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|---------------------------------------|--|---------|
| Id: PWRI | | Tsukuba |
| Institution: PWRI Pavement Test Field | | Japan |

Type: Circular Test Track

Construction (Revised): 1973 (2003)



Dimensions

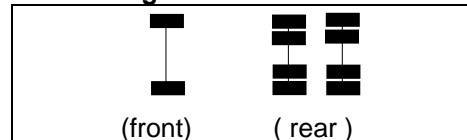
| | |
|------------------------|-------|
| Pavement Length | |
| - Medium Loop (circle) | 628 m |
| - Large Loop (oval) | 870 m |
| Useful testing length | |
| - Medium Loop | 628 m |
| - Large Loop | 870 m |

Loading

| | |
|------------------------------|-----------|
| Range of Load ^(*) | 48-157 kN |
| Transverse distribution | ± 250 mm |

^(*) axle loads

Axle configuration



Speed

| | |
|---|---------|
| Vehicle Speed (max.) | 40 km/h |
| Test frequency (max.) (vehicles/hour/section) | 255 |
| Practical output (49kN equivalent wheel loads /month/section) | 100 000 |

Sections

| | |
|-----------------|---------|
| No. of Sections | 31 |
| Thickness | free |
| Width | 7000 mm |

Measured Variables (*)

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

*The pavement surface properties, such as rut depth, cracking ratio, on-site permeability, skid resistance, deflection are measured every month.

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:

- Atsushi KAWAKAMI (kawakami@pwri.go.jp)
- Takayuki AYABE (ayabe@pwri.go.jp)

| Brief description of Topics/Tests carried out during recent years |
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| The durability of various pavements was evaluated. For example: Drainage Asphalt Pavement, Permeable Asphalt Pavement, Waste asphalt pavement materials, cool pavement, and so on. |
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