PRODUCT BROCHURE

DIY Trailer Racks

Your trailer, your framing, our racks — 2 bikes per rack

Already have a trailer? Buy GripSport **DIY Trailer Racks**, fabricate your own framing to our specification, and end up with a bike trailer built exactly the way you want it.



Pictures show previous GripSport builds. Framing designs, features and colours vary from one build to another.

2 bikes per rack

Supplied in a 2-bike configuration

30kg per bike

Rated capacity, every bike type

Contact us

For a quote on your rack numbers

WHO IT'S BUILT FOR

Trailer owners

If you already have a standard box trailer with 40mm sides or a lip around the edge, our DIY Trailer Racks can be installed onto it. Fabrication required.

RACKS ONLY, FRAMING IS YOURS

Fabricators and workshops

Build the support framing yourself, or have a qualified fabrication shop build it to the specification in this brochure.

WELDING AND ENGINEERING REQUIRED

WHAT THE RACKS DO

- ✓ GripSport bike racks, the industry standard
- ✓ Supplied in a 2-bike configuration
- ✓ Rated to 30kg per bike
- ✓ Approximately 15kg per rack
- ✓ Suits mountain, road, gravel, e-bike and kids bikes
- ✓ Fat bikes suited with fat bike hoops *(tyres over 2.7")*
- ✓ Mount to your own custom support frame
- ✓ Made in Melbourne since 1999

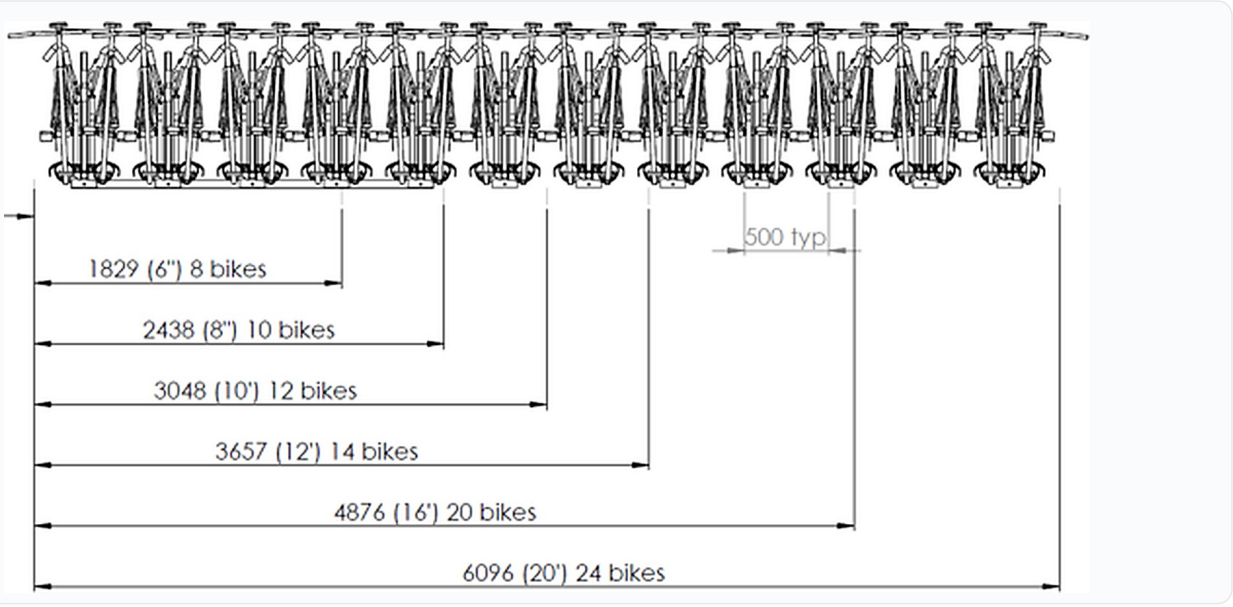
No trailer? Contact GripSport for a complete trailer system tailored to your requirements — trailer, framing and bike racks in one solution, delivered registered, road legal and fully assembled.

DIY Trailer Racks

Size guide

RACK LAYOUT AND SPACING

One DIY Trailer Rack carries 2 bikes. Racks are spaced at approximately 500mm centre to centre, so the length available along your trailer sets the number of bikes you can carry.



