

This manual contains specific precautions related to worker safety. The hazard alert image denotes safety related instructions and warnings in this manual. **DO NOT** install or perform maintenance on this product until you have read and understood the instructions, precautions and warnings contained within this manual.

## Donaldson BOFA Technical Service

If a problem arises with your Shield, please:

- Visit our website at [donaldsonbofa.com](https://donaldsonbofa.com) for online help.
- Or contact the helpline:
  - ROW: +44 (0) 1202 699 444 (Mon-Fri 9am-5pm GMT)
  - US: +1 (618) 205 5007 (Mon-Fri 9am-5pm CST).
- Email:
  - ROW: [bofatechnical@donaldson.com](mailto:bofatechnical@donaldson.com)
  - US: [bofatechnicalus@donaldson.com](mailto:bofatechnicalus@donaldson.com)





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# 1 Warnings

## 1.1. Important safety notes

Concerning symbols referred to within this manual.

Symbol	Meaning	
	WARNING	Refers to a possibly dangerous situation. If not avoided, it could result in death or severe injury. Please consult the manual when this symbol is displayed.
	CAUTION	Refers to a possibly harmful situation. If not avoided, damage could be caused to the product or something in its environment.
	IMPORTANT (refer to manual)	Refers to handling tip and other particularly useful information. This does not signify a dangerous or harmful situation. Refer to manual when this symbol is displayed.
	TWO-PERSON LIFT	Refers to a manual lifting technique where two people work together to safely lift and move a heavy or bulky object.

### EU Declaration

The enclosure has been designed to meet the essential health and safety requirements of the Machinery Directive 2006/42/EC. For the full DOC and further information please contact the technical team:

- US: [bofatechnicalus@donaldson.com](mailto:bofatechnicalus@donaldson.com)
- ROW: [bofatechnical@donaldson.com](mailto:bofatechnical@donaldson.com)




### Electrical safety

Power and signal cables entering the enclosure must pass through the rear mounted grommets. The grommets prevent the cables contacting the metal enclosure.

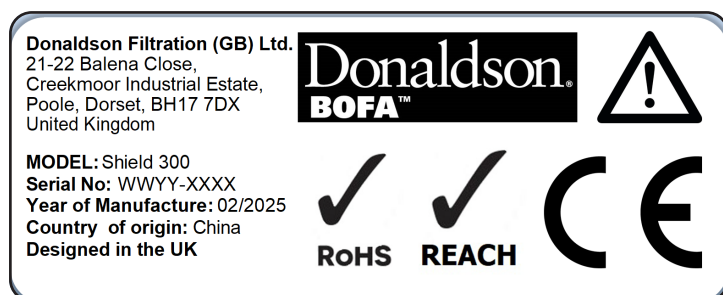
### Intended use

This enclosure is designed to work with an extraction system to help reduce potential exposure to nanoparticles and VOCs released during 3D printing processes. The enclosure is suitable for a wide variety of 3D printers such as resin and extrusion-based 3D printers.

An extraction system can be connected via a 1.96" (50 mm) spigot located at the rear of the enclosure. Consult your local Donaldson BOFA representative to discuss the specific application and select a suitable system.

	WARNING	This enclosure is not intended to provide a machine guarding capability. The enclosure must be located on a level non-slip surface, capable of supporting the combined weight of the enclosure and additional accessories. The height of the enclosure must be appropriate for its intended use.
	WARNING	Before using the enclosure, please refer to the 3D printer user manual for proper setup, operation, and safety guidelines. Incorrect use may result in overheating, ventilation issues, or damage to your printer.
	WARNING	Maximum 3D printer weight including accessories is 66 lbs (30 kg).

## 1.2. Serial number label



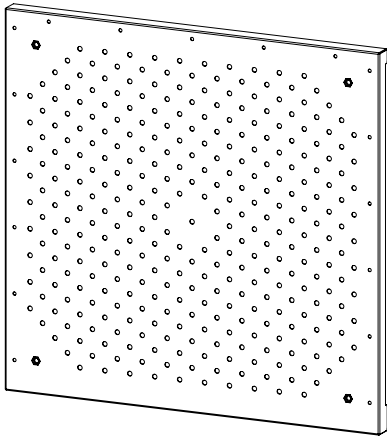
**Location:** Bottom right of rear panel.

**Meaning:** This label contains a variety of information about the enclosure, including:

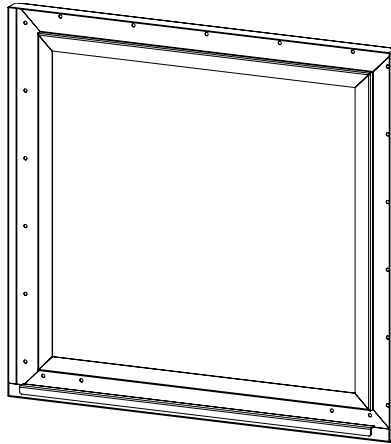
- Company name, address and contact number
- Model name
- Serial number
- Year of manufacture
- Relevant approval markings/logos

