



ASSEMBLY INSTRUCTIONS
NOTICES D'ASSEMBLAGE



Senturion 247



Senturion 447

IMPORTANT: READ PRIOR TO ASSEMBLY

TRIMETALS LTD

Quality Assured to BS EN ISO 9001:2000

SENTURION RANGE OF LPG CYLINDER STORES

FACT SHEET (Issue 1.3 Revised 22nd July 2013)

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1. Introduction

The Trimetals Senturion range of LPG cylinder stores have been designed and manufactured in the UK to meet the current Codes of Practice as specified by the LP Gas Association (which adopts the recommendations of BSI, CEN and ISO) and conform to the British Standards associated with these Codes of Practice.

2. Location of Senturion LPG Cylinder Stores

IMPORTANT: Our gas cylinder stores are not to be used within a building - they are intended for exterior use only.

1. Stores must be placed no closer than 1m from any building, opening into building, boundary or fixed ignition source. Note that our largest product has a 188kg maximum capacity.
2. There should be no openings into buildings, cellars or pits within 2m of the store. If a gully or drain is unavoidable within 2m the opening should be securely covered or fitted with a suitable water seal to prevent the entry of vapor.
3. There should be no build up of rubbish, dry leaves, small bushes or other material which might easily catch fire nor should any electrical equipment or installation be used within 3m of the store.

4. Stores must not be closer than 3m from a vessel containing flammable liquid, vent pipes or dispensers for flammable liquids, compressed gas cylinders including acetylene or any other explosive materials.
5. Stores must not be placed as to obstruct any walkway or emergency escape routes.
6. Safe means of access should be provided to permit the easy introduction and removal of cylinders and to allow access for emergency services.
7. Stores must be secured in position by means of bolting to a hard dry surface e.g. concrete.
8. Stores must be placed at least 10m from power cables that are 1.0kv or more.
9. Stores must be at least 3m from parked cars.
10. Please note that not more than 50kg of cylinders (with Pressure Reducing Valves) can be stored within 7.5m of liquid oxygen.

3. Product Specification

A) Construction materials - all Senturion models are constructed using a combination of fire-resistant pvc coated and standard galvanised steel panels. Fixings are all stainless steel with the exception of hinges and rivets which are aluminium. To conform to the Code of Practice 7 the internal surfaces of every side, top, floor and door/ lid has a Class 0 rating when tested in accordance with BS 476: Pt 7 (Surface spread of flames) and BS 476: Pt6 (Fire Propagation). The supporting structure also exceeds the 30 minute fire resisting construction stability.

B) In accordance with the LP Gas Association Code of Practice 24 - Part 1: 2006, Code of Practice 7 and BS 5482-1: 2005 all Senturion units:

1. have an opening of a size which will permit the easy introduction and removal of cylinders;
2. offer at least the minimum effective ventilation required in the base and upper sections. The total area of the opening of the upper section being at least 1/100 of the floor area of the unit and that in the base being 5/100 of the floor area of the unit. The ventilation openings are also at least 2.5% of the combined area of the walls and roof;
3. have an integral metal base with sufficient strength to resist deformation under the load of full cylinders;
4. have been designed to ensure that the cylinder valves remain easily accessible and are not obstructed within the unit.

5. are supplied with external notices / signs indicating the safe operation of the unit and actions to be taken in the event of a fire including the location of a keyholder should the unit be locked shut. The signs state:

IMPORTANT

**LPG is stored in this area; Contents highly flammable; No smoking or naked flames; Do not obstruct vents; No other items to be stored within; Keep surrounding area clear;
To be used only at or above ground level; Keep locked when not in use; The keyholder is.....(to be completed by user).**

IN THE EVENT OF A GAS LEAK OR SUSPECT LEAK

Extinguish all naked flames and ignition sources; Turn off all gas appliances; Do not switch on or off any electrical equipment; Turn off gas supply at cylinders; Open this storage unit fully to increase ventilation; Notify the gas supplier.

IN THE EVENT OF A FIRE

Raise the alarm and activate any fire alarm; Call the fire brigade immediately and tell them that LPG cylinders are involved; Do not go near cylinders in the vicinity of any fire; Turn off the gas supply if practicable and safe to do so; Contact a key holder; Do not turn on the gas supply until it has been made safe to do so by a competent person.

Note: it would be expected that a premises has its own emergency procedure to concern a fire or leaking LPG cylinder. Also staff / residents should receive adequate training to enable them to understand the fire precautions and actions to be taken in the event of an emergency.

4. Declaration of conformity, compliance information

All Trimetals Senturion range of LPG cylinder stores meet the following requirements or recommendations:

COMPLIANCE INFORMATION

- A) BS 5482 Part 1 2005 (Code of Practice for Domestic Butane and Propane gas burning installations.**
- B) BS476-22:1987 (Fire Resistance of materials used in product construction).**
- C) LP Gas Association Code of Practice 24: Part 1 - Use of LPG Cylinders: Use of LPG Cylinders at Residential and Similar Premises (July 2006).**
- D) LP Gas Association Code of Practice 7 - Storage of Full and Empty LPG Cylinders and Cartridges (March 2004).**
- E) Class 0 and Class 1 (Fire Rating of materials used in product construction).**

5. Maximum Cylinder Capacity

Senturion 447 – 4 x 47kg cylinders

Senturion 247 – 2 x 47kg cylinders

Senturion 151319 – 2 x 19kg cylinders

Sentinel LPG – 2 x 19kg cylinders

6. Further Reading

It is strongly recommended that the installer and user have read and are familiar with the following publications:

Code of Practice for domestic butane and propane gas burning installations BS5482-1:2005.

LP Gas Association Code of Practice 24: Part 1 - Use of LPG Cylinders: Use of LPG Cylinders at Residential and Similar Premises (July 2006).

LP Gas Association Code of Practice 7 - Storage of Full and Empty LPG Cylinders and Cartridges (March 2004).

IMPORTANT ATTENTION

- A Before commencing assembly check parts in box with illustrations on components page and thoroughly read the assembly instructions.
- B These products must be secured to a hard base e.g. concrete or paving slabs.
- C Extra care should be taken to avoid cuts and abrasions from exposed edges during assembly. We strongly recommend the use of protective gloves.
- D We recommend that two people work on the assembly.
- E Precautions should be taken when storage units are being used in exposed areas subject to high wind speeds. In these circumstances the products should be securely fixed down, locked and care should be taken if they are to be opened to avoid damage.
- F Read all supplied safety information and attach all external safety labels.
- G In the unlikely event that this product has been delivered damaged, there are any parts not included or you are having difficulties with assembly please contact Trimetals direct NOT THE RETAILER. We will endeavour to correct any problems as quickly as possible.

HELP LINE:

Tel: +44(0)1258 459441
Fax: +44(0)1258 480408

ASSEMBLY INSTRUCTIONS (to be read in conjunction with illustrations)



FOR FASTER ASSEMBLY WE RECOMMEND THE USE OF AN ELECTRIC SCREWDRIVER

STEP 1

- Identify part 3 (cylinder base panel) and note that only the 247 base is shown throughout the rest of the instructions - however the assembly of both models (247 and 447) are the same.
- It is recommended that the complete product is fully assembled before securing to a solid surface which must be flat and level. Use the holes provided in the base sections to bolt the product down onto a hard base such as concrete using anchor bolts or similar (not supplied).

STEP 2

- From now on all fasteners should be loosely fixed. Do not fully tighten them until you are told to do so.
- **When you see the Red Spanner icon tighten indicated fasteners.** 
- All bolts on this page are part 14 and all nuts are part 36.

STEP 3

- Remember to only loosely fix the fasteners until you are told to tighten them.
- Be sure to place part 34 the correct way round - see small detailed diagram.

STEP 4

- Part 41 is only used on the 447 product.

STEP 5

- Ensure that you place part 5 the correct way round and also ensure that the centre back panel (part 6) is placed over the lower back panel (part 20).

