

Wheel/Rail Data Profiles

Wheel diameter:

- right wheel: 920.0 mm
- left wheel: 918.0 mm

Rail's initial inclination:

- right rail: 1/20
- left rail: 1/20

Wheel's model:

- (left) R-UIC 519B
- (right) R-UIC 519A

Rail's model:

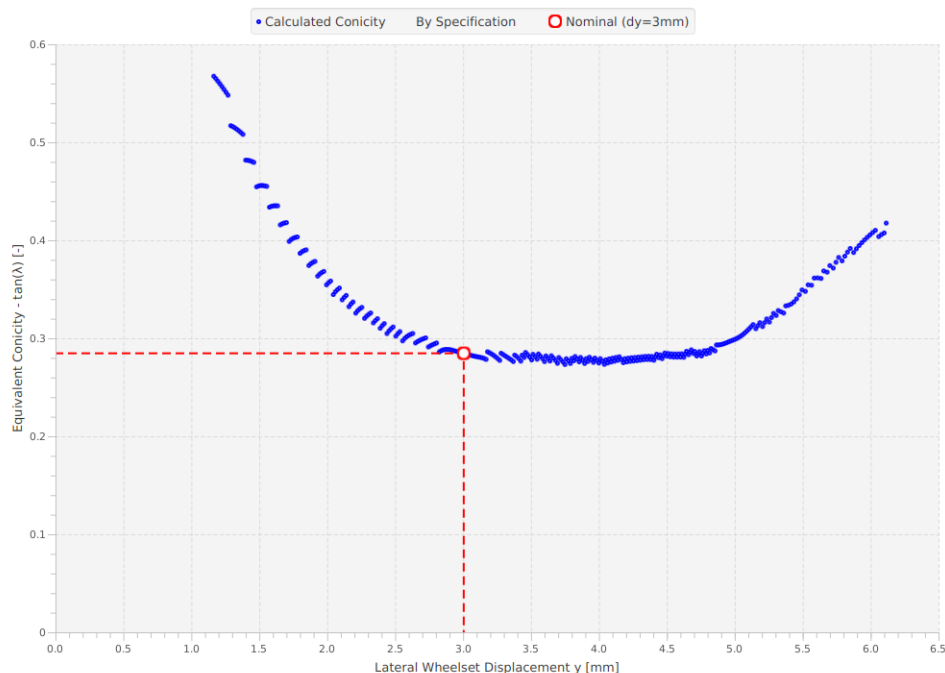
- (left & right) S-UIC 519A

Back-to-back: 1360.0 mm

Track gauge: 1435.0 mm

Additional info:

- New profiles
- Asymmetric
- Dry surface

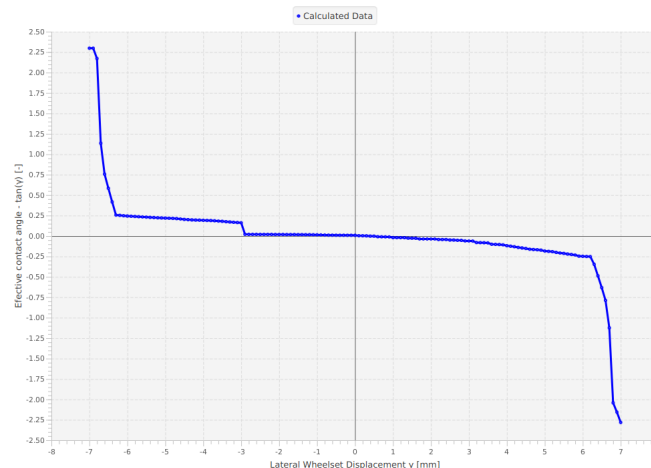
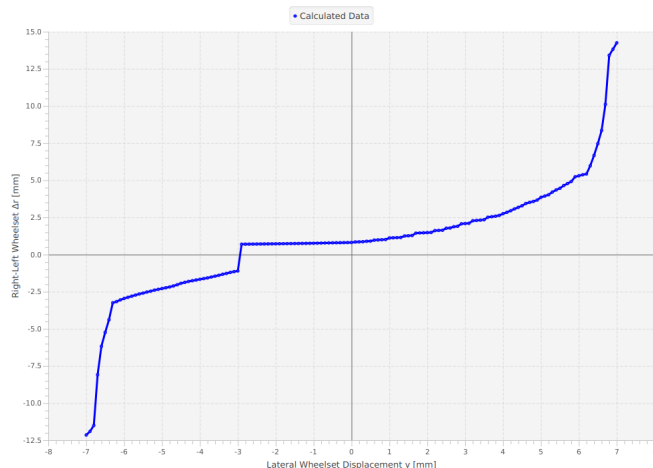


