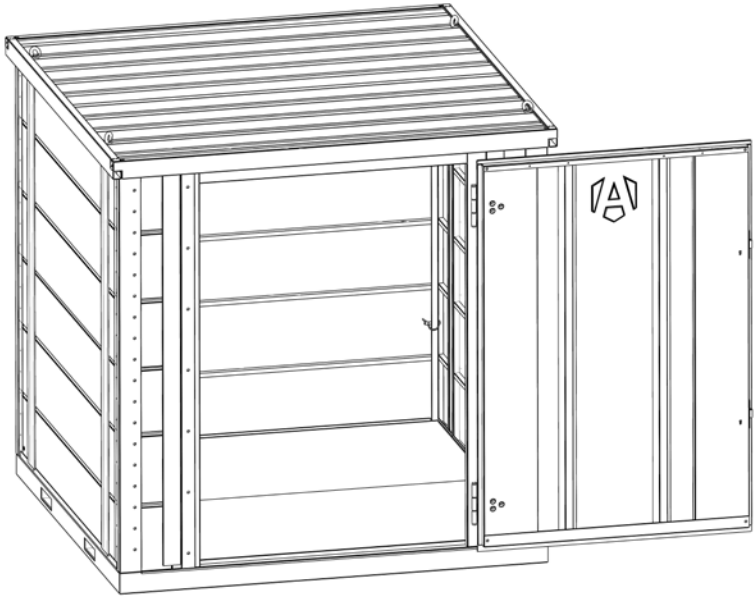
forma-stor™

Operational and maintenance manual

Suitable for: FR100-T, FR200-T, FR300-T, FR400-T



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Welcome

Welcome to your Armorgard Forma-Stor. The most secure solution for portable and fast-assembly storage. The collapsible walk-in container can be erected in minutes from flat-pack panels, making it safe, simple and secure!

Please read this operational and maintenance manual carefully prior to setting up the Forma-Stor.

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Safety information

- Before using the Forma-Stor, ensure any relevant risk assessments are carried out. Armorgard cannot be responsible for accidents that occur due to negligence.
- Ensure the Forma-Stor is fully assembled and that it is empty before lifting or moving it. Only qualified personnel should lift the Forma-Stor.
- At least two people are required to erect or dismantle the Forma-Stor and all relevant PPE must be worn while doing so.
- The Forma-Stor must be positioned on a flat, solid surface, and should be level and stable before being used.
- It is important to ensure that our guidelines are followed when assembling the Forma-Stor, and extra care is needed when lifting panels.
- Ensure that the Forma-Stor is not damaged before using it. Ensure that all parts are in good working condition prior to using the Forma-Stor.
- Always lock the Forma-Stor when it's not in use or out of sight. Do NOT leave keys inside the unit while locking.
- Any modification to or unintended use of this product can cause it to become dangerous. This could result in death, serious personal injury or property damage.
- Keep hands clear when closing door. Failure to do so could result in severe injury.
- This product is not designed for storing or transporting flammables, explosives, hazardous wastes or hazardous materials such as containers of solvents, gun powder, dynamite, gasoline, propane, or acetylene tanks, etc.

» Always take precaution to check no personnel remain inside before locking the unit.

» Always follow safe lifting practices. You should stand as close to the load as possible so you don't exert more force onto your back by extending the distance. Then bend your knees and keep your upper body upright so your legs do the lifting rather than your back. Look straight ahead and keep your back straight and shoulders back so you have a slight arch in your lower back. Seek assistance from another person or a lifting device if the weight exceeds what you are comfortable lifting alone.

Whilst every effort has been made to ensure this operational and maintenance manual covers every aspect needed to operate your product safely, please take care whilst using the product and always operate with caution. Always liaise with management personnel on site for any additional operational restrictions that you need to be aware of.

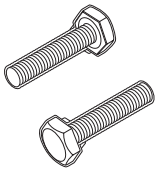
Do	Don't
✓ Secure all locks when not in use	✕ Leave unlocked when unattended
✓ Ensure parts are fully slotted together	✕ Lift when loaded
✓ Ensure it's safe when opening/closing door	✕ Forget to do integrity checks before lifting
✓ Wear appropriate PPE during assembly	✕ Position on an uneven surface

Product specification

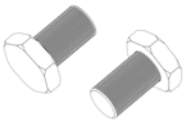
Product code	Description	Weight (kg)	External Dimensions W x D x H (mm)	Internal Dimensions W x D x H (mm)
FR100-T	Forma-Stor FR100-T flat pack store	270	2075 x 1005 x 2110	1250 x 840 x 1795
FR200-T	Forma-Stor FR200-T flat pack store	380	2075 x 2010 x 2110	1250 x 1850 x 1795
FR300-T	Forma-Stor FR300-T flat pack store	470	2075 x 2960 x 2110	1250 x 2800 x 1795
FR400-T	Forma-Stor FR400-T flat pack store	580	2075 x 3960 x 2110	1250 x 3800 x 1795

Individual panel weight (kg)	Back panel	Door panel	Side panel	Roof panel	Base
FR100-T	56	76	21	33	58
FR200-T	56	76	53	53	113
FR300-T	56	76	70	76	143
FR400-T	56	76	114	96	186

What's included...



