



Why HYPERFORM™ makes good sense

The key to any good formply is the quality of the finish and how many times it can be re-used before it needs to be replaced. While there are too many variables from required off-form finish, type of forming system, and handling and storage to be able to specify the number of times **HYPERFORM™** can be re-used, **HYPERFORM™** has been specifically designed to help you maximise your re-use.

HYPERFORM™'s 13 ply total birch hardwood construction, F22/F22 rating for stiffness and high quality 120gsm phenolic overlay combine to provide an excellent off form finish with minimal deflection even under high concrete pressures. The total hardwood birch construction means none of the tannin staining associated with some tropical hardwoods and a greater resistance to impact and abrasion damage on the face. The result is a smooth consistent off-form finish even after repeated re-use.

HYPERFORM™'s 13 ply total birch hardwood construction also means reduced damage to corners, edges and faces during the formwork stripping process. Damage sustained during the stripping process is one of the major limiting factors to the re-use of formwork. The natural strength of Birch combined with the 13 ply construction provides increased resistance to impact damage helping maximise the number of times it can be re-used providing significant long term savings.

Why is maximising the number of times it can be re-used so important? If, for example, you can increase your re-use from 6 to 8 re-uses before replacement by just one more pour to 7 to 9 re-uses before replacement that means you have just saved 12.5% to 16.6% on your formply costs!

Try this formula and see what the savings for just one more re-use would be for your formply budget.

$$\left(\frac{(\text{Current Number of re-use} + 1)}{\text{Current Number of re-use}} - 1 \right) 100 = \text{Savings \%}$$



HYPERFORM™ is quality plywood product made to exacting performance and quality standards. Designed for use in the forming of concrete walls, roofs, columns, and other engineered concrete structures. **HYPERFORM™** provides strong, stiff, lightweight support on steel or timber frames or in table form systems. This provides advantages for the designer and formworker, and the required finish to concrete.

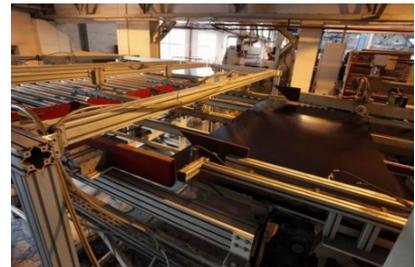


HYPERFORM™'s cross-laminated 13 ply total birch hardwood construction enhances the performance properties of wood. Short-term impact loads of up to twice the long-term load can be safely carried. The cross-laminated construction also restricts the tendency of the panel to expand and contract providing excellent dimensional stability.



HYPERFORM™ is safe. Manufactured by one of the world's leading birch plywood manufacturers and produced under a third party audited, process-based, quality control program with control procedures for on-going verification of structural properties and bond.

HYPERFORM™ is rated F22/F22 for stiffness (MoE) and F27/F27 for strength (f'b) giving it the properties of high strength and stiffness, a design feature that can save money providing even more cost effective formwork systems.



HYPERFORM™ complies with the Australian Standard for Plywood Formwork AS6669 and has been evaluated according to AS/NZS 2098.9, Procedures for in-grade testing of structural plywood.

HYPERFORM™ is manufactured with a permanent structural A Bond using the same phenolic resins as structural and marine plywood.



Installation and Design

Framing centers depend on the direction of the face grain of the panel, the given pressure of wet concrete, and the design limit decided by the system designer. The design is usually controlled by the panel deflection under load and is calculated using the section properties given in table 1 and the characteristic properties given in table 2.

Table 1: Section Properties (per mm width)

HYPERFORM™	Parallel to face grain		Perpendicular to face grain	
	Moment of Inertia I (mm ⁴ /mm)	Section Modulus Z (mm ³ /mm)	Moment of Inertia I (mm ⁴ /mm)	Section Modulus Z (mm ³ /mm)
Thickness				
17.5 mm	255.7	28.6	204.2	25.4

Table 2: Characteristic Properties

HYPERFORM™ 17.5-10-13	Bending Strength (f_b)	Panel Shear (f_s)	Short duration average modulus of elasticity (E)
	MPa	MPa	MPa
Characteristic Properties	80	6.8	16000

17.5mm HYPERFORM™

1. Overall thickness – 17.5mm
 2. Nominal thickness of face veneer (mm x 10) – 10
 3. Number of plies in construction – 13
- Construction Code – 17.5-10-13**



HYPERFORM™ available from:
