

# BIKE | WALL MOUNT RAIL | SYSTEM

**INSTRUCTION & INSTALLATION GUIDE MANUAL** 

**ENHANCE BIKE STORAGE** 

## WHEELSONRAIL

#### **OUR STORY**

It all started with the issue of storing my 2 bikes. I have spent most of my life in riding and enjoying bicycles. Riding for enjoyment, different levels of racing, office commute, and personal transportation. They've been and will always be a part of my life, even if they're difficult to store!

Life changed when I started a family. My partner and I continued to ride and have fun, and we added another bike to the mix. But soon, our three bikes became a storage problem in our home. I began researching ways to store multiple bikes efficiently and explored various options available on the market. However, I found some of systems, but a few of them are expensive and a few are hard to use.

With more than ten years of experience as a professional automation design engineer. I thought, why can't we develop this into a product? I spend a year on developing and use the system. Subsequently, I refined my idea, released new parts, conducted extensive testing, and eventually we built the solid system. Designed with the goal of giving individuals like me access to the greatest vertical bike storage solutions. No compromises in design, manufacturing, quality standards, aesthetics and environmental responsibility.

I love biking and believe in its physical and mental health benefits. I want more people to enjoy biking without storage hassles. So, I offer a dependable vertical bike storage system as a smart solution. My aim is to free people from storage problems and let them live an active life with ease, whether at home or work.



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#### **GENERAL NOTE**

These instructions are for installing the Wall Mounted BikeRail to wall or a custom structure. For other products, follow their specific instructions.

## WARNING: DO NOT INSTALL THIS KIT INTO PLASTERBOARD ONLY. IT MUST BE ATTACHED TO A STRONG STRUCTURE THAT CAN SUPPORT THE LOAD!

BikeRail is easy to install, but you need some DIY experience to do it safely. Get professional help if needed.

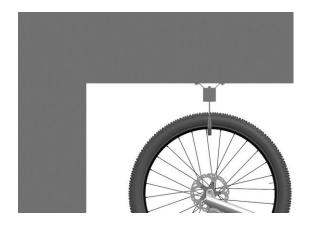
Make sure you install your BikeRail Kit correctly. A poorly installed BikeRail can stop the trolley from working properly and affect your enjoyment.

Each BikeRail Kit holds four average-sized bikes. Add more rails for extra storage or larger bikes.

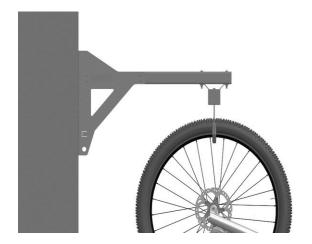
For help, contact our experts or visit <u>www.wheelsonrail.com</u>. Watch our installation video here.

Discover our various mounting options for this versatile system, allowing you to store your bike conveniently at your own pace.

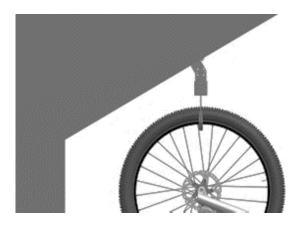
**CEILING MOUNTED SYSTEM** 



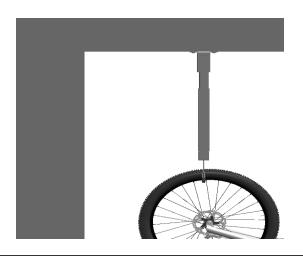
WALL MOUNTED SYSTEM



**ANGLE MOUNTED SYSTEM** 



**EXTENDED CEILING MOUNTED SYSTEM** 





#### **WARNINGS**

**Suitability for the Structure:** Wheelsonrail Products does not take responsibility for the structure to which this product is installed. The customer must ensure the structure is suitable.

**Sharp Edges:** Despite efforts to remove sharp edges, the rail ends can still be sharp. Handle with care during installation.

**Correct Installation:** Objects can fall from the BikeRail system if not correctly hung. Ensure proper installation.

**Secondary Rail Suspension:** Do not suspend a secondary rail from the first rail without ceiling support, even momentarily during installation.

End Caps: Make sure End Caps are secured correctly to prevent Bike Hooks from falling off the BikeRail.

**Avoid Impact:** Do not bump the End Caps with the Bike Hook during bike movement. They are not designed to absorb heavy impacts.