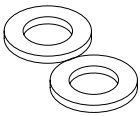
8x M12x45mm bolts
(FR100-T, FR200-T,
FR300-T)
12x M12x45mm bolts
(FR400-T)



8x M12x20mm bolts



8x pipe linchpin



16x M12 washers (FR100-T,
FR200-T, FR300-T)
20x M12 washers
(FR400-T)



4x M12 lifting eye with
rubber washer



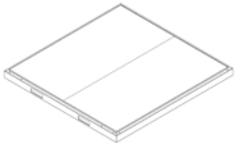
1x door panel
2x2m



2x side panels
1x2m (FR100-T)
2x2m (FR200-T)
3x2m (FR300-T)
4x2m (FR400-T)



1x roof
2x1m (FR100-T)
2x2m (FR200-T)
2x3m (FR300-T)
2x4m (FR400-T)

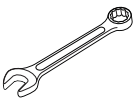


1x base
2x1m (FR100-T)
2x2m (FR200-T)
2x3m (FR300-T)
2x4m (FR400-T)



1x back panel
2x2m

Tools you'll need...



» 19mm spanner or an electric wrench



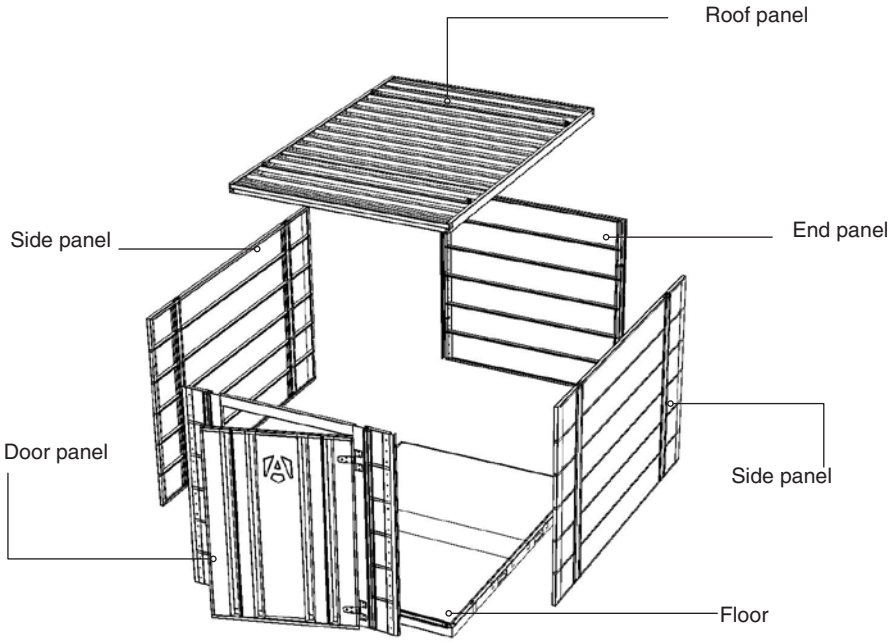
» Ratchet with 19mm socket



» An impact driver with 19mm socket. If you have purchased the FR100-T lights (optional extra), you will also need a Pozi screwdriver bit.

Getting to know your forma-stor™

Quick assembly, flat-pack, modular solution for on-site secure storage



Crane lifting eyes

Forklift skids

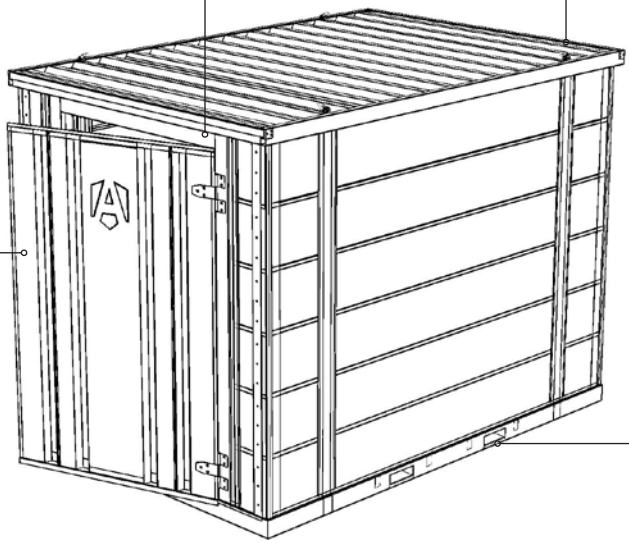
5-lever deadlock

Collapsible

Stackable

Data plate which lists each unique product serial number

Crane lifting eyes



5-lever deadlocks

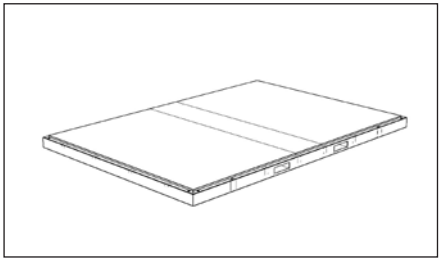
Forklift pockets for ease of transportation