## 2 List of parts

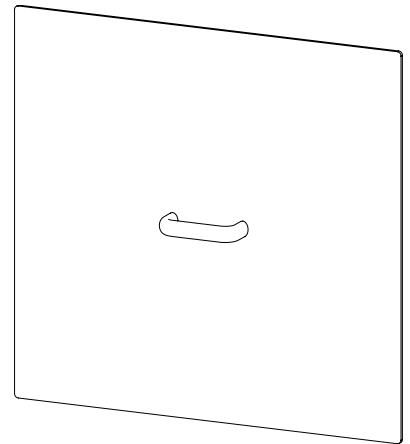
A x 1



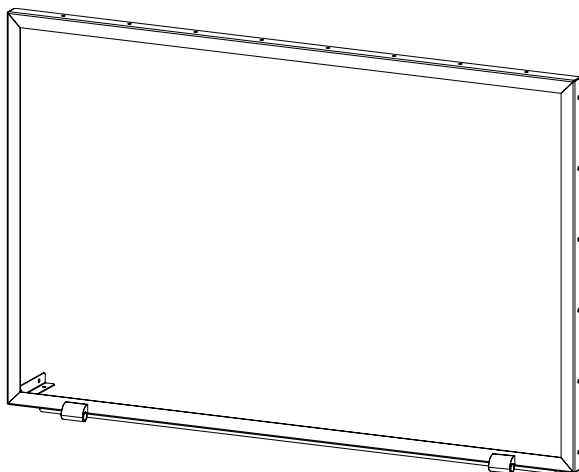
B x 1



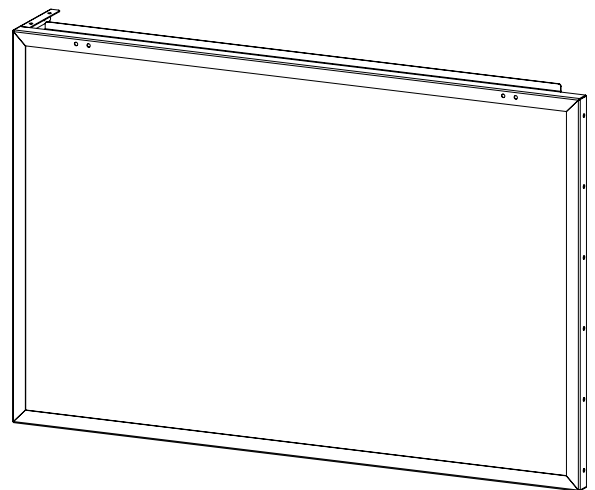
C x 1



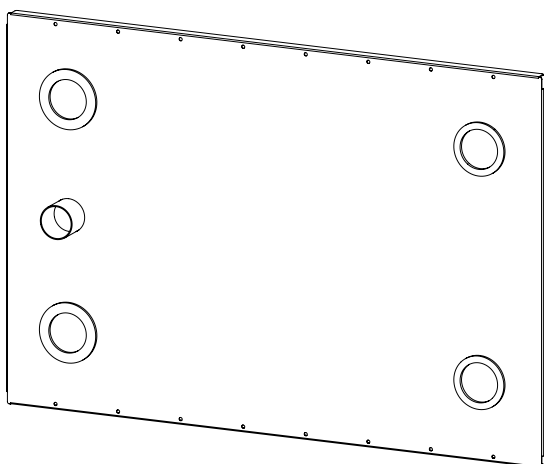
D x 1



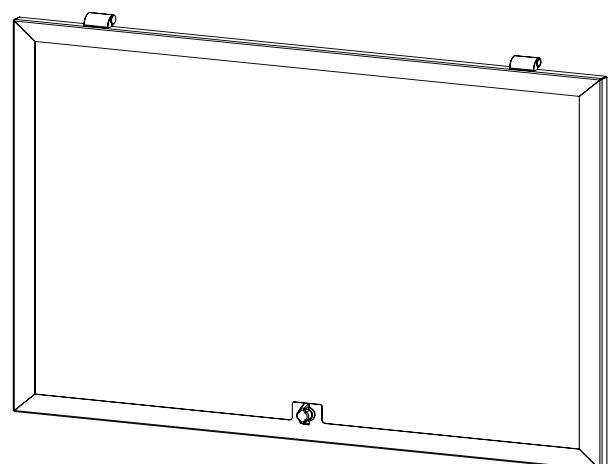
E x 1



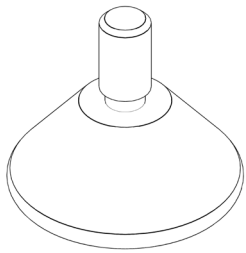
F x 1



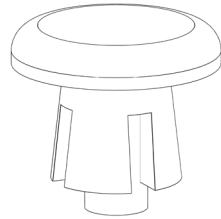
G x 1



H x 4



I x 56



J x 2

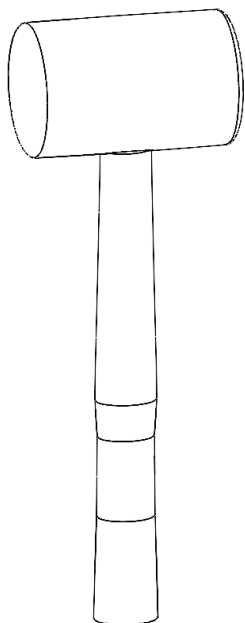


## 2.1. Index

Description:	Parts:
Base	A
Top frame	B
Top lid	C
Right panel	D
Left panel	E
Back panel	F
Door	G
Feet	H
Snap rivets	I
Hinge pins	J

### 3 List of tools

Mallet x 1

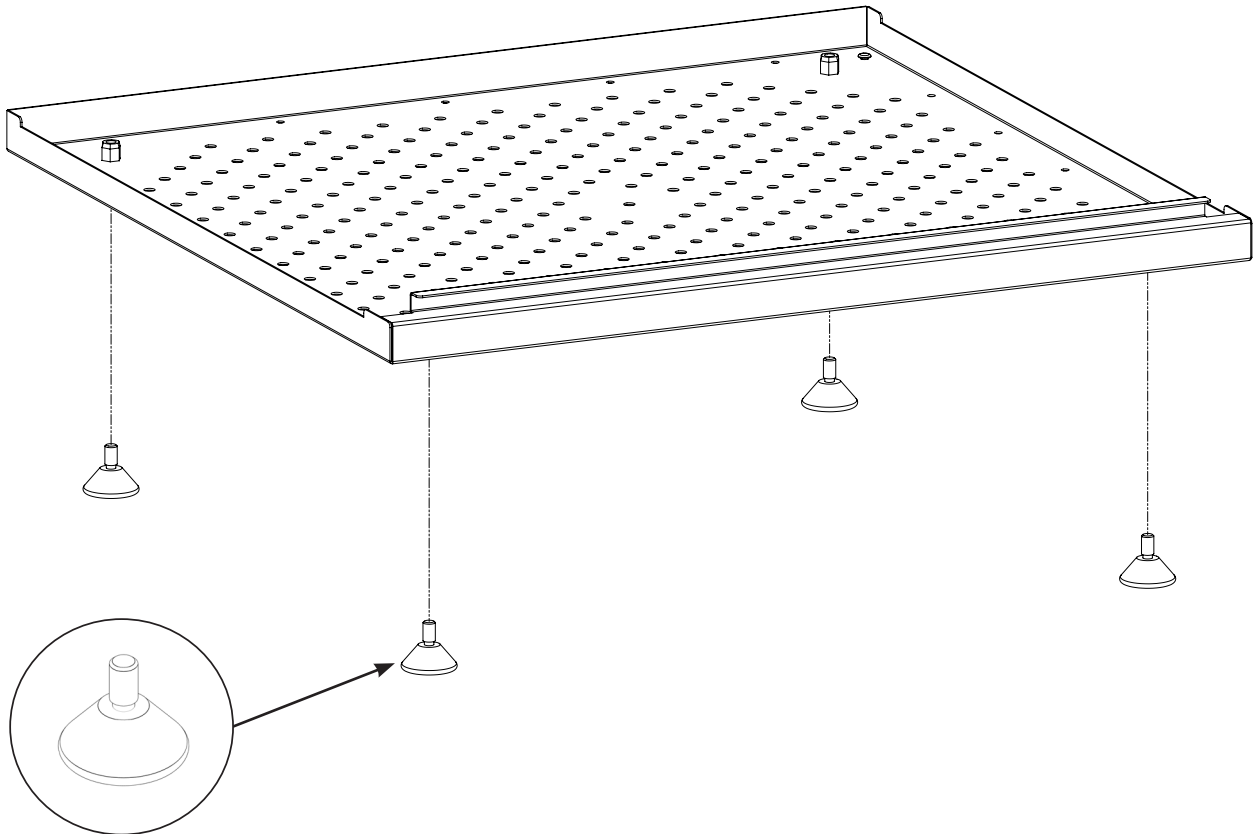




## 4 Assembling steps: Option 1 – right-hand opening

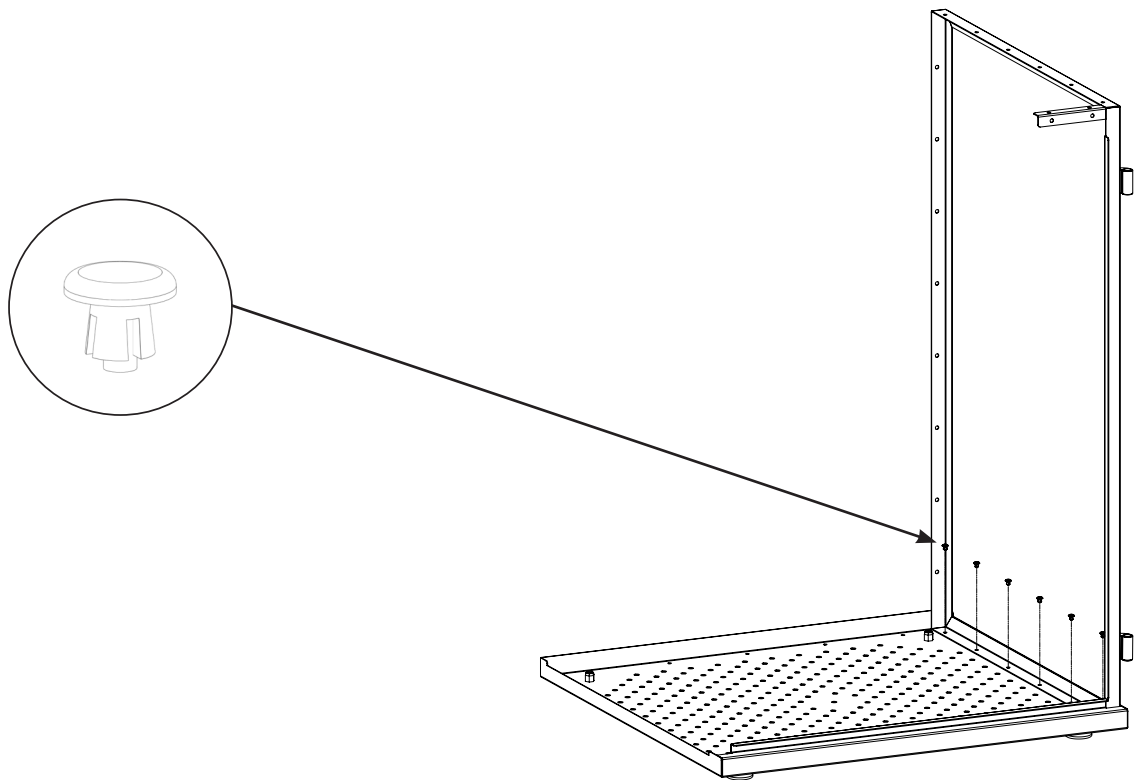
### 4.1. Step 1: Affix feet into base

Use part A x 1 and H x 4.