STEP 6

- Ensure that you place part 5 the correct way round and also ensure that the top back panel (part 39) is placed over the centre back panel (part 6).

STEP 7

- The left hand link arm part 12L (which is marked by a circle of coloured tape) must be fitted to the left hand side of the unit as shown in the diagram.
- Identify part 12L and feed one washer (part 13) onto it followed by a link arm bracket (part 11). Push both round until they are on the length of tube that has two holes pierced through it and so that the raised end of the bracket (part 11) will be facing away from the unit when attached. Feed the link arm (part 12L) through the hole in the left hand side panel (part 4L) from the outside and then through the side panel stiffener located on the inside of the side panel (part 4L) then feed another washer (13) onto the link arm (part 12L) from the inside and secure the assembly with two clips (part 19) through the two holes provided in the link arm (12L), one on the outside of the unit and one on the inside. Secure the link arm bracket (part 11) with parts 14 and 32.
- Repeat the above procedure to attach the right hand link arm (part 12R).
- In stage 7d make sure the hook on part 16 is facing the side panel (part 4) and do not over tighten the nut (part 35) at any time as the spring lever (part 16) must move freely.

STEP 8

- Slide part 9 into the top rail (part 34) and secure with the end stop (part 23) and thread forming screw (part 17).

STEP 9

- Note that part 27 is placed on the back of door panel.
- The torsion bar (part 9a) should already be in place at the back of the door.
- Push the left hand link arm (12L) through the hole in the side of the door panel (part 9) and into the torsion bar (part 9a), repeat this on the right hand side and twist the bar to line up with the holes (either end) in the link arms then screw in the thread forming screws (part 17) to secure. Do not close the door until these screws are fully tightened.
- Both springs (part 18) are identical; one hooks upwards and the other hooks downwards.
- Note that as fastener packs are standard for all units you may have some fasteners spare after completion of assembly.

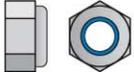
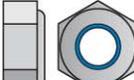
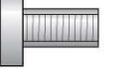
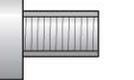
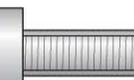
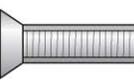
STEP 10

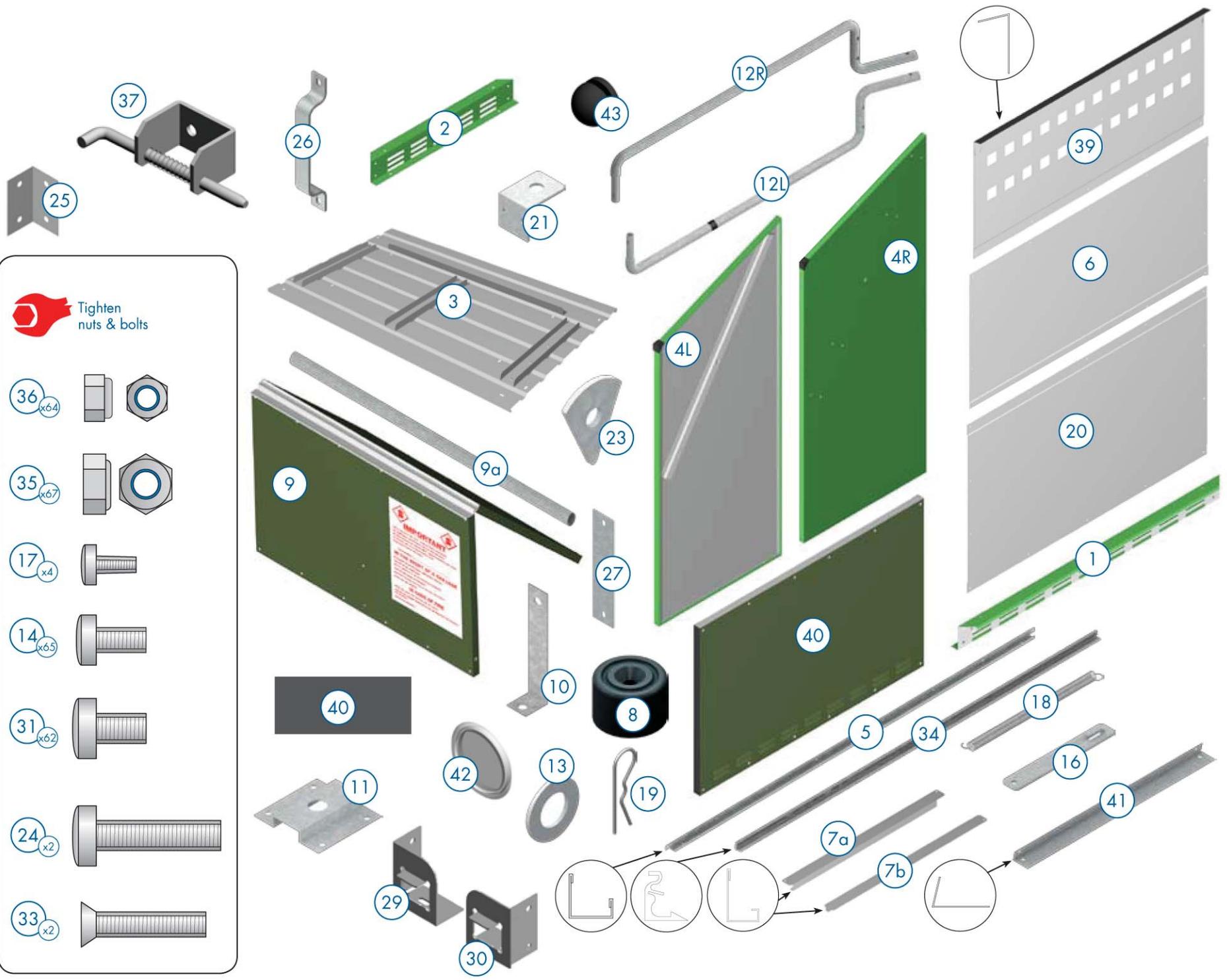
- Remove backing and stick self adhesive safety label to the product as shown.