2mm and 1mm material thickness

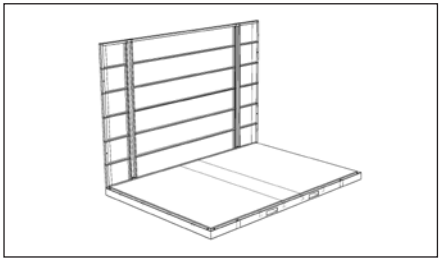
Suitable for use on-site

Add up to 5 shelves

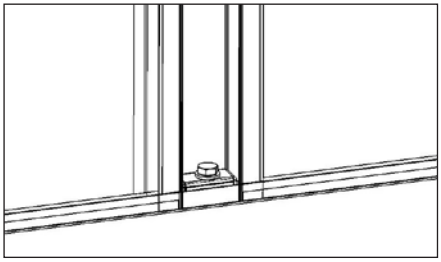
How to assemble



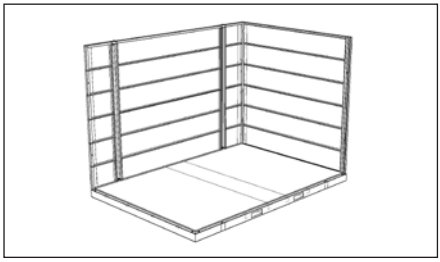
1. To begin assembling the Forma-Stor, place the base on a level, stable surface.



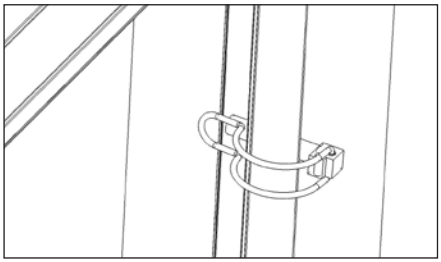
2. Place one of the side panels on the base, and use the 20mm bolts at each end to locate the panel.



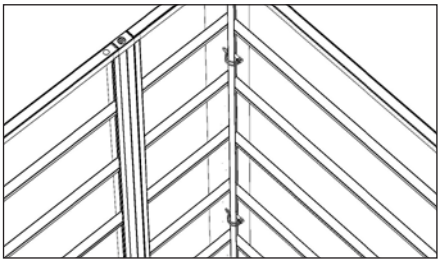
3. Ensure it is supported safely whilst you use the 45mm bolts to secure the side to the base. Leave all fixings loose at this point.



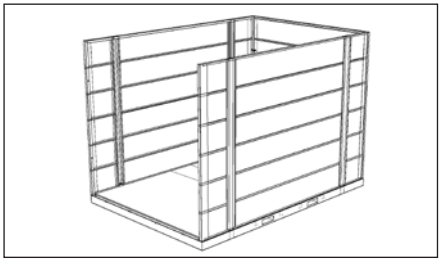
4. Next, position the rear panel to form a corner. This will support the side panel.



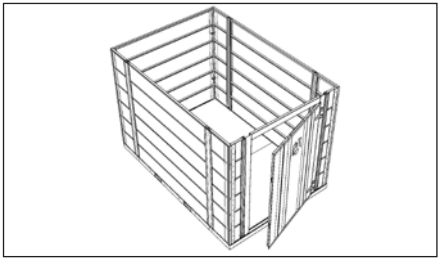
5. Fix pipe linchpins in each corner, and bolt in the 20mm bolts to secure it to the base.



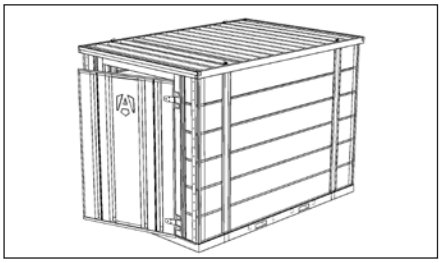
6. There are two linchpins for each corner.



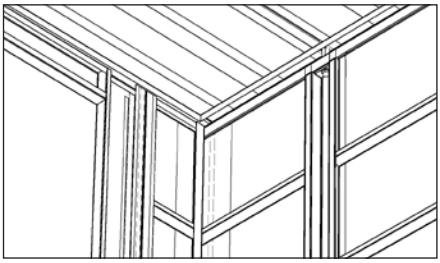
7. Place the other side panel on the base, and secure it with bolts and linchpins as described in steps 3 to 5



8. The door panel is the last panel to be fixed on. This slots onto the base and is fixed to the side panels with linchpins and bolts as described in step 5. It is easier to do this with an extra person inside.



