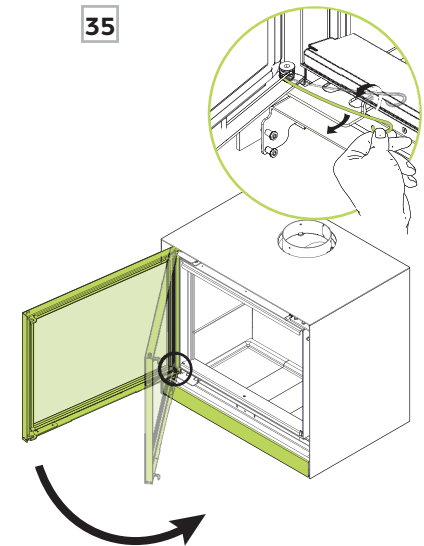
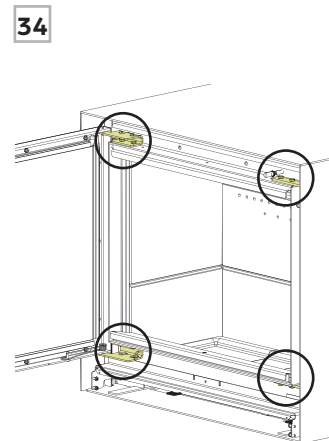
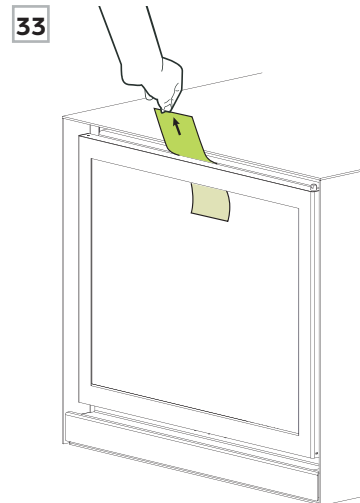


**Step 33** Recheck the airtightness by placing a sheet of paper in the door and closing it. Try to pull the paper out all along the door frame.

**Step 34** Redo the adjustment steps until the door is airtight, level and has a pleasant grip.

If it seems impossible to adjust the door, contact Stûv America's customer service department at 1-866-487-7888.

**Step 35** Re-engage the spring, then close and lock the door. Position the flap if you have not already done so.



# 5

## CHIMNEY

|     |                                          |    |
|-----|------------------------------------------|----|
| 5.1 | DIMENSIONS AND CERTIFICATION .....       | 31 |
| 5.2 | TYPICAL INSTALLATION .....               | 32 |
| 5.3 | MASONRY CHIMNEY .....                    | 33 |
| 5.4 | CHIMNEY THROUGH A COMBUSTIBLE WALL ..... | 35 |
| 5.5 | CHIMNEY FOR TRANSPORTABLE BUILDING ..... | 37 |



## 5.1 DIMENSIONS AND CERTIFICATION



### CHIMNEY DIAMETER

Use a listed double-wall connector (black) with 6" or 7" of clearance. This connector will be attached to the unit's smoke outlet with three #10-1/2" self-drilling screws. All adjoining section shall be attached and secured by the same screws. The chimney connector is the pipe from the stove to the chimney.

This stove cannot be connected directly to a factory-built chimney. Use a chimney connector, then an adapter. **(See 5.2 Typical installation)**

**If the chimney is shorter than 18'**, use the 7" chimney adapter (option: 12005035) and a 7" chimney pipe.



### ! CAUTION

- Carefully read the instruction manual provided with your chimney before installing.
- Do not use makeshift means during installation. This could pose a danger, compromise safety and result in a fire.
- Do not connect the appliance to a chimney that is already connected and used by another appliance. A chimney used as an outlet for a stove must not be used for more than one appliance.
- Do not install the chimney directly at the outlet of the appliance. A chimney connector (flue pipe) is required unless the appliance is specifically approved for that type of installation.
- Do not cut trusses, rafters or ceiling joints without consulting a building official to ensure that the building's structural integrity has not been compromised.
- If this unit is not installed properly, a fire may result. To reduce the risk of fire, follow the installation instructions.
- Contact the local authorities to obtain a building permit and take note of all applicable regulatory requirements.
- A chimney connector shall not pass through an attic or roof space, closet or similar concealed space, or a floor, or a ceiling.
- The chimney and the required chimney connector must be in good condition and kept clean.

### CHIMNEY LENGTH

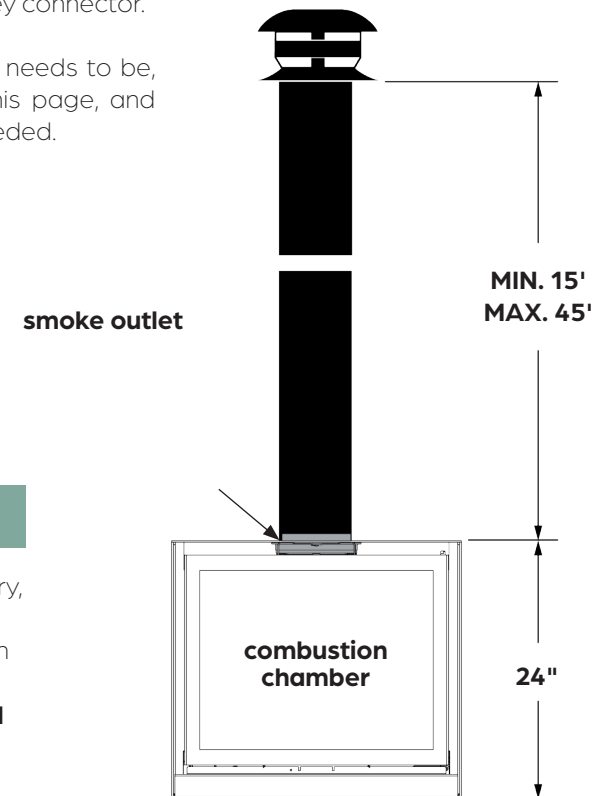
It is recommended that the height of the chimney be between **minimum 15' and maximum 45'**, measured from the top of the unit to the bottom of the rain cap. This height impacts the draft and the efficiency of the unit. If this height is impossible, contact Stûv America technical service.

**Before connecting**, make sure that the stove is in its final location and is level (see page 24 if needed).

If passing through a combustible wall, use only a 6" insulated pipe that complies with the **UL-103HT** or **ULC-S629** standard. The installation must comply with standard **CSA B365**, as well as all other installation standards applicable at that location.

Calculate the number of chimney sections needed, starting from the chimney connector.

Calculate how long the chimney needs to be, based on the information on this page, and gather all of the components needed.



### ! IMPORTANT

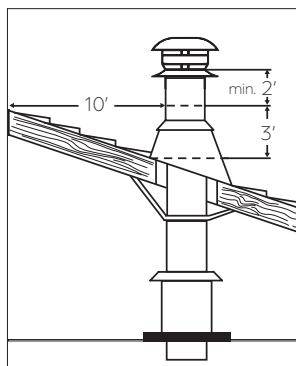
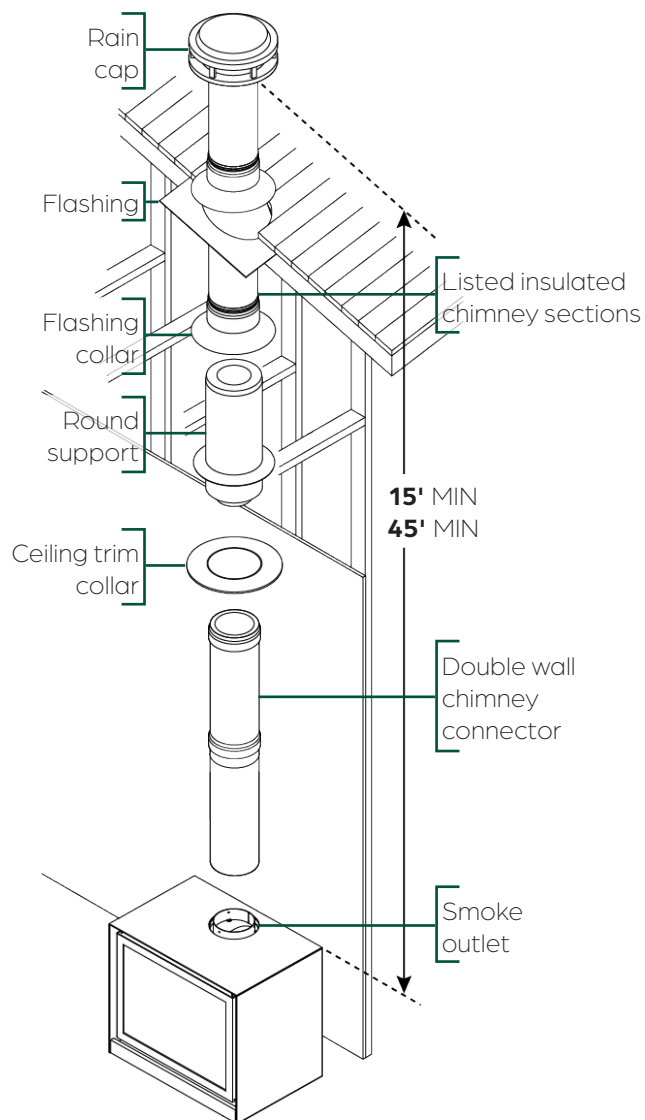
It is preferable, but not mandatory, to install a 3' straight chimney section between the unit and an offset.

In that case, **a straight vertical section** must be installed after the angled section.

## 5.2 TYPICAL INSTALLATION



### INSTALLATION DIAGRAM



### INSTALLATION PROCEDURE



#### CAUTION

Care must be taken during the chimney's installation. Shortcuts or compromises may result in safety hazards or even a fire.

