

# PosiStruts:

the INNOVATIVE solution  
for CREATIVE designers

PosiStruts are the ideal solution for today's building needs because they offer a wide range of real advantages and savings for the architect, engineer and builder. PosiStruts are a truly customised, totally engineered flooring, roofing...or wall system which combines the versatility of timber with the strength of steel. PosiStruts' unique 'open web' design also provides excellent access for services, whilst making them lighter than solid timber joists or other alternatives.



## **POSISTRUTS HAVE MORE ADVANTAGES:**

**EASY ACCESS FOR SERVICES** (plumbing, electrical, heating & air conditioning/ducting)

**QUICK & EASY TO INSTALL** (an on-site favourite)

**LIGHT WEIGHT** (easier to handle)

**TOP CHORD SUPPORT** (speeds up installation)

**COST SAVING** (more cost-effective in the long run)

**EXTRA LONG SPANS** (ideal for open plan designs)

**STRONG, STRAIGHT & RIGID** (no need to straighten or 'pack' on-site)

**IDEAL FOR FLOOR JOISTS** (reduced floor bounce & squeaking)

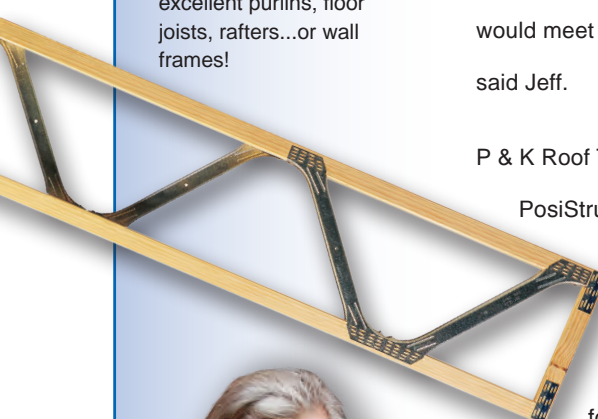
'Designers and Architects can take inspiration from many things; the natural forms of nature, the building methods of the past...and the product innovations that will help shape the future,' said creative Designer, David Poulton of Xdp. One product which caught David's eye was MiTek's PosiStrut. Although used primarily as a flooring and / or roofing solution, David had other ideas in mind for PosiStruts in a three storey Ballarat home that would challenge many building methods. The client expected the 'wow' factor – and David and licensed MiTek fabricator, P & K Roof Trusses certainly delivered!

'I wanted to create a deeper wall cavity on the external walls (240mm) – one which could provide a thicker, better insulating solution. I thought PosiStruts might provide the perfect solution,' said David. 'The original idea was to build large (7m x 2.4m) 'pods' from PosiStruts – in Tim, the builder's, shop...or in the prefabrication plant. Early tests with this raised some concerns...especially in regards to weight and the manoeuvrability issues they might cause on site. We even tried 3m x 2.4m pods, but they too would prove impractical. It was decided to have the PosiStruts delivered on site and build the pods there.' Each section was made up of seven 3m PosiStruts, with four pods (with a space between each for floor to ceiling glass) making up an entire wall.

# “With PosiStruts you get high STRENGTH with MINIMAL use of MATERIALS”

**NOT JUST A FLOORING SOLUTION**

PosiStruts' innovative design also makes them ideal for roof construction...or walls! They can even be manufactured to create curved structures. PosiStruts have made a name for themselves because they offer a far more cost-effective solution to steel, I-Beams or solid timber beams. PosiStruts also offer top chord support – making them even quicker to install. PosiStruts make excellent purlins, floor joists, rafters...or wall frames!



‘We’ve made a lot of PosiStruts over the years, but I’ve never seen them used like this before,’ said Jeff Dyett, Manager of P & K Roof Trusses in Delacombe on the outskirts of Ballarat.

Jeff has been in the building industry for more than 25 years; 8 of those in prefabrication, so he’s seen a lot of home designs. ‘We use MiTek 20/20 software...but this was so unusual we had to get MiTek involved in the engineering side of things. Sure, making the PosiStruts was fairly straight forward – but we had to be sure they would meet all the engineering requirements,’ said Jeff.

P & K Roof Trusses made more than 200 PosiStruts - for use as floor joists and in the manufacture of wall sections. There were 40 used in the sub-floor, 80 for the first and 80 for the second floor. ‘Prefabricating

Pods would have meant craning on site and possible transport issues; but manufacturing them in consistent lengths to be assembled on site was a breeze,’ said Jeff. Although the ‘concept’ was unusual, the installation presented few issues. The pods were very easy to make – in fact, everyone was surprised how quickly everything came together.’

‘PosiStruts are a fabulous use of timber and steel. You get high strength with minimal use of materials,’ said David. ‘I am always looking for new ways to use the materials at hand and MiTek’s PosiStruts are a definitely a more versatile, more responsible solution.’



Designer: David Poulton

MiTek POSISTRUTS...THE EASY ACCESS ADVANTAGE



creating the **advantage**

For more information about MiTek PosiStruts or any other MiTek products, call your local state office or visit: [mitek.com.au](http://mitek.com.au)