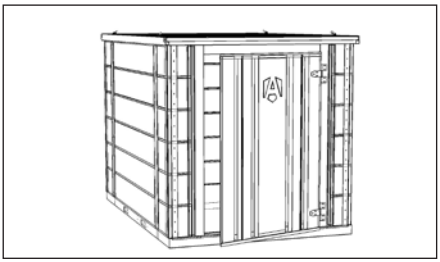
9. Now place the roof on top. We suggest for extra persons to support inside the unit to balance the roof.



10. Ensure the grooves in the roof fit securely to the top of each of the four panels.



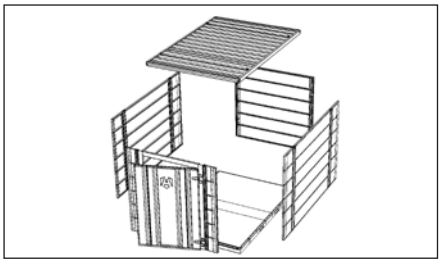
11. Lastly, fix the roof in place using the 45mm bolts provided. Tighten all the bolts in the Forma-Stor.



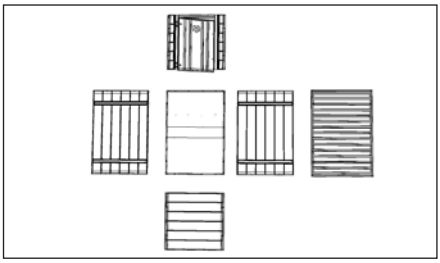
12. The Forma-Stor is now ready for use!

WARNING! The roof is heavy and care should be taken when lifting into position. Please take all safety precautions necessary when moving this part. Extra people or equipment may be required to lift safely.

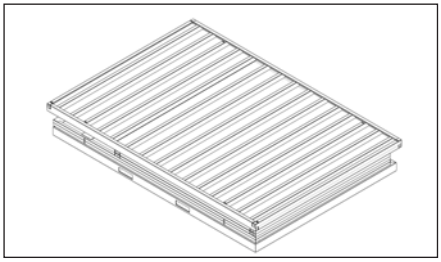
Dismantling the Forma-Stor



1. To dismantle the Forma-Stor, remove the parts in reverse order to which they were assembled.

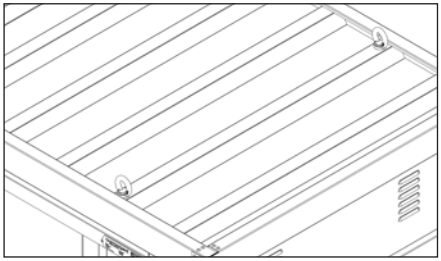


2. Remove the roof first, followed by the door panel, a side panel, the rear panel, and then the remaining side panel. Fixings can be bolted back into the panels for safekeeping.

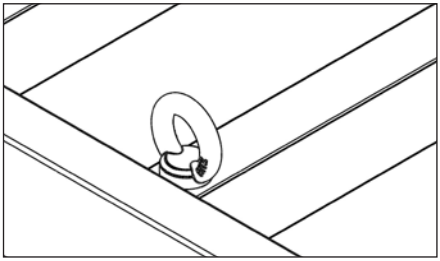


3. The Forma-Stor can then be stacked in its flat-packed form.

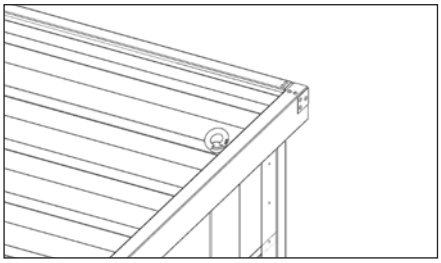
Using the lifting eyes



1. Before lifting, ensure that the bolts holding the lifting eyes are securely in place.



2. Attach the lifting equipment to all four lifting eyes and ensure that the load is lifted evenly across all four eyes.



3. Lifting eyes should only be used once confirmed by a qualified person on site.

The lifting eyes are only provided for positioning of the Forma-Stor, and the unit must be empty while lifting. Before lifting, each lifting eye needs to be checked that it is undamaged and fitted correctly, and should be inspected by a lifting operator before use.

Take your forma-stor™ to the next level with these optional extras

Contact the Armorgard team to find out more about the optional extras for your product.