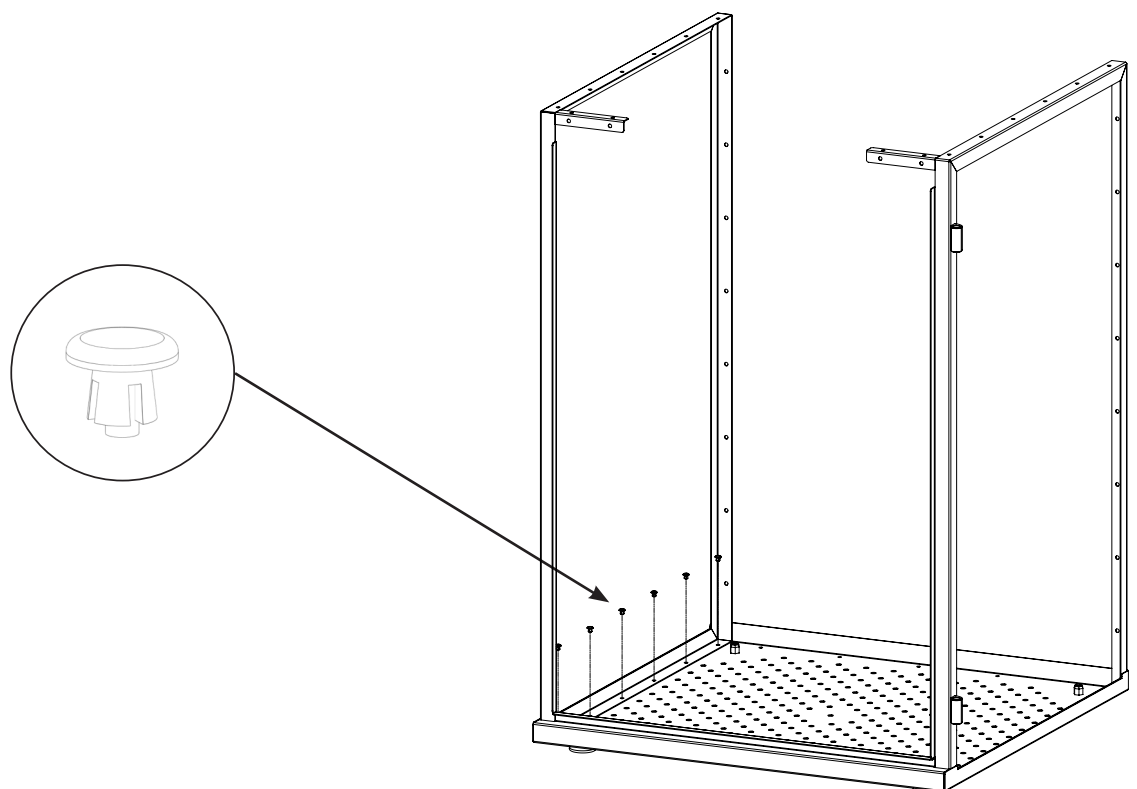
#### 4.2. Step 2: Secure right panel into base

Use part D x 1 and I x 6.



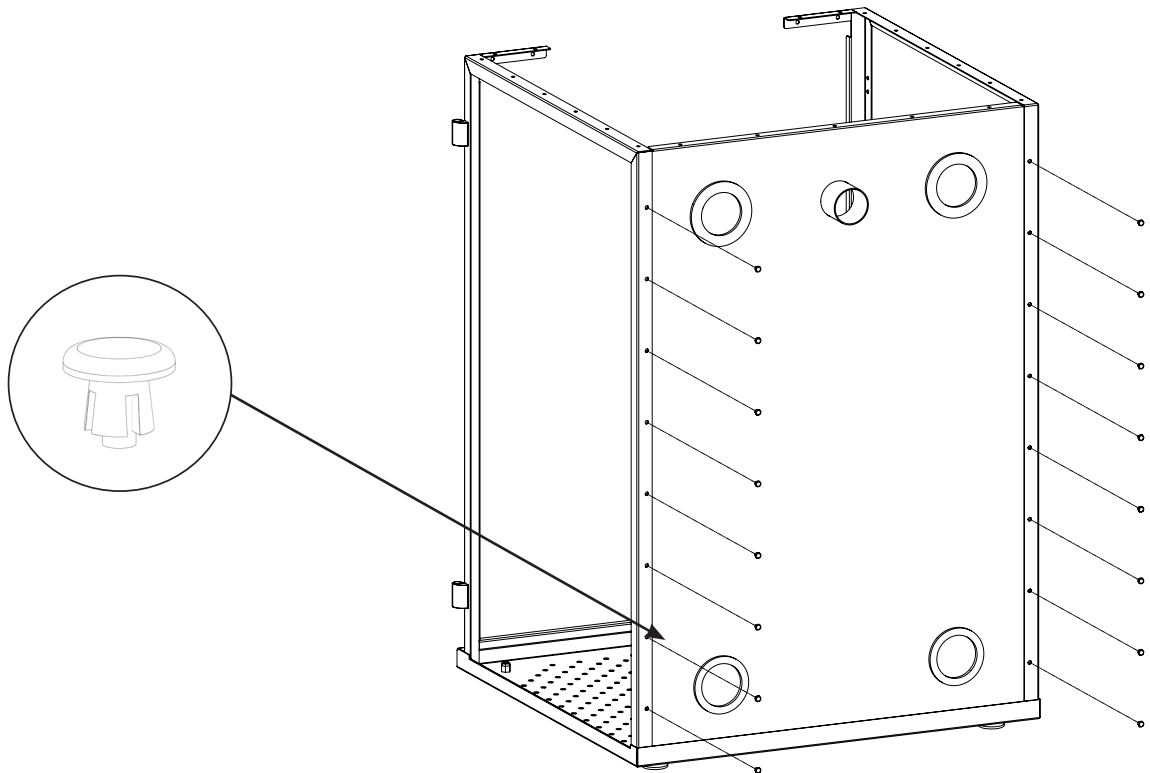
#### 4.3. Step 3: Secure left panel into base

Use part E x 1 and I x 6.



