

**Project:** Showroom Warehouses  
Wagga Wagga, NSW

**Products:** ONEMESH® MADE TO SIZE  
SL82 mesh & accessories

# ONEMESH® MADE TO SIZE mesh suits on-site tilt-up panel production



An innovation from OneSteel Reinforcing has given fabricators of tilt-up precast concrete panels another construction efficiency advantage.

Precast concrete was invented more than a century ago, but the introduction of ONEMESH® MADE TO SIZE mesh is a recent breakthrough being warmly welcomed by local concreters.

The new mesh option simplifies the making of many precast tilt-up concrete panels and it is doubly effective in the hands of concreters who make their panels on-site.

One of the first to try ONEMESH® MADE TO SIZE mesh for on-site tilt-up panels was David Brown Concreting from Wagga Wagga in NSW.

The company has wide experience in the buoyant Wagga Wagga building market where clients routinely ask for tilt-up panels to be made on-site to help keep transport costs to a minimum.

For a recent duplex showroom/warehouse development in Wagga Wagga's commercial zone David Brown Concreting made and erected 59 precast tilt-up panels using ONEMESH® MADE TO SIZE mesh.

**Left:** ONEMESH® MADE TO SIZE mesh sheets arrive on site.

**Above:** Workers carrying the ONEMESH® MADE TO SIZE mesh. A crane lifting up a ONEMESH® MADE TO SIZE tilt up panel which was made on-site.





**“On a door panel it can halve the time taken for laying in the mesh. It was just a case of dropping in four ONEMESH® MADE TO SIZE mesh sheets and the job was done.**

Norman Young, Construction Manager, David Brown Concreting Pty Ltd

**“There was no measuring, no cutting and no waste.”**

Norman Young, Construction Manager  
David Brown Concreting Pty Ltd



**Economical\***

The products can give more cost-efficient cover and economy in the number of sheets or bars, or the volumes of steel needed to efficiently reinforce the structure and meet the design intent of the project.

**Environmental\***

OneSteel's manufacturing of reinforcing steel utilises energy reducing Polymer Injection Technology and recycled scrap content.

\*Supporting information for specific OneSteel Reinforcing ECO-REO™ products is available at [www.reinforcing.com](http://www.reinforcing.com) in the 'Technical Resources' section.

The panels incorporated 148 sheets, all 2.0 metres wide in five different lengths ranging from 4 to 9.08 m. A further 99 sheets in sizes in two sizes, 7.2 x 3.0 m and 8.7 x 3.0 m were also successfully incorporated in the floor slabs of the building.

OneSteel Reinforcing is now able to offer this innovation to Australian concreters. The state-of-the-art ATT mesh machine at its Revesby plant in Sydney can produce ONEMESH® MADE TO SIZE mesh in sheet sizes up to 9.1 x 3 m. The machine is able to offer reduced flying ends and variable wire spacings in order to maximise the efficiency of mesh use.

Norm Young, who headed the David Brown Concreting crew experiencing ONEMESH® MADE TO SIZE mesh for the first time, was impressed by its positive impact on the job.

“We’ve made 59 panels without a single problem and with a great saving in time,” Norm said.

“Using conventional mesh on panels with doors in them means a lot of cutting and splicing and it can be difficult to get a good result.

“You might have four layers of mesh and it can be a problem to get sufficient coverage by the concrete on a panel which is only 150 mm thick, because you’ve usually got a 24 mm bar, a 20 mm bar and a 16 mm bar and that all chews up the millimetres very quickly.

Norm Young was also impressed by the occupational health and safety advantage he experienced with ONEMESH® MADE TO SIZE mesh.

The “flying ends” or “fingers” at each end of the mesh are much shorter than is the case with conventional mesh.

“Everything tends to get hooked on the usual 100 mm long fingers,” he said. “You scrape your legs on them and catch your clothes. The ONEMESH® MADE TO SIZE sheets we used were a big improvement with fingers reduced to 40 mm.”

“We made the panels on boxes six high and then stood them with a 200 tonne crane. By using ONEMESH® MADE TO SIZE mesh we managed a big reduction in cutting and tying time and had very little wastage.

“I’ve dealt with OneSteel Reinforcing for 36 years and they have always been very helpful. They even supplied a schedule which shows where each sheet should go.

That was very handy, especially for the sections of the floor slab where we also used ONEMESH® MADE TO SIZE mesh.”

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