**DIFFERENTIAL**

# Drive ratio

# 

Figure 1: Acceleration model used to determine the optimum drive ratio

Optimum dive ratio: 0.2955 🡺 Pinion: 13; Cog-Wheel: 44

# Dimensioning

# 

Figure 2: Influence of the position of the elements of the differential assembly

Load cases :

* Maximum torque load obtained through engine data: 59N.m, 28 000N on the gear.
* Car lift by the push bar

# 

Figure 3: FEA on left eccentric housing

# coupe diff 2D zoom.PNG

Figure 4: Section of the differential mounting

# Configurations

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Figure 1: View of the eccentric in its housing

* This geometry offers 180 configurations

# Appendix

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