**Shock Loads:** BikeRail is not suitable for shock loads. Gently place objects on the Bike Hook.

**Children:** This product is not a toy and should not be used by children.

**Safety Equipment:** Always wear appropriate safety equipment when using power tools during installation.

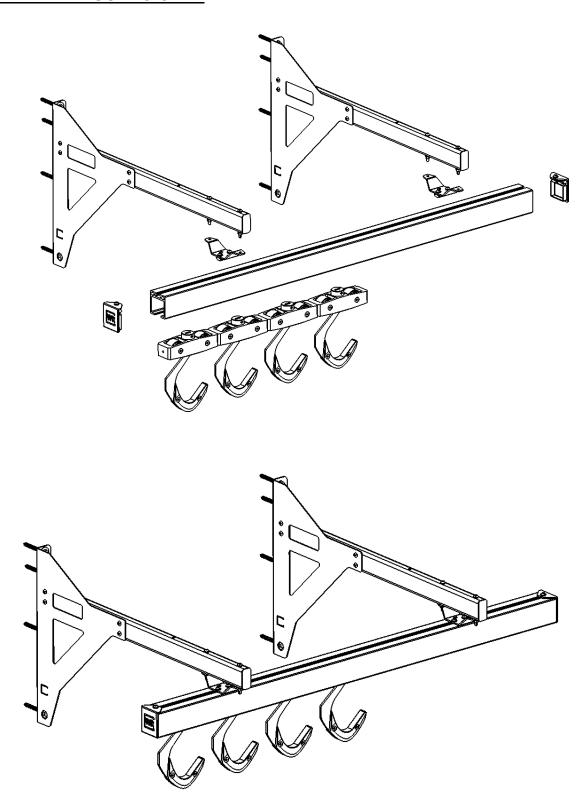
**Check Bike:** Check that the bike is safe for use and all hanging adapters are removed each time it is taken off the BikeRail.

**Human Suspension: NEVER USE FOR HUMAN SUSPENSION!** 



## **PARTS IDENTIFICATION**

## **BIKERAIL WALL MOUNT SYSTEM**





## WHAT'S IN THE BOX

PARTS NAME	IMAGE	QTY
Bike Rail		1
Tube Bracket		2
End Cap		2
Rail Connector		Depends upon your ordering
Bike Hook		Depends upon your ordering
M6X70 Socket Allen Screw		4
M6 Nyloc Nut		4
M6X12 Socket Button Screw		6
M6 Washer		14
M6 T-Nut		6

**Note:** The above parts list includes one Bikerail system. The hook may vary depending on your order. The rail connector is included only with the 2 Bikerail system.



## WHAT'S IN THE BOX – WALL MOUNTING KIT

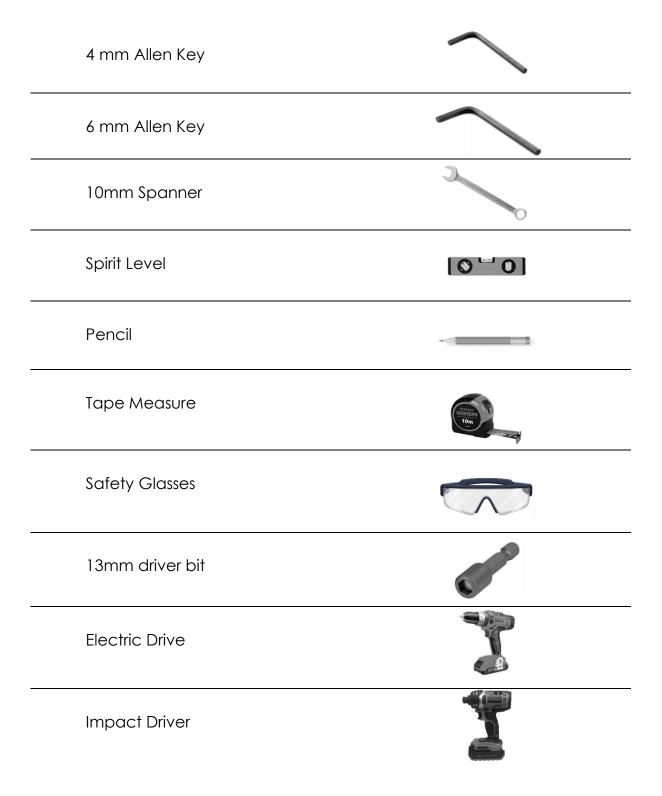
PARTS NAME	IMAGE	QTY
Wall Bracket	: : :	2
Wall Tube		2
M8 *60 mm Hex Head Screw	All distribution (2)	8
M8*25 mm Plain Washer		8
M6X35 Socket Button Screw		8
M6 Washer		16
M6 Nyloc Nut		8
Nylon Wall Plug		8

**Note:** The use of wall plugs may be optional or required, depending on the installation surface.



## **TOOLS REQUIRED**

As a cyclist, we expect you to already have most of the tools needed for this installation.



