

# Solutions

# Permanent Formwork

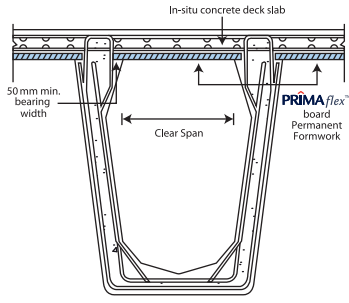
**PRIMAflex**<sup>TM</sup> board serves as a better alternative to conventional plywood formwork. It provides rigid support to which fresh concrete is poured to form reinforced concrete deck slab. It is recommended to be applied as permanent formwork in the construction of bridges, flyovers, floor and approach slab for elevated MRT/LRT stations and many other usages.

The key advantages are:-

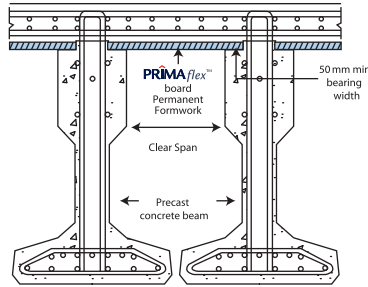
- No propping is required
- Faster than conventional formwork method
- Eliminate/minimize labour for dismantling plywood formwork
- Suitable for bridge construction with limited access
- Will not rot & resistant to termite attack

Product name	<b>PRIMAflex™</b>
Product composition	<ul style="list-style-type: none"> <li>• Top grade cellulose Fibre</li> <li>• Finely ground sand</li> <li>• Portland cement</li> </ul>

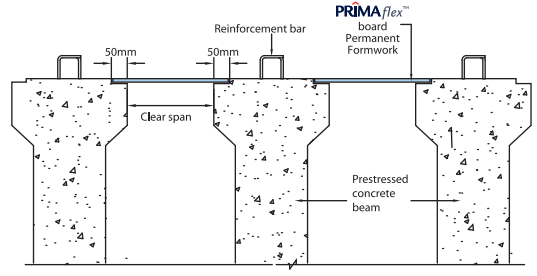
Mass per sheet and PRIMAflex™ sizes recommended for permanent formwork application			
Thickness	12mm	16mm	20mm
Width 1220mm Length 2440mm	49.50 kg	66.00 kg	82.50 kg



**U-Beam**



**M-Beam**



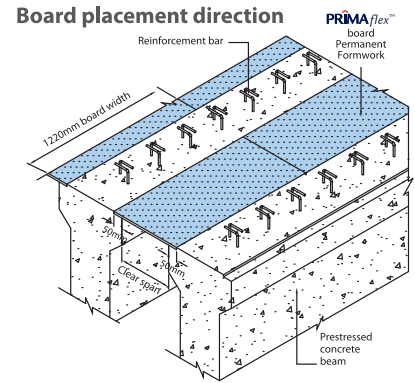
**I-Beam**



Conventional method requires various propping to support the concrete pour



PRIMAflex™ boards are ready for concrete pouring without need for additional support.



**Board placement direction**

LOADING TABLE FOR PERMANENT FORMWORK															
Board Thickness	Recommended maximum clear span (mm)														
	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
	Concrete Thickness (mm)														
12mm	590	420	325	255	200	165	140	120	-	-	-	-	-	-	-
16mm	1040	750	580	450	370	300	250	210	180	160	135	120	-	-	-
20mm	1600	1150	900	710	570	470	390	330	285	240	215	190	165	150	135

- Note:
1. Clear span refers to the net edge-to-edge distance between beams. This is the area where PRIMAflex™ board provides temporary support for the fresh concrete that forms the deck slab.
  2. For safety purpose of using PRIMAflex™ permanent formwork, do not stand, step or walk on bare suspended PRIMAflex™ board (temporary support) prior to installation of steel reinforcement and concrete.
  3. Concrete density is assumed at 25kN/m<sup>3</sup>
  4. Waterproofing material to be applied onto both surfaces and all board edges (optional).
  5. Do not apply in area where will be 'exposed to standing water' or 'continuously in contact with water'.
  6. Fresh concrete must be poured at the 'beam' area and progressively spread to the other area to form the required 'slab thickness'.
  7. Accumulation of 'fresh concrete' in excess of the recommended thickness, particularly at the mid-span of board may result in failure.
  8. Standard safety precautionary measures have to comply with the requirements set by licensed Safety Officer in charge of the project.




**BS EN 12467**

**AS/NZS 2908.2**

**ASTM C1186**

**Fire Resistance AS 1530.3**

**Termite Resistance - tested by CSIRO**













Termite Resistant



Fire Resistant



Water Resistant



Weather Resistant



100% Asbestos free



Superior Paint Adhesion



High Workability



Aesthetically Pleasing



50 Years Durability

For more information, please contact us at:



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