Analysis Results

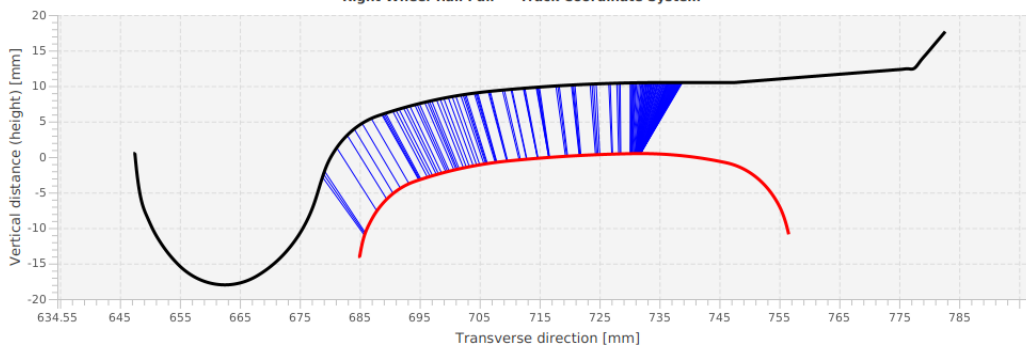
— In accordance with EN 15302
Method: integration of non-linear differential equation

Lat. displ. [mm]	Equivalent conicity
1.0	0.66
1.5	0.46
2.0	0.35
2.5	0.3
3.0	0.28
3.5	0.28
4.0	0.27
4.5	0.28
5.0	0.3
5.5	0.35
6.0	0.41
6.5	0.42
7.0	0.42

NOTE: nominal value for 3 mm



Right Wheel-Rail Pair - Track Coordinate System



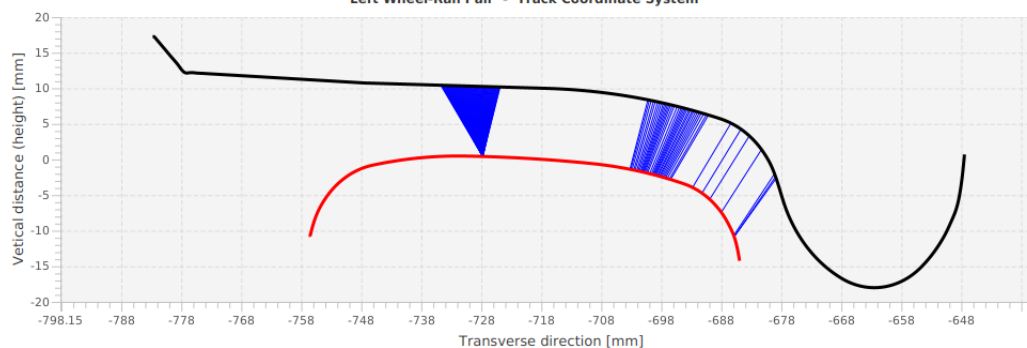
Potential contact points

(no-penetration assumption)

Right wheel/rail pair models:

- (right) R-UIC 519A
- (left & right) S-UIC 519A

Left Wheel-Rail Pair - Track Coordinate System



Left wheel/rail pair models:

- (left) R-UIC 519B
- (left & right) S-UIC 519A