

BUTLER™ BUILDINGS

Structural Systems



BUTLER™ BUILDINGS STRUCTURAL SYSTEMS

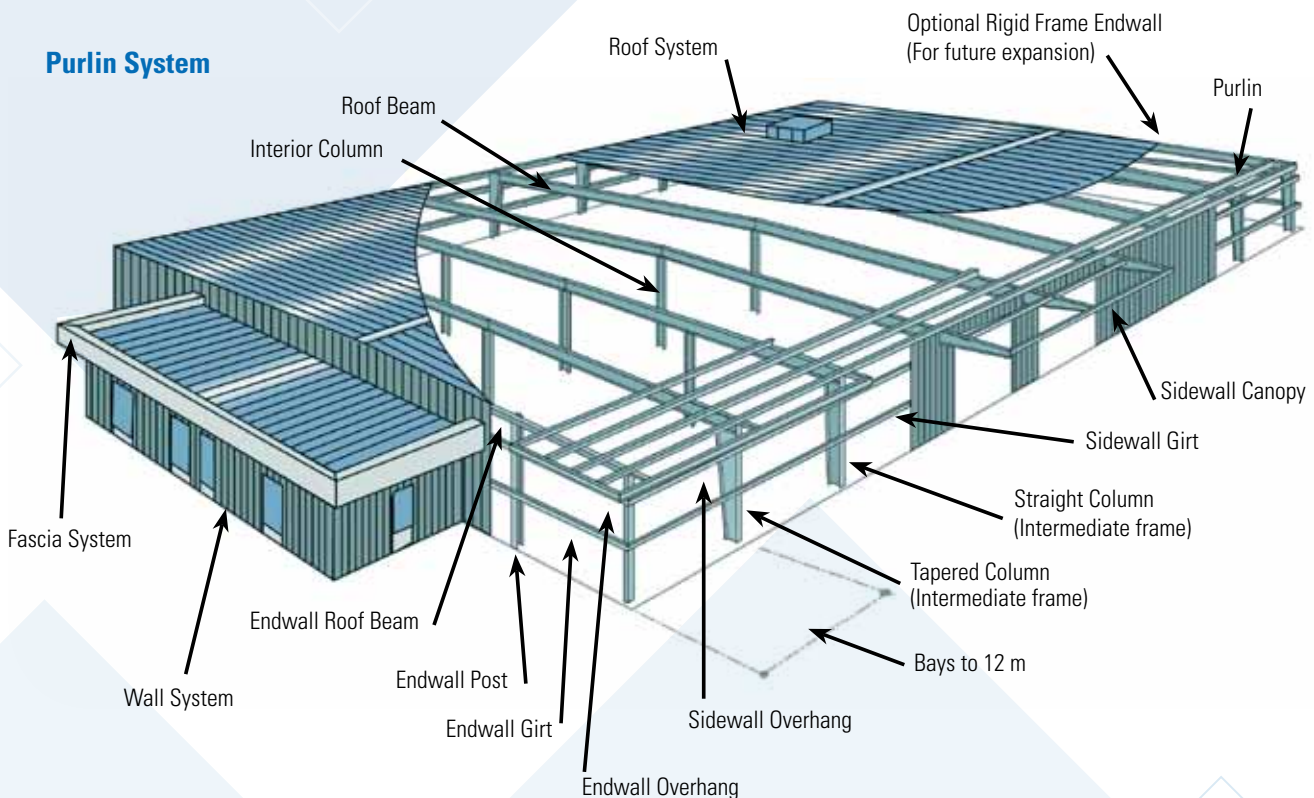
A Butler™ building utilises a range of exclusive structural systems, providing the right solution for every application. Whether you need a basic steel building, a complex facility or one requiring vast open spaces, a Butler™ building is a fast, easy and environmentally friendly solution.

Rather than merely a collection of components, a Butler™ building uses a complete 'integrated systems' approach to design and fabrication.

The technically advanced design programme can provide the complete layout of the building, with anchor bolt settings and reaction information suitable for designing the foundation. It will produce plans and detail drawings for your building that will suit your specific needs.

The precision engineered and factory punched structural components will be delivered on time for problem free installation.

Purlin System



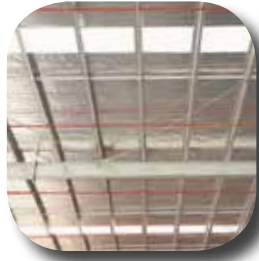
PURLIN STRUCTURAL SYSTEM

Maximise the functionality and productivity of your building's interior space.

A Butler™ building designed with the standard purlin system combines the practicality of a rigid frame with almost unlimited design flexibility.

This system uses galvanised C/Z purlins. The galvanised finish provides unequalled strength and durability. This Butler™ system is an economical, rigid-frame solution that can accommodate various roof pitches and bay spaces up to 12 m to maximise interior space.

Ideal Applications – Retail, Offices, Manufacturing, Recreational and Warehouses.



TRUSS PURLIN STRUCTURAL SYSTEM

Maximise your building design flexibility with the longest bay sizes available.

The Truss Purlin structural system employs solid-web primary frames, pre-punched truss purlins and rod bracing in the roof and walls to form an attractive and economical long-bay framing system.

The special truss purlin (an open-web secondary structural member) system is exclusive to the Butler™ building system.