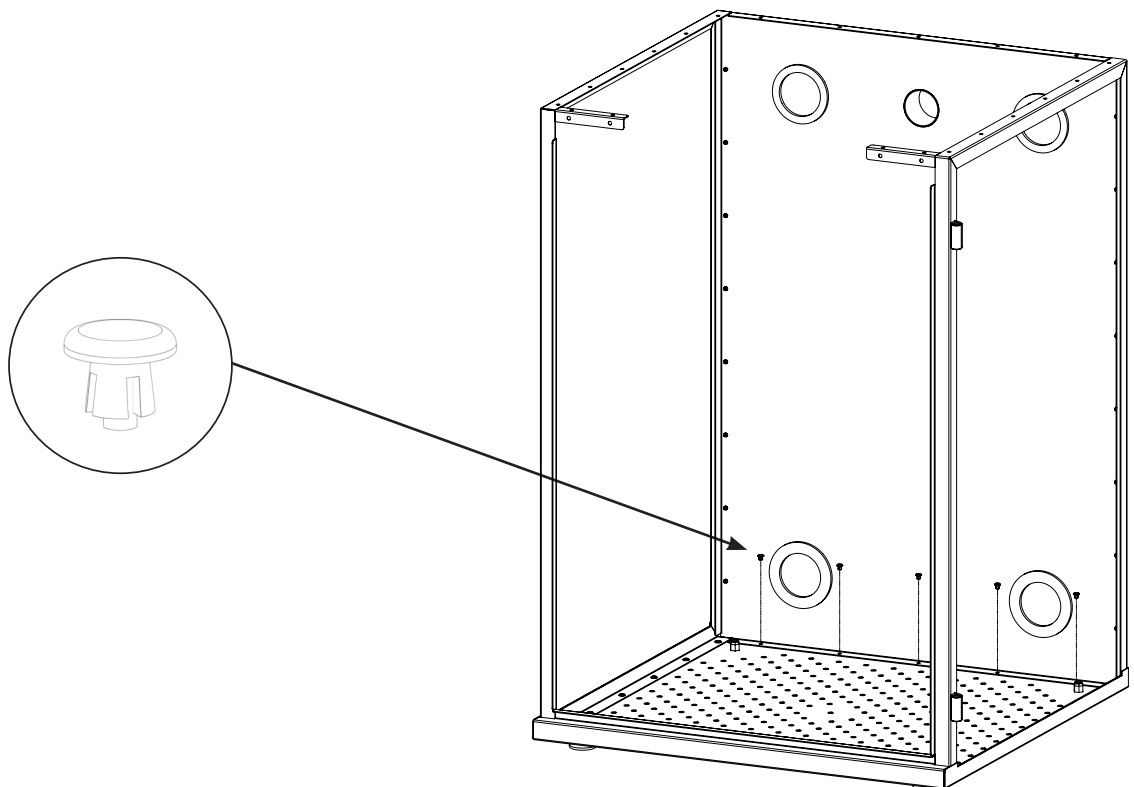
#### 4.4. Step 4: Secure back panel into side panels

Use part F x 1 and I x 16.



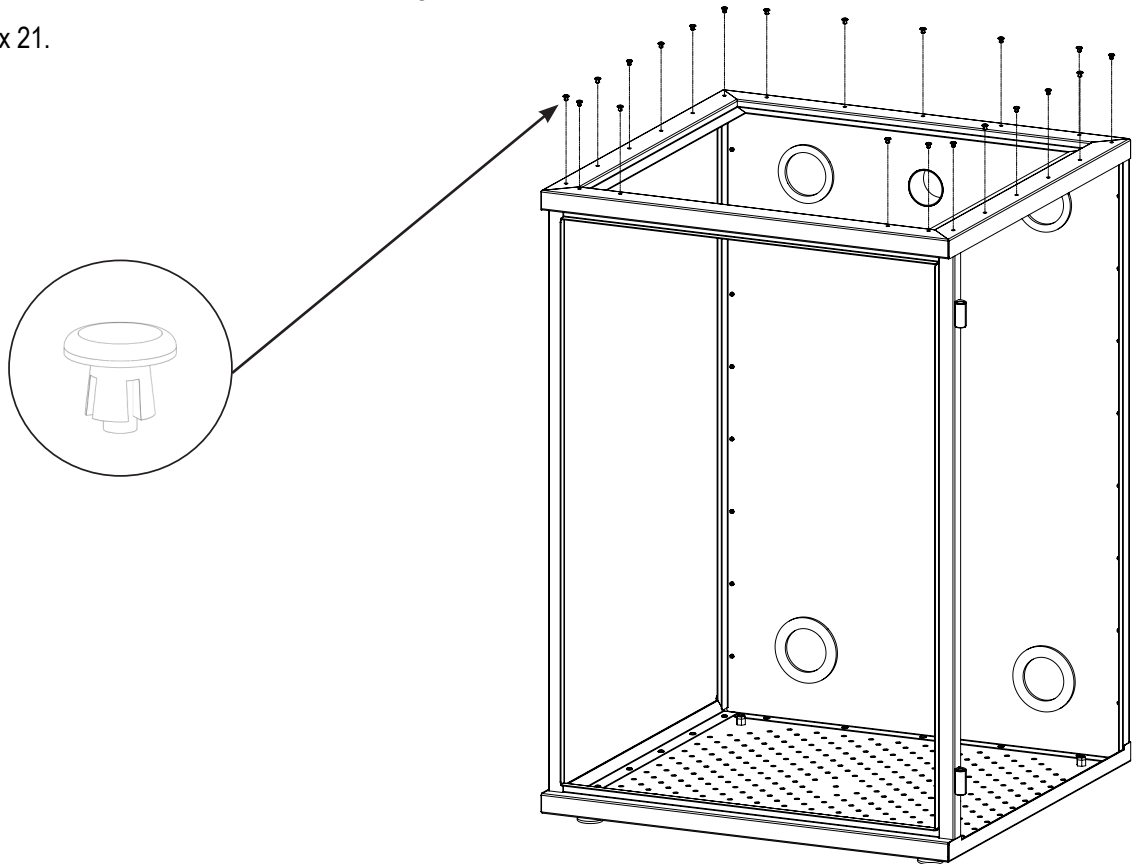
#### 4.5. Step 5: Secure back panel into base

Use part I x 5.



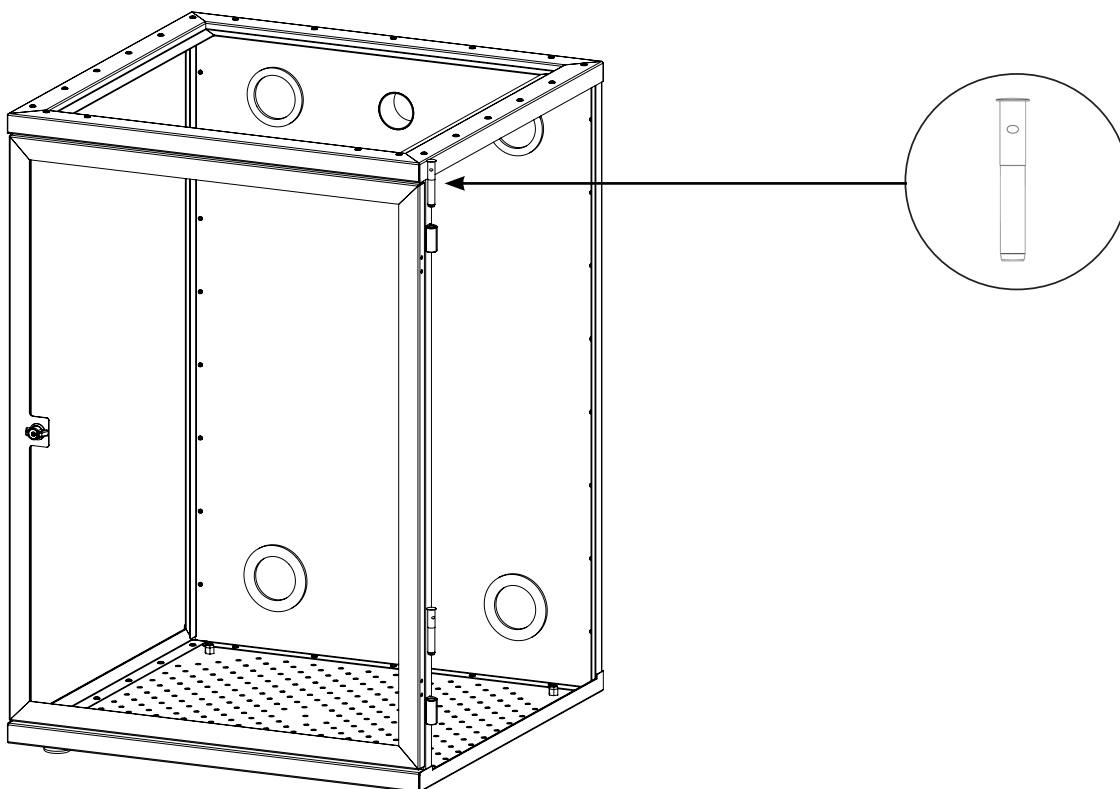
**4.6. Step 6: Secure top frame onto assembly**

Use part B x 1 and I x 21.



