Frame dimensions 3D motor bracket for straight seatstays

.....	.....	.....
first name	surname	bike model
.....		.....
desired name on motor bracket (e.g. first name)		date

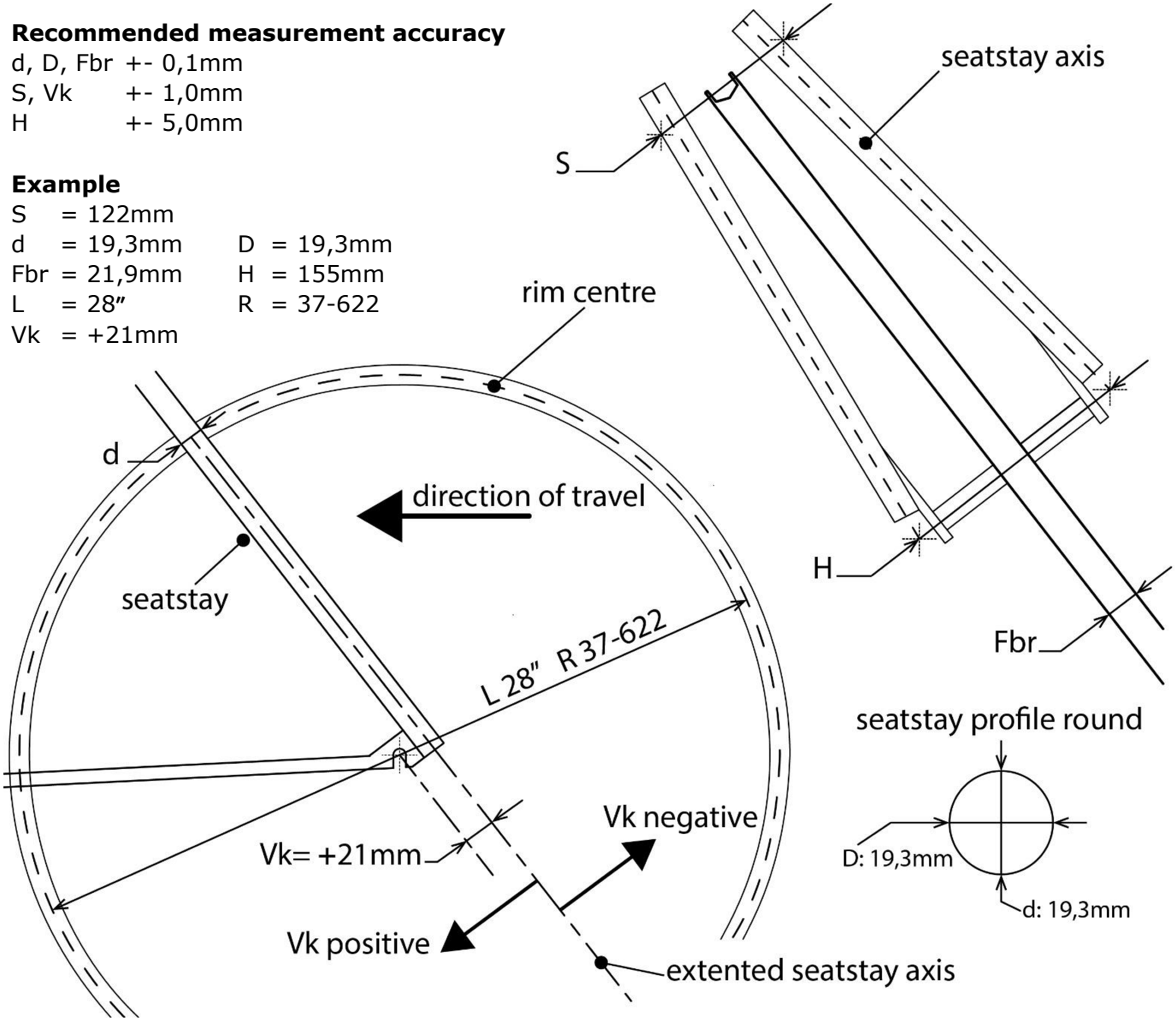
- „S" Outer distance of the seatstays at the rim centre height S = ...
- „d" Diameter of the seatstay at the rim centre height diagonally to the direction of travel d = ...
- „D" Diameter of the seatstay at the rim centre height in direction of travel D = ...
- Tick seatstay profile: ☐ round ☐ ellipse ☐ oval ☐ Free form see 3rd page
- „Fbr" Outer rim width Fbr = ...
- „Vk" Offset seatstay axis – rear wheel axle Vk = ...
- „H" Estimated distance of seatstay axis at the height of the rear wheel axle H = ...
- „R" Tyre dimension in ETRTO-dimension R = ...
- „L" Wheel size in inch L = ...

