



# **Bontrager Carbon TLR Rims**

# Bontrager Carbon TLR Rims

Thank you for buying a Bontrager TLR carbon fiber composite rim for mountain bikes. This rim is TLR (Tubeless Ready), which is compatible with the correct size of any tire type: Bontrager TLR, UST tubeless, and tube-type.

## Important: keep for future reference

This manual explains safe use and basic maintenance. Some tasks should only be done by your retailer, and this manual identifies them.

This manual references the complete wheel owner's manual, as well as your bicycle owner's manual. If you do not have a bicycle owner's manual, refer to the Trek bicycle owner's manual. You can view or download both the wheel and bicycle owner's manuals at [trekbikes.com](http://trekbikes.com)

If you have questions after you read the information in this manual and on our website, consult your retailer. If you have a question or problem that your retailer can not answer or repair, please tell us:

Bontrager Wheelworks  
Attention: Customer Service  
801 W. Madison Street  
Waterloo WI 53594  
[trekbikes.com](http://trekbikes.com)  
+1 920.478.4678

Bikeurope BV / Trek Benelux  
Ceintuurbaan 2-20C  
3847 LG Harderwijk  
The Netherlands  
+31-(0) 33-4500600 (BLX)

Trek Bicycle Corporation Australia  
Attention: Customer Service  
(Australia) Pty Ltd  
PO Box 1747  
Fyshwick, ACT 2609  
+61 (2) 6173-2400

## Package contents

Quantity	Item
1	Bontrager rim
1	TLR valve
1	TLR rim strip
36	Alpina locking nipples, 14 gauge

## For consumers

This information should be read by anyone riding a wheel built with this rim.

## Use conditions

This rim is for use only on a non-motorized bicycle. There is no weight limit.

See chart below to find out where your rim falls on the use conditions spectrum, which ranges from 0 (least stressful or challenging conditions) to 5 (most challenging).

Rim	Use condition	
Kovee XXX 29"	Condition 3	Rough technical areas and obstacles of moderate height. Jumps should be no more than 24" (61cm).
Line XXX 27.5" Line XXX 29"	Condition 4	Rough technical areas and obstacles of moderate height. Jumps should be no more than 48" (120cm)

For more information about use conditions, see your bicycle owner's manual or visit [trekbikes.com](http://trekbikes.com).

## Safety

The CPSC (Consumer Product Safety Commission) requires wheel reflectors. Read about reflectors in your bicycle owner's manual.

Your bicycle owner's manual includes information about safe riding and maintenance. Read and follow those instructions.

Do not exceed 50psi (3.4bar) inflation pressure with this rim. If your tire has a lower pressure rating, follow that as the maximum inflation pressure.

## Wheel building

Building a bicycle wheel requires special training, tools, and skill. Only a professional wheel builder should build a wheel with this rim.

## Requirements

This section explains the use and required maintenance for this rim. These tasks are normally performed by the owner.

- Only install a mountain bike tire that is 2.0" or wider. A narrower tire might not engage the rim correctly, which could allow it to blow off.
- Inflate the tire to the pressure written on the side of the tire (which should be within the 50psi maximum for the rim). Inflation above or below this pressure could cause damage to the rim or allow the tire to leak.
- If you are using this rim in tubeless mode, use only the rim strip and valve supplied with this rim, and make sure they are in good shape. Other parts or worn parts may allow air to leak.
- Do not use metal tire levers on this rim. A metal tire lever could damage the carbon fiber. Use Bontrager Tire Levers.
- Do not use this rim with a rim brake. The wear and heat from a rim brake can cause the rim to break.

## How to install a TLR tire on the rim

For detailed instructions and an instructional video, see [trekbikes.com/wheelmanuals](http://trekbikes.com/wheelmanuals).