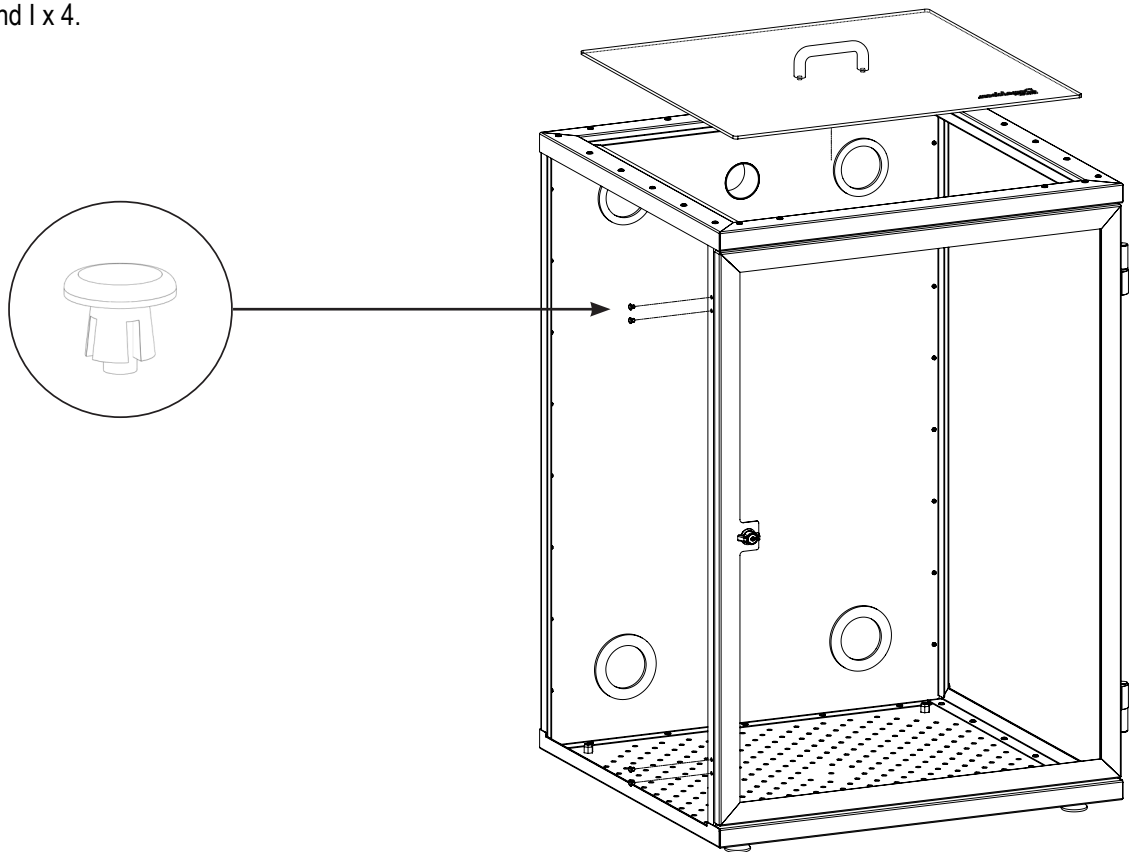
**4.7. Step 7: Attach door panel on the right panel**



Use part G x 1 and J x 2.



#### 4.8. Step 8: Secure top lid onto assembly

Use part C x 1 and I x 4.

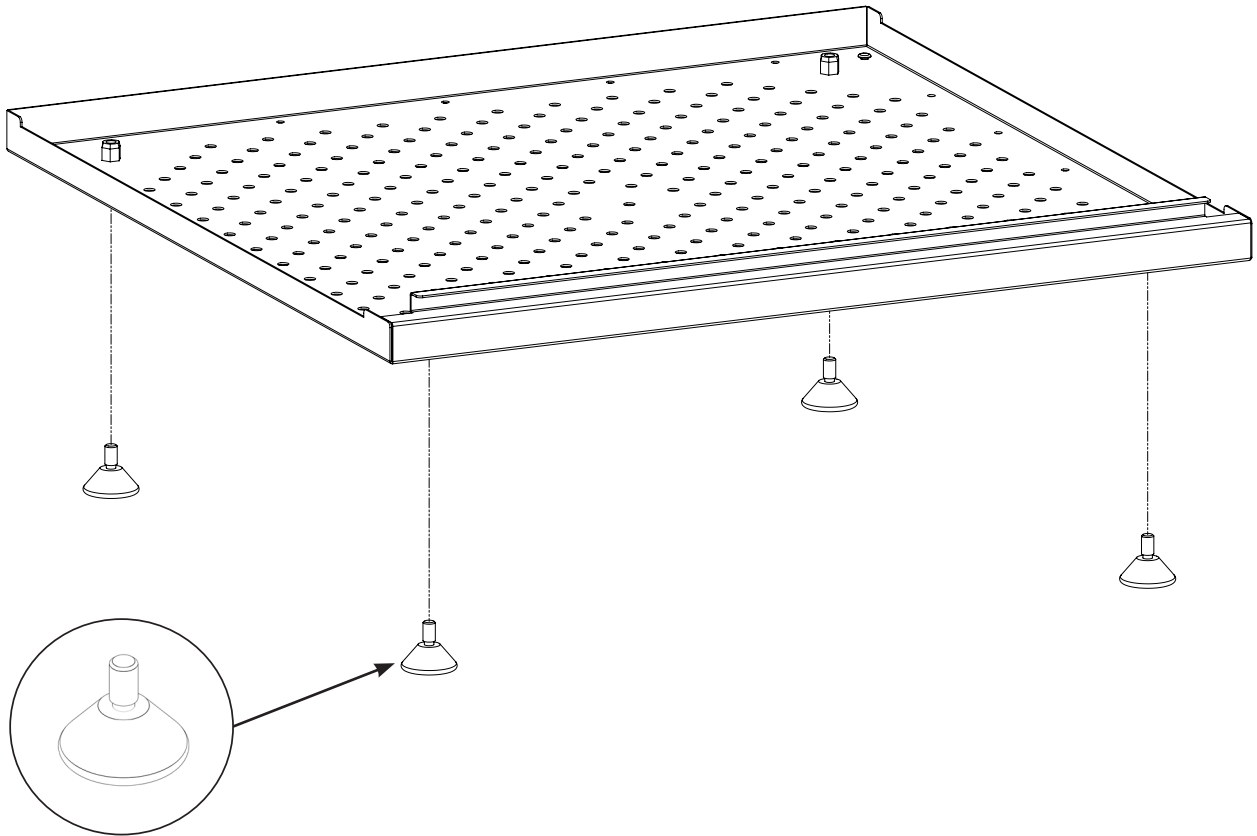


	<b>CAUTION</b>	Due to the weight of the enclosure, suitable lifting equipment should be used and appropriate safety precautions taken (refer to the datasheet for product weight detail).
	<b>TWO-PERSON LIFT</b>	This enclosure requires a two-person lift technique to ensure safe handling, prevent injuries, and maintain stability during transport or installation.

