



About RSL

It all comes down to the question of stance and bracing angles. Wheel makers are all trying to create an isosceles triangle (or two equal right triangles) when an equal number of spokes are on each side. This aids in the equalization of spoke tension. This is where the wheel will get many of its positive or negative attributes. Because of the limits of the rear spacing and the fact that in that space you must have 8, 9, 10 and now 11 speeds (cogs), a disc brake rotor and room for caliper clearance it becomes very difficult to optimize.

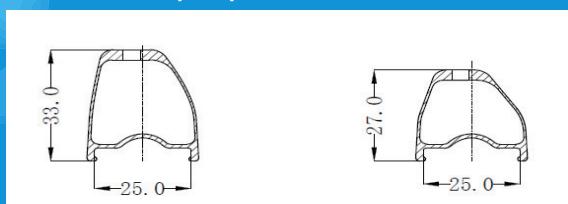
Possible solutions to the problem:

1. You can have a high/low flange on the hub – This moves the high flange spoke angle a few degrees more than the short flange
2. You can have rim offset – this moves both left and right spokes in the same direction and gets you the largest benefit.
3. You can “stack” the hub lacing if you have room. That will get you a little more width.
4. You can have the spokes kiss or brace each other. That will gain some stiffness.

We looked at the problem from the outside in. What if we created a high/low flange effect on the rim and why hadn't anyone thought of this before.

1. As with the High/low flange we were able to see a small change in bracing angle in the correct direction.
2. In addition to this the rim itself became stronger due to the large “box sections” in the design.
3. The enhanced stiffness and strength allowed us to bring the weight to a respectable 410 grams considering its 25mm inner width and deep sections. This is an enduro / Trail rim in 27.5.
4. Finally, we were very happy with the aesthetic/optic or appearance of the rim. This is the comment we get most as riders are drawn to it. As much as we love the technology people are drawn to the rim for its look.

Boxed shape profile.

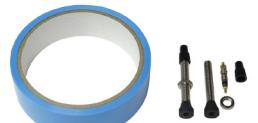
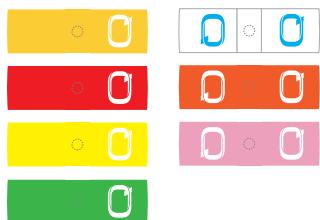


The RSL design not only resulted in its stunning looks, it also gave birth to a box section rim that provides superior lateral stiffness and strength. The stiffness of the box section makes the wheel handle corners like a dream while providing greater overall wheel strength.

27.5 Enduro



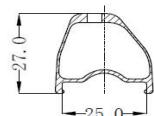
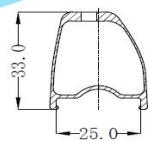
SHIMANO



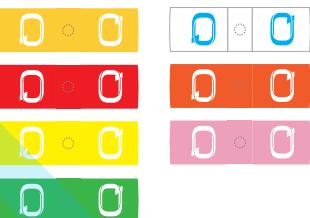
Weight 1520 g
Rim weight 410 g
offset 3mm
Spokes CX-Ray
Spoke Diameter 2.0 - (0.9x2.2) - 2.0 mm
Spoke count F28 X R28
Spoke tension 120 Kgf max
Carbon Composite T700, T800

Carbon weave UD
High profile 33mm
Low profile 27mm
Outer width 28.9
Inner width 25
ETRTO 586
Front bearings 2x
Rear bearings 4x

F hub weight 134 g
R hub weight 290 g



2x20 S Boost

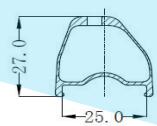
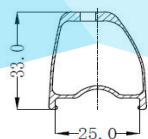


Weight 1569 g
Rim weight 410 g
offset 3mm
Spokes CX-Ray
Spoke Diameter 2.0 - (0.9x2.2) - 2.0 mm
Spoke count F28 X R28
Spoke tension 120 Kgf max
Carbon Composite T700, T800

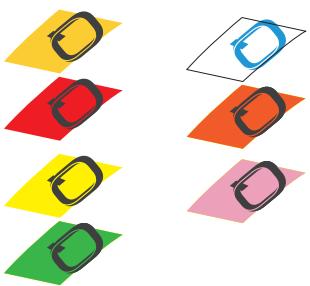


Carbon weave UD
High profile 33mm
Low profile 27mm
Outer width 28.9
Inner width 25
ETRTO 586
Front bearings 2x
Rear bearings 4x

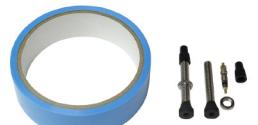
F hub weight 126 g
R hub weight 327 g
Optional: Aluminum freehub body



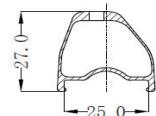
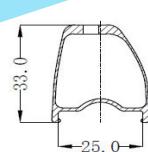
ISOS 29er



Weight 1593 g
Rim weight 415 g
offset 3mm
Spokes CX-Ray
Spoke Diameter 2.0 - (0.9x2.2) - 2.0 mm
Spoke count F28 X R28
Spoke tension 120 Kgf max
Carbon Composite T700, T800

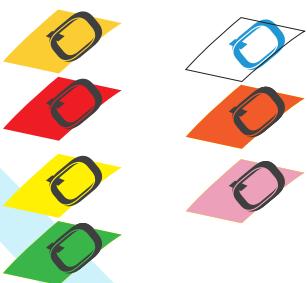


Carbon weave UD
High profile 33mm
Low profile 27mm
Outer width 28.9
Inner width 25
ETRTO 625
Front bearings 2x
Rear bearings 4x



F hub weight 132 g
R hub weight 290 g

ISOS B19er Boost

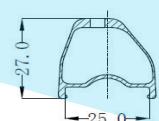
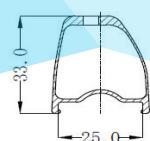


Weight 1633 g
Rim weight 415 g
offset 3mm
Spokes CX-Ray
Spoke Diameter 2.0 - (0.9x2.2) - 2.0 mm
Spoke count F28 X R28
Spoke tension 120 Kgf max
Carbon Composite T700, T800



Carbon weave UD
High profile 33mm
Low profile 27mm
Outer width 25
Inner width 28.9
ETRTO 625
Front bearings 2x
Rear bearings 4x

F hub weight 126 g
R hub weight 327 g
Optional: Aluminum freehub body



ISOS WHEELS



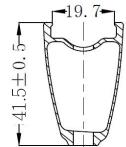
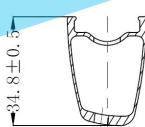
SHIMANO



Weight 1610 g
Rim weight 425 g
offset 0mm
Spokes CX-Ray
Spoke Diameter 2.0 - (0.9x2.2) - 2.0 mm
Spoke count F28 X R28
Spoke tension 120 Kgf max
Carbon Composite T700, T800

Carbon weave UD
High profile 39.3mm
Low profile 34.8mm
Outer width 25.5
Inner width 19.7
ETRTO 623
Front bearings 2x
Rear bearings 4x

F hub weight 120 g
R hub weight 267 g





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