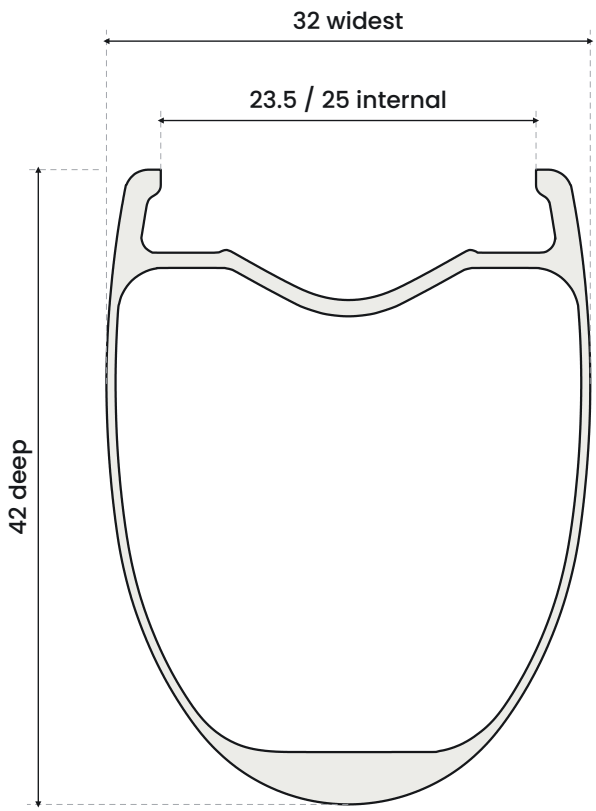
Venn 420 TCD UL

Road disc brake carbon rim, 42 mm deep, 1k filament wound, moulded spoke holes. 5-year rim warranty.



Section at 2:1 when printed at 100% on A4. Figures in mm.

ERD	**556.5 mm** Factory figure
Internal width	**23.5 or 25 mm**
External width	32 mm widest; 29.5 mm at the bead
Depth	42 mm
Weight	335 ± 15 g Raw finished rim, no clear coat
Wheel size	700c / 29" (ISO 622)
Spoke holes	20 or 24 Moulded in, not drilled: no fibre is cut around the holes
Maximum spoke tension	150 kgf
Brake	Disc
Tyre	Tubeless ready, hooked Tubeless or with inner tubes
Rider weight limit	110 kg

FOR THE BUILD

- **Spoke length.** Use the ERD above. Before cutting spokes for a full order, measure one rim from the batch.
- **Nipples.** Order with tool access holes for internal nipples (the rim then needs tubeless tape), or without them for a true tubeless rim bed (external nipples only).
- **Finish.** Gloss uncoated, matte uncoated or filament wound 25k (+25 g per rim). Decals: black or none.

TESTED

- **Impact:** 100 J pass mark for road disc brake rims. The UCI's wheel requirement is 40 J (ISO 4210-7). A pass mark is the energy every rim must pass, not a failure point.
- **Spoke holes:** pull-through tested; pass mark 300 kgf.
- Every rim model goes through the same programme: fatigue, run-out, spoke hole strength, lateral rigidity, tyre retention and heat.