BlokkaBar

To enhance your Forma-Stor's security



Ramp

To improve accessibility when moving heavy equipment



Shelves

To organise and store equipment

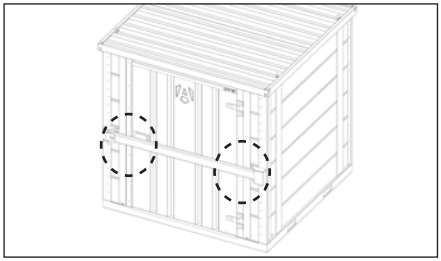


Lights

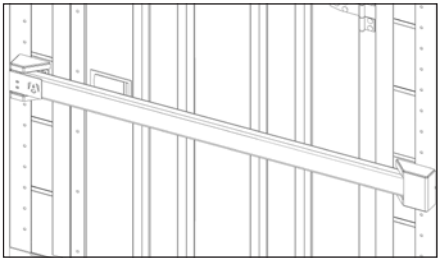
For better visibility

Please note that each size Forma-Stor unit can fit up to five shelves.

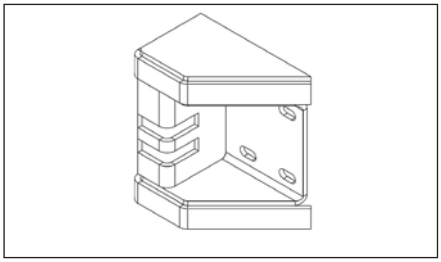
Attaching the BlokkaBar (optional extra)



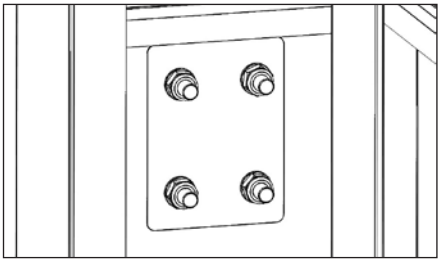
1. To install the BlokkaBar, locate the pre-drilled holes on either side of the door. Then, remove the coach bolts and blanking plate.



2. Place the lock housing of the BlokkaBar on the left side of the door. The other housing should be placed on the right side of the door.

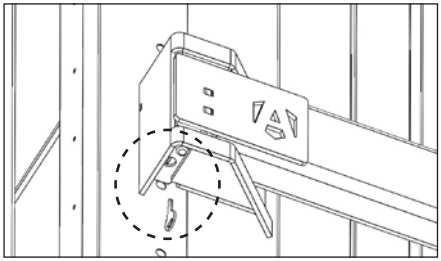


3. Ensure the padlock is located in the locking housing with the lock facing down. Push the coach bolts through the holes in each housing and place into the pre-drilled holes in the Forma-Stor.

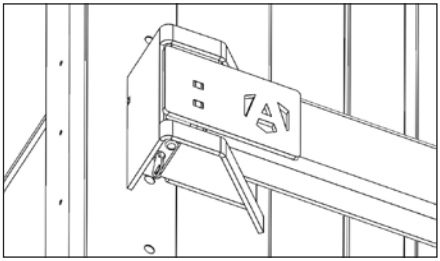


4. Inside the Forma-Stor, replace with the blanking plate and then place a washer and nylock nut on each bolt. Repeat for both housings.

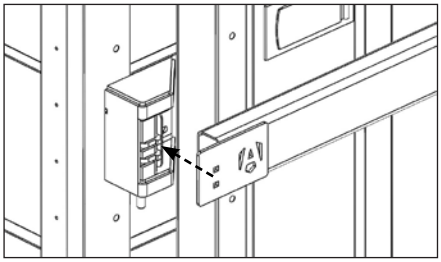
Using the BlokkaBar



1. To unlock the BlokkaBar, place the key in the keyhole of the lock on the bottom, and turn. This will unlock, releasing the pin.



2. Remove the bar by pulling it and sliding it to the left. This will allow the access to the door's locking system.



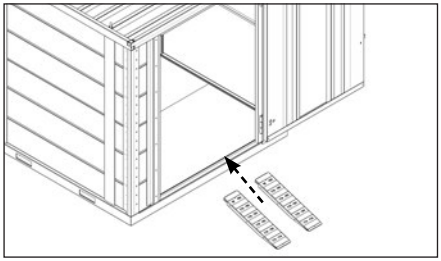
3. To lock for maximum security, ensure that the Forma-Stor door is locked before placing the BlokkaBar. Slide the bar in place.



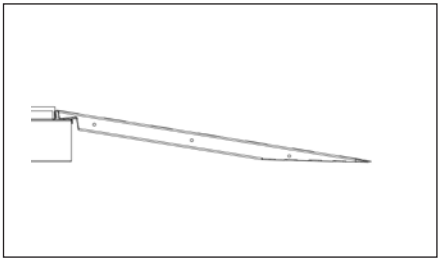
4. Then, push in the pin of the lock that is located at the bottom of the left lock housing of the BlokkaBar, this will ensure everything is secure in place.

IMPORTANT! Please note that spare keys are not available for the BlokkaBar.