Bike capacity against usable trailer length. Dimensions in millimetres, with imperial trailer sizes in brackets.

BIKES, RACKS AND TRAILER SIZES

BIKES	DIY RACKS	CROSS BEAMS	GUIDE TRAILER SIZE	RACK WEIGHT
6	3	2	6 × 4 ft *1830 × 1220mm*	45kg
8	4	2	6 × 4 ft *1830 × 1220mm*	60kg
10	5	2	8 × 4 ft *2440 × 1220mm*	75kg
12	6	2	10 × 4 ft *3050 × 1220mm*	90kg
14	7	3	12 × 4 ft *3660 × 1220mm*	105kg
20	10	3	16 × 5 ft *4880 × 1525mm*	150kg
24	12	3	20 × 5 ft *6100 × 1525mm*	180kg

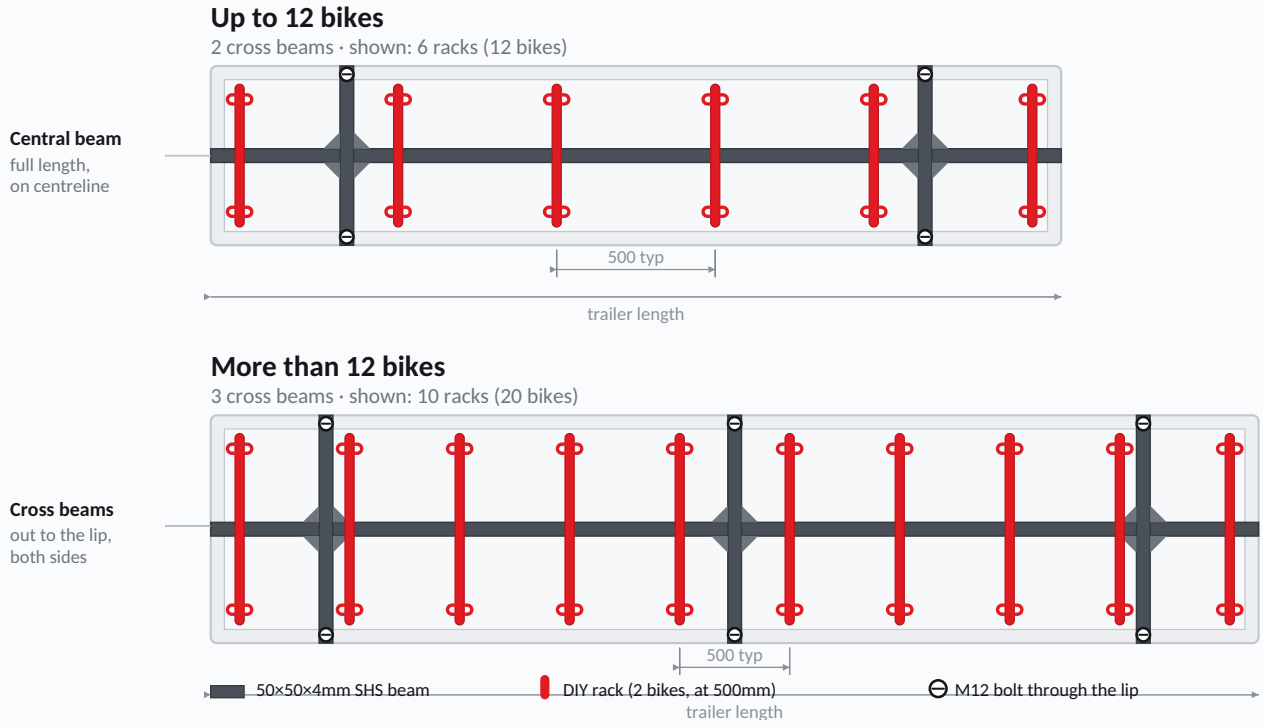
Rack weight is the total weight of the racks only, at approximately 15kg each.

