VEHICLE TITLE **UIC COACH**

MASSES & INERTIAS

Number of bogies	2
Number of axles (per bogie)	2.
Body mass	32.0 Mg
Body roll inertia	56.8 Mgm^2
Body pitch inertia	1970.0 Mgm^2
Body yaw inertia	1970.0 Mgm^2
Bogie mass	2.615 Mg
Bogie roll inertia	1.722 Mgm^2
Bogie pitch inertia	1.476 Mgm^2
Bogie yaw inertia	3.067 Mgm^2
Wheelset mass	1.70 Mg
Wheelset roll and yaw inertia	1.30 Mgm^2

DIMENSIONS

Semi pivot spacing	9.5 m
Semi wheelbase	1.28 m
Wheel radius	0.445 m
Body centre of gravity height above rail level	1.503 m
Bogie centre of gravity height above rail level	0.68 m

PRIMARY SUSPENSION

Lateral stiffness (per axle)	6.4 MN/m
Vertical stiffness (per axle)	1.46 MN/m
Yaw stiffness (per axle)	60.0 MNm/r
Lateral damper rate (per axle)	- MNs/m
Vertical damper rate (per axle)	0.005 MNs/m
Vertical friction breakout (per axle)	- KN
Height above rail level of lateral springs	0.445 m
Lateral semi spacing of vertical springs	1.0 m
Height above rail level of lateral dampers	- m
Lateral semi spacing of vertical dampers	1.0 m
Lateral semi spacing of vertical friction	- m