**NOTE:** A helper and Stud finder are not essential but will make the installation process easier and safer.



#### SYSTEM CONFIGURATION LAYOUT

#### **MOUNTING POSITION**

Your BikeRail Kit can be installed in various settings, but you should follow a few essential mounting guidelines:

BE MINDFUL OF WATER, GAS PIPES, AND ELECTRICAL CABLES. ALWAYS CONSULT A PROFESSIONAL IF IN DOUBT.

Each rail must be supported by a minimum of two wall brackets, with each bracket having multiple wall fixings.

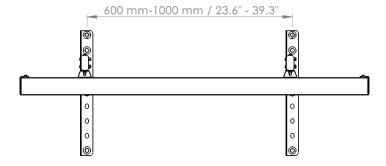
Choose structurally sound mounting points to ensure a flat, parallel installation. Use a spirit level to check. For other type of mounts, refer to the manufacturer's website for alternative solutions.

Supplied screws need at least 50mm (2 inches) of thread engagement in solid timber for full strength. For non-timber structures, you'll need to use your own fixings.

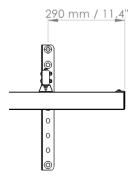
Rail Mounts are adjustable and should be spaced 600mm to 1000mm (23.6 to 39.3 inches) apart. Common beam or joist spacing in buildings is 400mm (15.7 inches), 500mm (18.7 inches), or 600mm (23.6 inches). Use a Stud Finder to ensure accurate support structure location, especially with boarded ceilings. Incorrect placement can lead to failure in supporting BikeRail's load.

The maximum cantilever length from the center of the Ceiling Plate to the Rail's end is 290mm (11.4 inches).

Rail Mount spacing: 600mm - 1000mm (23.6" - 39.3")



Maximum cantilever length: 290mm (11.4")

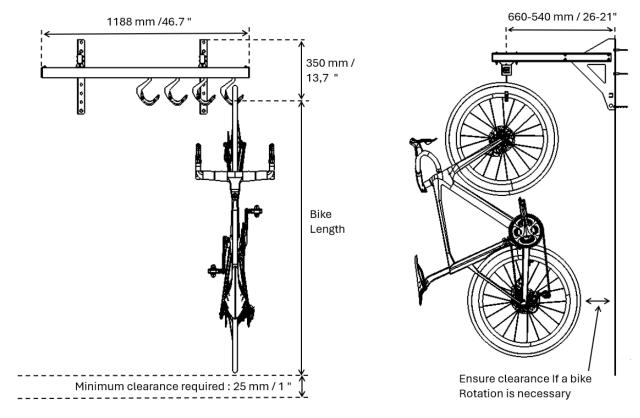




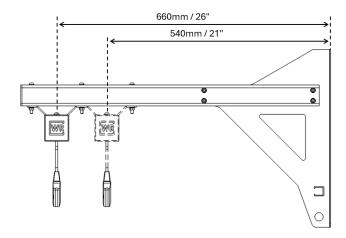
#### MOUNTING HEIGHT AND PARALLEL MOUNTING TO THE WALL

Ensure there is enough height to hang your bikes with their wheels off the floor. The Rail and Trolley system needs about 350mm (13.7") of vertical space from the top of the wall bracket to the inside of the bike's front wheel rim.

The distance to mount your BikeRail Kit from any parallel wall depends on the size of your bikes and if they need to rotate when hung. Measure the largest bike's length and depth to ensure it can spin freely. For bikes with wide handlebars, you may need extra space.



To let bikes slide and spin freely without touching the wall, ensure the hooks are not angled in the rail and scraping the sides. The default mounting position for the Rails is 660mm (26") from any walls, allowing bikes to spin and slide freely. There is one other fixed position—540mm (21,3") limit bike rotation once hung.