WORKING OUT YOUR CAPACITY

- ✓ One rack per 2 bikes, spaced at approximately 500mm centres
- ✓ Up to 12 bikes: 2 cross beams
- ✓ More than 12 bikes: 3 cross beams recommended
- ✓ Capacity depends on trailer size, load rating and mounting space
- ✓ Each rack weighs approximately 15kg and carries 2 bikes
- ✓ Fit a braking system where required, as determined by the ATM

THE H-FRAME

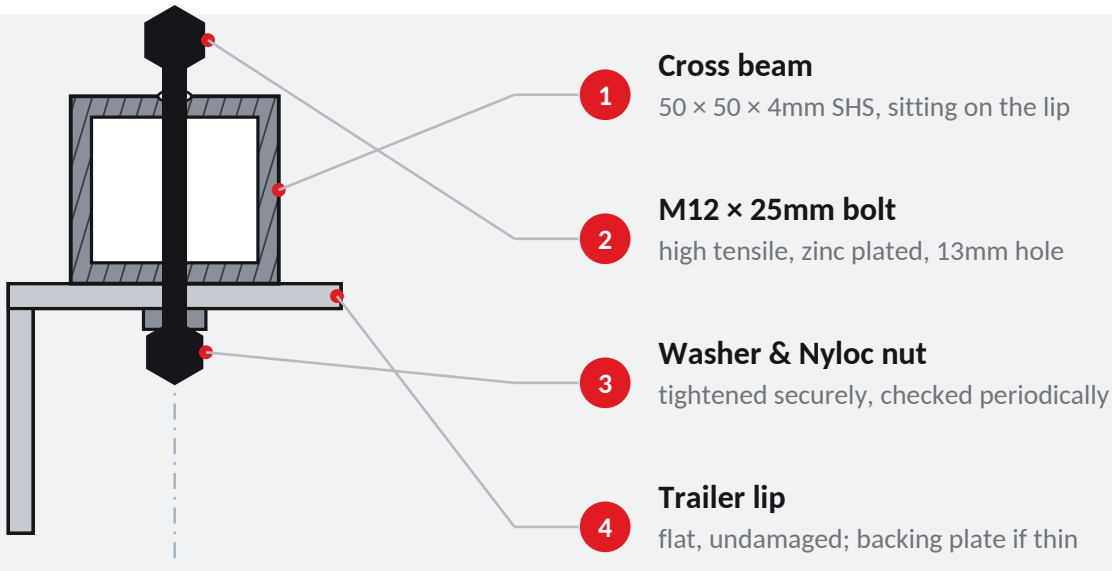
The framing is a simple H: one central beam running the length of the trailer on the centreline, with cross beams out to the lip on both sides. Racks bolt to the central beam, so the plan below shows the racks (in red) running across the trailer, spaced at approximately 500mm centres.



Plan view, from above. Up to 12 bikes uses 2 cross beams; more than 12 bikes uses 3. Indicative layout only, not to scale — the frame must be designed and fabricated by a qualified tradesperson.

FIXING DETAIL

Each cross beam sits on the trailer lip and is bolted down. Use a backing plate wherever the trailer material is thin, and keep adequate edge distance from the drilled holes.



DIY Trailer Racks

Framing specification and installation

FRAMING SPECIFICATION

The H-frame must be fabricated by a qualified tradesperson or competent welder. Engineering knowledge, accurate measurement and proper welding practices are required.

Central beam	50 × 50 × 4mm SHS mild steel (or equivalent), installed longitudinally along the centre of the trailer. Racks bolt to this beam.	**Mounting**	The H-frame is bolted to the trailer's outer edge or lip. Ensure this surface is flat and free of any damage.
Cross beams	50 × 50 × 4mm SHS mild steel (or equivalent), welded perpendicular to the central beam and extended to the outer edges or lip of the trailer. Always include welded gussets at all joins for additional strength.	**Fixings**	M12 × 25mm high tensile zinc plated bolts *(not supplied)* , 13mm holes, flat washers, and Nyloc or locking nuts to ensure secure fastening.
Surface finish	Powder coating, galvanising, zinc plating or enamel coating for corrosion protection.	**Design loads**	Approximately 15kg per rack plus the combined weight of all bikes, typically 15–30kg per bike. Apply an appropriate safety factor and allow for dynamic loads during transport.