Carefully read the installation manual provided with your chimney before installing. Some configurations may change the order of the steps.

**Step 1** Once the stove is in place, install the double-wall chimney sections almost up to the ceiling.

**Step 2** Create an opening between the ceiling(s), aligned with the chimney sections used. The cutout must be sufficiently large to fit the insulated chimney pipe.

**Step 3** Install a chimney adapter and a ceiling trim collar to transition to the insulated chimney pipe.

**Step 4** Install a radiation shield under each floor/ceiling the chimney crosses. In the attic space, install a radiation shield and a flashing collar.

**Step 5** Connect the insulated chimney pipe sections all the way to the ceiling, from the first section installed previously. **Follow the chimney manufacturer's instructions** to maintain the continuity of airtightness with an effective vapor barrier at the location where the chimney or other component penetrates the exterior of the structure.

**Step 6** Once at roof height, install a roof radiation shield. The shield must be installed so that it extends 1' above the roof line.

**Step 7** Install the flashing.

- If the chimney is enclosed up to the roof, use ventilated flashing.
- If the chimney is not enclosed up to the roof, use regular flashing

**Step 8** Gasket the joint between the roof and the flashing using asphalt-based gasketing compound. For a pitched roof, place the flashing under the upper shingles and over the lower shingles. Nail the flashing to the roof using roofing nails.

**Step 9** Install the flashing collar around the chimney, just above the flashing. Gasket the collar with silicone gasketant. **(Do not use asphalt-based gasketing compound).**

**Step 10** Install and secure the rain cap to the top of the chimney.



The masonry hearth must conform to **N.F.P.A. 211**, to **CAN/CSA A405** or to the **National Building Code of Canada**. In any other case, an R-value must be calculated and respected to install the s16-cube.

This unit has to be connected to a chimney complying with the requirements for:

- **UL-103HT | CAN/ULC-S629**
- **ULC-S635 | ULC-S640 | UL-1777**

The installation of a Stûv stove in a masonry chimney still requires the installation of a section of an chimney section above the stove until it connects to the listed liner that will line the inner surface of the masonry chimney. A rigid stainless steel liner must be installed inside the fired clay liner inside the masonry chimney. The rigid liner does not replace the fired clay liner in any way. You must ensure that the chimney section and the liner are strongly secured together.

A masonry adapter FO-FDM(6) has been designed specifically for this use and is available from a dealer. This adapter attaches with 3 rivets (supplied) to the rigid liner and with 3 screws (supplied) to the chimney. Once the mortar is in place, the joint between the chimney and the rigid liner should not be visible in order to isolate the heat released through the liner from the stove enclosure. You must install a section of chimney of at least 46 cm after the chimney elbow.

The highest point of the chimney, where the chimney enters the masonry chimney, must be no less than 12 1/4" from combustible ceiling materials.

If ceiling height permits, install one of the chimney lengths directly on the stove, before the elbow. If a flexible liner is used, the cleaning should be carried out carefully so that it is not displaced.



### WARNING

If you plan to use an existing masonry chimney, you must have it inspected by competent authorities to confirm the following points:

- The masonry chimney is properly constructed, fully lined and complies with municipal by-laws and the National Building Code of Canada (NBC) or National Fire Protection Association (NFPA 211) standard.
- The masonry chimney has been completely cleaned of all soot and creosote residue and has been inspected to confirm that it is still in good working order. There is no insulation of any kind in contact with the masonry chimney and there is no insulation of any kind trapped anywhere in the chimney.
- All necessary clearances around the masonry chimney, along the entire length of the masonry chimney, are complying with CNB or NFPA 211. If the masonry chimney is enclosed behind drywall boards, openings must be made to confirm all clearances.
- The masonry chimney will be used only for the stove and not for any other appliance.
- If major repairs are required to meet the above mentioned points, a new masonry chimney will have to be built.

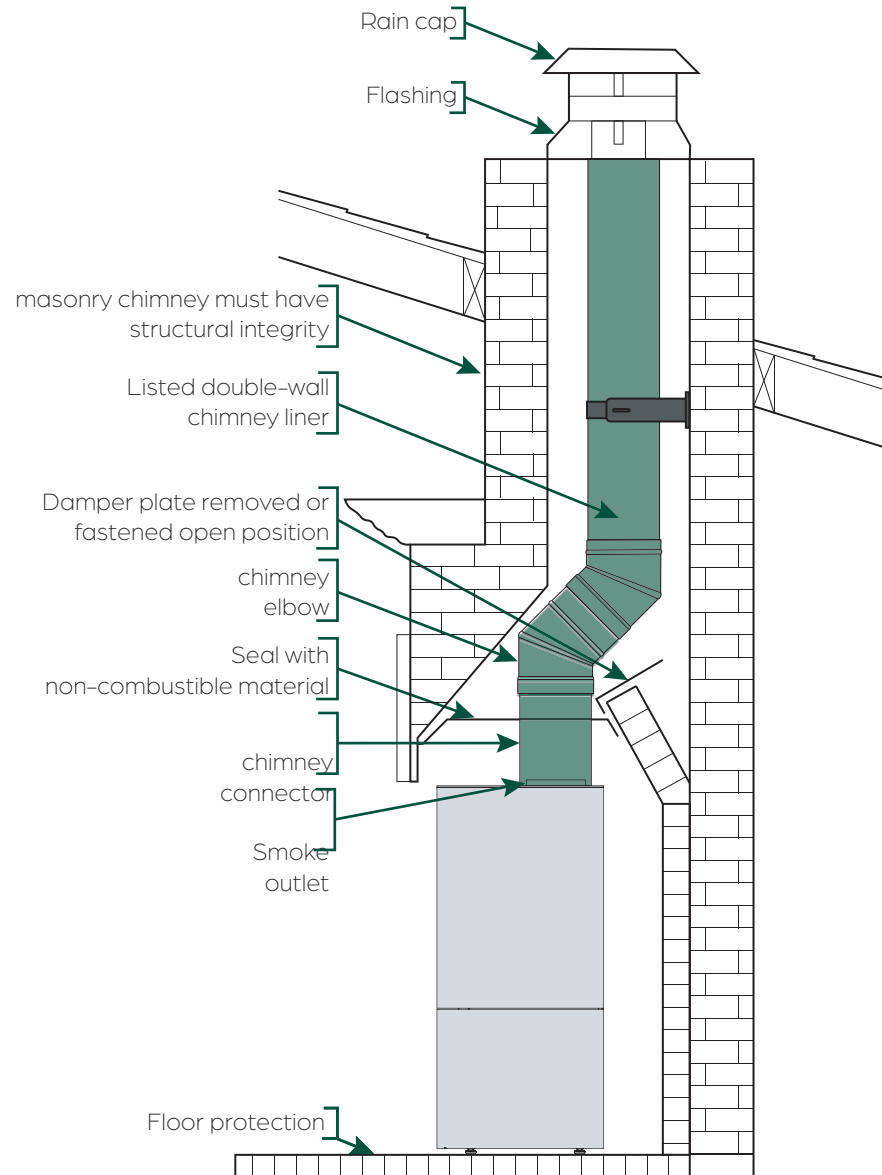
To make a hole in the masonry chimney and connect it to the stove, we recommend that you follow these steps:

- Determine and mark where the chimney is to be inserted into the masonry chimney. Using a large masonry drill bit (3/4 - 2"), drill a hole exactly in the centre of the oval line. Using a masonry hammer and drill, gradually widen the hole to the desired size. Remember to work from the centre of the hole to the outside. Be particularly careful when drilling the fired clay liner behind the brick as the other three sides must remain in place.
- Slide the stainless steel liner from the top of the chimney down. If you are using a rigid liner, you will need enough space to fix an elbow with at least 2 rivets. If the rigid liner does not slide easily or if the masonry chimney has an interior opening of less than 10" X 10", a listed flexible liner can be used with a flexible/rigid adapter (LM-7LAF) available from a chimney dealer.
- Install the rigid liner elbow and masonry adapter at the lower end of the liner.
- Push the stove forward to install the chimney (elbow and length) and then push the stove back into place while connecting the chimney to the masonry chimney adapter.