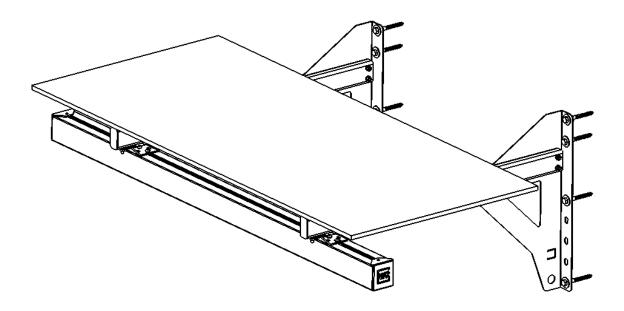




#### **SHELF BOARD MOUNTING**

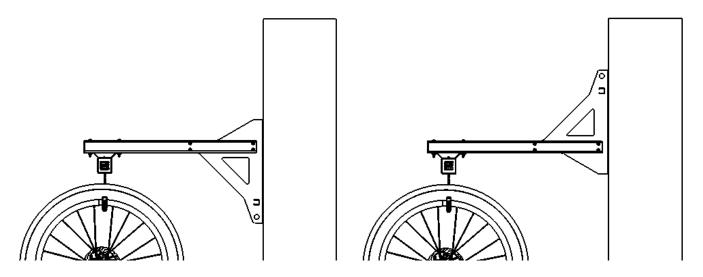
You can add a shelf board (not included) to the wall brackets for extra storage. Make sure the total weight on each rail section, including bikes, the shelf, and items, does not exceed 100kg (220lbs).

There are screw holes in the tubes for attaching a shelf board, but the screws are not included.



#### **WALL BRACKET ORIENTATION**

The Wall Brackets can be installed either way. Use different orientations to add strength or avoid obstacles. Always use the two outer holes and two middle holes for secure installation.

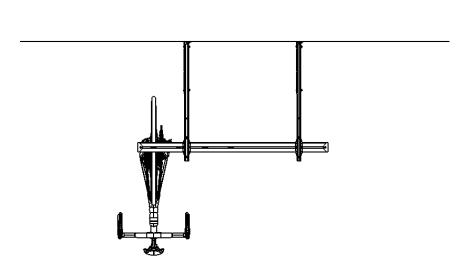




#### **SUGGESTED MOUNTING POSITIONS**

#### **OPEN AND FREE SPACE**

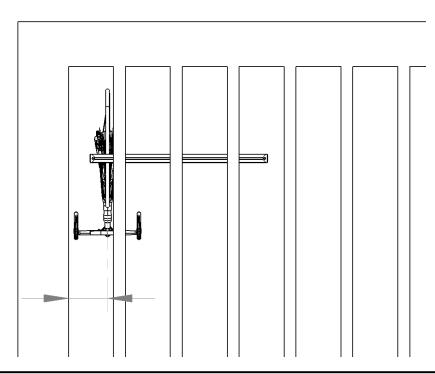
The BikeRail Wall Kit can be mounted parallel with a wall with both ends of the system accessible or can be located in free space.



#### **IN A CORNER**

For corner installation, it's crucial to ensure the handlebar of the last bike doesn't make contact with the adjacent wall.

Measure the bike's length from the middle of the stem to the handlebar tips. To optimize rail utilization, use this measurement to position your BikeRail and make sure it is far enough away from the wall. We suggest placing the last bike's handlebar in close contact to the wall, without really touching it.





#### **INSTALLATION**

#### **LOCATE POSITION AND MARK BRACKET LOCATIONS**

The Wall Bracket must be screwed into a strong structure and not just into plasterboard or other weak materials!

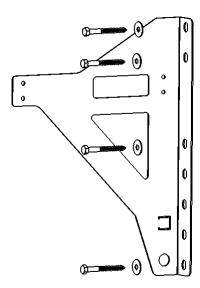
Make sure the mounting points for the Wall Brackets are flat, solid, and parallel. If they are not, the Rail might be angled, misaligned, or twisted, which will cause it to not work properly.

If you are installing more than one Rail, measure the distance between mounting points to ensure the structure at each Wall Bracket location is suitable.

#### ATTACH THE WALL BRACKETS TO WALL

Attach the wall brackets to the wall using the right fixings. If you are installing more than one Rail, mount all brackets first and check they are level and vertical using a spirit level.

Use as many fixing points as needed to spread the load across the wall. You can also use extra wall battens or boards to help spread the load if needed. (Only timber fixings are included.)



