

Warehouse Design and Layout



Warehouse Design and Layout For Efficiency and Productivity

The efficiency and storage capacity of any warehouse operation is dependent on its warehouse design and layout. Whether your company is in manufacturing or assembly, order fulfilment and shipping, a sound warehouse floor plan and design utilising all airspace will assist you to minimise costs and maximise productivity.

Planning your warehouse layout is a crucial process as it directly impacts the efficiency and productivity of your warehouse. A well-planned layout should arrange the processes in a logical sequence to streamline your operations, reduce expenses, and boost productivity. In addition, a well-designed warehouse layout will provide easy access to stored goods, minimise movement and travel time, and improve order fulfilment rates.

The investment of taking the time to consider all your business requirements during the planning phase can minimise additional costs later. The effort to alter a planned layout once the construction starts is costly due to the additional material and labour costs.

We can design an efficient layout and streamline your warehouse operations, and these are some of the most crucial factors considered.

Budget Considerations

It is crucial to assess all your business requirements and review associated budgets before the design and layout begin. There may be design options that are more comprehensive and potentially more expensive during the design process. Still, it is important that you consider the most suitable and cost-efficient solution for your warehouse as the additional costs can be recouped with a productive layout.

The flow of Goods, Employees and Equipment

The uninterrupted flow of goods, employees, and materials handling equipment is vital in the layout to facilitate the smooth functioning of your warehouse. You can avoid inefficient paths and disruptions by carefully planning your warehouse design and layout, enabling each operational step to occur sequentially.

Accessibility

During the warehouse design and layout phase, it is essential to ensure easy accessibility to all the areas and different types of products within your facility. The layout should make it easy for employees to navigate throughout the facility, easily locating and picking items without moving other products. This directly increases your productivity and orders fulfilment rate.

Operational Equipment

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Input and Output – Throughput

The input and output of a warehouse, or throughput, considers the number of products managed through various warehouse processes. This includes receiving goods, putaway, product storage requirements, picking and packing, then shipping. By analysing this data, a warehouse design and layout can be established that has an efficient flow of goods and accommodates the necessary types of equipment for your warehouse.

Employees

Knowing the number of people required to manage the throughput of the warehouse directly affects cost management. In addition, a well-designed warehouse will assist you in understanding skill requirements and training of employees to operate efficiently in a new facility. The warehouse design and layout will also consider the safety of all personnel working in the operational space.

Authority Guidelines

Warehouse design and layout incorporates the relevant authority guidelines for your facility. Abiding by these guidelines ensures the safety of your employees, equipment, or other valuable assets but also assists you to avoid fines and problems for your business.

Our warehouse design and layout services

Bowen Storage warehouse design and layout services are crucial to ensure the optimal utilisation of your operations and facility. We can design your warehouse using a combination of pallet racking solutions to utilise your warehouse space better, boost productivity, and improve inventory management and order fulfilment rates.