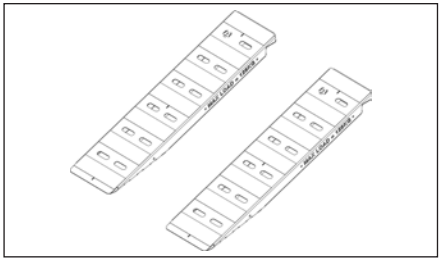
Attaching the ramp (optional extra)



1. Position the x 2 ramps along the opening of the Forma-Stor to match that of the wheel width of your transporting equipment.

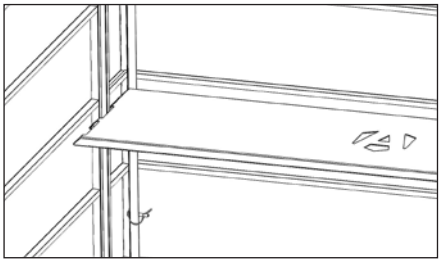


2. Ensure the ramps are securely place on the bottom ridge of the opening of the Forma-Stor.

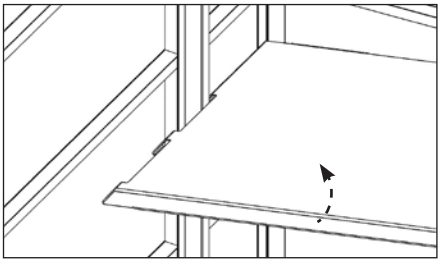


3. When using the ramp, do not exceed the 125kg UDL that it was designed for. Do not close the door whilst the ramp is in position.

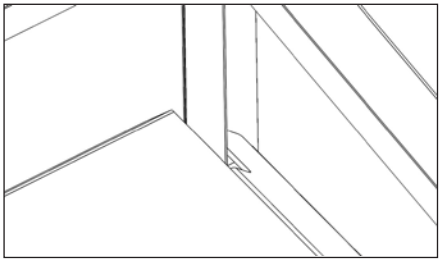
Attaching the shelves (optional extra)



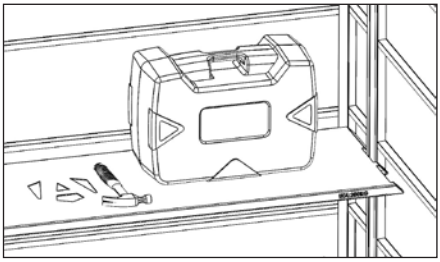
1. Each size Forma-Stor unit can fit up to five shelves. Do not exceed the 200kg UDL the shelf was designed for. No fixings are required for shelves.



2. Locate the relevant inner slots on the back panel, and position the shelf by tilting and inserting the pocket on its edge into the back vertical support of the side panel.

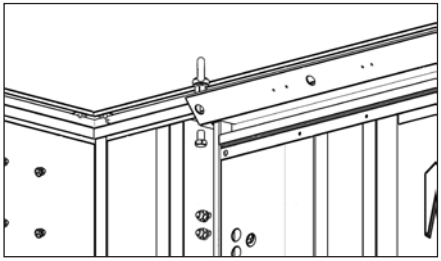


3. Rest the shelf into position. It will need to align with the corner of the unit with one of its cut-outs. Repeat the steps to install the other shelves.

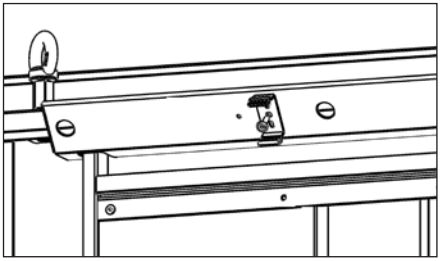


4. Test the shelves by pushing down with force and ensuring it doesn't slip before loading with any contents.

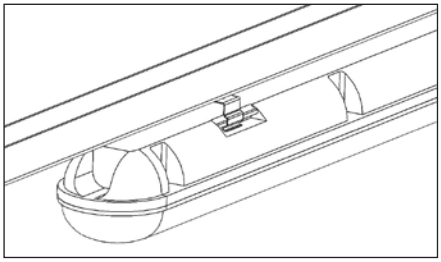
Attaching the FR100-T lights (optional extra)



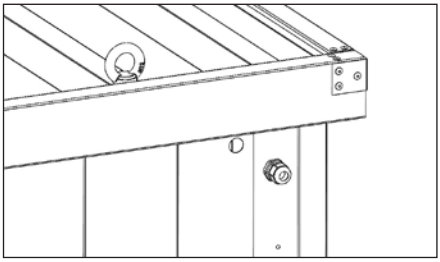
1. To attach lights to the Forma-Stor 100-T, locate and undo the M12 bolts used to fix the lifting eyes. Reuse these bolts to fix the light's triangle mounting bracket to the roof of the unit.