Part No 247 447

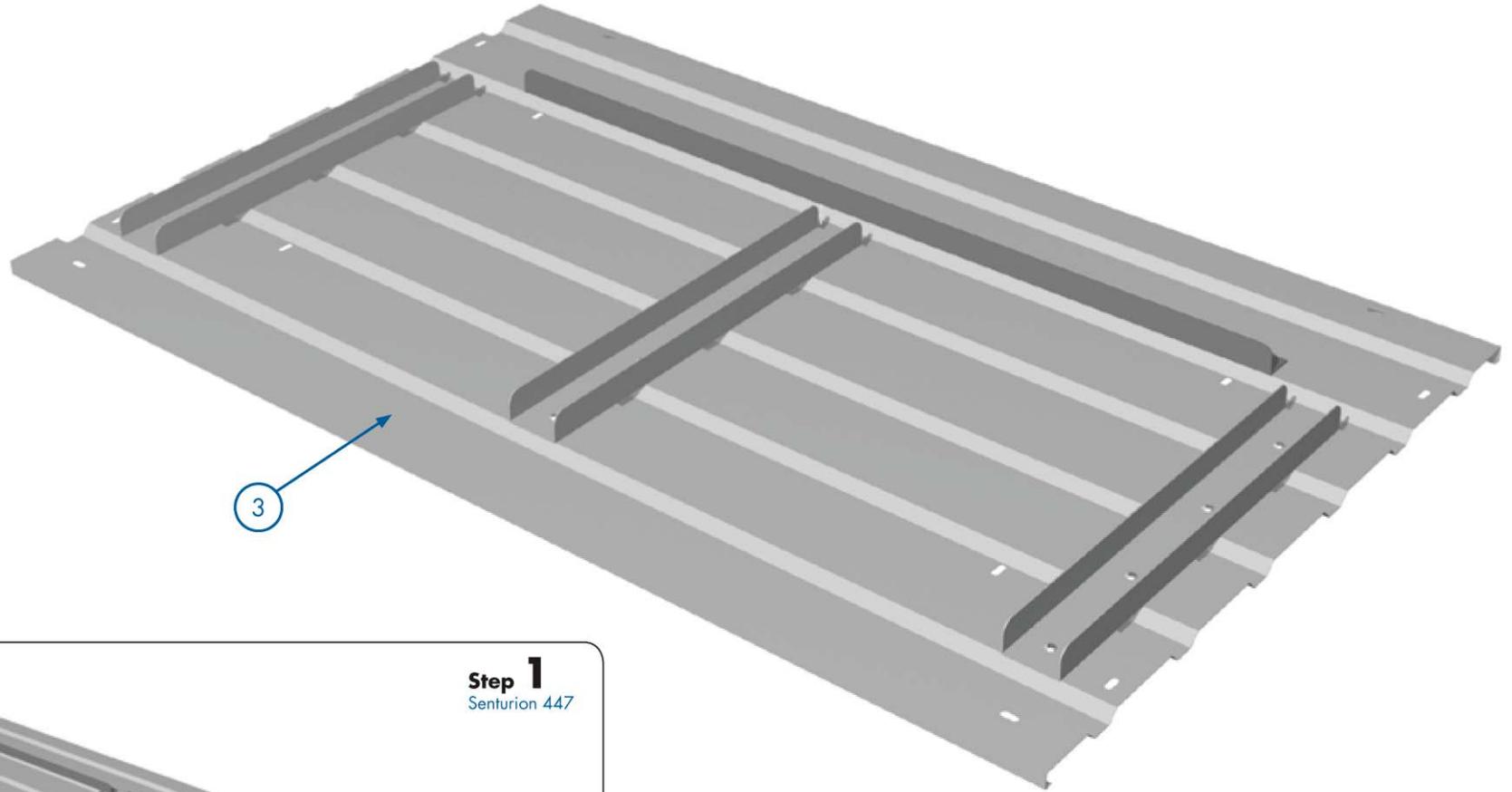
1	x1	x1
2	x2	x2
3	x1	x1
4L	x1	x1
4R	x1	x1
5	x3	x3
6	x1	x1
7a	x1	x1
7b	x1	x1
8	x2	x2
9	x1	x1
9a	x1	x1
10	x4	x4
11	x2	x2
12L	x1	x1
12R	x1	x1
13	x4	x4
16	x2	x2
18	x2	x2
20	x1	x1
21	x2	x2
23	x2	x2
25	x2	x2
26	x1	x1
27	x1	x1
29	x1	x1
30	x1	x1
34	x1	x1
37	x2	x2
39	x1	x1
40	x1	x1
41	-	x1
42	x1	x1
43	x6	x6

 Tighten nuts & bolts

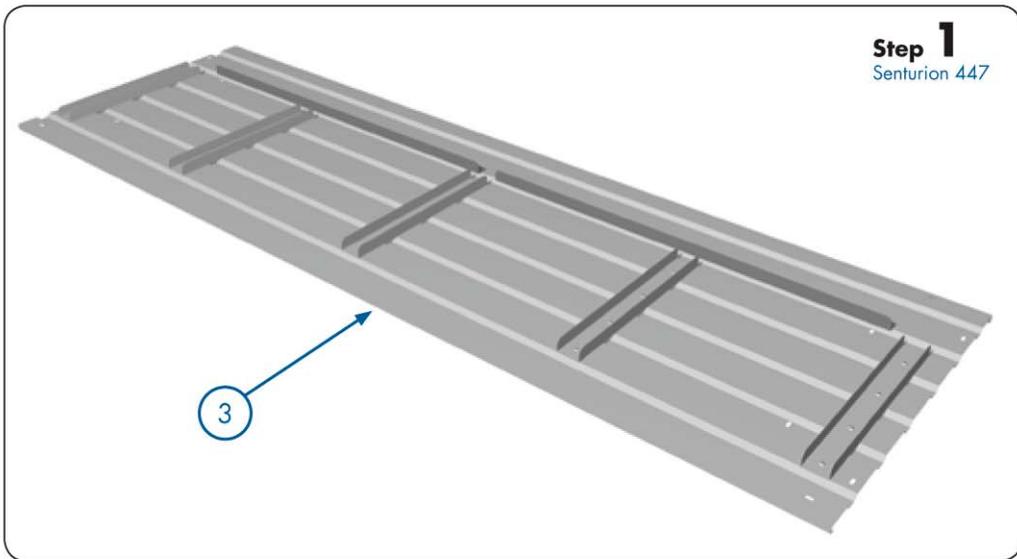
-   36_{x64}
-   35_{x67}
-  17_{x4}
-   14_{x65}
-   31_{x62}
-   24_{x2}
-   33_{x2}



