

Technical Experts in Building & Infrastructure Services Engineering.

Capability Statement





About Wallace Design Group

Our Story

Wallace Design Group is an Established Design Consulting Firm specialising in Plumbing (Hydraulic), Fire, Waste & Water Infrastructure and Civil Design.

Based in Charlestown, we are a strong team of consultants capitalising on the enthusiasm of youth and experience stretching over 50 years.

We are dedicated in providing a personal service which meets our client's needs and expectations in specific terms relating to time, cost control, design, documentation and technical excellence.

Our Vision

At Wallace Design Group we are committed to providing a comprehensive engineering and design service which meets our client's needs and expectations in specific terms relating to time, cost control, design, documentation and technical excellence.

Our Accreditations & Memberships





Design Services



Our Design Software

At Wallace Design Group we can provide a wide variety of services which include:

- Land & Property Development Advice
- Services Feasibility Reports
- Concept Design and Costings
- Budget Estimates
- Authority Liaison and Submissions
- Design Documentation & Specifications
- Tender Evaluations
- Pre-construction Phase Reporting
- Construction Phase Reporting
- Post-construction Phase Reporting
- Operations and Maintenance Manuals
- Preventative Maintenance Planning
- Drafting (2D & 3D)
- Asbuilt and WAE Drawings

Plumbing (Hydraulic) Design

Designing for Functionality

Plumbing (Hydraulic) design is an important function of modern engineering and construction.

Functionality is essential to life where Plumbing (Hydraulic) design seeks to ensure that the building is equipped with the necessary components critical to public health and wellness.

At WDG our engineers and designers focus on the flow of fluids through pipes, pumps, valves, and other components. It is the foundation of many types of plumbing systems, including those used in homes, businesses, and other structures.

Our Plumbing (Hydraulic) Design Services Include:

- Sewer Drainage (Gravitational, Pumped and Vacuum)
- Trade Waste Drainage
- Stormwater Drainage
- Sub-soil Drainage
- Sanitary Plumbing
- Stormwater Plumbing
- Cold Water (potable)
- Cold Water (unpotable)
- Hot (warm) Water (potable)
- Hot (warm) Water (unpotable)
- Fire Hydrant
- Fire Hose Reel
- Gas (Natural & LPG)
- Downpipes and Gutters



Fire Design

Designing for Fire Safety

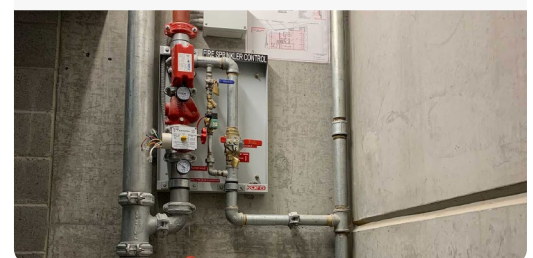
Fire design is a multi-faceted approach to fire safety that encompasses a wide range of elements.

Fire safety is an important aspect of any building where Fire Services Design seeks to ensure that the building is equipped with the necessary components to prevent and mitigate the effects of a fire.

At WDG our engineers and designers work with our clients to design fire services systems that take into account the needs of the occupants of the building, as well as the needs of the firefighters who will be responding to the fire. Fire design must consider the layout of the building, the location of exits, the availability of safety equipment, and other aspects that could affect the safety of the occupants and firefighters.

Our Fire Design Services Include:

- Fire Hydrants
- Fire Hose Reels
- Fire Sprinklers
- Fire Drenchers





Design Services



Our Design Software

Waste & Water Infrastructure Design

Designing for the Future

Waste and Water Infrastructure design is a critical component of any modern, functional city.

By understanding the underlying principles of water and waste management, engineers and other professionals can work together to create safe, efficient and sustainable solutions to our growing urban populations.

At WDG our engineers and designers consider existing regulations, local and regional environments, and the impact of their design on the surrounding environment. Waste and Water Infrastructure design must take into account the purpose of the project, the size of the system, and the type of materials used.

Our Waste & Water Infrastructure Design Services Include:

- Watermain Reticulation Design
- Gravitational Sewermain Reticulation Design
- Pressure Sewermain Reticulation Design
- Pumping Station Design
- Routine Minor Works Design and Documentation
- Routine Major Works Design and Documentation
- Complex Works Design and Documentation
- Amplifications and renewals
- Masterplanning



Civil Design

Designing for the Built Environment

Civil design encompasses a wide range of activities, from planning and designing the project to its implementation and maintenance.

The Built Environment touches all aspects of our lives and involves the process of creating surroundings where people live, work and recreate.

At WDG our engineers and designers focus on analysing the site and its environment. This includes assessing the needs and requirements of the project, the local climate and soil conditions, and the environmental impact of the project. Once the analysis is completed, the project is designed, taking into account the local conditions. This includes the layout and design of the construction site, the materials to be used, and the engineering principles that will guide the project.

Our Civil Design Services Include:

- Road and Public Domain
- Grading and Bulk Earthworks
- Cut & Fill
- Driveway & Carparking
- Stormwater Drainage
- Onsite Detention and Water Quality Treatment
- Erosion & Sediment Control
- Stormwater Management Reports
- Water Sensitive Urban Design (WSUD)

Industry Sectors



Commercial



Education



Healthcare



Defence



Food Service



Industrial



Infrastructure



Sports + Recreation



Residential



Retail



Manufacturing



Mining



Aerospace



Agriculture



Automotive



Hospitality



Energy



Aged Care

Contact Wallace Design Group

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🌐 Let's Connect