## 5 Assembling steps: Option 2 – left-hand opening

### 5.1. Step 1: Affix feet into base

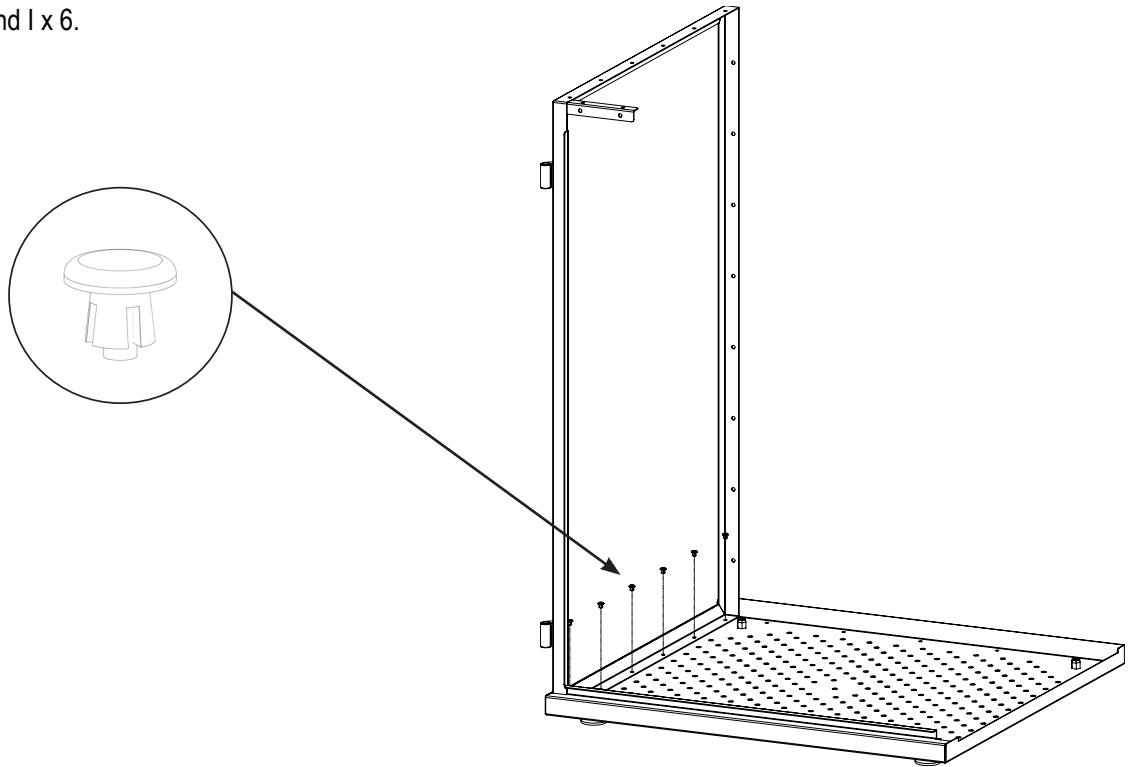
Use part A x 1 and H x 4.



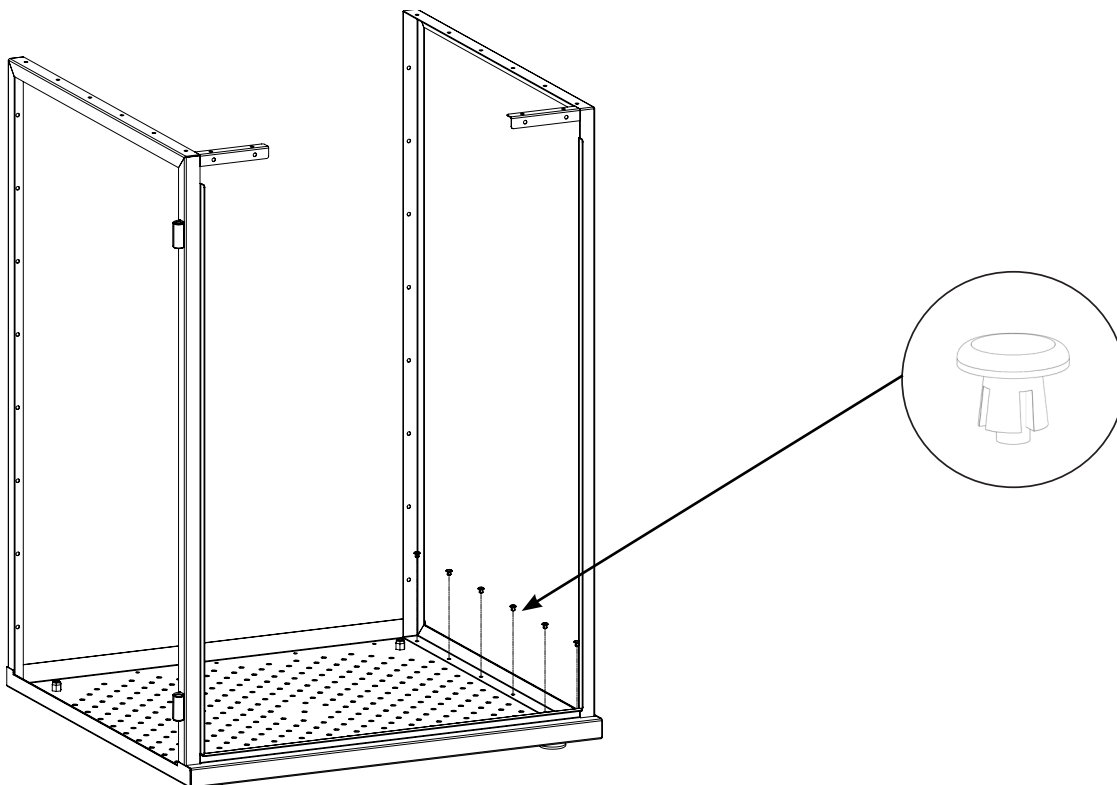
**5.2. Step 2: Secure left panel into base**

Remove hinges from part D and affix to part E.

Use part E x 1 and I x 6.

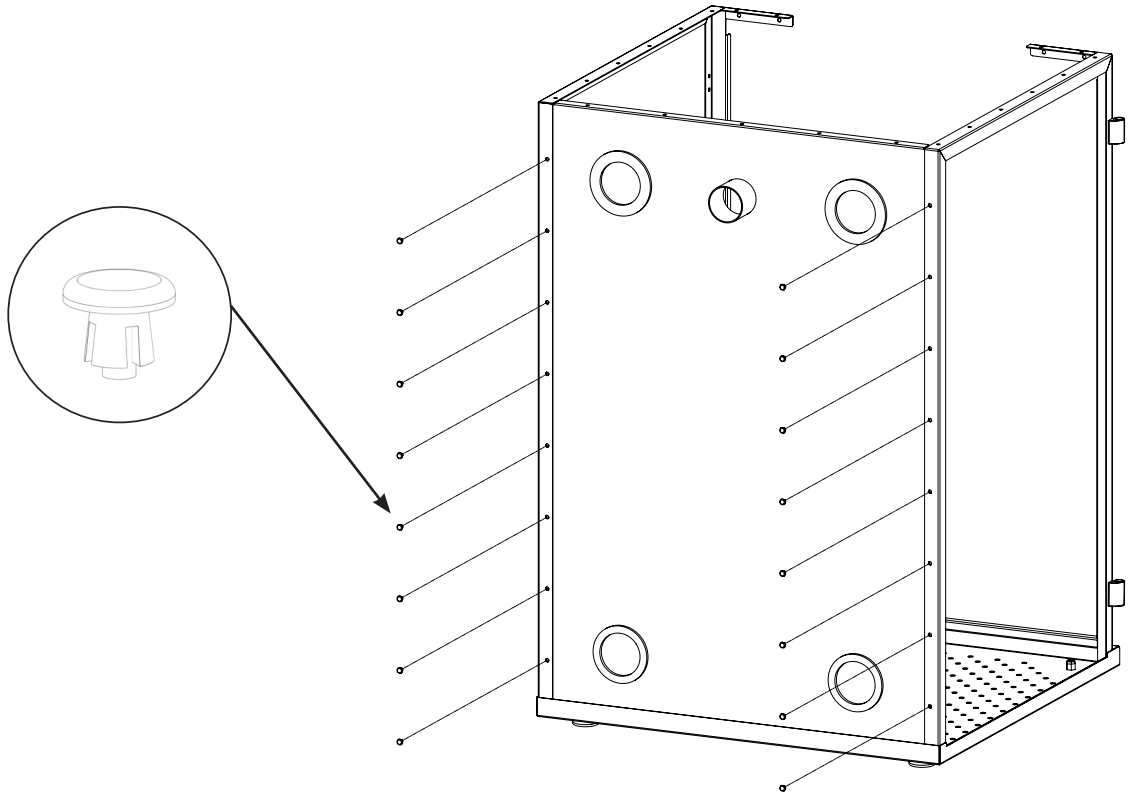
**5.3. Step 3: Secure right panel into base**

Use part D x 1 and I x 6.