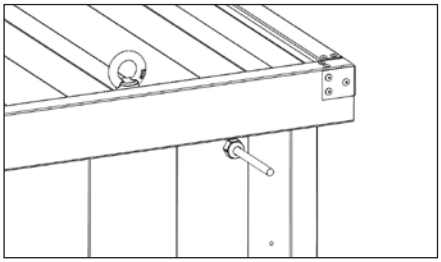
2. Using a 5.5 self-drilling screw, attach the light bracket to the roof using the pre-drilled holes. Repeat these steps to install the second bracket.



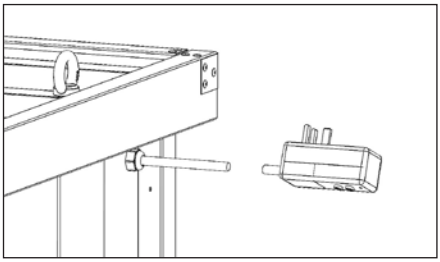
3. Check that brackets are secure, and then clip the light into the brackets.



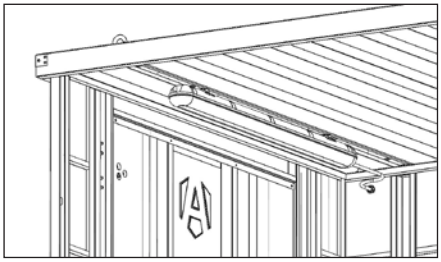
4. Drill a 20mm hole in the top corner of the Forma-Stor's side panel, and fit the compression gland into the hole by screwing it tight.



5. Feed the loose end of cable from the lighting kit through the hole and clamp it tightly using the gland.

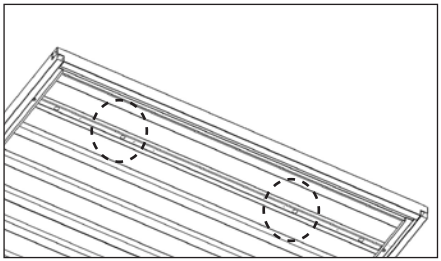


6. A qualified electrician is required to wire the chosen plug onto the end of the cable.

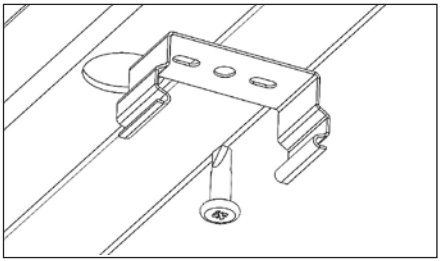


7. Carry out relevant electrical tests to ensure the system is functioning correctly and safely.

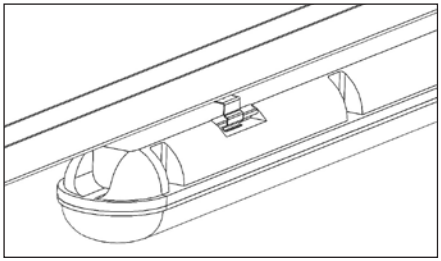
Attaching the FR200-T, FR300-T, FR400-T lights (optional extra)



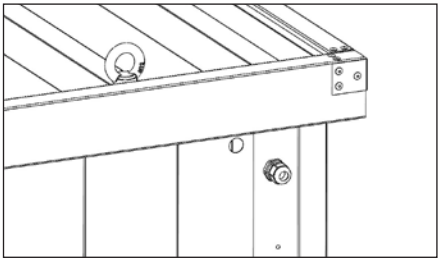
1. To attach lights to the Forma-Stor FR200-T, FR300-T or FR400-T, locate the pre-drilled holes on the roof panel.



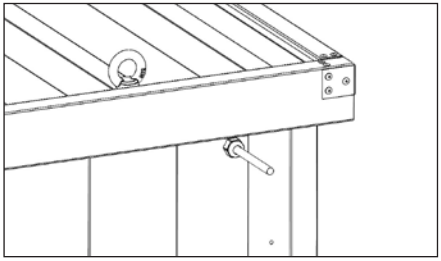
2. Using a 5.5mm self-drilling screw, attach the light bracket to the roof using the pre-drilled holes. Repeat these steps to install the second bracket.



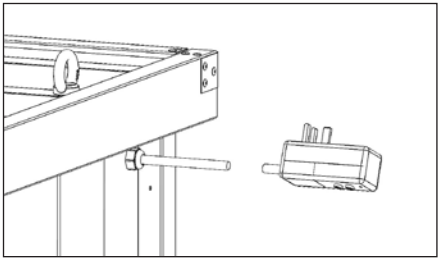
3. Check that brackets are secure, and then clip the light into the brackets. Repeat steps 1, 2 and 3 to install the second LED light.



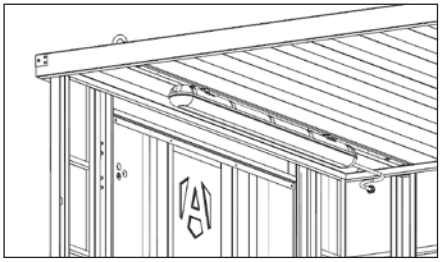
4. Locate the 20mm hole located in the top corner of the Forma-Stor's side panel, and fit the compression gland into the hole by screwing it tight.