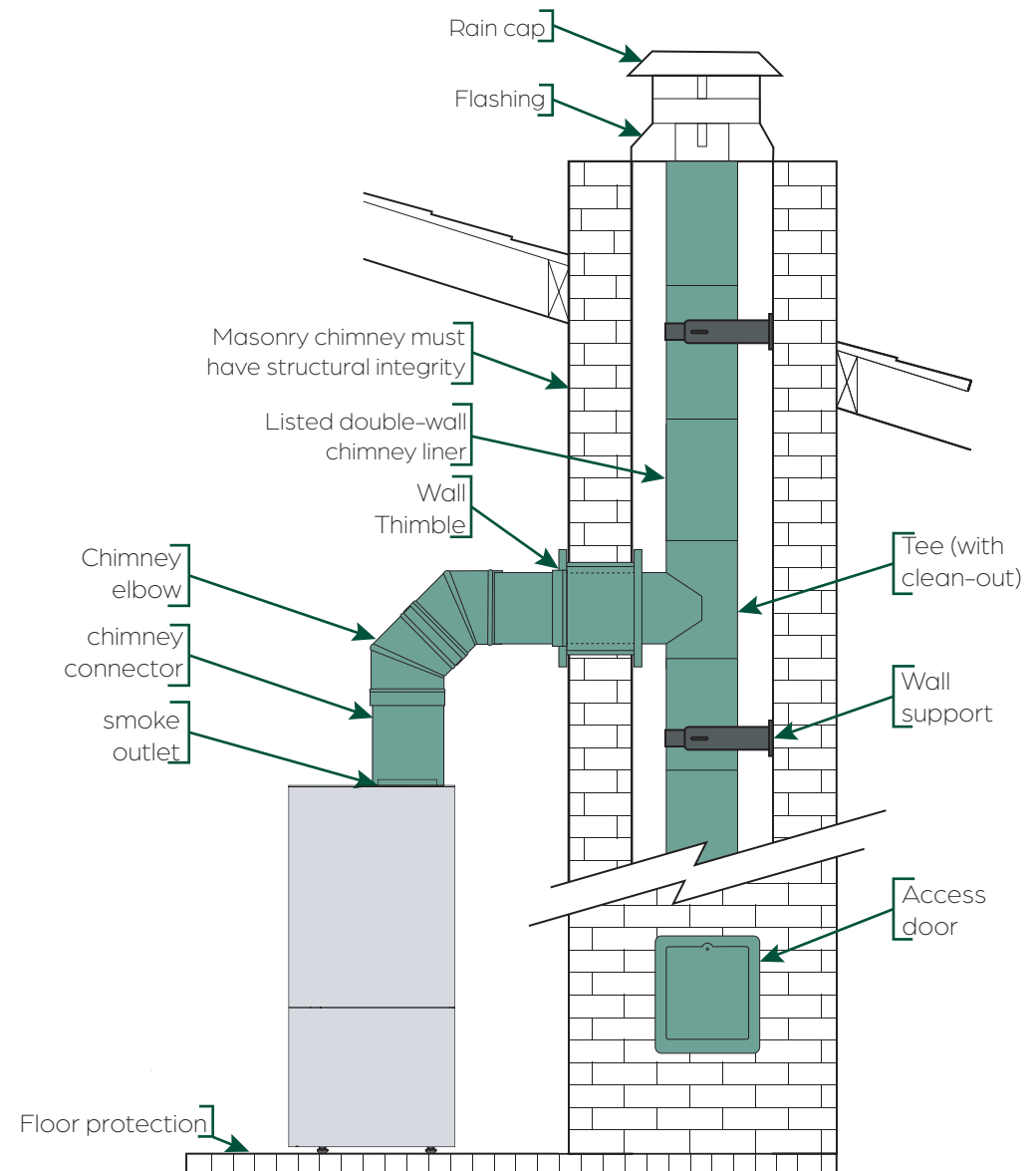
## 5.3 MASONRY CHIMNEY



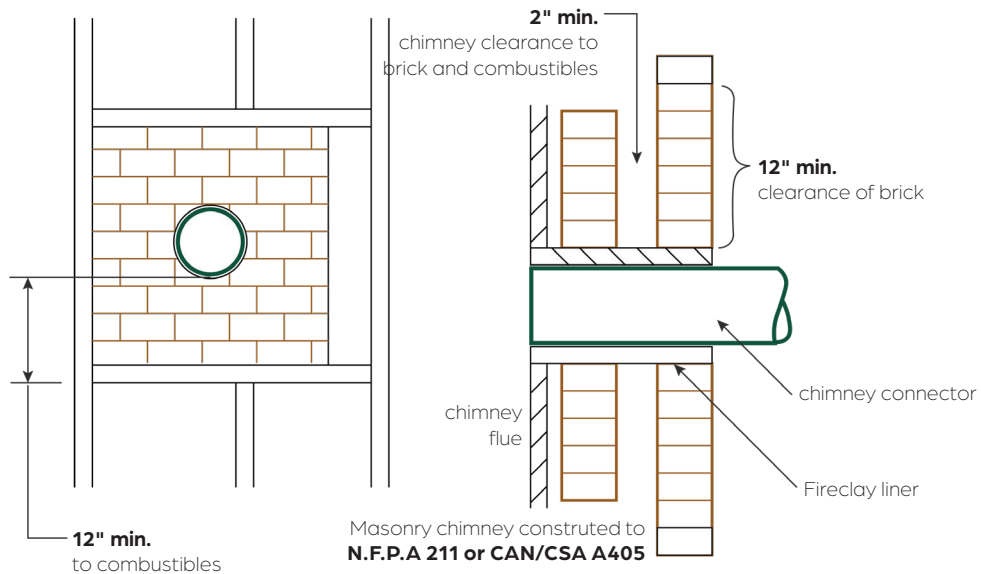
### TYPICAL INSTALLATION



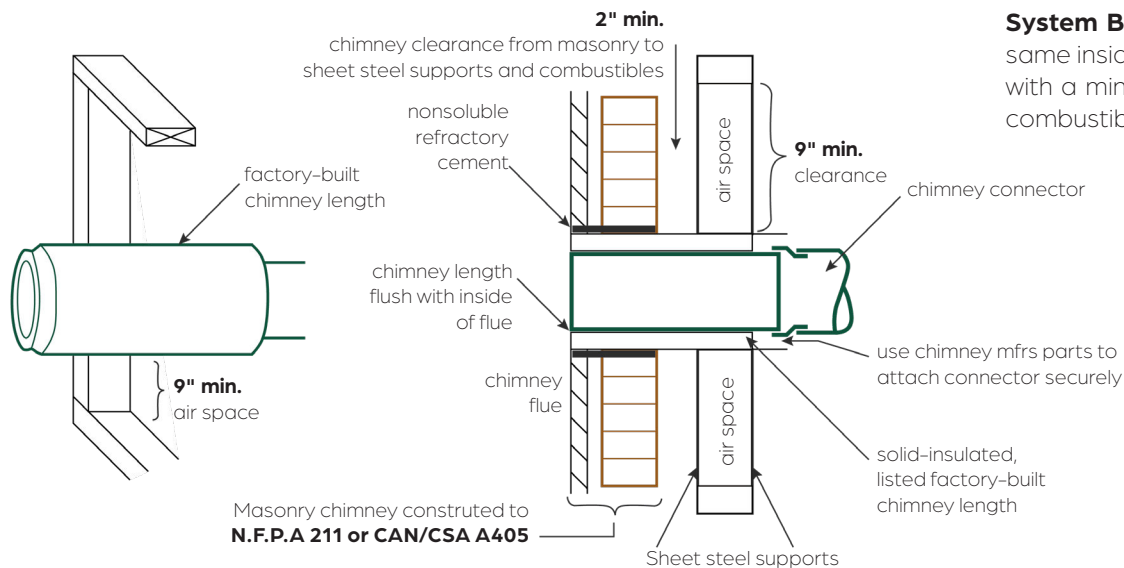
### CHIMNEY PIPE THROUGH MASONRY CHIMNEY



## 5.4 CHIMNEY THROUGH A COMBUSTIBLE WALL

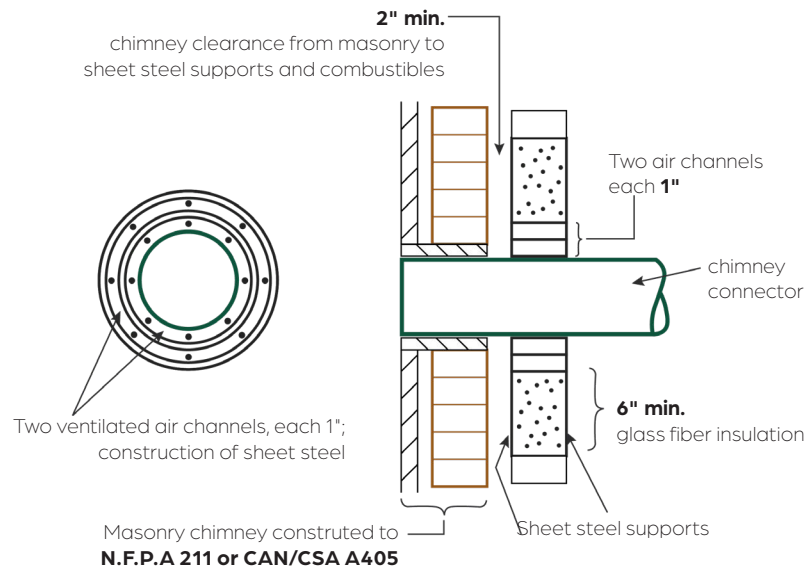


**System A: Clearance: 12"** Minimum 3.5" thick brick masonry wall framed into combustible wall with a minimum of 12" brick separation from clay liner to combustibles. The fireclay liner shall run from outer surface of brick wall to, but not beyond, the inner surface of chimney flue liner and shall be firmly cemented in place.

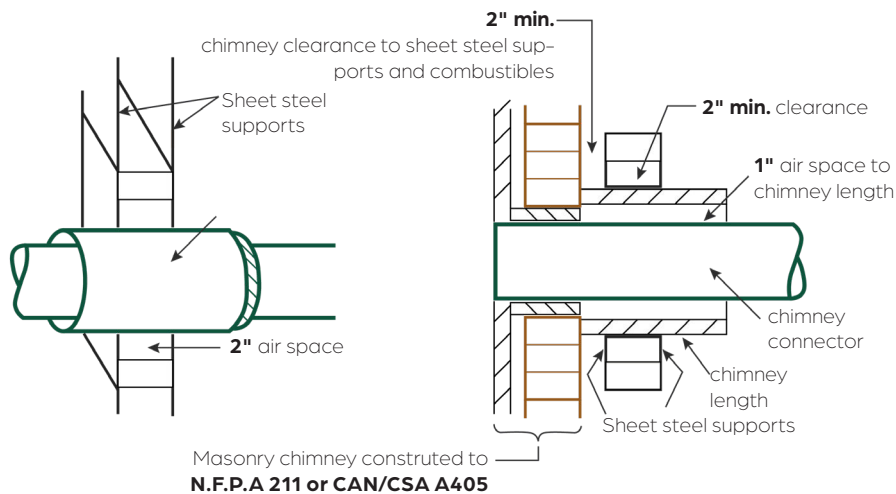


**System B: Clearance 9"** Solid-insulated, listed factory-built chimney length of the same inside diameter as the chimney connector and having 1" or more of insulation with a minimum 9 in. air space between the outer wall of the chimney length and combustibles

## 5.4 CHIMNEY THROUGH A COMBUSTIBLE WALL



**System C: Clearance 6"** Sheet steel chimney connector, minimum 24 gauge [0.024"] in thickness, with a ventilated thimble, minimum 24 gauge [0.024"] in thickness, having two 1" air channels, separated from combustibles by a minimum of 6" of glass fiber insulation. Opening shall be covered, and thimble supported with a sheet steel support, minimum 24 gauge [0.024"] in thickness.