Recommended measurement accuracy

d, D, Fbr	+- 0,1mm
S, Vk	+- 1,0mm
H	+- 5,0mm

Example

S	= 122mm		
d	= 19,3mm	D	= 19,3mm
Fbr	= 21,9mm	H	= 155mm
L	= 28"	R	= 37-622
Vk	= +21mm		



Frame dimensions 3D motor bracket for curved seatstays

.....	.....	.....
first name	surname	bike model
.....		.....
desired name on motor bracket (e.g. first name)		date

Since the motor bracket sits at the height of the rim, the axis (extended downwards) of this seatstay section is decisive for the geometry of the rear triangle.

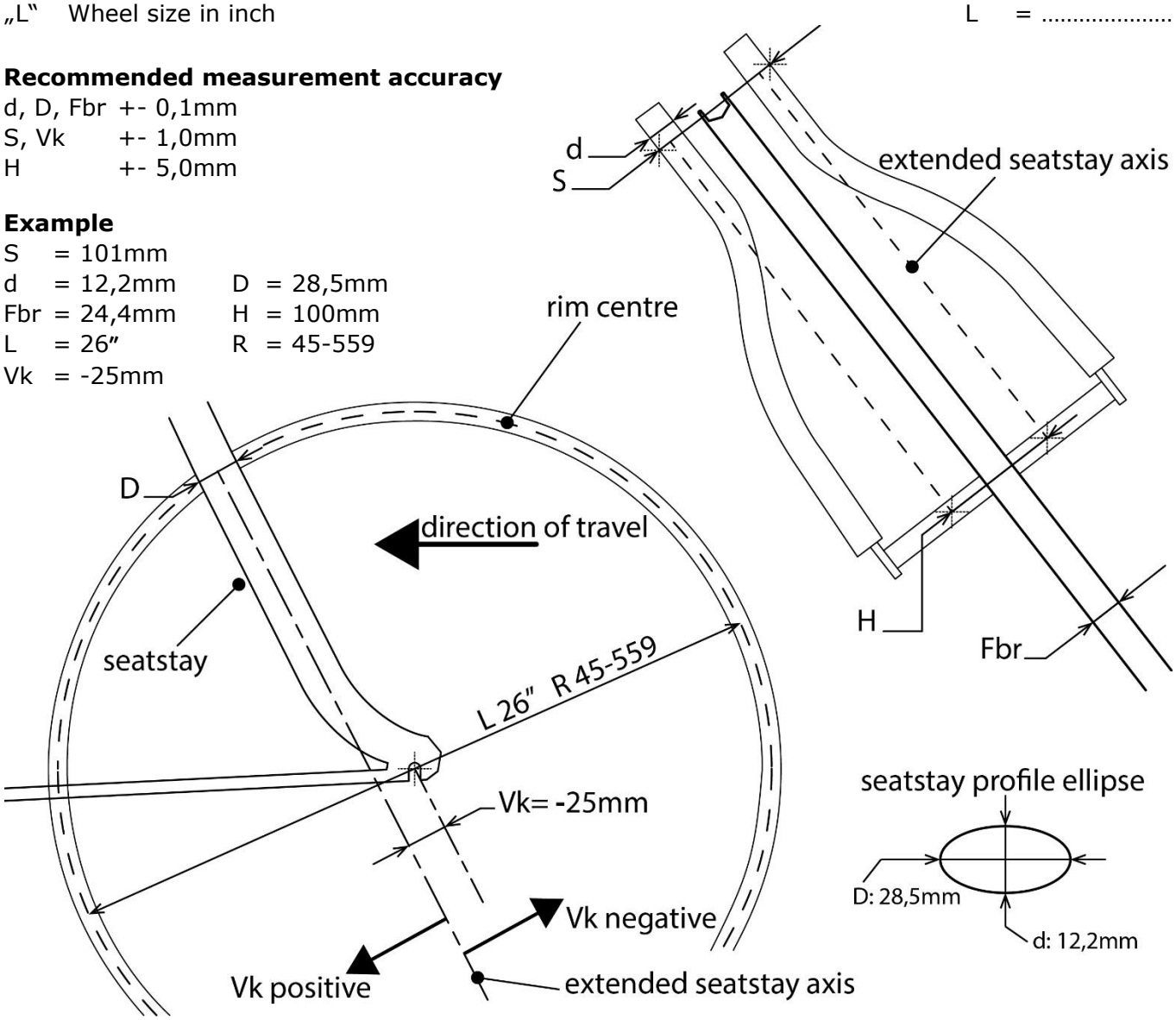
- „S" Outer distance of the seatstays at the rim centre height S = ...
- „d" Diameter of the seatstay at the rim centre height diagonally to the direction of travel d = ...
- „D" Diameter of the seatstay at the rim centre height in direction of travel D = ...
- Tick seatstay profile: ☐ round ☐ ellipse ☐ oval ☐ Free form see 3rd page
- „Fbr" Outer rim width Fbr = ...
- „Vk" Offset seatstay axis – rear wheel axle Vk = ...
- „H" Estimated distance of seatstay axis at the height of the rear wheel axle H = ...
- „R" Tyre dimension in ETRTO-dimension R = ...
- „L" Wheel size in inch L = ...