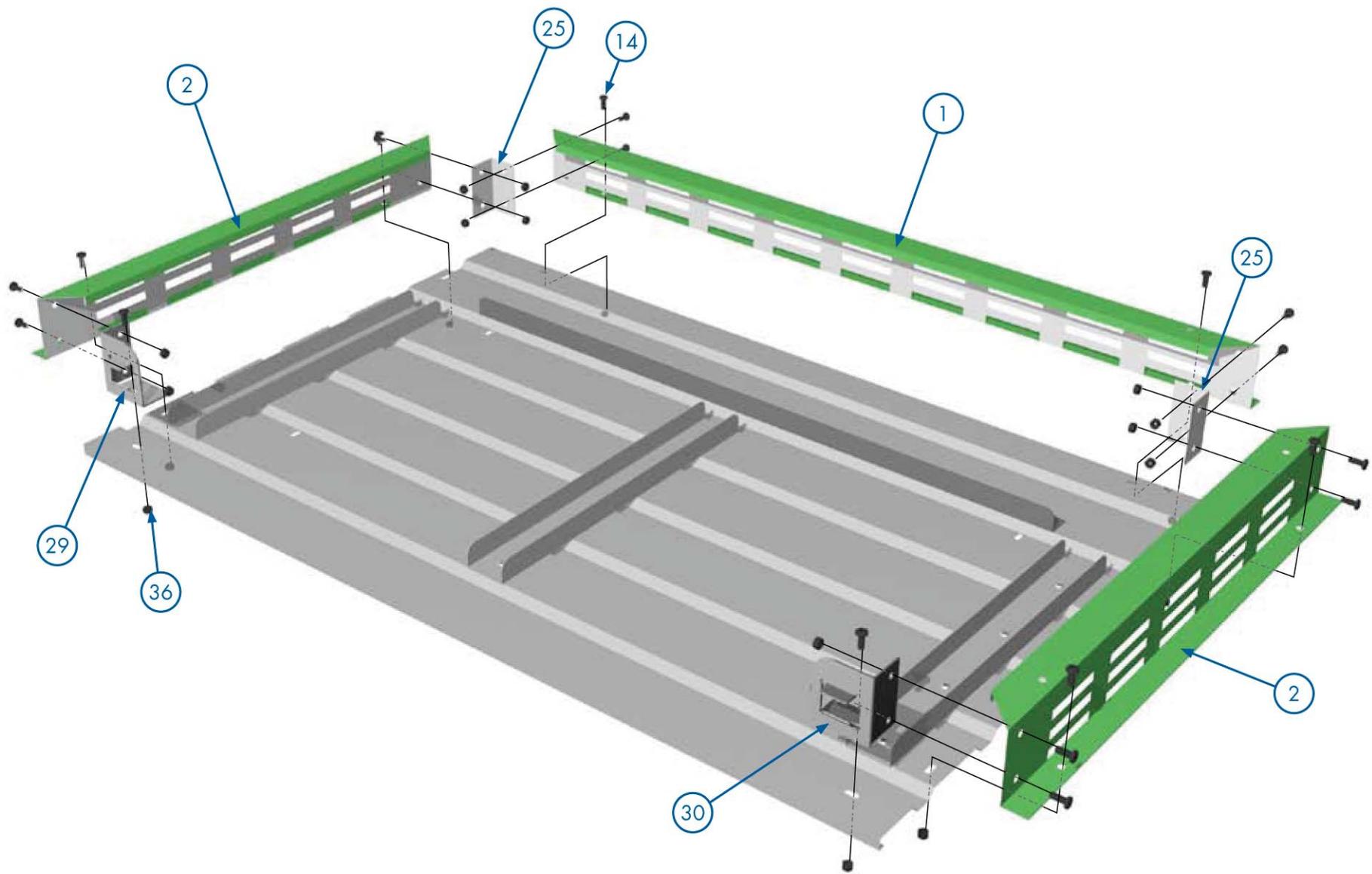
Step 1
Senturion 247



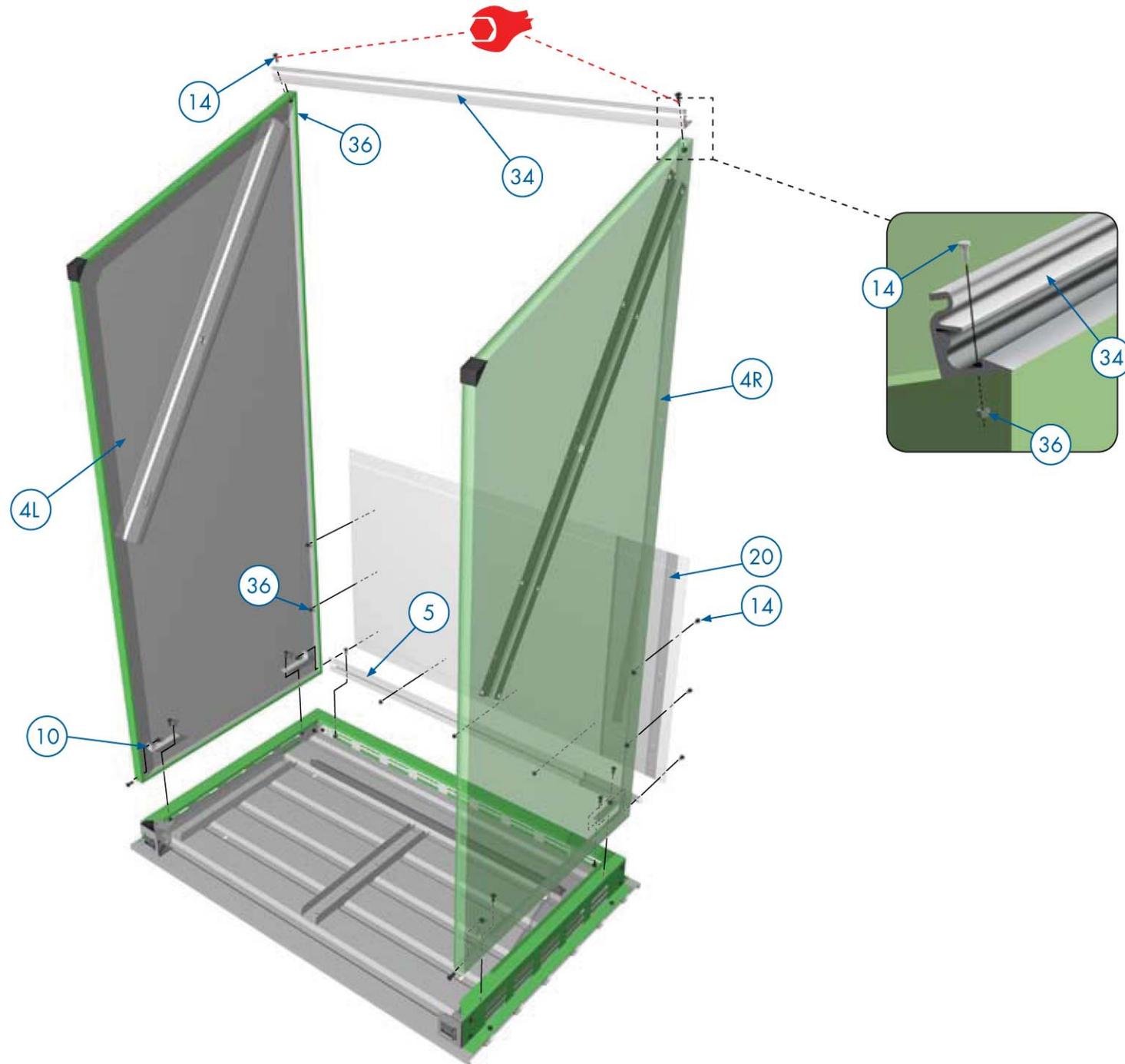
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Senturion 447



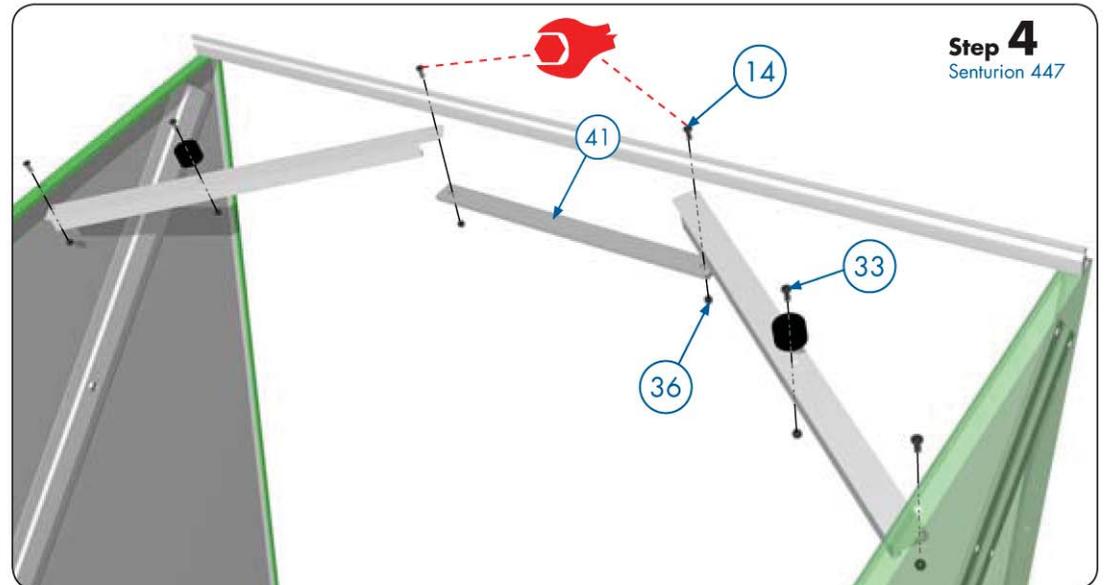
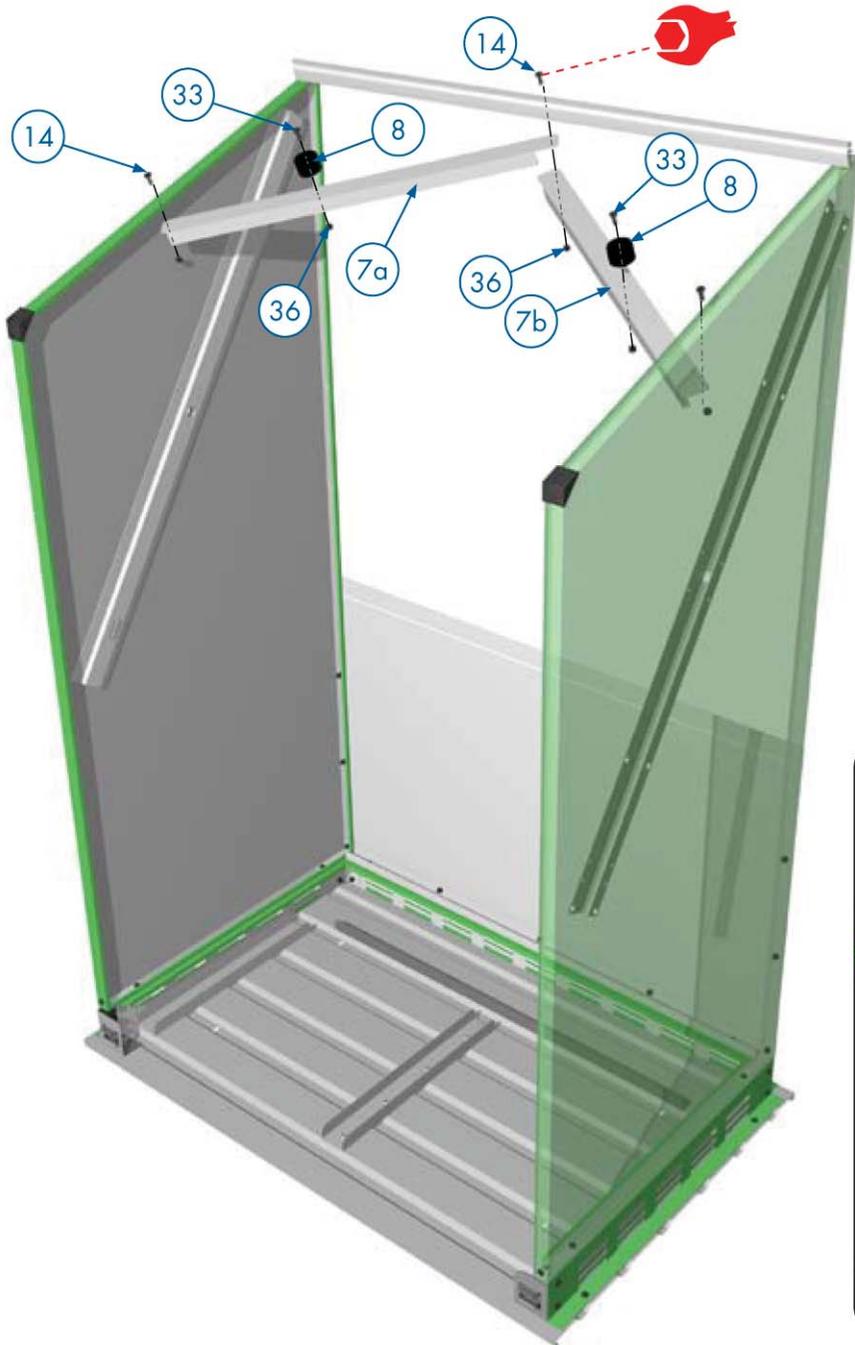
Step 2
Senturion 247/447