**System D: Clearance: 2"** Solid-insulated, listed factory-built chimney length with an inside diameter 2" larger than the chimney connector and having 1" or more of insulation, serving as a pass-through for a single wall sheet steel chimney connector of minimum 24 gauge [0.024"] thickness, with a minimum 2" air space between the outer wall of chimney section and combustibles.

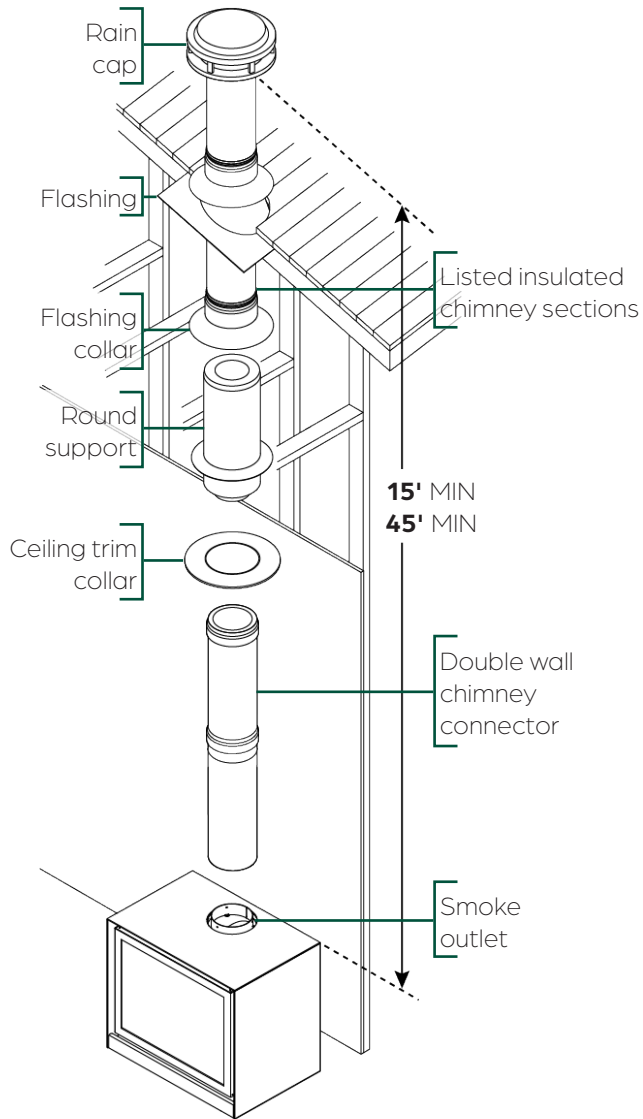
Minimum length of chimney section shall be 12". Chimney section concentric with and spaced 1" away from connector by means of sheet steel support plates on both ends of chimney section. Opening shall be covered, and chimney section supported on both sides with sheet steel supports of minimum 24 gauge [0.024"] thickness.

Supports shall be securely fastened to wall surfaces on all sides and shall be sized to fit and hold chimney section. Fasteners used to secure chimney section shall not penetrate chimney flue liner.

## 5.5 CHIMNEY IN TRANSPORTABLE BUILDING (CANADA ONLY)



### INSTALLATION DIAGRAM



A unit installed in a transportable building must be connected to a chimney complying with the requirements for:

- **UL-103HT | CAN/ULC-S629**

The air supply is important for an installation in a transportable building. See **DIMENSIONS – Convection air and Air supply** for details.

The stove required to be fixed to the floor. See **INSTALLATION – Positioning and options** for details.

#### WARNINGS FOR TRANSPORTABLE BUILDING :

- It is permit to install this unit in a transportable building in **CANADA ONLY**.
- Do not install in sleeping room.
- The structural integrity of the mobile home floor, wall and ceiling/roof must be maintained.
- Remove the chimney for transportation of the building.

# 6

## USE

|     |                         |    |
|-----|-------------------------|----|
| 6.1 | FUEL SELECTION.....     | 39 |
| 6.4 | STARTING THE FIRE ..... | 41 |
| 6.3 | RELOADING THE FIRE..... | 42 |
| 6.4 | ASH REMOVAL .....       | 42 |





## HUMIDITY LEVEL

It is essential to use **dry wood** that has a moisture content of **less than 18%**. This will ensure **more efficient** and **clean combustion**.

Using **wet or semi-dry wood** with a moisture content **higher than 18%** will result in mediocre and less efficient combustion. The fire will be smaller and difficult to start. It will release a great deal of **black smoke** and **pollution** into the air and also sully your glass and chimney pipe.

**To choose dry wood, use a moisture meter or check if...**

- The wood is lightweight and slightly split
- You hear a snap when banging one log against the other
- The bark comes off easily
- There are cracks from the centre to the edge

## IMPORTANT

Store the wood in a weatherproof location to keep it dry. Do not store it in the risk area, stove loading area, ash removal area or inside the mandatory clearances indicated in the **DIMENSIONS** section.

## HARDWOOD OR SOFTWOOD

The harder a wood is, the more heat it will produce and the slower it will burn (at equivalent moisture content). Softwood can be used as kindling over hardwood. It burns more quickly (at equivalent moisture content) despite its lower calorific value.

- **Hardwood:** oak, beech, elm, ash, acacia, hornbeam, maple
- **Fruit tree wood:** walnut, cherry, pear, apple, olive
- **Softwood:** poplar, birch, linden., locust, chestnut
- **Resinous wood:** maritime pine, spruce, Scots pine, fir, larch

## WOOD TYPES

**Ash and beech** are recommended as firewood as they dry quickly and are easy to find. They must be stored under a shelter immediately after being cut and split, otherwise they rot very quickly and lose their calorific value. They are easy to light and produce very bright, lively flames.

**Maple** has a good calorific value. It produces fires and embers that last a long time.

**Oak** is an excellent fuel, but unlike other wood species, it has to remain uncovered for two years to allow the rain to remove the tannins it contains. Then it has to be stored under shelter for another year or two before it can be burned. Small oak branches have a high sapwood content, which burns too quickly. Oak burns slowly, produces a calm fire and beautiful embers. It is ideal for barbecuing and for moderate fires.

**Hornbeam, cherry and fruit trees** are excellent fuels, but are rare. These are hardwoods. They produce beautiful, harmonious and calm flames, and beautiful embers. Ideal for a barbecue or a calm fire.

**Birch, linden, chestnut, poplar and black locust** are broad-leaved trees with soft wood. They produce beautiful, harmonious, but bright flames and few embers. Because they burn quickly, they can be used to start (or restart) the fire. Caution: Poplar produces abundant and volatile ash while black locust produces significant sparks.

**Resinous woods (not recommended)** generate a lot of heat, but they burn quickly. They throw sparks and the resins they contain cause build-up in the chimney.

## CALORIFIC VALUE

Each type of wood has a different calorific value and all burn in different ways.

**We strongly encourage the use of hardwoods** such as hornbeam, maple, oak, ash, elm and beech. They produce beautiful flames and plenty of embers that glow for a long time.



## CAUTION – NOT TO BE USED

### Burn only firewood. Do not burn:

- Garbage
- Lawn clippings, yard waste or unseasoned wood
- Materials containing plastics, petroleum-based products, gasoline, liquid fuel or rubber, including tires
- Waste petroleum products, paints or paint thinners, or asphalt products
- Industrial solvents
- Flammable liquids such as naphtha and motor oil
- Painted wood, varnished wood or chemically treated wood
- Materials containing asbestos
- Construction or demolition debris
- Salt water driftwood or other previously salt-water saturated materials
- Railroad ties or pressure-treated wood
- Manure or animal remains
- Paper products, cardboard, plywood, or particleboard. The prohibition against burning these materials does not prohibit the use of fire starters made from paper, cardboard, saw dust, and similar substances for the purpose of starting a fire in this unit
- Any substance that emits dense fumes and strong odours

The heat produced by these materials is too great and can damage the appliance, in addition to causing soot to form on the glass and on the inside of the chimney pipe. These materials produce toxic and polluting fumes, such as carbon monoxide, which can be hazardous to health. Burning these materials may result in release of toxic fumes or render the heater ineffective and cause smoke.

**Composite logs (ecological):** Composite/ecological logs are to be avoided. They sometimes emit residues that sully the mechanisms and cause the appliance to age poorly.

This wood heater has not been tested with decorative sets (logs, pebbles) for unvented gas fireplaces. To reduce the risk of fire and/or injury, it is prohibited to install a decorative set in the combustion chamber of the appliance.

Do not use a grate or other method to elevate the fuel. Burn firewood directly on the cast irons. Do not elevate the fire.