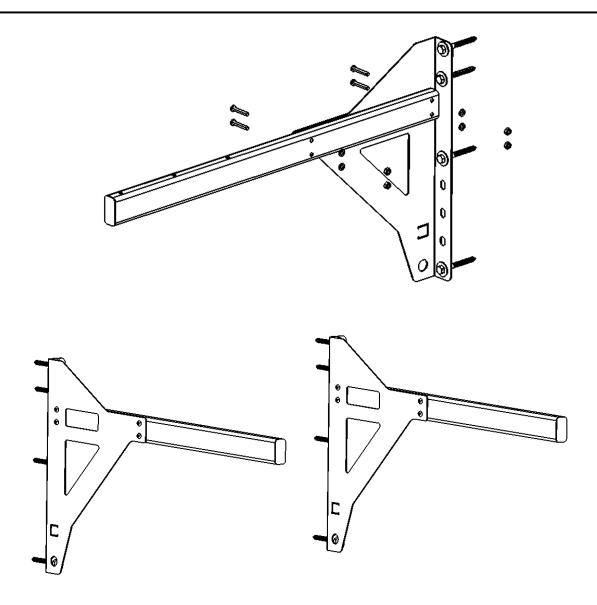
#### **ASSEMBLE TUBES TO WALL BRACKETS**

Place the M6 x 20mm Bolts through the M6 Washers and then through the holes in the tubes. Attach them to the wall bracket.

Add M6 Washers and screw on the M6 Nyloc Nuts. Be careful not to crush the sides of the tube by over-tightening.

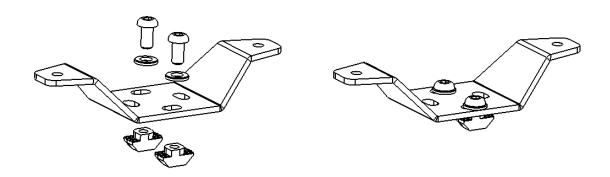
Repeat for all Wall Brackets.





## **ASSEMBLE- RAIL MOUNTING BRACKET**

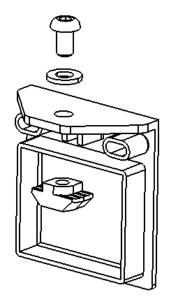
Insert the M6 x 12mm Button head Allen Bolts through the M6 Washers and Rail Mounting bracket holes, then loosely screw them into the T-Nuts. Do not fully tighten.

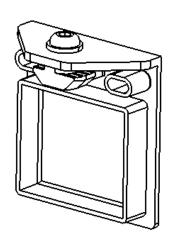




#### **ASSEMBLE- END CAP**

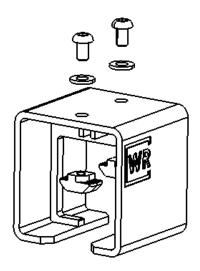
Insert the M6 x 12mm Button head Allen to End Cap holes, then loosely screw them into the T-Nuts. Do not fully tighten.

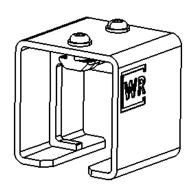




#### **ASSEMBLE- RAIL CONNECTOR**

Insert the M6 x 12mm Button head Allen to Rail connector holes, then loosely screw them into the T-Nuts. Do not fully tighten.



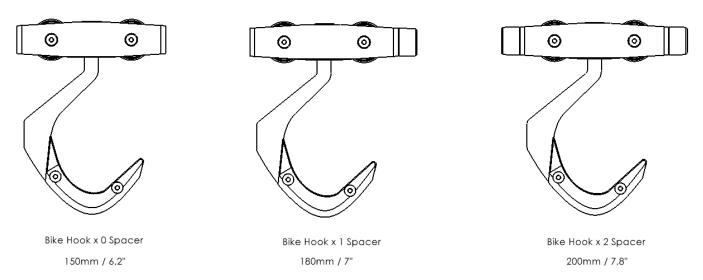




#### **ASSEMBLE AND PREPARE – TROLLEY UNIT (BIKE HOOK)**

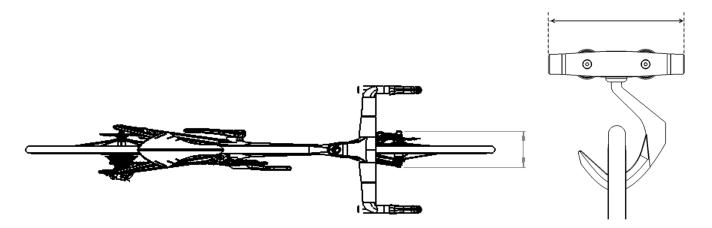
#### **ADJUST TROLLEY WIDTH**

You may adjust the width of your trolley to suit every bike and reduce the possibility of damage from compact storage.



