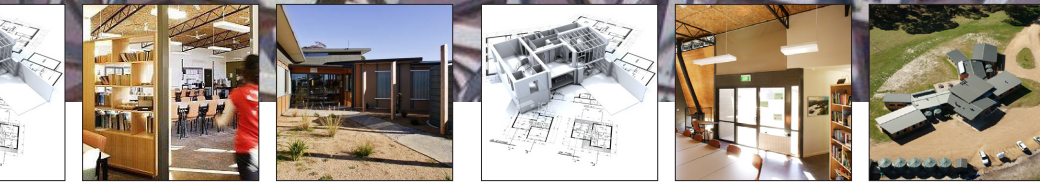


flexibility of design

fast, economical construction



The Force 10
Building
System

Award Winning

In 2004 the Victorian Government's Department of Education and Training (DEECD) together with the Royal Australian Institute of Architects (RAIA) conducted a competition for designs for a new Rural Learning Centre for The Snowy River Campus.

The \$3.8 million dollar centre was an initiative of DEECD to offer residential educational experience for year nine, government school students to develop personal skills, leadership qualities, fitness and an awareness of rural environmental issues.

Key Features

Renowned architects FMSA won the right to design the unique organic layout of the new facility, incorporating the use of the innovative Force 10 Building System. Force 10 provided technical experts and patented technology. Working in conjunction with FMSA, who were the designers and project managers.

The design features of this single storey campus won the 2007 CEFPI Victorian Chapter Architectural New Construction New School Award and FMSA also received in 2007 a commendation in the School Design Awards.

The residential centre was built to make the most of the specialised energy efficient insulated walls, which are based around a steel framing system rather than the traditional timber or concrete construction. This scientifically tested and accredited insulation process allows for natural temperature control in the building, ensuring staff and students would be comfortable in both the summer and winter seasons, making this facility more energy efficient than standard concrete buildings.

Other design features of the campus included the use of a innovative roof with a thermal flue which assisted in managing natural heating and cooling.



Students outside the Snowy River Campus, School for Student Leadership at Marlo, East Gippsland in Victoria

In fact, Force 10 buildings can achieve up to a 9 star energy efficiency rating in most locations, while the Australian industry standard for new homes is 6 star.

As steel is strong and lightweight, it is beneficial for builders to work with and Force 10 building systems are engineered to better withstand fire, cyclones, severe thunderstorms and earthquakes. This increased strength and safety is a key feature of Force 10 buildings.

The Force 10 building is borer resistant and provides complete protection against termites. Providing a healthier environment for students who may suffer from breathing related illnesses like Asthma, as additional chemicals are

not required for protection against pest attacks.

The Force 10 system can also be installed very quickly with the use of some unskilled labour and obviates the need to use concrete at the construction site meaning there is less disturbance to the local ecology and habitat. This was a requirement of DEECD to produce a building which was environmentally sustainable.

The Force 10 system has been tested rigorously by accredited testing authorities to comply with CSIRO (Australia), BRANZ (New Zealand), Architectural Testing Service (USA), Veritas (France) and other testing authorities e.g. QUT, UQ, University State North Carolina and others.

FORCE  TM

A better way to build!

Australian Owned and Made Modular Floor, Wall, Roof Truss System
resistant to:

Cyclones, Earthquakes, Fire, Termites, Tornadoes

FORCE10
TM
A better way to build!

Key Features

One of the key requirements from DEECD was to create a design which blended with the natural environment, and would create a welcoming presence in the landscape.

The single story campus, starts with a village hub from which all other parts of the campus flow, namely:

- Reception area
- Dining hall
- Learning centre
- Kitchen
- Store area
- Staff area
- Residential area

Continual and extensive consultation over the life of the project was undertaken with DEECD and staff to ensure the design met all requirements and needs.

A key benefit in the Force 10 building system, is the precise engineering, careful, systematic planning and factory manufacturing, which uses Australian made BlueScope steel



Internal view of the learning centre

and the very latest environmentally friendly raw materials.

The system allows for work 'on-site' to be minimal and an additional benefit of the integrated floor, wall and roof systems is its ability to be flat-packed in shipping containers and transported very quickly to difficult and remote locations in short time-frames.

Force 10 also provided the internal features for the centre ensuring they are durable and allowed for low maintenance, at the same time creating an environment which was welcoming and visually rich in composition.



Aerial view of the award winning Snowy River Campus, School for Student Leadership at Marlo, East Gippsland in Victoria

Snowy River Campus, School for Student Leadership

The scope of the project was to complete a 870sqm single story campus that was energy efficient and environmentally sustainable design, which blended with the natural environment.

One of the difficulties faced with this particular job was the remote location. The use of the Force 10 Engineered building system allowed a reduction of on-site construction time.

AIM

- Construction of a school building that was to blend with the natural environment, highlight environmental design principles and show students how building practices can still blend and preserve areas of natural beauty.

OUTCOME

- The Force 10 building system has once again proved itself as a versatile, cost-effective and extremely durable structure and due to the fast turnaround, the building was delivered before the nominated completion date which was a source of satisfaction for all concerned.

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