## CAUTION

**Read the safety instructions on page 7 before using the stove.**

Upon first use, some smoke or odours may be produced. **Ventilate the room well.**



## In case of a chimney fire

1. Call the fire department.
2. Put out the fire with a type A or ABC extinguisher (powder, foam or water and additive). Avoid using a bucket of water or any other hazardous method to put it out.
3. Air out the room in which the unit is located.
4. After a chimney fire, have the chimney cleaned and inspected by a professional.
5. Make any repairs necessary before using the unit again.

## LOCATION AND EFFICIENCY

Every solid fuel installation is unique. It is imperative to consider the location of your appliance for optimum heating efficiency but also proper performance. **Geographical location** can have a huge impact on the performance of the appliance. **Sufficient draft** is the most important aspect in solid fuel heating. For maximum efficiency, the appliance should be installed in locations to allow for the highest possible rate of success. In general, the appliance will perform best in **main living areas with an inside insulated chimney**. This will allow for the best air combustion situation and highest draft potential.

If the outside temperature is higher than the inside temperature, load more paper and more kindling to properly heat the chimney pipe and thus counter the temperature imbalance. First ignite balled-up pieces of paper and about 1 to 1 1/2 lb. of kindling  $\pm 3/4$  sq. in.-thick.

The maximum load to avoid overfiring is **2x the weight of the hourly consumption**. Refer to the table on page 5.



### ! CAUTION

The stove must always be operated with the door closed. Otherwise, smoke and flames could come out of the opening and cause significant damage.

Only open the door to start the fire or to add wood.

**Step 1** Using the door handle provided with the unit, open the door by turning the door handle.

Allowing the door to slam could break the glass. Do not start a fire if the glass is broken.

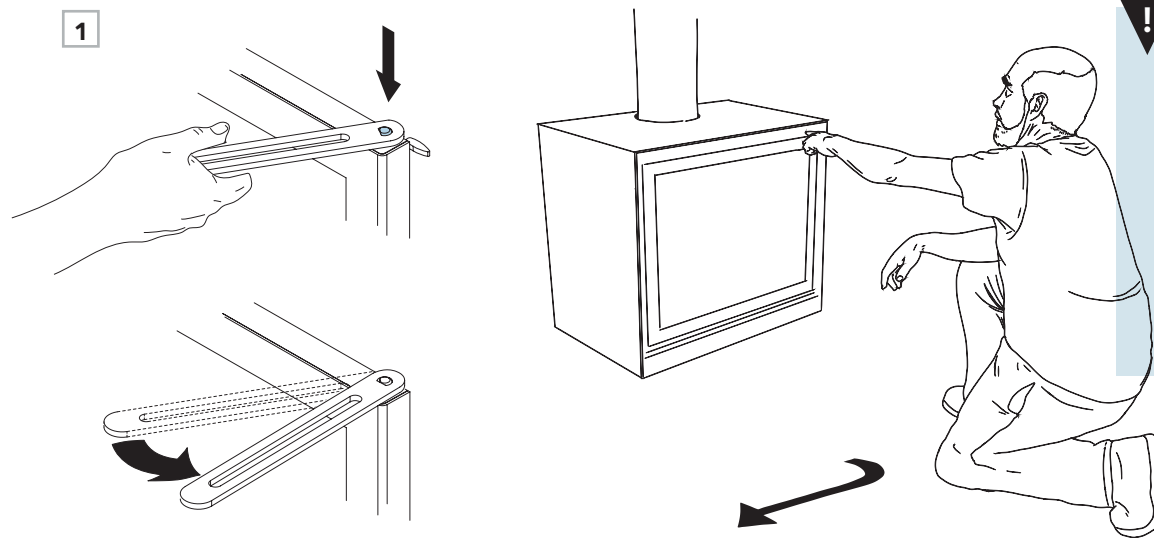
**Step 2** Place the wood logs in the combustion chamber using the top-down lighting technique as shown for better combustion. Do not place the logs too close to the glass.

**Step 3** Light the fire.

### ! ATTENTION

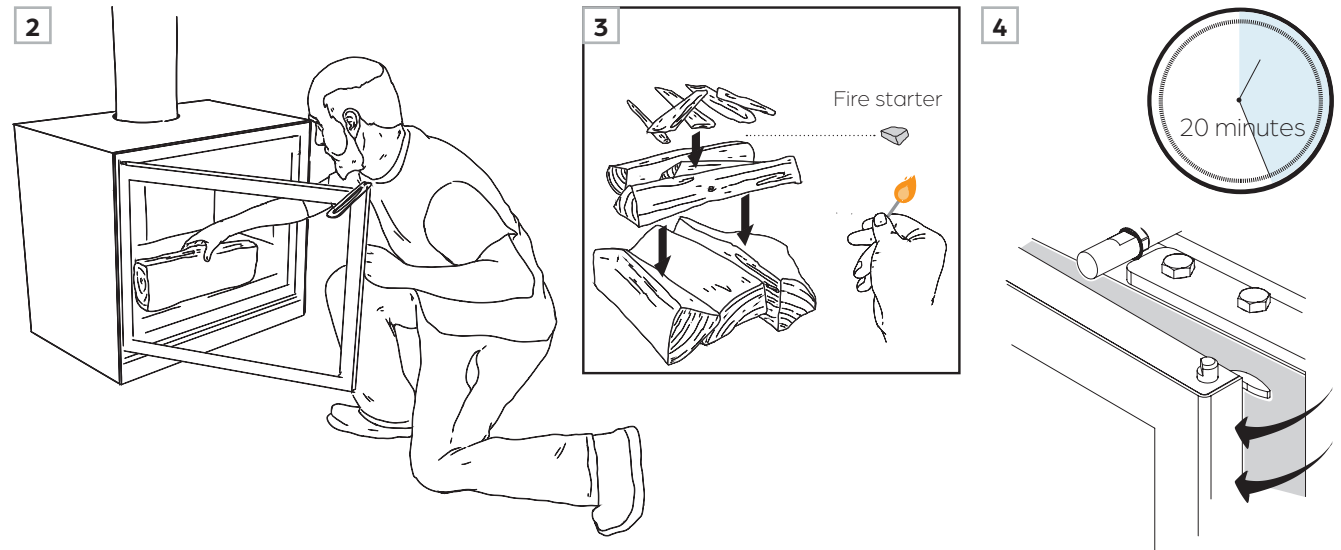
It is recommended to use fire starters made from sawdust or wood fiber, without chemical and toxic additives. Paraffin or other waxy substances can block the air supply system.

**Step 4** Leave the door ajar for minimum 20 minutes. This helps create a better draft when starting a fire and prevents smoke condensation and soot deposits. Close the door once the fire is burning well.



### ! NOTE

Burning one log at a time increases the amount of embers and coal. While burning two or more logs, the combustion is optimized and this will reduce unburned residues.



## 6.3 RELOADING THE FIRE



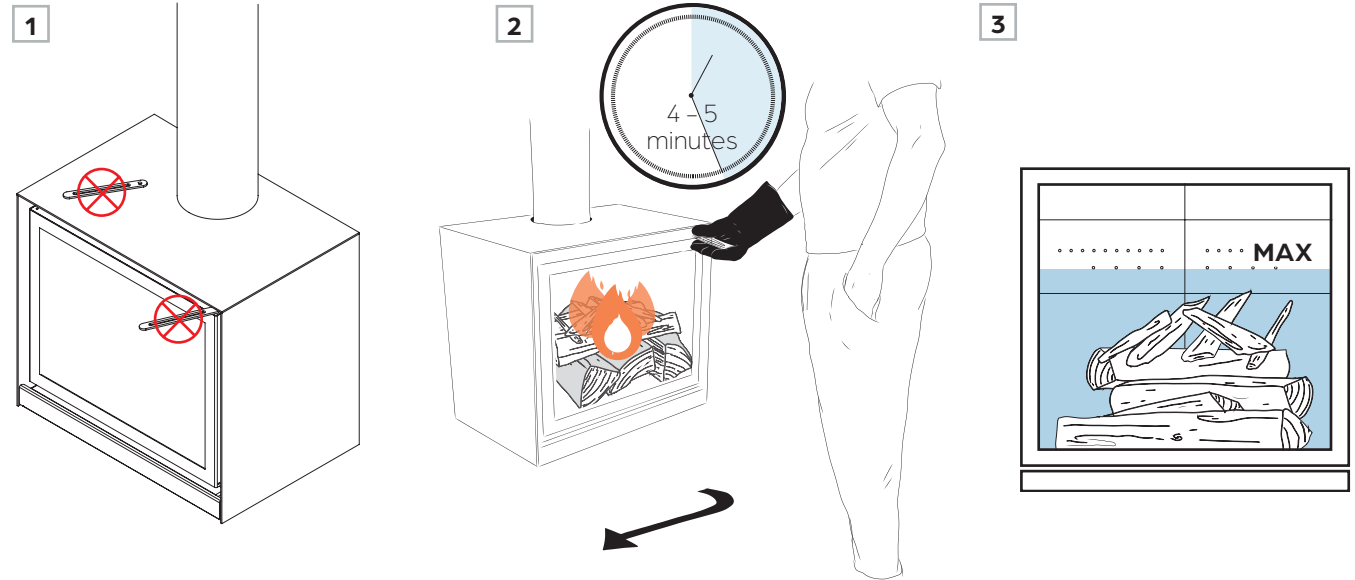
**Step 1** Never leave the door handle on top of the cube shell or grip cylinder. It will get very hot and could damage the paint.

**Step 2** Add wood using the Stûv glove provided with the unit.

Keep the door ajar for 4-5 minutes after recharging, then close the door.

Do not stir the wood or move it around while it is burning. Use a poker if necessary.

**Step 3** The maximum loading height is at the first row of air injection holes. The air injection holes must never be obstructed under any circumstances.

