



Value by Design

A member of the  Auvana Group

XXL SHEDS deliver strong, secure buildings that are value engineered to provide efficient use of materials, saving 10% - 20% on traditional design practices.



XXL SHEDS intelligent use of materials in our designs focus on what is the most suitable and efficient material that is fit for purpose in the structure.

Our **XXL SHEDS** structures meet all certification standards, they are 'fit for purpose' and they are far more cost-effective than a traditional single material approach to designs and construction.

The secret starts with **XXL SHEDS** design process.



XXL SHEDS engineered and supplied 4 buildings and 2 roof covers to Decmil packed ready for shipping within 4 weeks.



Mild steel columns and partially boxed rafters to eliminate knee bracing and meet the customers storage requirements.



7.5m wide bays achieved with cold-form steel to provide optimum space for storing cotton bales in between portal frames.

What is **XXL SHEDS** Hybrid Design?

If you are familiar with the term "**Value Engineering**" then you will understand what a **XXL SHEDS** design is, at its heart. We design buildings that precisely fit the purpose for which they were intended and the environment where they will be placed, rather than simply designing them under the common assumptions about how to build large spans.

Too often, there is a fundamental assumption that if a building has a clear span of more than 24 metres, or if it is more than 6 metres to the roofline, it must be supported by mild steel columns and rafters.

But that is an expensive assumption. In nearly every case it results in a building that is over-specified and, as a result, over-budget. A **XXL SHEDS** design features the use of a combination of various steel types and grades to form the structure as opposed to using a single type and or grade of steel. One type fits all is generally highly inefficient and most often not practical.

A **XXL SHEDS** design begins with our **Design Function Audit** – a comprehensive examination of the building's purpose, the features of the property, the physical movements that will occur on site and any aesthetic requirements.

Then our Structural Engineers take the fully specified building and apply **value engineering** principles to create a structural design that will be strong, secure, efficient and achieve certification.

“ The 96 metre long, 34 metre wide and 14.5 metre high roof cover we designed and supplied for John Holland in Rockhampton is a genuine example of **XXL SHEDS** innovative hybrid design process and commitment to value engineering. ”

Ron Webb,
XXL SHEDS Director



*A testament to the strength of the **XXL SHEDS** design process is the fact this building withstood category 5 Cyclone Marcia with no structural impediment.*



Turn-key Package

XXL SHEDS provides the design and supply of the building and in addition can support you with the construction process. We can assist with a turn-key lock up solution so that you to have an experienced competent builder who can handle subcontractors and service providers to ensure your build process is a well-manage and smooth process.



Structural Engineering

Involving **XXL SHEDS** at the earliest stage of building design will mean more innovation in the design process, more cost-effective design and a higher level of value engineered into the final product.

Our initial Design Function Audit, or DFA, is the starting point for much of the cost-effectiveness in the project.

Following on from our audit we use the latest structural engineering software and our comprehensive value engineering process to produce highly efficient designs.

We provide engineering certification and create a bill of materials when design is approved. We also provide construction drawings and connection details, which covers our detailed method of installation and safer work place with the method of construction.



Safety

Fundamental to our company is the belief that all injuries are preventable and everyone has the right to go home safely.

It is this belief that forms the framework for our teams' interactions with customers on their sites, ensuring our activities are conducted safely.



Supply

Our International network of material suppliers and our 50+ years in the steel industry mean that we can obtain prices that are hard to match plus we can dispatch material to any job site in Australia typically within two weeks of specification sign-off.



Construction

Our 50+ years' experience in the industry has enabled **XXL SHEDS** the ability to compile a list of competent builders throughout Australia and Asia Pacific to assist you in the installation process.

If you choose to use your own construction team, we can provide on-site support to ensure the job runs to schedule.

Following construction, **XXL SHEDS** can inspect the building and provide engineering sign-off on conforming structures.



Innovation

We are always looking for ways to do things better; how we go about achieving success is as important as the success itself.

From our own in-house research and development processes to the partnerships we have established with technical specialists in the industry, we work to find new ways of adapting technology to generate a competitive offering for our customers – helping to maximise efficiencies and reduce waste.



Common Questions

Can a XXL SHEDS designed building have the same features as a traditional design?

Yes. All the same internal or external functions in a building are available.

Overhead Cranes, 18+ meter bays, 14+ metre height, 20+ metre wide side wall openings and 60+ metre clear spans and more are all possible.

Doesn't lower price inevitably mean lower quality?

No, much of the lower price of our buildings is the result of our **XXL SHEDS** design process. Thanks to our in-house skill set we are able to engineer buildings that are fit for their intended purpose and location yet much more cost effective than buildings designed by others that do not have our particular processes available.

Does XXL SHEDS buildings meet National and International building codes?

Yes, **XXL SHEDS** have engineered and supplied buildings for the Australian Government, State Governments, National and International construction companies ensuring all relevant building standards and codes have been met.

What types of buildings do XXL SHEDS specialise in?

We design and supply buildings to house agricultural and industrial facilities such as:

- Warehouses and factories
- Storage facilities
- Transport, logistics and distribution centres
- Truck parking and storage
- Workshops
- Horse stables
- Aircraft hangers
- Farm equipment sheds
- Fertilizer and grain storage sheds
- Hay storage sheds
- Food production facilities
- Equestrian riding arenas
- Packing sheds
- School or sports court roof covers

Can we use our own builder?

Yes. If you have a preferred builder we are happy to provide a structural engineering design service and supply the kit, ready for erection. We also supply an on-site consultation service to ensure your building construction process is seamless.



Value by Design

Our Geographic Footprint

We continue to expand our design, supply and consult service on buildings throughout the Asia Pacific region.



1300 XXL SHEDS

P 1300 995 743 **E** info@xxlsheds.com.au
Suite 3, 904 Stanley Street, East Brisbane QLD 4169
PO Box 567, Carina QLD 4152
www.xxlsheds.com.au

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