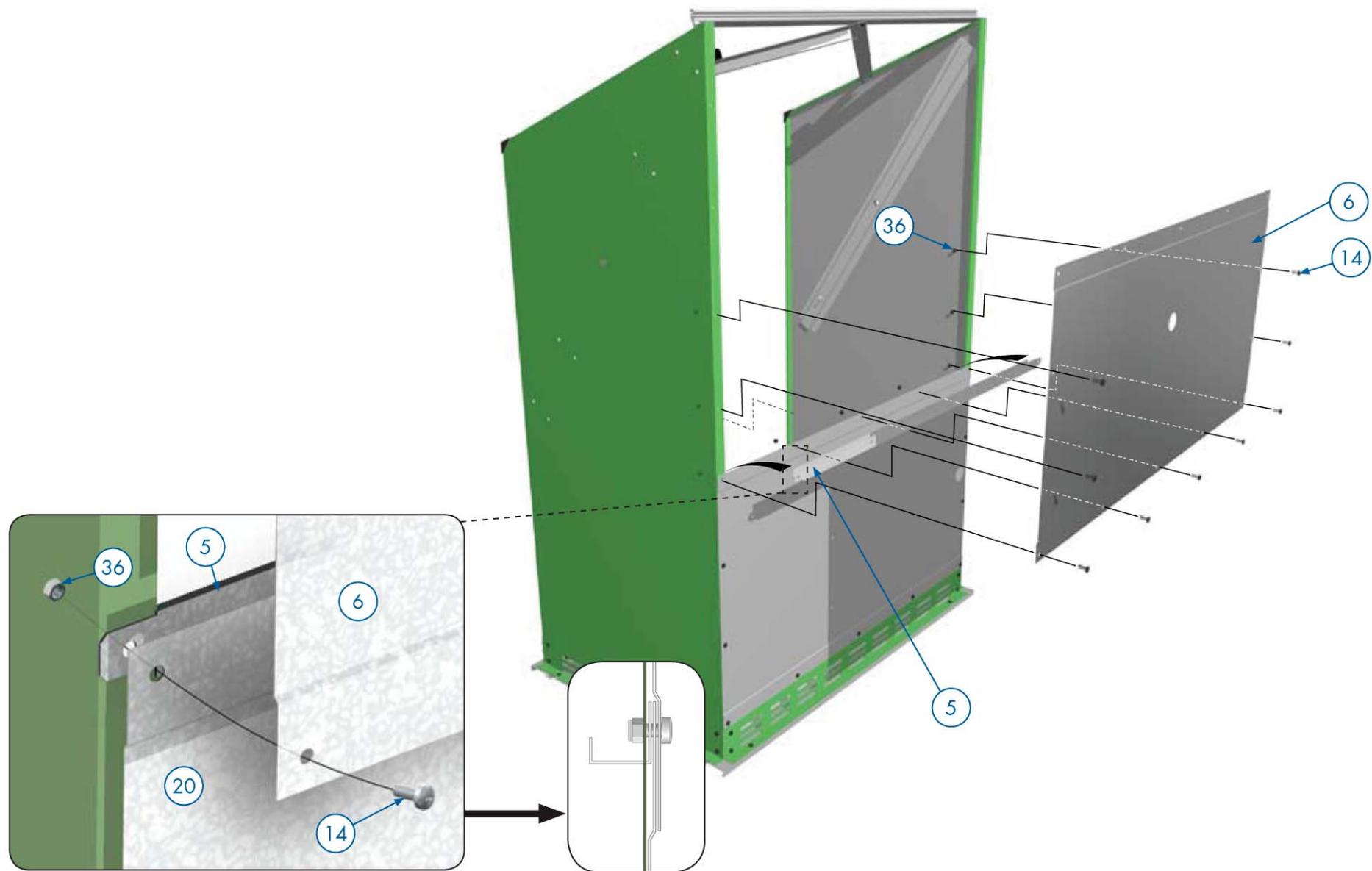
Step 3
Senturion 247/447



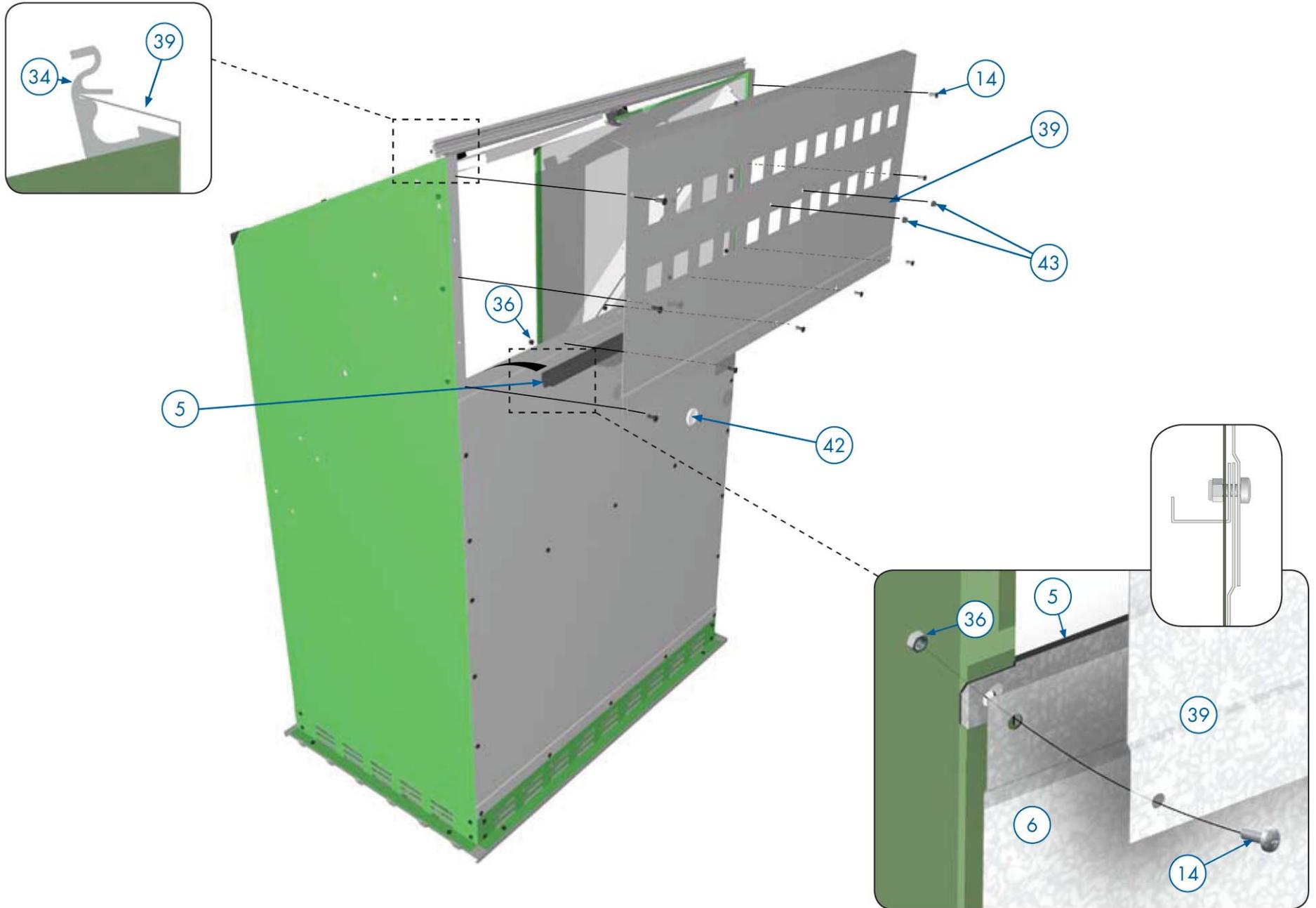
Step 4
Senturion 247/447



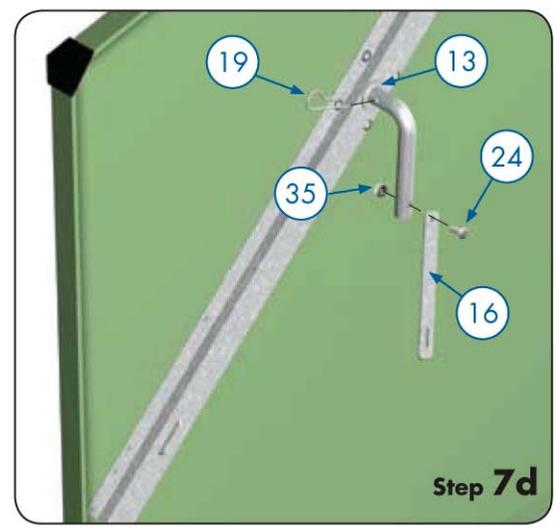