#### **MEASURE BIKE WIDTH**

Measure the widest point of your bike at the front wheel axle. This will help you decide if you need spacers to keep it separated from other bikes when storing it in the trolley.



#### **INSTALL SPACERS IF REQUIRED**

If you plan to use the Trolley in the middle with another Trolley on each side, follow these guidelines:

- If the bike width is less than 160mm (6.2"), do not use spacers.
- ➤ If the bike width is more than 160mm (6.2"), use spacers on both ends.

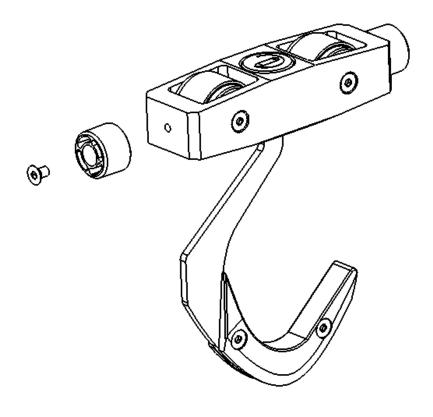
If you are using the Trolley at the first or last position, with a Trolley on only one side, follow these guidelines:



- > Do not use a spacer on the side next to the End Cap. This will give you the most usable length of the Rail.
  - > If the bike width is more than 160mm (6.2"), use one spacer on the side facing another Trolley.

< 160mm / 6.2" No Spacer No Spacer > 160mm / 6.2"	BIKE WIDTH (MAX WIDTH OF FRONT FORK)	CENTER HOOK	FIRST/ LAST HOOK
	< 160mm / 6.2"		
		No Spacer	No Spacer
2 x Spacer 1 x Spacer (Beside the other bike)	> 160mm / 6.2"		1 x Spacer (Beside the other bike)

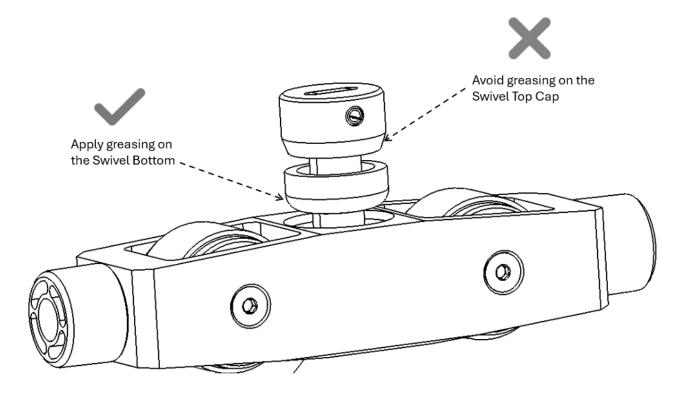
Attach the spacers using the 4mm countersink screw with 4mm Allen key.



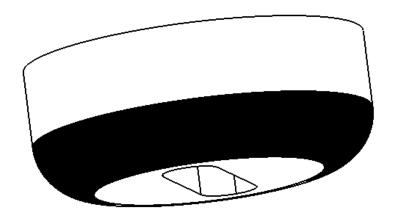


#### **TROLLEY UNIT- SWIVEL BOTTOM GREASING**

Always apply grease to the Swivel bottom before first use. Avoid getting grease on the Swivel top cap area as it will reduce the mechanism's performance.



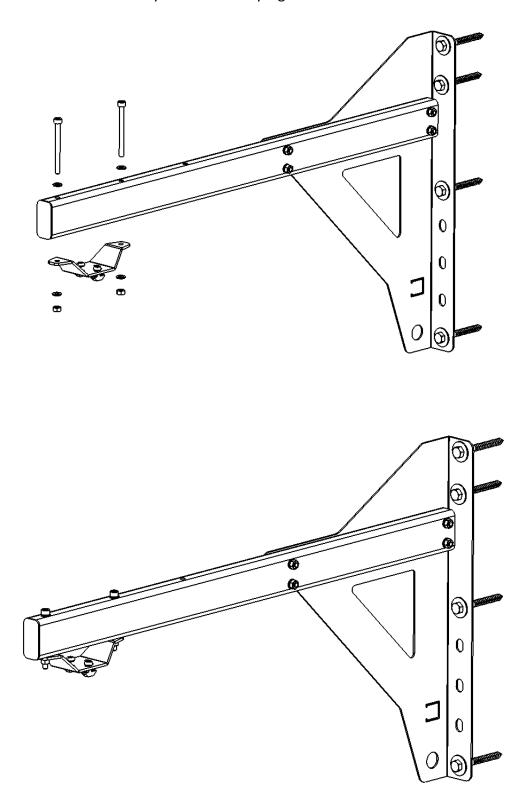
NOTE: THE HIGHLIGHTED BLACK AREA NEEDS GREASING





## **ASSEMBLE RAIL MOUNTS TO TUBES**

Put M6 x 70mm Allen bolts with washers through the holes in the tube. Attach the Rail Mounts to the tubes, using an M6 washer and an M6 Nyloc Nut. Loosely Tighten.