5. Feed the loose end of cable from the lighting kit through the hole and clamp it tightly using the gland.

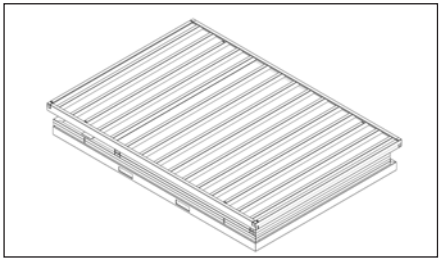


6. A qualified electrician is required to wire the chosen plug onto the end of the cable.

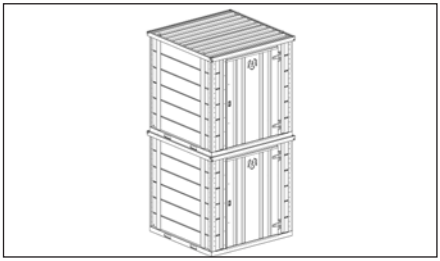


7. Carry out relevant electrical tests to ensure the system is functioning correctly and safely.

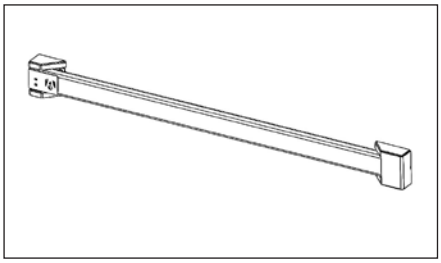
Storing the unit



1. The Forma-Stor can be stacked in its flat-packed form to save space when storing.



2. To save space, Forma-Stors that are assembled can be safely stacked up to 2 storeys high when empty.



3. Ensure that all locks are secured when leaving the Forma-Stor unattended. Use the BlokkaBar to enhance security if needed.

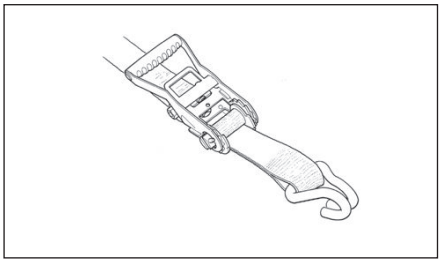
Transporting the unit

The Forma-Stor has been designed specifically to make transporting the product easy.

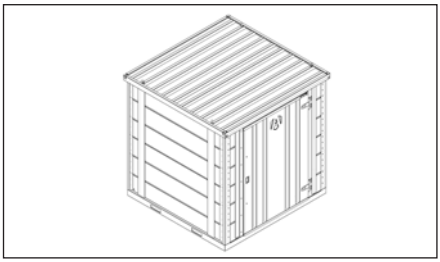
The four crane lifting eyes come with the Forma-Stor and are attached to the roof. These are for ease of transporting the unit only. The unit should never be lifted when loaded.

Always use the forklift pockets when transporting by forklift.

When lifting the panels, use a trolley to ease manual handling if the panels are too heavy.



1. During transport, ensure that the Forma-Stor is secured to the carrier by strapping down the unit fully.



2. Armorgard can supply Forma-Stor units pre-erected, please enquire to find out more.

Equipment care

The Forma-Stor is weather resistant and constructed with a durable powder coated finish, so it is suitable for outdoor use, however it does not mean it is waterproof. It is always important to note that any electrics or equipment susceptible to water damage should be sealed and placed higher up the Forma-Stor, using the optional shelves if necessary.

It is important to ensure that all Forma-Stor bolts remain in good condition and that they are always bolted on tightly.

Always ensure that the product data plate remains visible and in good condition, especially the unique serial number, as this is required should you need a replacement lock or key.

Ongoing maintenance

It is important to check that the Forma-Stor is not damaged before every use.

We recommend for you to check the bolts, locks, forklift pockets, crane lifting eyes and any optional extras every three months, to ensure that the Forma-Stor can operate fully. If the Forma-Stor will be under rigorous use, we recommend integrity checking regularly.

Always carry out integrity checks before lifting the Forma-Stor.

Warranty

Armorgard products are built to last, and all have a manufacturer's warranty of 12 months - please refer to the terms and conditions for what this covers.

We also keep replacement keys and offer replacement locks for all Armorgard products up to five years old. To get a replacement key, all you'll need is the distributor you purchased from, proof of purchase and your product's serial number, which can be found on the data plate of every product.

Do not force entry into the product, as this could affect the warranty. Always contact us if you require a replacement lock or key.

Spare parts



» Replacement keys



» Crane lifting eyes



» Replacement deadlocks



» Extra panels

Other spare parts available. Please get in touch for more information.

» For additional support and easy access to spare or replacement parts, register your product following the QR code:

Notes

Version: 151225

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