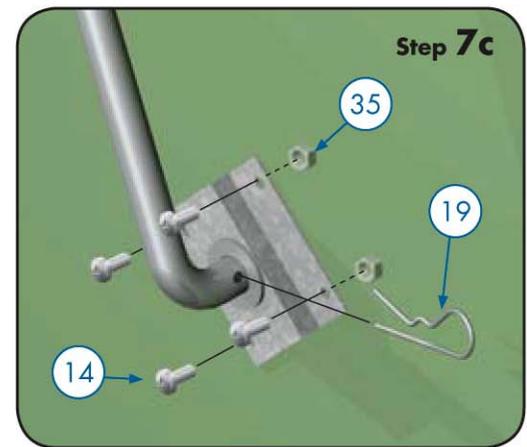
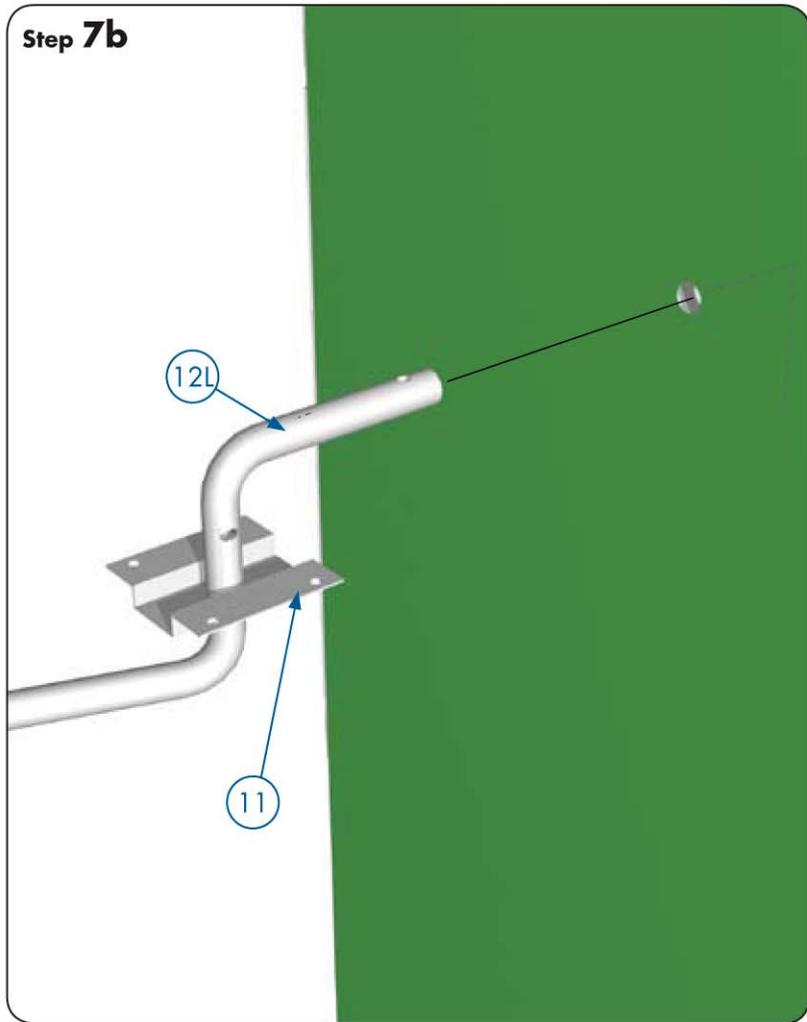
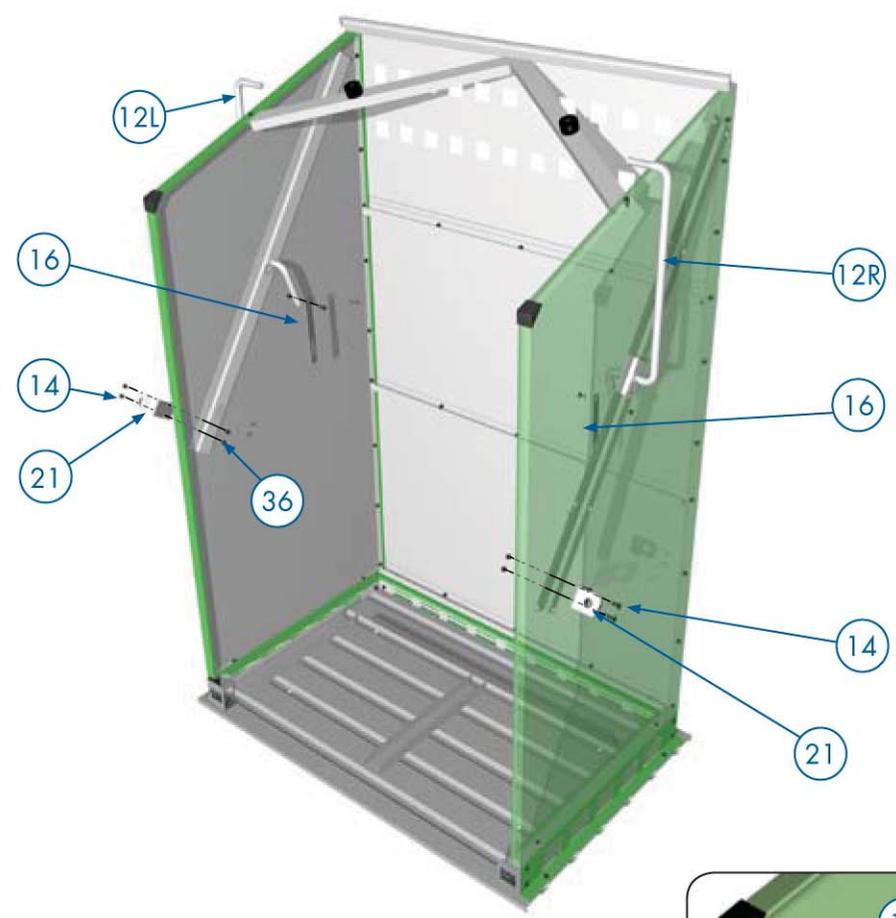
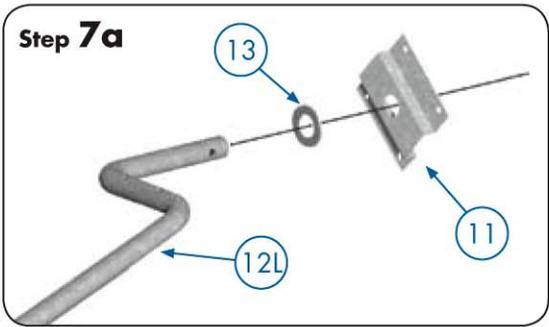
Step 5
Senturion 247/447