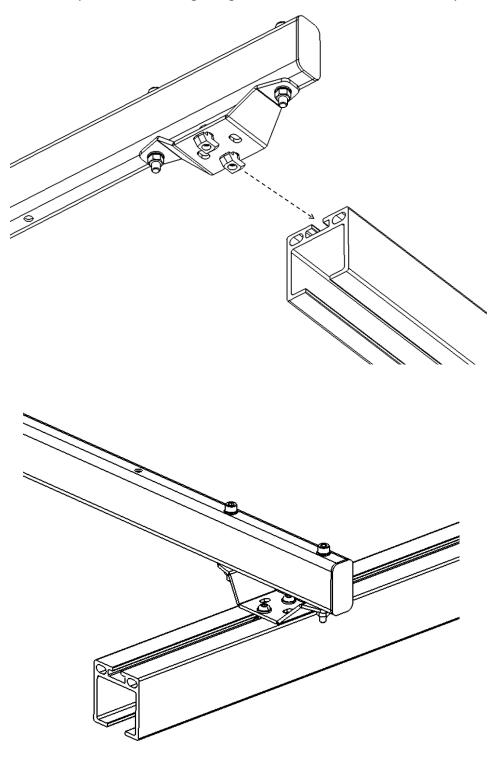




#### **INSTALL RAIL INTO RAIL MOUNTING BRACKET**

Slide the Rail into place by lining up the T-Nuts with the track on top of both wall brackets.

Once the Rail is in the correct position and straight, tighten the nuts and bolts all the way.



**Note:** Make sure the Rail is level, parallel to nearby objects, and not bent or twisted.

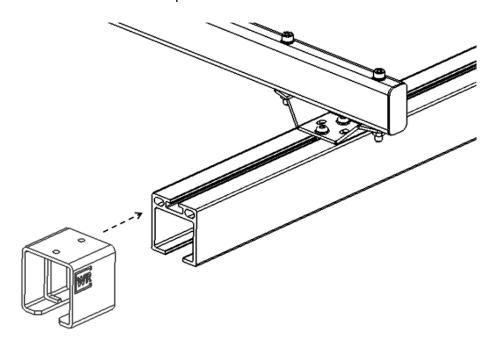
Use a spirit level to check and adjust if needed.



#### **INSTALL ADDITIONAL BIKERAIL KIT**

#### If applicable,

Before attaching the second rail to the mounting structure, connect the rail joiner to the rail and loosely tighten the M6 x 12mm bolts to hold it in place.



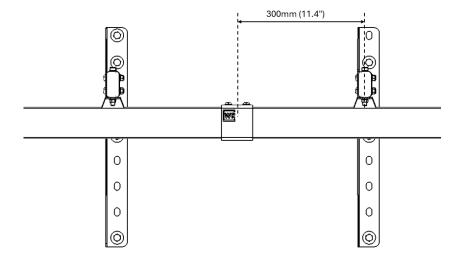
Check where the second rail will go. Attach the rail mounts to the second rail.

Attach the second rail to the first rail, making sure it is well supported. Check the mounting locations and repeat the installation process.

Do not rely on the joiner alone to support the second rail!

Ensure both rails are parallel and aligned. Screw the second rail to the ceiling and evenly tighten the bolts in the joiner.

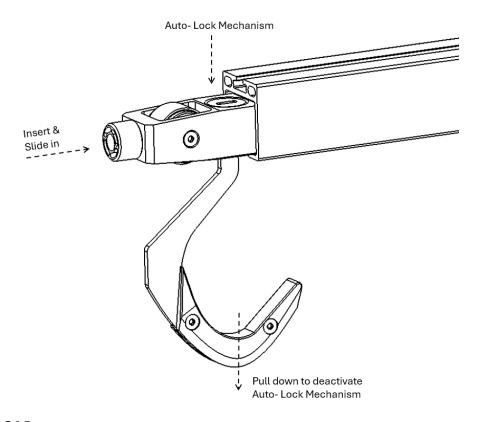
WARNING: DO NOT MOUNT IF THE CENTER OF THE CONNECTOR IS MORE THAN 290MM (11.4") AWAY FROM THE CENTER OF A RAIL MOUNTING BRACKET.