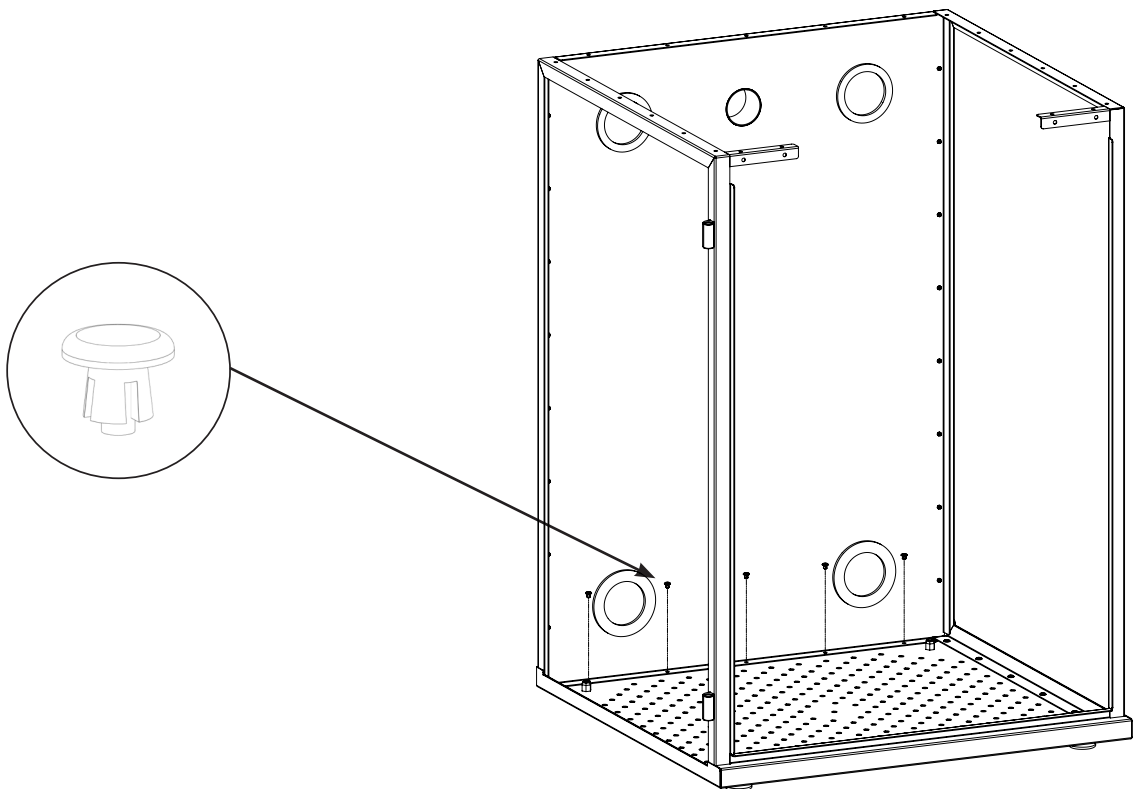
**5.4. Step 4: Secure back panel into side panels**

Use part F x 1 and I x 16.



**5.5. Step 5: Secure back panel into base**

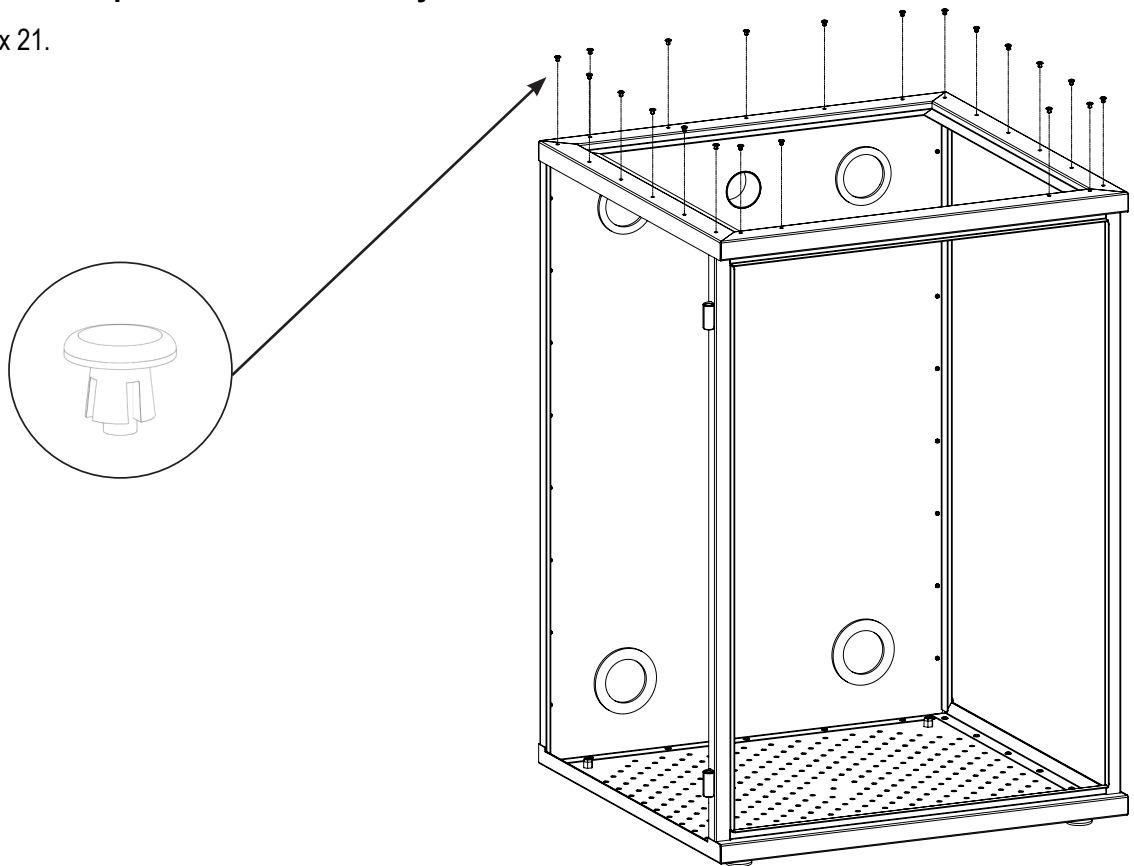
Use part I x 5.