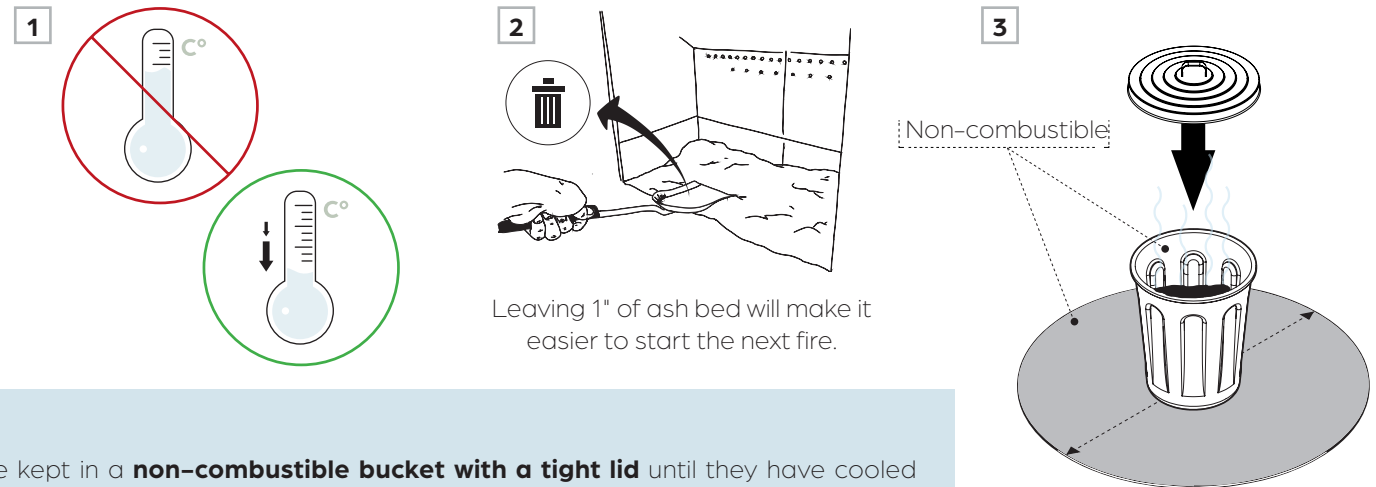


## 6.4 ASH REMOVAL

**Step 1** Wait until the ashes are cold to be able to safely open the door.

**Step 2** Use an ash shovel to remove the ashes. Place them in a metal bucket.

**Step 3** Place the bucket filled with ashes on a non-combustible surface. Be sure to keep it away from any combustible materials.



### NOTE

Before disposing of the ashes, they should be kept in a **non-combustible bucket with a tight lid** until they have cooled completely. Remove the ashes from the fireplace on a regular basis. Burning ashes can damage the glass's lower gasket. **This deterioration is not covered by the warranty.**

# 7

## MAINTENANCE

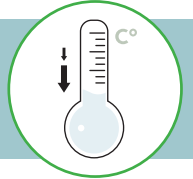
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|-----|-------------------------------------|----|
| 7.1 | REGULAR MAINTENANCE .....           | 44 |
| 7.2 | REPLACING COMPONENTS.....           | 45 |
| 7.3 | CREOSOTE AND CHIMNEY-SWEEPING ..... | 48 |





## CAUTION

Do not conduct maintenance while the unit is hot. Wait until it has cooled completely.



### Every year, perform annual maintenance on the unit:

- Vacuum the ashes from the joint section
- Check the condition of the door's gasket
- Check the condition of the glass's gasket

### Follow the steps on the following pages to conduct these checks.

Clean the glass when the unit is cool. Never use abrasive cleaners.

- Use the door handle to open the door 90°.
- If necessary, protect the painted parts of the unit and the floor finish.
- Clean with a non-abrasive glass cleaner or clear water. You can also use ashes mixed with water to remove accumulated soot.

During the heating season, have your chimney regularly inspected by a professional. It is recommended that you have your chimney swept twice per heating season to prevent creosote build-up.

Remove excess ash after each use. Do not wait for the ashes to overflow from the stove. Excess ash can obstruct the supply of fresh air during combustion and can damage the gaskets.

**Ash removal is explained in the *USE* section of this manual.**

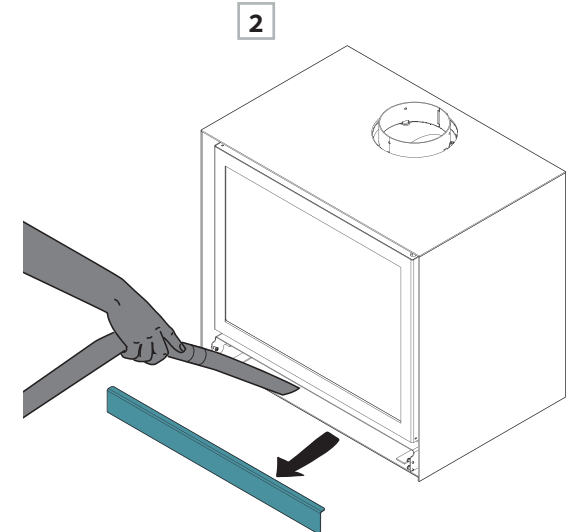
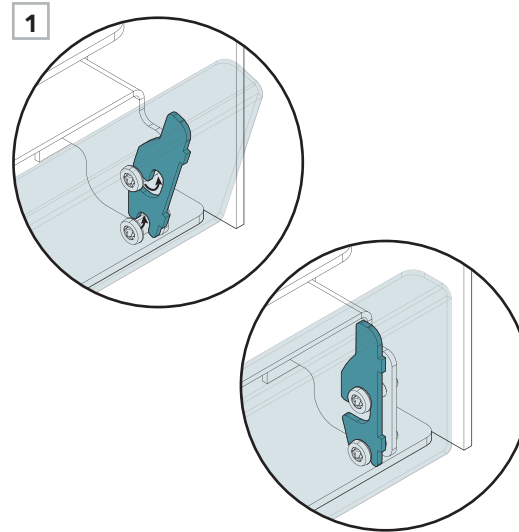
**Stûv recommends using genuine replacement parts.** Using a substitute may affect the unit's operation and will void the warranty. **Contact a Stûv dealer** in the event of deterioration of the parts.

For all other parts that need to be replaced, but whose disassembly steps are not included in these instructions, contact an authorized Stûv America dealer.

To vacuum the ashes in the joint section:

**Step 1** To remove the flap, slide it upward, then turn it slightly toward you.

**Step 2** Vacuum inside and then put the flap back.



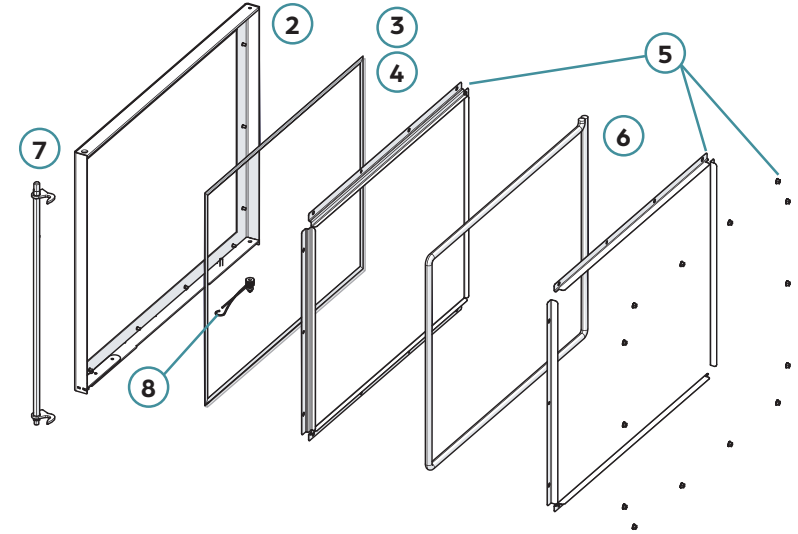
## 7.2 REPLACING COMPONENTS



**Step 1** The next steps explain how to disassemble the parts that make up the door.

1

| # | DESCRIPTION            | 58       | 68       | 78       |
|---|------------------------|----------|----------|----------|
| 1 | full door              | 14008040 | 14008041 | 14008042 |
| 2 | door frame             | 14997210 | 14997234 | 14997258 |
| 3 | glass and gasket kit   | 14006014 | 14006015 | 14006016 |
| 4 | glass gasket           | 14005033 | 14005034 | 14005035 |
| 5 | gasket clamps and nuts | 14004029 | 14004030 | 14004031 |
| 6 | door gasket            | 14005049 | 14005050 | 14005051 |
| 7 | door latching kit      | 14997170 |          |          |
| 8 | door latch spring      | 14016038 |          |          |



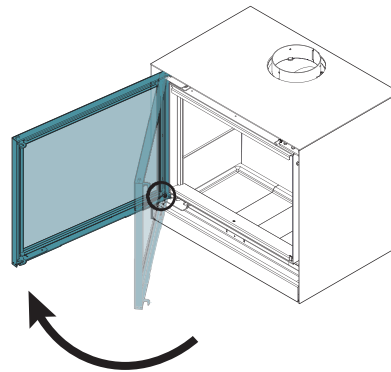
Follow the next steps for all maintenance performed on the unit.