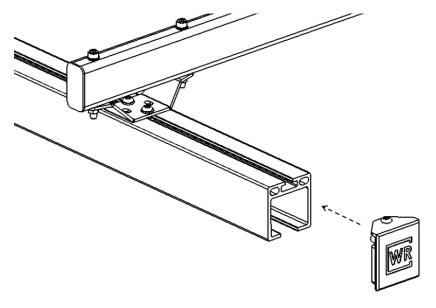
#### **INSERT TROLLEY TO RAIL**

- Align the Trolley's first wheel with the opening in the Rail and insert it. While holding down the Hook mechanism, support the Trolley and push it into the Rail.
- If the Trolley doesn't go in, the mechanism isn't pulled down fully, and the Top Cap is blocking the way.
- Pull the Hook down and ensure the Trolley moves smoothly along the Rail.



#### **INSERT END CAP**

Align T-nuts to Rail and slide End Cap into Rail and tighten the screw. Check all components have been securely tightened.





#### FREQUENTLY ASKED QUESTION

#### Do you deliver to my country?

Absolutely! We ship to all countries through our trusted delivery partner, xxxxx.

#### What is the length of each rail section?

Each rail section measures 1188 mm or 46.7 inches.

#### Does the BikeRail kit include all necessary installation components?

Yes, our complete kit provides everything required to set up your bike storage system hassle-free.

#### Can I hang a Fat Bike on it?

Our standard hooks accommodate tires up to 3 inches. We're also developing hooks for larger tires, specifically designed for 4 to 5-inch tires.

#### How far from the wall should the BikeRail be mounted?

For optimal functionality, we recommend 600-700mm if you plan to hang and rotate your bikes. If rotation isn't necessary, the rail can be mounted closer to the wall, with a minimum distance of around 550mm.

#### What tools are necessary for installation? Are they included?

In line with our environmental commitment, we've chosen not to include disposable tools. However, our instruction manuals list the simple tools required for installation.

## **WARRANTY / RETURNS**

Our products come with a comprehensive 2-year unlimited use warranty, applicable even in commercial and workshop environments. Refer to our warranty policy for complete information.

We design our products for easy servicing, guaranteeing their longevity in operation. Should you need replacement parts beyond the warranty duration, they are readily purchasable on our website.

If you have problems with your product or questions, Kindly contact us for support.



#### **MAINTENANCE**

Your Rail Kit is generally very low maintenance and should provide years of reliable use. Here are some basic maintenance tips:

**Rail Maintenance:** Keep the Rail clean and free from debris, especially on the surfaces where the Bike Hook wheels run. This prevents wear and ensures smooth operation.

**Cleaning Method:** Use a soft cloth to wipe the Rail. For hard-to-reach areas, consider using compressed air to remove debris.

**Hook Maintenance:** Regularly grease the bullet on the hook to maintain its longevity. Be careful to avoid getting grease on the top cap to prevent dirt accumulation and ensure proper functioning.

#### **PERIODIC CHECKS**

Perform these checks periodically to ensure the safety and functionality of your bike storage system:

**Mounting Area:** Inspect the structural integrity of the area where the Rail Kit is mounted. Look for signs of wear, damage, or any compromise in stability.

**Bolts and Screws:** Check the tightness of all bolts and screws. Tighten any that may have become loose over time to maintain the stability of the system.

Wheels and Impact Areas: Examine all components, especially the wheels and impact areas, for any signs of wear or damage. Replace any worn-out parts to prevent malfunction.

**Trolleys:** Ensure that the trolleys move freely when loaded. If they are not moving smoothly, inspect for obstructions or damage and address accordingly.

**Spring Mechanisms:** Test the spring mechanisms to ensure they function correctly when unloaded. Proper spring tension is crucial for the reliable operation of the system.

NOTE: BY FOLLOWING THESE MAINTENANCE AND PERIODIC CHECK GUIDELINES, YOU WILL ENSURE THE LONGEVITY AND RELIABILITY OF YOUR BIKE STORAGE SYSTEM, PROVIDING A SECURE AND CONVENIENT SOLUTION FOR BIKE STORAGE.



## NOTES



## NOTES

## MADE IN INDIA by WHEELSONRAIL

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## Got your installation done? Share it at

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