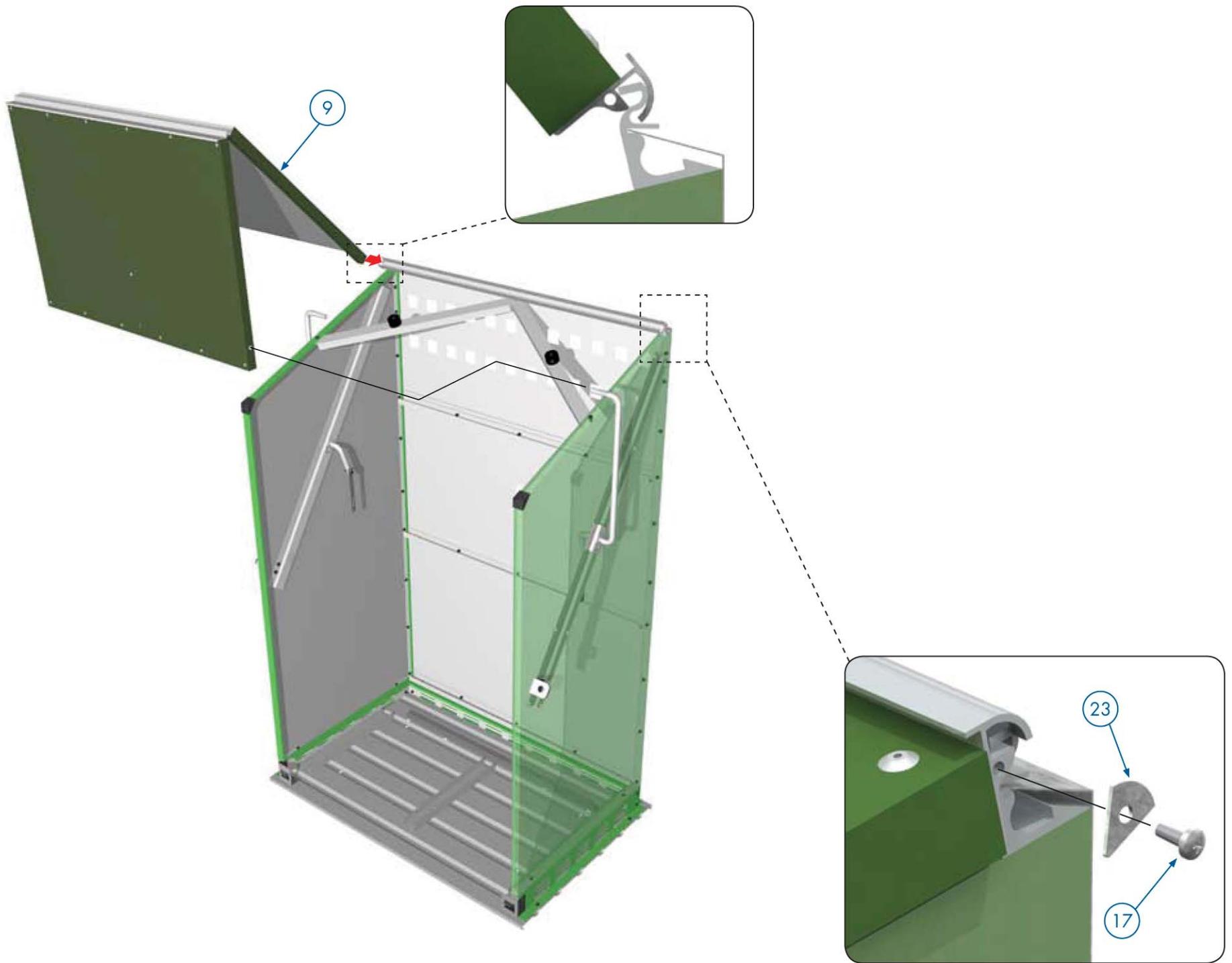


Step 6
Senturion 247/447



Step 7
Senturion 247/447





Step 10
Senturion 247/447





GUARANTEE

EXCLUSIONS

Trimetals Ltd will not be liable under the Guarantee for:

- 1.1 Explosion, Fire Lightning, Theft and those other perils normally provided by household contents insurance.
 - 1.2 Accidental damage including scratching, bruising or denting or from the direct application of a tool.
 - 1.3 Mishandling or neglect by the Registration Holder or any member of his family, household or staff or use of the product not in accordance with the manufacturer's instructions.
 - 1.4 Failure of the Registration Holder to maintain or service the product in accordance with the manufacturer's instructions.
 - 1.5 Spillage of chemicals or hazardous substances causing erosion or discolouration of parts, or storage of items that are not done in accordance with the manufacturer's written instructions and normal laid down codes of practice.
 - 1.6 War, Civil War, Hostilities (whether war declared or not), riots, strikes or civil commotion.
 - 1.7 Ionising radiations, the hazardous properties of nuclear material or sonic bangs.
 - 1.8 All fixings and fasteners.
- 2 Normal wear and tear, the cost of routine maintenance, adjustments or modifications or loss or damage arising therefrom.
 - 3 Loss of use of the appliance or consequential loss of any nature.
 - 4 The cost of materials and labour charges for which any manufacturer, supplier or any other person may be held responsible under the terms of the Sale of Goods Act or any Guarantee or Warranty.
 - 5 Cost incurred outside the United Kingdom.
 - 6 If the goods have been signed for as being received in good condition.