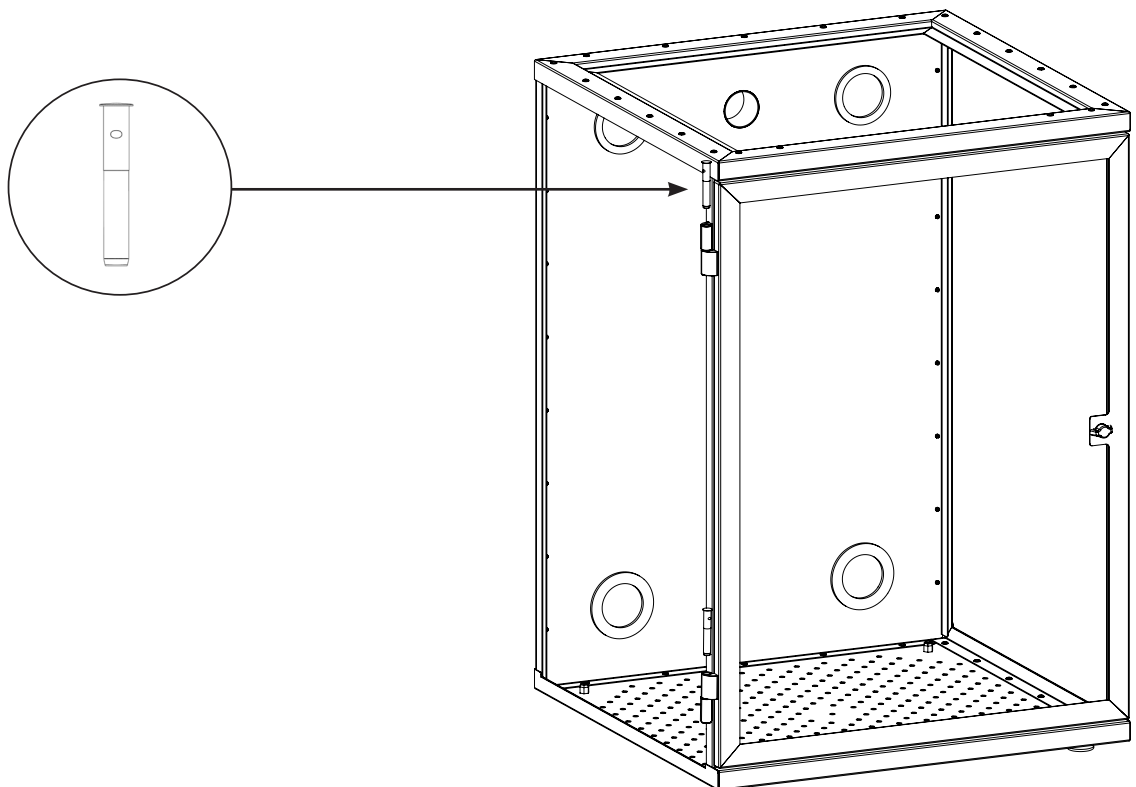


**5.6. Step 6: Secure top frame onto assembly**

Use part B x 1 and I x 21.

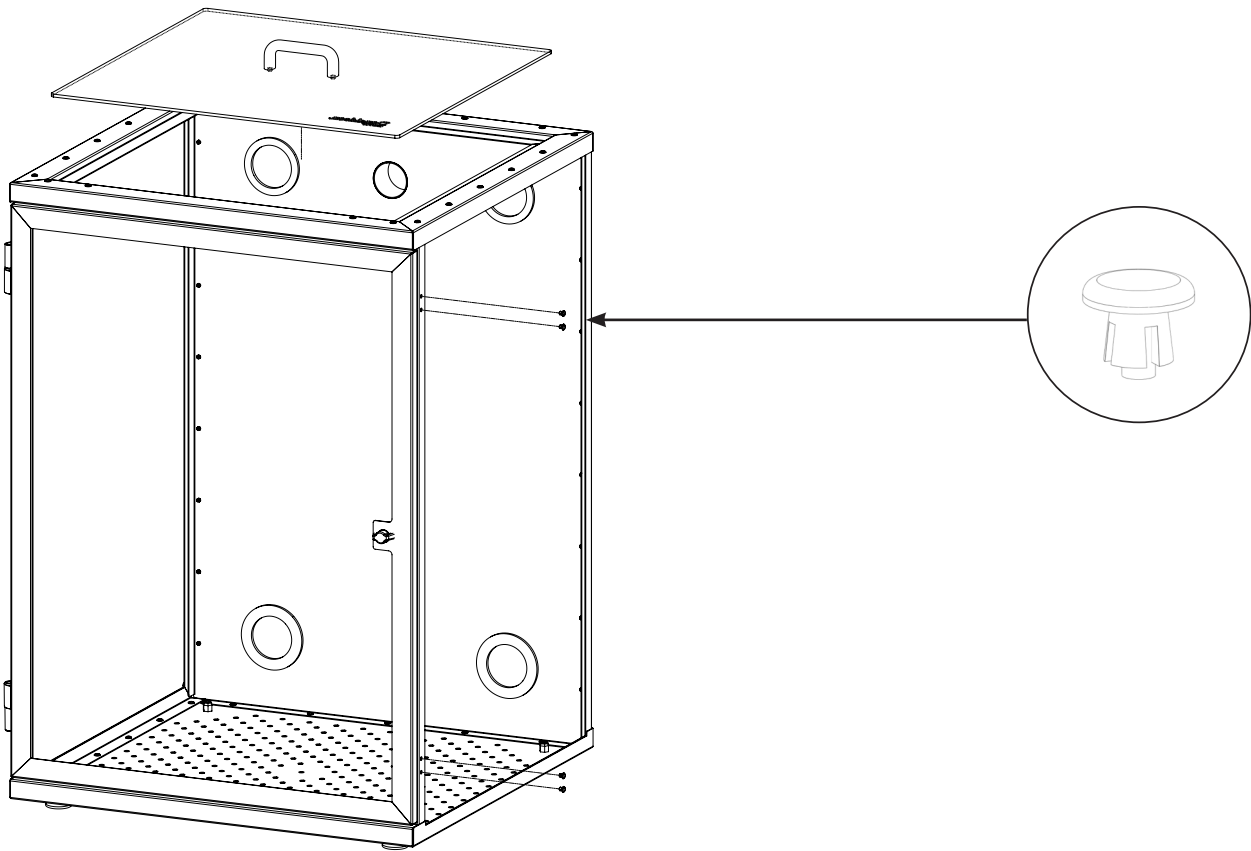
**5.7. Step 7: Attach door panel on the left panel**



Use part G x 1 and J x 2.



**5.8. Step 8: Secure top lid onto assembly**

Use part C x 1 and I x 4.



	<p><b>CAUTION</b></p>	<p>Due to the weight of the enclosure, suitable lifting equipment should be used and appropriate safety precautions taken. The total weight of the assembled system is 49 lbs (22 kg).</p>
	<p><b>TWO-PERSON LIFT</b></p>	<p>This enclosure requires a two-person lift technique to ensure safe handling, prevent injuries, and maintain stability during transport or installation.</p>

## 6 Replacement parts

### 6.1. Consumable spares

To reorder, please see part numbers below:

Description:	Part Numbers:
Cable entry grommets	1UA1060380
Replacement door locks kit	1UA1060162
Replacement feet	1UA1060030
Plastic molded hinge	1UA1060285
Snap rivets	1UA1060322
Nylon handle	1UA1060324

### 6.2. Cleaning, disassembly and disposal

#### 6.2.1. Cleaning

The powder-coated finish can be cleaned with a damp cloth and non-aggressive detergent, do not use an abrasive cleaning product as this will damage the finish.

#### 6.2.2. Disassembly

The Shield disassembly is the reverse of assembly. Use a flat-blade screwdriver or prising tool to remove the fixings.

#### 6.2.3. Disposal

At the end of the product life, all parts should be cleaned and recycled following local government guidance.

## 7 Contact information

### Donaldson BOFA head office – UK & ROW:

19-20 Balena Close  
Creekmoor Industrial Estate  
Poole  
Dorset  
BH17 7DU  
United Kingdom

**Tel.** +44 (0) 1202 699 444  
**Email:** [bofasales@donaldson.com](mailto:bofasales@donaldson.com)

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### Donaldson BOFA German office:

**Email:** [bofavertrieb@donaldson.com](mailto:bofavertrieb@donaldson.com)

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### Donaldson BOFA US office:

303 S Madison Street  
Stanton, Illinois  
62088 USA

**Tel.** +1 (618) 205 5007  
**Email:** [bofasalesus@donaldson.com](mailto:bofasalesus@donaldson.com)