

With the growth of our infrastructure there will be an increasing demand for design and construction of heavy duty pavements and floors for industrial uses, ports, airfields, warehouses, haul roads, and similar applications. In addition, there is an ever-increasing need for maintenance and rehabilitation of existing industrial pavements and slabs as loads increase and uses change.

Levelton Consultants has over 30 years of experience in design, evaluation and rehabilitation of heavy duty pavements of all types.

Typical Projects

- Concrete slabs-on-grade for heavily loaded warehouse applications
- Speciality floors and slabs with critical flatness and levelness requirements
- Roller compacted concrete pavements for roads, industrial yards and warehouse floors
- Heavy duty bituminous pavement
- Precast unit pavers for architectural and heavy duty pavements
- Slipformed concrete pavements for airfields and similar applications
- Cement stabilized bases
- Bridge decks and overlays
- Working surfaces of marine terminals and wharves
- Liners for landfills, effluent clarifiers, process vessels and containment ponds
- Surface of waste piles to control leachate and runoff water



A variety of design, laboratory and field services have been provided for commercial and industrial users, port authorities, government agencies, consultants and contractors. While many of these assignments have involved design of new installations, Levelton has also completed a large number of assignments involving analysis and evaluation of existing pavements that have not performed well. These projects have often included the design of rehabilitation and repair programs to upgrade existing pavements and slabs to accommodate heavy wheel loads or aggressive service requirements.



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Typical Services

- geotechnical investigation and soil analysis
- testing of subgrade properties to determine design input parameters, including full scale plate bearing tests
- thickness design of layered pavement systems, using the latest computer design procedures
- cost analysis of various pavement design alternatives
- detailed design, preparation of technical specifications and construction documents
- project management
- field review and contract administration during construction
- quality control and quality assurance of base and pavement construction



Levelton's expertise extends to all types of industrial pavements and slabs, and includes roads, highways, industrial yards, airfield runways, warehouse floors, marine terminals, television studios, bridge decks and overlays, haul roads, composting yards and containment pond liners.

Levelton has the unique ability to combine the talents of its geotechnical engineers, materials specialists and environmental scientists to provide a comprehensive range of services to our clients. This might include speciality consultation to design consultants on unique applications, or may encompass the full range of design and project management services required for successful implementation of a complete project.

Related services include failure analysis and trouble-shooting of existing pavement and floor systems, design of overlays, selection and evaluation of surface finishes and treatments, flatness/planeness surveys and design of environmental mitigation such as control of runoff water and containment of chemical spillage.

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