The entire system is designed with flexibility in mind. Bay sizes up to 18 m. Single-slope, double-slope and offset ridge designs are suitable for low pitch buildings (1-3 degree).

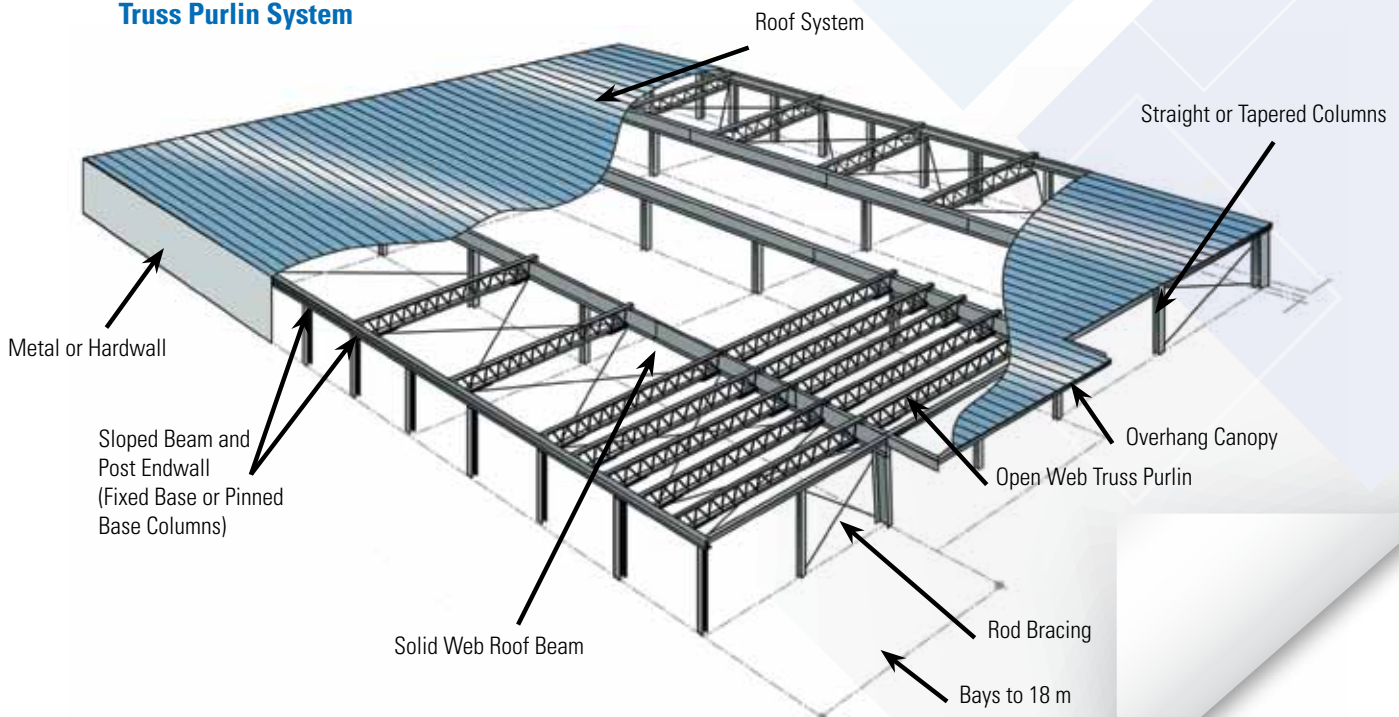
Ideal Applications – Warehouses, Manufacturing, Aircraft Hangars, Retail, Distribution Facilities and Auto Dealerships.



Summary Table

Butler™ System	Bay size	Roof pitch		Perimeter walls			Roof profile available		
		Low	High	Metal	Non-metal Load bearing	Non-metal Curtain wall	MR-24™	KLIP-LOK® 700 HS	TRIMDEK®
C/Z Purlin System	Up to 12 m	•	•	•	•	•	•	•	•
Truss Purlin System	Up to 18 m	•		•	•	•	•	•	

Truss Purlin System



Designing for cranes in your Butler™ building

The state-of-the-art design programme was created to allow maximum design freedom to meet your needs. As with all designs there are optimal specifications that will create the most cost effective outcomes. This is particularly evident when your Butler™ building will include a crane.

Here are some tips to maximise efficiency for your building

- Building framing for underhung cranes is more cost effective than for top-running cranes. Five tonne cranes should be underhung. Some 10 tonne cranes can be underhung
- Bridge cranes with capacities of 20 tonnes or less should be supported by the building frame with column-mounted brackets
- Bridge cranes with capacities in excess of 20 tonnes and with a building height of 9.1 m or less should be supported by stepped crane columns
- Bridge cranes with capacities in excess of 20 tonnes and with a building height in excess of 9.1 m or less should be supported by stepped crane columns, primarily to aid in the control of drift in the building
- The optimum bay spacing for cranes with capacities of 15 tonnes or less is 7.6 m
- The optimum bay spacing for cranes with the capacities in excess of 15 tonnes is 6 m

Regardless of which system is required to meet your design specification, all components are manufactured to create design flexibility to accommodate most building footprints. Our team will work with you from start to finish to create your building in the most efficient way possible.

To find out more about the benefits of partnering with BlueScope Buildings for your next project contact us on **1800 213 423** or visit our website

bluescopebuildings.com.au

For our warranty terms and conditions please visit

bluescopebuildings.com.au/warranties

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