1. Install the included TLR rim strip and valve. Make sure the TLR valve nut is finger-tight.
2. Install the tire.
3. Add sealant.
4. Inflate the tire to seat it on the rim. This can usually be done with a floor pump. Do not exceed either the rim maximum pressure or the maximum pressure indicated on the tire sidewall.
5. After the tire has seated, lower the pressure to your normal riding pressure.
6. Re-tighten the TLR valve nut.
7. Shake and rotate the wheel to disperse the sealant.
8. Install the wheel on your bike, and go enjoy your ride.

## Maintenance

After the first few hours of riding, check the wheel for trueness. Any time there is excessive up-and-down or side-to-side motion of the rim, have the rim re-trued.

Clean the rim with a soft, moist cloth and bicycle cleaner or a solution of dish soap and water. Do not use industrial solvents, harsh chemicals, or abrasive materials because they can damage the decals or carbon fiber.

Avoid heat. Excessive heat may damage the adhesive that joins carbon fibers together. Do not exceed 150°F (65°C) exposure to your rim. In an extreme case, this temperature may be reached inside a car that is in the sun.

For additional maintenance, follow the instructions in the Bontrager wheel owner's manual.

Do not modify the rim or its parts. Do not physically alter the rim. Only replace parts with original equipment or parts that are approved. If you are not sure what parts are approved, ask your retailer.

## Carbon composite

Pound for pound, carbon composite (carbon fiber) is stronger than steel or aluminum. Despite its high strength, carbon composite can still be overloaded (damaged or broken) in an impact, crash, or through mishandling.

After any incident, carefully inspect the rim. Be aware that the carbon composite could appear normal but have internal or hidden damage. If you see any damage, or suspect internal or hidden damage, please stop riding your bicycle immediately and take the rim to your retailer for inspection.

### CARBON WARNING:

*A damaged carbon fiber part can break suddenly, causing serious injury or death. Inspect for damage frequently. If you suspect a carbon fiber part is damaged, replace the part before riding, or take the bike to your retailer for service.*

## Bontrager Limited Warranty

Bontrager rims are warranted to be free of defects in materials and workmanship.

This warranty applies only to this rim, not to the wheel. It does not cover damage resulting from wheel building.

For details, visit [trekbikes.com](https://www.trekbikes.com) or a retailer near you.

# Wheel building information for retailers or professional wheel builders

Please read this manual in its entirety before building a wheel with this rim.  
Also read any information supplied by the hub manufacturer.

## Tools required

- Spoke wrench: 5.5mm nut-driver
- Bladed spoke holder (if using bladed spokes)
- Spoke tension meter
- Truing stand
- Dishing tool

## Recommended parts

Remember to check the compatibility of the hub with the brake and rotor, and frame or fork spacing. The spokes on the drive side of the hub (either a cassette or a brake disc) must be laced with a minimum of two spoke crosses (2X). Use a 5.5mm nut driver spoke wrench.

Hub	Spokes, 14 gauge threading only	Nipples
Must be same drilling as rim	DT Swiss Aerolite	You <b>MUST</b> use 14 gauge Alpina locking nipples (included). The special thread-locking feature greatly enhances wheel life (and therefore rim life).
Compatible with 14 gauge spokes in 2X pattern	DT Swiss Aerocomp	
	DT Swiss Revolution	
	DT Swiss Competition	
Disc brake only	DT Swiss Champion	

## Specifications

<b>Rim</b>	<b>ERD</b> (with Alpina nipples)	<b>ETRTO</b>	<b>Final tension*</b>	<b>Total hop and wobble</b>	<b>Dish</b>
Line XXX 27.5"	551mm	584x29	79-136kgf	<0.3mm	<0.5mm
Line XXX 29"	590mm	622x29	79-136kgf		
Kovee XXX 29"	594mm	622x29	79-136kgf		

*\*Note: Final tension refers to rear driveside spokes or front disc-side spokes without a tire installed. If there is a conflict, do not exceed the hub manufacturer's specifications.*



## About this manual

This is the manual for your  
Bontrager Carbon TLR Rims.  
Check for updates at  
[trekbikes.com/wheelmanuals](https://trekbikes.com/wheelmanuals).