

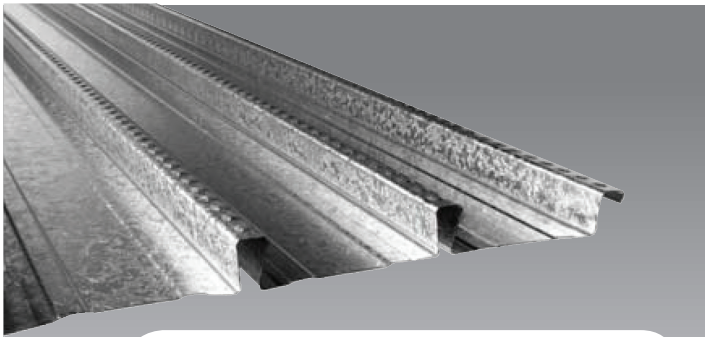
FormDirectTM
In, on & around concrete



ARMOURDECK
Steel Formwork

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Big expertise. Real convenience. Concrete commitment.



- > **High Composite strength**
- > **Long spanning capability**
- > **Interlocking Horizontal laps**
- > **600mm width**

ARMOURDECK STEEL FORMWORK

Armourdeck Steel Formwork provides a fast, efficient method of creating suspended concrete slabs. The composite action of the steel decking also increases efficiency by forming a high performance composite slab.

Armourdeck formwork offers excellent spanning capabilities, high composite strength and minimal deflection. It is ideal for both concrete and steel frame construction.

The traditional "re-entrant" design of the decking is based on a high-strength, three-pan profile with a width of 600mm and overlapping ribs for quick installation. The steel deck acts as permanent formwork and requires minimal propping.

Armourdeck steel formwork is roll-formed from hot-dip zinc coated, hi-tensile steel strip in a range of base metal thicknesses (BMT) conforming to AS1397.

MATERIAL SPECIFICATIONS

Armourdeck is manufactured from a G550 (550 MPa Yield Stress) steel with a base metal thickness (BMT) of 0.60mm, 0.75mm, or 1.0mm.

0.9mm thickness is also available on request.

The galvanised coating thickness is a Z350 (350g/m²) in accordance with AS1397.

FEATURES AND BENEFITS

- > Lighter than traditional formply
- > Fast, easy installation
- > 600mm width for quick cover
- > No stripping of formwork
- > Works as a composite slab
- > Saves on concrete and reinforcement
- > Reliable interlocking joints
- > Ribs at 200mm centres create safe working platform
- > Slip-resistant embossments

INSTALLATION INSTRUCTIONS

TEMPORARY PROPPING

Where temporary propping is required, vertical Props must be placed at the correct centres, supporting timber or steel bearers approximately 100mm square in section. Placement of props should take into account loading wet concrete, as well as other loading, to prevent deflection during construction.

Props should only be removed when the slab has reached sufficient strength (75% or more of the specified 28-day strength). Only when the slab has achieved its full 28-day strength should the full design load be applied. All propping should meet the requirements of AS3610, including the bracing.

CUTTING

Armourdeck sheets can be supplied cut to length. Where cutting is required, such as around cut-outs, use a power saw with an abrasive disc or metal cutting blade.

LAYING

Place the Armourdeck sheet over the supports, allowing a minimum end bearing of 50mm. Where the decking is supported by walls, the sheets must be isolated from the concrete or masonry by a separating strip such as malthoid. After the first sheet of Armourdeck is placed, subsequent sheets are placed by overlapping the side ribs. Place the larger external embossed rib (overlapping edge) over the internal rib and lower the sheet into position.

FASTENING

The Armourdeck sheets must be secured to the supporting structure to eliminate excessive deflection during the concrete pour.

For steel support structures, use self tapping fasteners or shot-fired pins, allowing one fastener per pan at each support.

Where the Armourdeck sheets are supported on concrete or masonry walls, temporary fasteners must be in place until the concrete is poured, to prevent movement and wind uplift.

REINFORCING

All reinforcement must be placed in strict accordance with the structural engineer's drawings and specifications and comply with the relevant codes and standards.

CONCRETE

To ensure an optimum bond between the deck and the concrete, the concrete mix must be specified and the deck cleared of debris, oil, grease and dirt. Apply the concrete evenly over the deck, avoiding mounds and other excessive loading.