Recommended measurement accuracy

d, D, Fbr +- 0,1mm
S, Vk +- 1,0mm
H +- 5,0mm

Example

S = 101mm
d = 12,2mm D = 28,5mm
Fbr = 24,4mm H = 100mm
L = 26" R = 45-559
Vk = -25mm

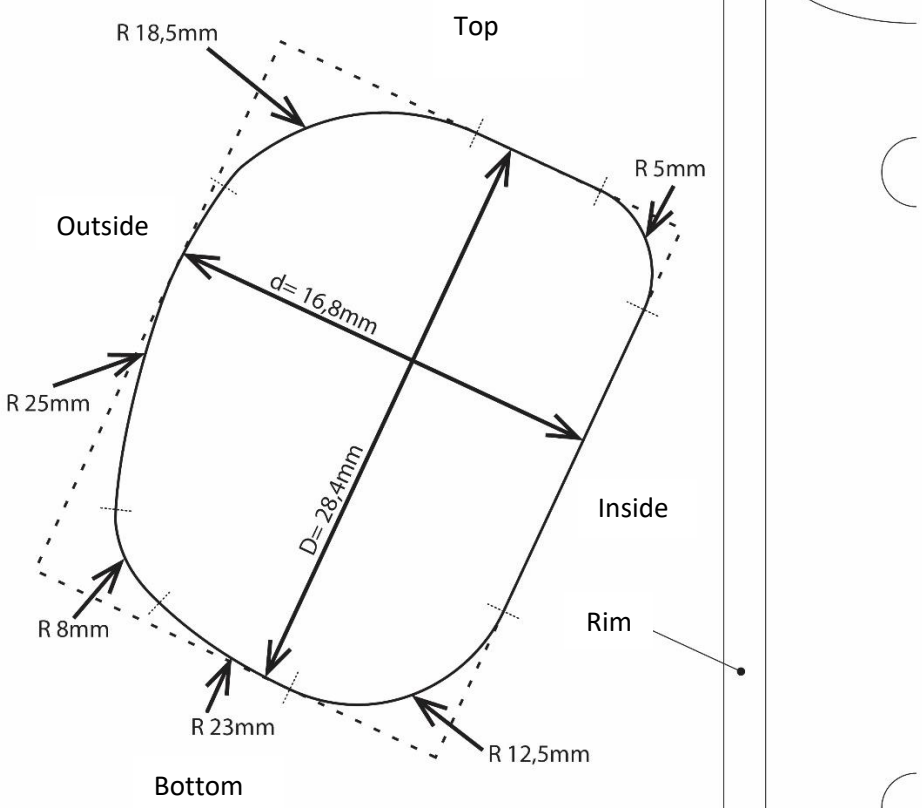


Free form seatstay profile

The dimensions
d (smallest cross-sectional dimension) and D (perpendicular to it) must be measured exactly (tolerance 0.1mm) and perpendicular to the seatstay axis using a vernier gauge.

The different radii are to be determined with a radius template.

Beispiel



Draw your seatstay profile as an enlargement in this sketch template

d=

D=