**Step 2** Use the door handle to open the door 90°.

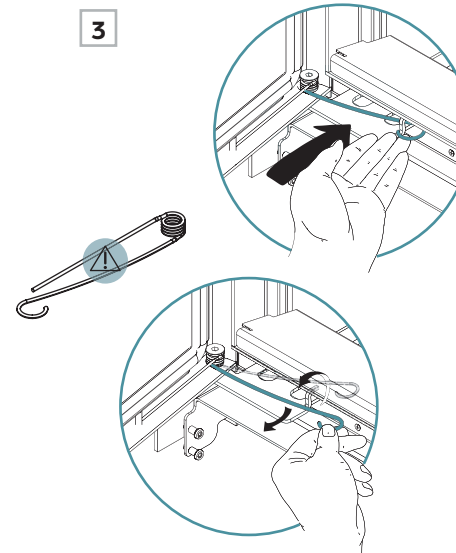
**Step 3** Locate the spring at the bottom of the door, near the rotation axis. Disengage the spring by pushing it down and pulling forward.

**Step 4** Remove the door and put it in a safe place where it will not get damaged.

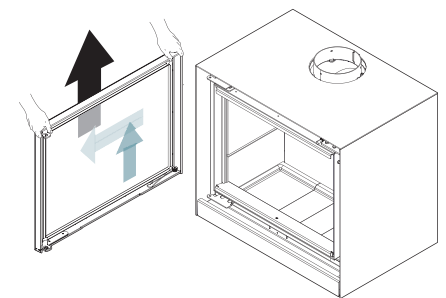
2



3



4



## 7.2 REPLACING COMPONENTS

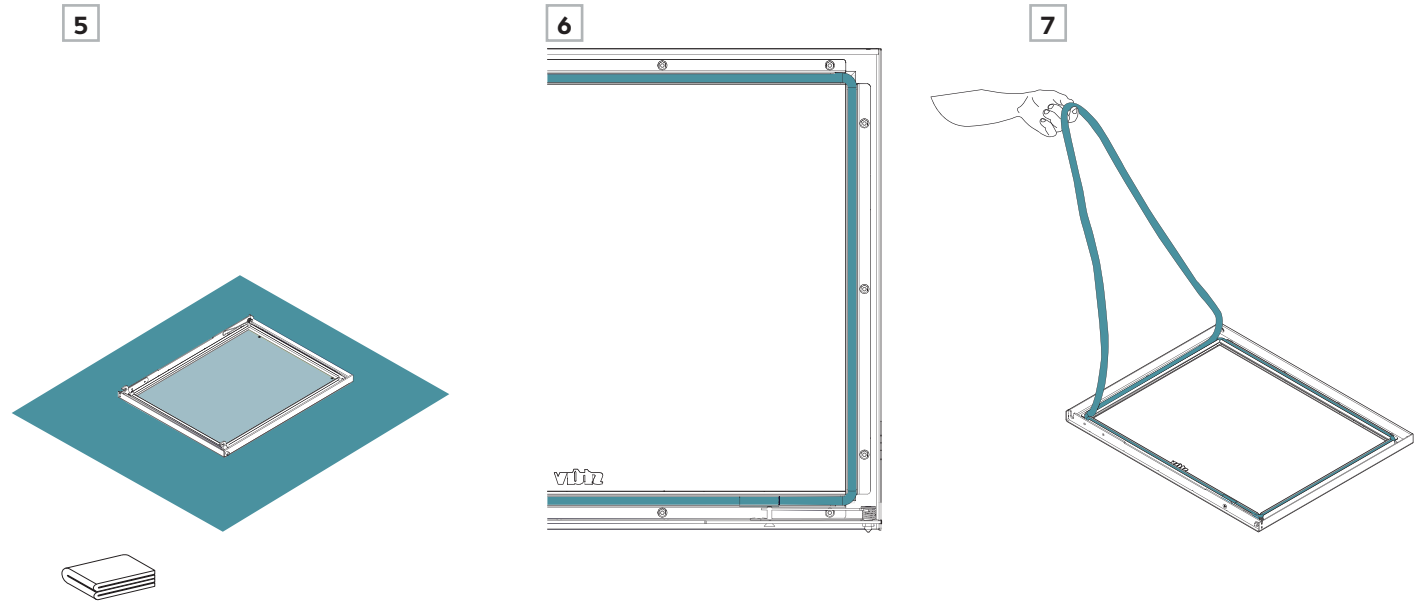


**Step 5** Place the door on a protective fabric to protect the paint and to be able to continue disassembling it more comfortably.

**For all maintenance performed on the door's components**, follow the next steps until you reach the component to service or change.

**Step 6** Locate the black door gasket in the gasket clamps.

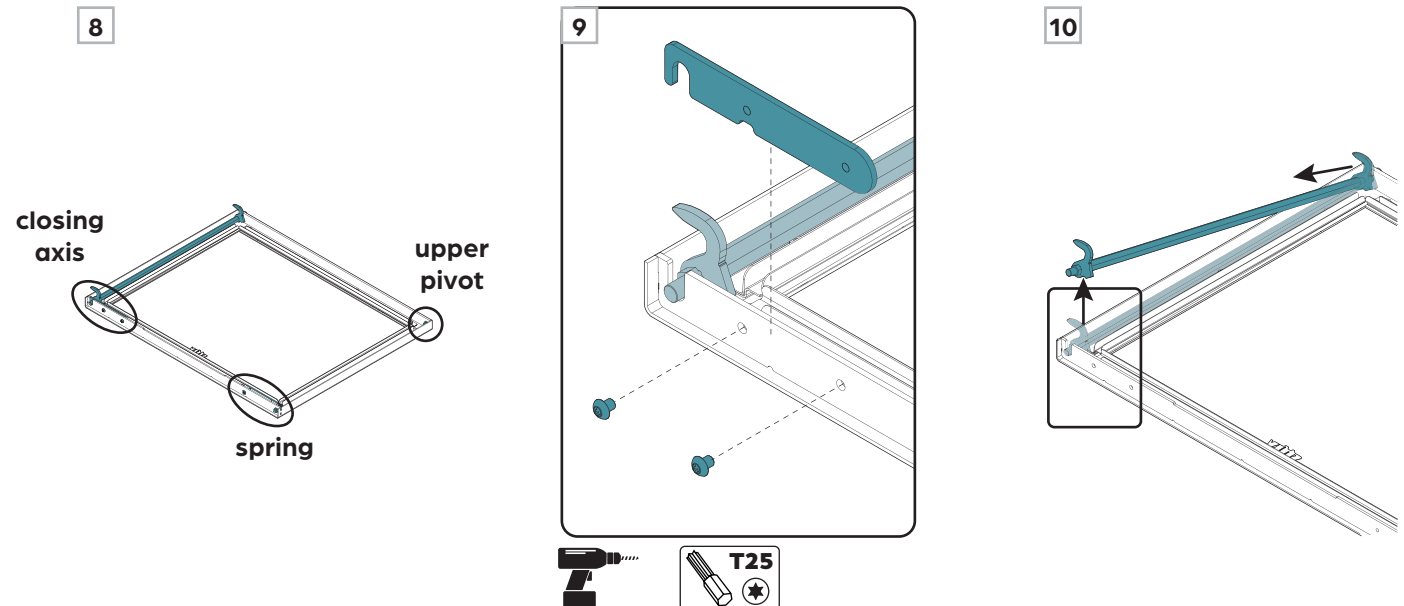
**Step 7** Gently pull on the gasket to remove.



**Step 8** Several of the door parts can be modified. Here are the three work areas.

**Step 9** The first part that can be removed is the closing axis. This pin along the frame can be unlocked by removing two screws.

**Step 10** Remove the closing axis by lifting the bottom part and sliding it upward, out of the door frame.



## 7.2 REPLACING COMPONENTS



**Step 11** Only remove the upper pivot **if it is damaged**. If needed, use a 10 mm hex socket to unscrew the door.

**Step 12** The spring is supported in two places. The straight pin is behind a screw (use a 3 mm Allen key) while the spring's cylinder is wrapped around a screw (5 mm) and a pivot (10 mm).

