

Id: Pavement Testing Facility		Porto Alegre
Institutions: Federal University of Rio Grande do Sul (UFRGS) & Rio Grande do Sul State Roads Department (DAER/RS)		Brazil

Type: Linear Test Track

Construction: 1992-1994



Dimensions

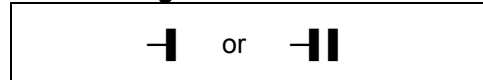
Pavement length	≥ 14.0 m
Useful testing length (at constant speed)	6.0 m

Loading

Range of Load ^(*)	20-130 kN
Transverse distribution	± 500 mm
Loading direction	⇒

^(*) Wheels loads (half axle) are converted to the corresponding axle loads.

Axle configuration



Speed

Vehicle Speed (max.)	6 km/h
Test frequency (max.) (passes/hour/section)	250
Practical output (loadings/month/section)	120 000

Sections

No. of Sections	10
Thickness	any
Width	3500 mm

Measured Variables

	Surface	Asphalt	Unbound Layers	Subgrade
Temperature		X		
Moisture content				
Suction				X
Deflection (transient)	X			
Vertical Stress			X	X
Horizontal Stress		X		
Vertical Strain			X	X
Horizontal Strain		X		

Environmental control

Placement	Outdoors
Air temperature	®
Pavement temperature	@
Air moisture	-
Freeze-thaw cycles	-
Water table	-
Rainfall	®

- © total control
- @ partial control
- @* indirect control (air Temp.)
- ® registered

Contact people:

- Jorge Augusto Ceratti (ceratti@adufgrs.ufrgs.br)
- Washington Peres Núñez (wpnunez@ppgec.ufrgs.br)

Brief description of Topics/Tests carried out during recent years
--

Strategies to delay crack reflection in asphalt overlays (pavement fabrics, asphalt-rubber, polymer modified binders)

High modulus asphalt mixes for high performance pavements

--