



DECKING

Durable, sleek, easy installation and low maintenance decking. It is the ideal product for indoor and outdoor use, as it made to withstand the elements of nature

HANYO



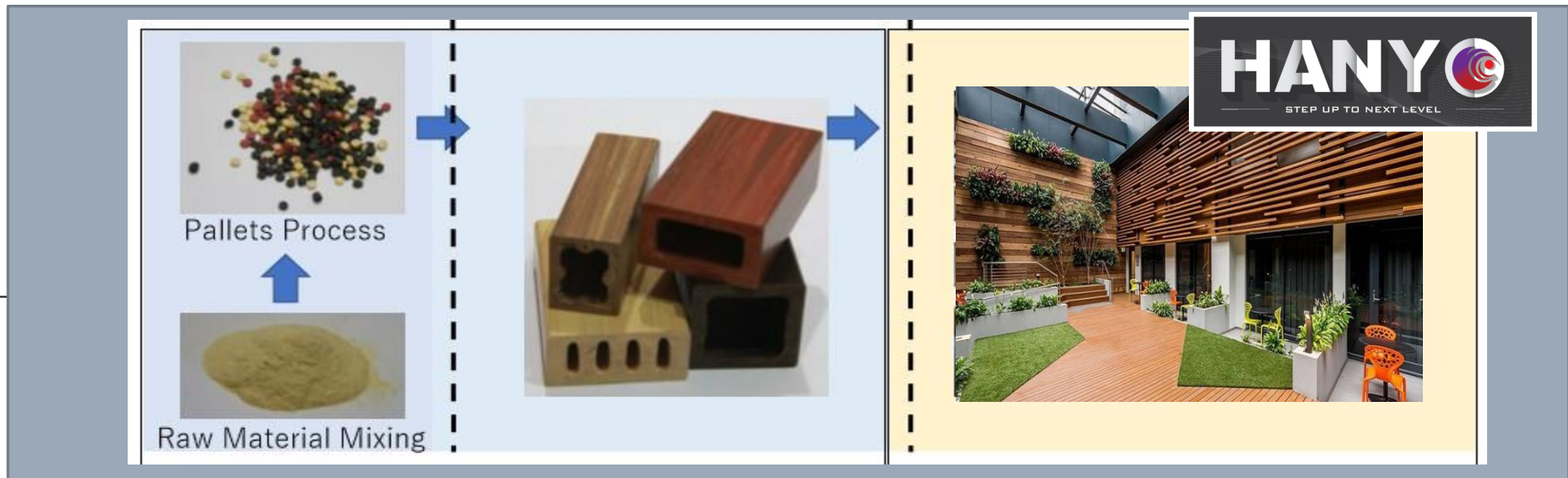
STEP UP TO NEXT LEVEL

[HTTPS://HANYO.COM.MY](https://hanyo.com.my)



WOOD PLASTIC COMPOSITE BIOWOOD MALAYSIA

HANYO is providing green sustainable and efficiency products, an alternatives interlocking assemble profile solutions to conventional building materials.



What is Biowood

Biowood is a WPC (Wood Plastic Composite) material made from 70% plantation forest wood and 30% additives and Plastic.

The 70% wood part of Biowood is from plantation grown wood. Sawmill waste is collected and turned into wood flour. It then combined with virgin and/or recycled plastic resin, and blended with pigments to make pellets of more than 20 different colours. These pellets are then combined to make a range of products of various colours through a heated extrusion process. The elements and the way they are combined makes Biowood a very durable, stable, attractive, easy to use, recyclable building product.

Biowood can use for interior and exterior architectural decoration such as outdoor wall panelling, indoor wall panelling, ceiling panel, roofing, louver, flooring, decking, Skirting and much more.



- Similar to applications of natural wood products.



- Having the beauty of natural timber appearances and environmentally Friendly.



- Have more variable shade of colors and textures.



- Weather/Humidity/Mould/Rust/Water/Termite Resistant.



- No rotten problem.



- Light weight, sound proof and Life long validity.



- Fire insulation and no toxic chemical substance.



- Can be extruded into various shapes by using any conventional woodworking tools.



- Can be sawed, nailed, screwed and bended.



- More durable and low maintenance cost compared to real wood.

FEATURE

Color Code: WALNUT with LINISH SURFACE



[DB14025 140mm x 25mm](#)

MAX. Length 19.5ft

Why Choose Biowood?

DECKING



Lightweight & Durable



Natural Timber Look

Biowood architectural reconstituted wood composite products features and benefits include utilizing PEFC-certified recycled wood floor.

The products retain the natural aesthetic wood look and feel, are termite resistant, water resistant (less than 0.05% water absorption), do not bleach and are proven time tested for residential and commercial application.

Biowood is an alternative architectural sustainable building solution which is available in range of options to suit various functional and aesthetic requirements.

Biowood are designed for cost savings installation, low maintenance and are ideal for residential, commercial and nearby marine environments.



High Density Outdoor Decking - 5pcs/pack

25mm Thickness x 140mm Width x Max. 5.85meter Length



Formaldehyde Test

RESULTS

Table 1. Analytical Result for Wood-Based Panels Sample

Test Item	Test Result	BS EN 13986 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking. Table B.1 - Formaldehyde class E1 requirement	Inferred Result
Formaldehyde Release	<0.1mg/m ³ or < 0.1ppm	Release <0.124 mg/m ³ air	Pass

Note : The method detection limit was 0.1 ppm.

Fire Test

Classification of Surface Spread of Flame

Classification	Spread of flame at 1.5min		Final spread of flame	
	Limit(mm)	Limit for one specimen in sample (mm)	Limit (mm)	Limit for one specimen in sample (mm)
Class 1	165	165+25	165	165+25
Class 2	215	215+25	455	455+45
Class 3	265	265+25	710	710+75
Class 4	Exceeding the limits for class 3			

Conclusion :
In accordance with the class definitions specified in the Standard, the results show that the sample tested has a Class 2 Surface Spread of Flame

Mechanical Test

Test Result(s):

Sample description: Board

No.	Test item	Test method	Test condition	Result
1	Tensile strength	With reference to ASTM D638-08	Specimen: Type I	11.1MPa
2	Elongation at break		Specimen thickness: 6.58mm Testing speed: 5mm/min	2.0%
3	Modulus of Elasticity	ASTM D6109-05	Specimen: 302x65x16.0mm	1930MPa(see note 2)
4	Rupture in bending	Method A	Testing speed: 7.6mm/min	30.4MPa(see note 2)
5	Compressive strength	ASTM D695-08	Specimen: 12.7x12.7x25.4mm Testing speed: 1.3mm/min	20.6MPa
6	Vicat softening temperature	With reference to ASTM D1525-07 and client's requirement	Specimen thickness: 16.1mm Rate of temperature: 50°C/h Load: 10N	83.4°C
7	Mechanical fastener holding test	With reference to ASTM D1037-06a Section 16 and client's requirement	Specimen: 152x65x16.0mm Testing speed: 1.3mm/min Diameter of screw: 3.5mm	777.0N
8	Impact resistance	With reference to ASTM D4495-00(2005) and client's requirement	Specimen thickness: 16.0mm Mass of the falling weight: 4.5kg	47J
9	Specific gravity	ASTM D2395-07a ¹¹ Method A	---	0.7415
10	Moisture content	With reference to ASTM D1037-06a section 6	Drying condition: 103°C, 3h	0.27% (see note 3)

