

MODERN METHODS OF CONSTRUCTION FROM THE QUBE

DESIGN & SPECIFICATION

Foundations

Concrete pads with adjustable screw-jack supports in variable different locations dependent on size of Qube, which allow for variances in levels from 15 - 630mm.

Structural Insulated Panel

a structural insulated panel (SIP) is a product that fuses a foam core, between 2 outer skins of oriented strand board (OSB) to create a super-strong construction panel. The SIPs are used to construct the walls, floor and roof.

Superior Insulation

The foam core of a SIP provides higher insulation values than many other insulation materials used in traditional wall construction. Because SIPs have fewer gaps and because studs do not interrupt the insulation, SIPs have proven to be a far superior product than traditional walls. Nearly 20% of a traditional stud wall is made of studs and other non - insulated materials. The K-value of fibreglass, mineral wool and cellulose insulation tested in the lab is significantly higher than how it performs in the actual wall. But SIPs, because they are comprised of solid insulation, perform virtually as well in the actual structure as they do in a lab test. They also act as a barrier to external noise better than structures built from traditional methods.

Exceptional Strength

since the finished panels are an integrated building product, literally acting as a structural component, they are able to withstand and even surpass typical loads caused by wind, snow and even seismic activities.

Environmental Benefits

SIPs offer several benefits to the environment. Because SIPs effectively replace conventional stud wall construction, fewer mature forest products need to be harvested. The outer OSB skins are made from engineered wood that is manufactured from renewable, fast growing trees. Because SIPs offer superior insulation qualities, heating and electricity bills are reduced and the result is that fewer fossil fuels need to be burned.

Single Panel Dimensions

Widths available 200 - 1200mm.

Heights 2.4, 2.7, 3.0m.

Roofing SIPs are available up to 6.0m long.

All SIPs are available in the following thickness:

80, 100, 125, 150 and 225mm.

Exterior Cladding Options

Western Red Cedar

Western Red Cedar is naturally resistant to moisture, decay and insect damage. As a result it is the ideal wood for outdoor applications without the need for toxic chemical preservatives. The even grain and relatively consistent density make Western Red Cedar less likely to swell, warp, cup, and twist than other soft and hardwoods. Western Red Cedar's natural lustre and subtle, natural aroma are hallmarks of its universal appeal.

DESIGN & SPECIFICATION- continued

Cape Cod Cladding

Cape Cod Cladding is manufactured from selected Western Canadian Lodge pole Pine. The wood is kiln dried and band sawn to produce a textured face cladding.

Cape Cod then applies two coats of the finest finish available: Olympic PPG Machine Coat, which is a 100% acrylic breathable water based paint. Cape Cod Cladding is an authorised Olympic PPG Machine Coat Factory Finisher.

This top quality finish is applied under strictly controlled factory conditions ensuring that the required mill thickness is applied over the entire surface of the cladding. This system produces a uniform finish and maximum protection for the cladding that cannot be achieved with site applied paint. The result? A low maintenance wood cladding with a 15 year factory finish warranty, available in 9 standard colours.

Doors

Aluminium powder coated doors give high performance weathering. They accommodate many styles and opening options, in and out, single or dual colour finishes, slides right or left in opening, security locking on main doors and intermediate styles. Internally beaded for additional security and virtually maintenance free.

Windows

Aluminium windows, powder coated in a choice of RAL colours, with high security sash profiles and internally glazed.

Roof Covering

A single ply membrane available in grey which is both environmentally friendly and long lasting.

Internal Finishes Walls and Ceiling

12.5mm plasterboard with skim finish (Decoration included in quotation).

Floor

Choice of finishes from the Forbo vinyl flooring range.