HOW IT WORKS

1. **Work out your capacity.** Confirm how many bikes you intend to carry and make sure your trailer can safely take the load. Order one rack per 2 bikes.
2. **Purchase your DIY Trailer Racks.** Contact us for a quote on the number of racks you need, then collect from Campbellfield, Melbourne or have them delivered.
3. **Fabricate the H-frame.** Build the central beam and cross beams to the specification above, then finish for corrosion protection.
4. **Bolt the frame to your trailer.** Allow adequate edge distance when drilling, and use reinforcement or backing plates where the trailer material is thin.
5. **Install the racks.** Assemble strictly in accordance with the supplied GripSport instructions, at approximately 500mm centres, with wheel holders clear of structural members for tyre clearance.
6. **Check, load and inspect.** Confirm every bolt is tight, keep the load even across the trailer, and inspect bolts, welds and mounting points regularly.

BEFORE YOU ORDER

- A box trailer with 40mm sides or a lip around the edge
- A flat, undamaged mounting surface along both edges
- A qualified welder or fabrication shop for the H-frame
- 50 × 50 × 4mm SHS for the central and cross beams
- M12 × 25mm high tensile bolts, washers and Nyloc nuts
- Brakes and compliance to suit your trailer's ATM

DIY Trailer Racks

Questions, quotes and the fine print

FREQUENTLY ASKED QUESTIONS

Can I fit them to any trailer?

If you have a standard box trailer with 40mm sides or a lip around the edge, you can install our DIY Trailer Racks onto it. The mounting surface needs to be flat and free of damage.

Which bikes fit?

Mountain, road, gravel, e-bikes and kids bikes, up to 30kg per bike. Fat bikes are suited with fat bike hoops, required for tyres over 2.7".

How much do the racks cost?

Contact us for a quote on the number of racks you need. Collection is from Campbellfield, Melbourne, and delivery can be arranged for an additional cost.

Is there a warranty?

Yes. All GripSport Bike Racks, including DIY Trailer Racks, carry a 5 year warranty on the rack itself. Cover is conditional on the rack being assembled and installed strictly in accordance with the supplied GripSport instructions, and the standard GripSport warranty process and conditions apply. For the avoidance of doubt, this warranty covers the GripSport rack only. It does not cover the trailer, custom framing, bicycles, or any other equipment used with the rack.

What do I get when I buy DIY Trailer Racks?

The racks only, supplied in a 2-bike configuration and designed to be mounted to your own custom support frame. The trailer and the framing are yours to supply.

How many racks do I need?

One rack per 2 bikes. 8 bikes is 4 racks, 10 bikes is 5 racks, 20 bikes is 10 racks. See the size guide on page 2.

Do you supply or build the framing?

No. Framing is fabricated by you or your fabrication shop, to the specification and visual guide on pages 3 and 4. If you would rather not fabricate anything, ask us about a complete trailer system instead.

How are the racks spaced?

At approximately 500mm centre to centre along the central beam. Keep the wheel holders clear of the cross beams so there is room for the tyres.

Are bolts supplied?

No. You will need M12 × 25mm high tensile zinc plated bolts with 13mm holes, flat washers, and Nyloc or locking nuts.

What about brakes, rego and roadworthiness?

That stays with you as the trailer owner. Make sure the trailer is fitted with a braking system where required, as determined by the ATM and the regulations that apply where you are.

Ready to build your own?

GripSport DIY Trailer Racks are the same proven racks fitted to our complete trailer systems — Australian-made, rated to 30kg per bike, mounted to framing you build to suit your own trailer.

Contact us today for a quote on the DIY Trailer Racks you need.

(03) 9466 2553 | www.gripsport.com.au

Responsibility. The purchaser and/or installer bears sole responsibility for ensuring that the trailer, including any modifications or additions, complies with all applicable laws, regulations and standards in the relevant jurisdiction, including requirements relating to braking systems, lighting, load restraint, dimensions and roadworthiness. The purchaser and/or installer is solely responsible for the design, fabrication and installation of any custom framing or mounting systems. Such framing must be engineered and constructed to safely support the static and dynamic loads imposed by the rack system (approximately 16kg per 2-bike configuration) in addition to the full weight of any bicycles and associated equipment. All materials, fasteners and fabrication methods must be appropriate for the intended use and comply with applicable engineering practices and safety standards. All welds, joints and connections must be performed to a competent standard and regularly inspected for signs of fatigue, corrosion or failure, and any defects rectified prior to use. The purchaser and/or installer is responsible for ensuring that the installation does not adversely affect the structural integrity, handling or braking performance of the trailer. The manufacturer/supplier accepts no liability for damage, loss or injury arising from improper fabrication, installation, modification, overloading or use of the rack system outside its intended purpose.