EXCLUSIONS DE GARANTIE

En vertu de la garantie, Trimetals Ltd ne peut être tenu responsable des points suivants :

- 1.1 Explosion, incendie, vol ainsi que tout autre sinistre normalement pris en charge par les assurances domestiques.
 - 1.2 Tout dégât accidentel, y compris les éraflures, bosses ou coups ou résultant de l'utilisation directe d'un outil.
 - 1.3 Mauvaise manipulation ou négligence du fait du détenteur de licence ou de tout membre de sa famille, de son foyer ou de son personnel ou toute utilisation du produit contrevenant aux instructions du fabricant.
 - 1.4 Défaut d'entretien ou de réparation du produit, malgré les instructions du fabricant, de la part du détenteur de licence.
 - 1.5 Déversement accidentel de produits chimiques ou de substances dangereuses provoquant l'érosion ou la décoloration de pièces ou entreposage d'articles non conforme aux instructions écrites du fabricant et aux codes de pratique normalement établis.
 - 1.6 Guerre, guerre civile, hostilités (que la guerre ait été déclarée ou non), émeutes, grèves ou actes séditionnels.
 - 1.7 Rayonnements ionisants, propriétés dangereuses des composants nucléaires ou détonations supersoniques.
 - 1.8 Toutes les attaches et fixations.
- 2 Usure normale, coût de l'entretien de routine, ainsi que tout réglage, modification, perte ou dégât survenant en conséquence.
 - 3 Perte d'usage du produit ou perte indirecte, de quelque nature qu'elle soit.
 - 4 Coût des matériaux et frais de main d'œuvre pour lesquels tout fabricant, fournisseur ou toute autre personne peut être tenu responsable, selon les conditions exposées par la Loi sur la vente des marchandises ou toute autre Garantie.
 - 5 Dépenses engagées en dehors du Royaume-Uni.
 - 6 Si les biens ont fait l'objet d'une signature par le réceptionnaire garantissant leur bon état.

CONDITIONS

- 1 In the event of failure of the product Trimetals Ltd or their agents may at their option repair or replace the defective part(s) or pay in cash for the cost of repair excluding labour and transport charges. In the event of the product as a result of failure being deemed beyond economic repair Trimetals Ltd will pay the market value of the product immediately prior to breakdown.
- 2 Trimetals Ltd shall in no case be bound to accept notice of any transfer of interest and nothing contained in our Guarantee shall give any rights against Trimetals Ltd to any other person than the original Registration Holder who shall be a private individual.
- 3 At the request of Trimetals Ltd the Registration Holder shall do and concur in doing all such acts and things as Trimetals Ltd may reasonably require with a view to obtaining compensation for failure covered by this guarantee and to enforce any rights that the Registration Holder may have against anyone in respect of any failure whether or not payment has been made by Trimetals Ltd.
- 4 The Certificate of Registration will be rendered void in the event of the Certificate Holder's fraud, non-disclosure, alteration of risk or any attempt threat, or the use of the product other than normal domestic purposes.
- 5 These conditions in no way affect your statutory rights.
- 6 Terms and Conditions are governed by English law and you submit to the non-exclusive jurisdiction of the English Court.

CLAIMS PROCEDURE

In the event of damage contact Trimetals Ltd on +44 (0)1258 459441. Please have the Model and Serial numbers available when you call plus the details of your registration card and copy of payment receipt. You will then be advised of the procedure in your area.

CONDITIONS

- 1 En cas de dysfonctionnement du produit, Trimetals Ltd ou ses agents peuvent à leur gré choisir de réparer ou de remplacer la ou les pièces défectueuses ou de rembourser les dépenses engagées pour la réparation, à l'exclusion des frais de main d'œuvre et de transport. Dans le cas où le produit défaillant présenterait un état économiquement irréparable, Trimetals Ltd remboursera au client la valeur du produit sur le marché juste avant que celui-ci ne tombe en panne.
- 2 En aucun cas, Trimetals Ltd n'est tenu d'accepter l'avis d'un quelconque transfert d'intérêt et aucune clause de notre Garantie ne confère de droit à une autre personne que le détenteur de licence envers Trimetals Ltd, le détenteur devant être un particulier.
- 3 À la demande de Trimetals Ltd, le détenteur de licence doit exécuter et contribuer à tout ce que Trimetals Ltd peut raisonnablement demander, en vue d'obtenir compensation d'un dysfonctionnement couvert par la présente garantie et d'appliquer les droits du détenteur de licence envers toute autre personne en cas de défaut, que le paiement ait été ou non effectué au bénéfice de Trimetals Ltd.
- 4 Le Certificat d'enregistrement sera déclaré nul en cas de fraude du détenteur, de non-respect de la confidentialité, de modification du risque ou de toute tentative de menace ou de l'utilisation du produit à des fins autres que domestiques.
- 5 Ces conditions n'affectent en rien vos droits statutaires.
- 6 Les présentes Conditions générales d'utilisation sont régies par la loi anglaise et vous acceptez de vous soumettre à la juridiction non exclusive des tribunaux anglais.



Trimetals has been established for over 35 years and is firmly placed as Europe's leading producer of quality metal storage buildings and metal garden sheds.

The unique designs which maximise strength and rigidity are unmatched by any other manufacturer and our 15 year panel guarantee is your assurance that our range of buildings are the very best available.

Please do not confuse our products with cheap and flimsy substitutes or plastic alternatives. Our buildings are strong, secure, fire resistant and maintenance free, giving you real value for money. We pride ourselves in our reputation for superior products and are sure you will be completely satisfied with any product in our extensive range.

www.trimetals.co.uk



Créée en 1968, la société TRIMETALS est fermement implantée sur le marché européen, où elle occupe la place de leader en matière de construction d'abris et de rangements d'extérieur en métal.

Solides et résistants, nos modèles de conception unique sont inégalés. En outre, nos panneaux, garantis 15 ans, sont la preuve que nos gammes de produits sont les meilleures du marché.

Nos produits n'ont rien en commun avec ces substituts bon marché et peu solides ou encore avec les abris en plastique. Nos constructions sont robustes, sûres, résistent au feu et ne nécessitent aucun entretien ; en un mot, leur rapport qualité-prix est exceptionnel.

Nous sommes fiers de pouvoir vous offrir des produits de qualité supérieure et sommes certains que vous serez entièrement satisfait, quel que soit le produit acheté parmi le vaste choix que nous vous proposons.

www.trimetalsfrance.com



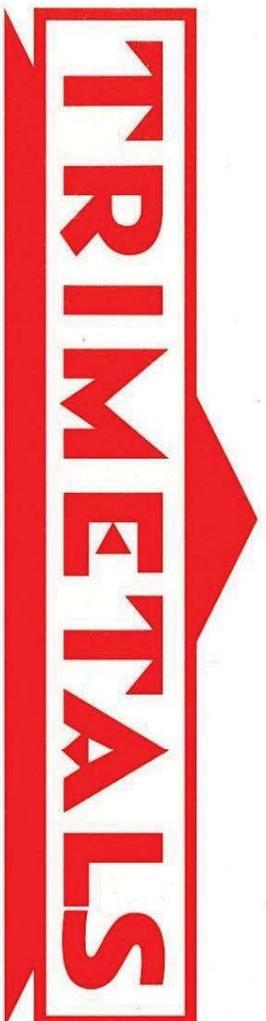
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**QUALITY METAL SHEDS, GARDEN STORES,
GREENHOUSES & STEPS**

CERTIFICATE OF CONFORMITY

METAL SHEDS, STORAGE UNITS, GAS CYLINDER STORAGE UNITS & STEPS

This certificate confirms, that the enclosed product meets the following **FIRE REGULATIONS** and is suitable for use on Residential, Mobile Home and Holiday Home Parks and other areas where **non-combustible** products are required.

SAFETY STANDARDS

All metal components used in the manufacture of these products have been approved to the following:

'CLASS O' Fire rating in accordance with tests carried out to BS476: Part 6 (Fire Propagation) combined with

'CLASS 1' rating Part 7 (Surface Spread of Flames) as defined in **National Building Regulations**.

For further information or assistance telephone **01258 459441**