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|--|--|--------------------------|
| Id: BAST | | Bergisch Gladbach |
| Institution: Federal Highway Research Institute (BAST) | | Germany |

Type: Pulse Loading Device

Construction (commissioned): 1969



Test Pit dimensions

| | |
|-----------|-------|
| Length | 38 m |
| Width | 7.5 m |
| Thickness | 3.0 m |

Loading

| | |
|------------------------------|----------------------------|
| Range of Load ^(*) | 0-180 kN |
| Transverse distribution | ± 75 mm |
| Loading device | Circular plate Ø 300 mm |

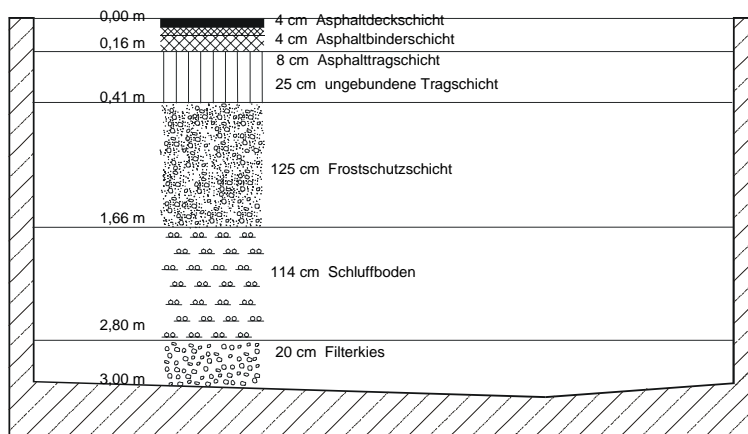
^(*) Loads (half axle) are converted to the corresponding axle loads.

Speed

| | |
|--|--------------------|
| Load Pulse | Haversine 25 ms |
| Max. test frequency (simulated passes/ hour/section) | 8700 |
| Practical output (simulated passes/ month/section) | 1 000 000 |

Sections

| | |
|--------------|---|
| Nr. Sections | 3 |
|--------------|---|



Measured Variables

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

Environmental control

| | |
|----------------------|---------|
| Placement | Indoors |
| Air temperature | @ |
| Pavement temperature | © |
| Air moisture | - |
| Freeze-thaw cycles | © |
| Water table | © |
| Rainfall | - |

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

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