



WPC Outdoor Decking & Facade



*Anti-slip
No costly upkeep
Low maintenance
Termite resistance
Does not rot, split or splinter*



Why Not Wood

- is definitely nice to have however there are many drawbacks.
- cracks, bends, checks & splinters.
- has irregular colour fade.
- absorbs more moisture thus prone to rotting, molding & mildew.

Materials Composition:

- 65% wood flour
- 25% PVC
- 10% Binding agent
- (wood flour are FSC certified)



Advantages of PVC vs PE Composites

- 1) PVC are less prone to bacteria, molds and fungi attack, unlike PE or PP which uses organic filler like rice husk, wood chips etc and recycled resin.
- 2) PVC will not crumble and subject to splitting at ends, unlike P.E or PP
- 3) Plastic / steel clips for easy installation.
- 4) PVC deck can be re-sand and re-varnish, if required
- 5) Anti slip coat can be applied if necessary
- 6) PVC durability surpass P.E
- 7) 100% recyclable
- 8) Fire Retardant

Abbreviations

*PVC - Polyvinyl chloride

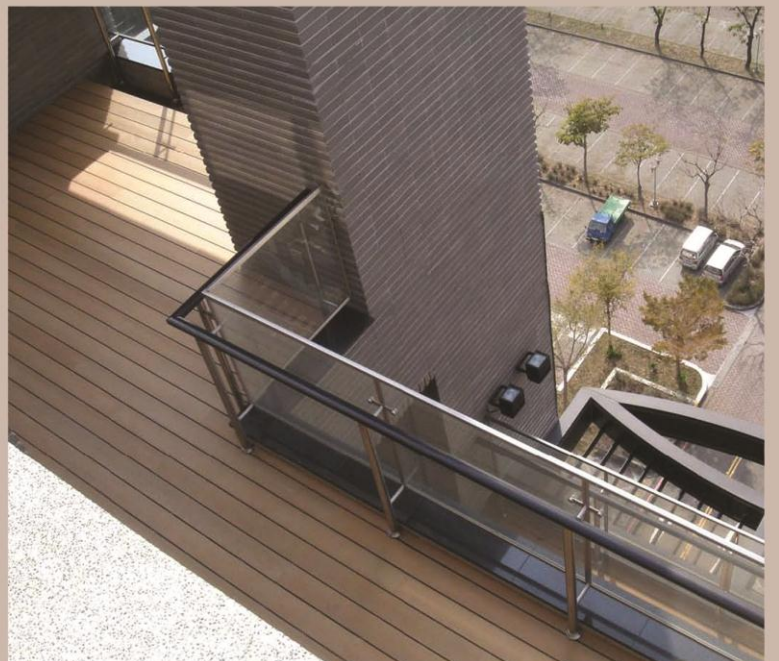
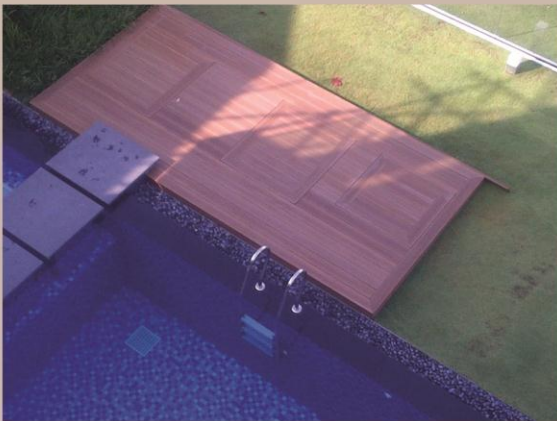
*PE - Polyethylene

*PP - Polypropylene





Wood-plastic composites (WPCs) are composite materials made of wood fiber/flour and plastic(s). In addition to wood fiber and plastic, WPCs can also contain other ligno-cellulosic and/or inorganic filler materials.





Advantages and Disadvantages

WPCs do not corrode and are highly resistant to rot, decay, though they do absorb water into the wood fibers embedded within the material. They have good workability and can be shaped using conventional woodworking tools. WPCs are often considered a sustainable material because they can be made using recycled plastics and the waste products of the wood industry. Although these materials continue the lifespan of used and discarded materials, and have their own considerable half life; the polymers and adhesives added make wood-plastic composite difficult to recycle again after use. They can however be recycled easily in a new wood-plastic composite, much like concrete. One advantage over wood is the ability of the material to be moulded to meet almost any desired shape. A WPC member can be bent and fixed to form strong arching curves. Another major selling point of these materials is their lack of need for paint. They are manufactured in a variety of colours, but are widely available in greys and earth tones.

Fire Hazards

The types of plastics normally used in WPC formulations have higher fire hazard properties than wood alone, as plastic has a higher chemical heat content and can melt. The inclusion of plastic as a portion of the composite results in the potential for higher fire hazards in WPCs as compared with wood. Some code officials are becoming increasingly concerned with the fire performance of WPCs.



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