**Step 13** Remove these three pieces of hardware to change the spring.

**Step 14** Unscrew the nuts to remove the gasket clamps and glass retaining clips.

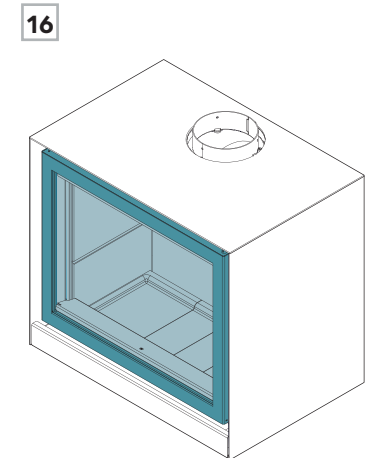
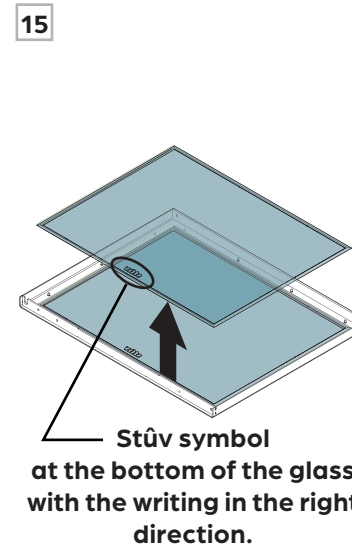
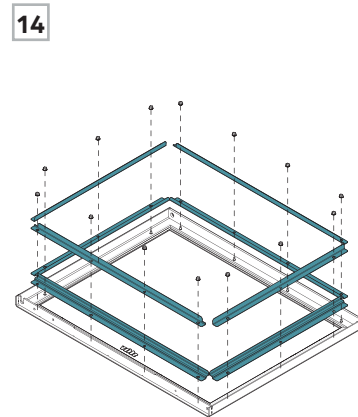
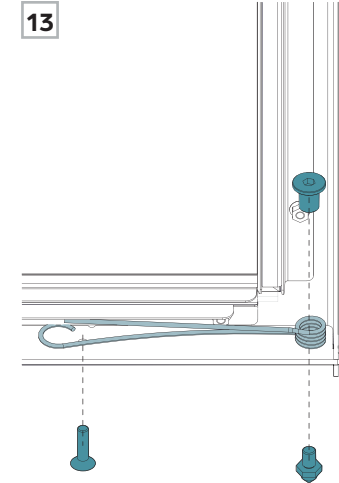
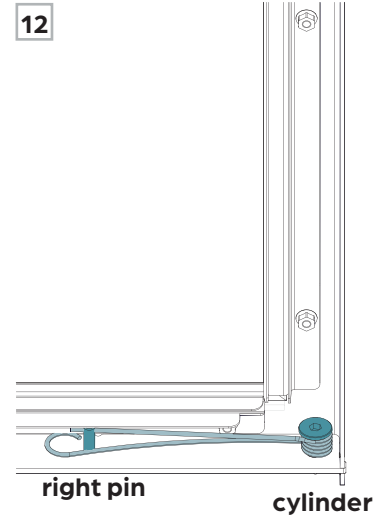
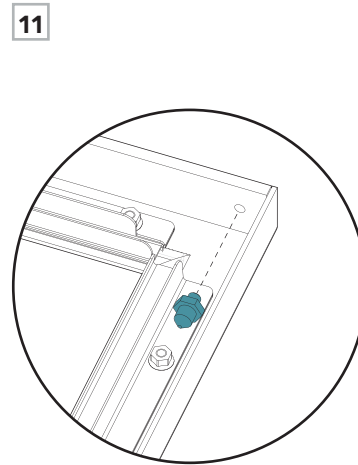
**Step 15** The glass is the last component to disassemble. Check the gaskets and change them or the pane if needed.

Replace glass only with Stûv's ceramic glass 4 mm thick, able to withstand high temperatures.

| MODEL | GLASS           |
|-------|-----------------|
| 58    | 439 mm x 466 mm |
| 68    | 439 mm x 566 mm |
| 78    | 439 mm x 666 mm |

**Step 16** Follow the steps in reverse to re-assemble the door and reattach it to the appliance.

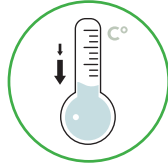
- Replace the glass and gasket.
- Screw the gasket clamps back on with the nuts.
- Re-place the closing axis and screw it back on.
- Reinsert the door gasket.
- Put the door back on its hinges.
- Screw the spring on and re-engage it.
- Close and lock the door.





### Chimney-sweeping steps

Wait until the unit has cooled completely before performing maintenance.



If the sweeping is being done **from the roof**:

- Use the door handle to close and lock the door.
- Sweep according to your country's regulations.

If the sweeping is being done from **inside the house**:

- Open the door fully or even remove it if needed.
- Remove the top vermiculites supported by the baffles (follow the steps at the bottom of the page).

**Creosote** is a thick, black residue that forms due to incomplete combustion of wood. It can be brittle or smooth (vitrified). During slow combustion, wood releases tar droplets that condense on the cold chimney lining. The shape of the residue varies with time and the internal temperature of the lining on which the creosote vapours condense.

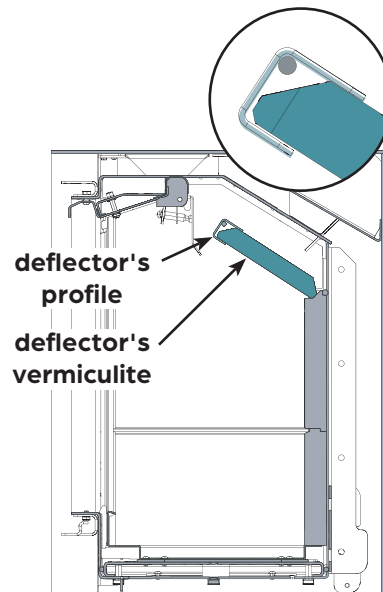
This build-up of creosote can be very hazardous. When ignited, it produces an extremely hot fire in the chimney. Have your chimney professionally **inspected twice during the heating season** to assess whether or not a creosote build-up has occurred. If so, remove any built-up residue to **reduce the risk of a chimney fire**.

It is recommended that the unit's main user establish a chimney maintenance routine. Check for creosote build-up on a daily basis to get a good idea of how often the chimney needs to be swept for safety. The hotter a fire burns, the less creosote will build up. Weekly sweeping may be necessary in milder weather, while monthly sweeping can be sufficient during the colder months. **Contact your local or provincial fire department for information on how to put out a chimney fire.**

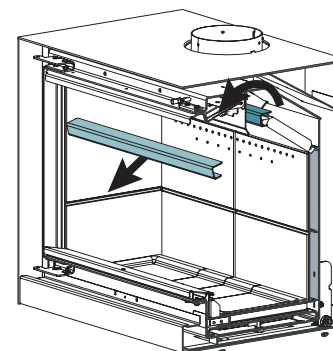
To sweep from inside the unit, the deflector's profile and vermiculites must be removed.

**Step 1** Remove the deflector's profile by pivoting it slightly toward you. **The longer side of the profile must be over the vermiculites.**

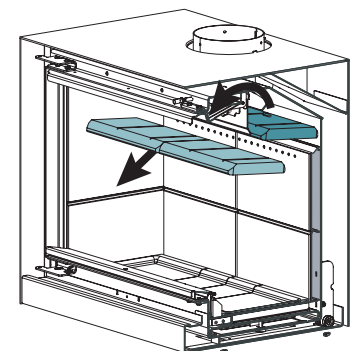
**Step 2** Remove the vermiculites with a similar movement. Take care as they come apart easily.



1



2



# 8

## WARRANTY

|     |                        |    |
|-----|------------------------|----|
| 8.1 | WARRANTY DETAILS ..... | 50 |
| 8.2 | WARRANTY FORM .....    | 51 |



## WARRANTY COVERAGE

Stûv appliances are guaranteed against:

- manufacturing defects
- paint defects on the visible parts of the unit
- glass breakage, but only if it occurs during the first firing
- shipping-related damage if we are notified within 48 hours of delivery and the damage is noted on the carrier's bill of lading when the unit is received (website)

This warranty does not cover damage to the appliance or malfunctions due to:

- installation that does not comply with the applicable regulations or the installation instructions
- abnormal use that does not comply with the directions for use
- lack of maintenance
- an external cause, such as a flood, lightning strike, fire, etc.

The warranty is limited to replacing the parts deemed defective and does not include labour or damages.

## WARRANTY TERMS

This document must be returned to us, duly completed, within one month of the date of the dealer's invoice to the buyer.

Duration of the warranty:

- 5 years on the body of the appliance
- 1 year on refractory materials, gaskets, door mechanism, hinges and latches.

The warranty period begins on the date of the dealer's invoice to the buyer. The replacement of parts under warranty does not extend the duration of the initial warranty.

When an item is defective, it is important to quickly notify an authorized Stûv dealer. They will contact Stûv America to fill out the warranty form. They will need:

- the unit's serial number
- the date the unit was purchased
- an explanation of the defective item
- photos of the defective item

With this information, Stûv America will be able to validate whether the part is covered by the warranty and judge the relevance of changing it. The dealer will also be in charge of installing the new part.

## CERTIFICATE OF WARRANTY

This Stûv appliance has been designed to offer you maximum pleasure, comfort and safety. It has been manufactured with the utmost care using quality materials and components to provide years of trouble-free operation.

Should you notice a defect in spite of this care, we commit to rectifying the situation. However, as a user, you also have an important role to play in getting the satisfaction you expect from your Stûv.

### We strongly recommend:

- having the unit installed by a qualified professional who can ensure that the installation of the appliance and the integrity of the chimney are in compliance with the certifications and the building code,
- carefully reading the operating and maintenance instructions,
- having the chimney swept regularly (once per heating season, for regular use) to ensure optimal operation and maximum safety.

## 8.2 WARRANTY FORM



### THE APPLIANCE

Serial no.: \_\_\_\_\_

Model: \_\_\_\_\_

Invoice date: \_\_\_\_\_

Installation date: \_\_\_\_\_

\*The serial number can be found on the marking label at the bottom of the combustion chamber. The location of the label is indicated on the first page of the *CERTIFICATION* section..

### THE INSTALLER

I, the undersigned,  
declare that the above-mentioned appliance has been installed in  
compliance with the existing regulations and in accordance with the  
technical recommendations in the installation instructions.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Tel no.: \_\_\_\_\_

### THE DEALER

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Tel no.: \_\_\_\_\_

### THE BUYER

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Tel no.: \_\_\_\_\_

Installation address (if different): \_\_\_\_\_

### PLEASE FILL OUT THIS FORM AND SEND IT TO US VIA:

Our website: **stuvamerica.com**  
On the Warranty and Product Registration page

**Stûv America Inc.**  
34, Boulevard de l'Aéroport  
Bromont Québec J2L 1S6 Canada

Email : **info@stuvamerica.com**  
Tel.: +1 -866-487-7888  
Fax: +1 -514-528-9538



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Stûv stoves are designed by:

Stûv sa – Belgique  
[stuv.com](http://stuv.com)

Rue Jules Borbouse n°4 B-5170  
Bois-de-Villers

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And manufactured in North America by:

Stûv America inc. – Canada  
[stuvamerica.com](http://stuvamerica.com)

34, Boulevard de l'Aéroport  
Bromont QC Canada J2L 1S6

1-514-396-3463 | 1-866-487-7888