

REGALBOARD®

Woodlike Vintage Composite Decking



Regalboard Distinctive Advantages

1. Reinforced core material with higher loading ability

Thanks to the well master of the crusting technology, we achieved to make the core material weight lighter, while keeping the board with superior mechanical performance, like anti-bending and etc that are listed in the table above, see remark ① for data details Simply, our product's mechanical performance is at least four times stronger than that of our competitor product. Particularly, please notice that the competitor species is even thicker.

Competitor species size : 176*32mm
Regalboard species size : 175*22mm

2. More durable cap material

By adopting the speical engineered polyurethane material, we are able to get a soft surface while keeping up with extremely good anti-abrasion and anti-scratch performance effect. See remark ② for detailed data information. The anti-abrasion data result of our competitor's species even exceeds the normal standard request($\leq 0.13g/100r$), which means the surface minerals might be scattered everywhere after sometimes' installation. And in view of their uneven capping on surface, which may really cause some headache for home owners.

3. Bonding performance b/t cap and core-Tighter and Safer

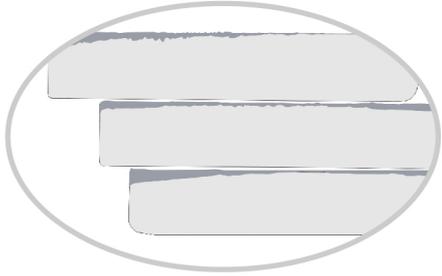
Smart structural slot design with better locking effect to ensure better bonding performance and elimiate faultage. Such can be proved by the test result in illustration③.



4. Stabilizing sheet to ensure lower expansion and contraction rate

Due to the PVC material characteristics, it has larger expansion and contraction rate comparing with other PE composite, thus stabilizing sheet is planted into the core part to optimize the expansion and contraction performance.

Regalboard V.S. Competitor Product Performance

Test Item	Unit	Standard	Regalboard	Competitor	Remark
Mechanic Performance (3 Points bending test with span 300mm)	Loading capacity(N)	BS EN 15534-2017	10654	3487	①
	MOR(Mpa)		54.6	9.96	
	MOE(Mpa)		2101.9	435.4	
Nail holding strength	N	BS EN 13446-2002	1924	530	
Coefficient of thermal expansion	℃-1	ASTM D 6341-2016	2.15×10^{-5}	2.04×10^{-5}	
Bonding Performance	Mpa	GB/T24137-2009	4.26	2.2	③
Anti-abrasion(g/100r)	g	GB/T18102-2007 6.3.11	0.06	0.197	②
Anti-scratch performance	N	FORD FLTM BO 162-01-2009	35	10	②
Product material	Thermoplastic recyclable and eco-friendly		Thermoset plastic unrecyclable		
Production process	The core material is extruded in advance, thus more efficient and can coordinate with larger capacity and better delivery time			The cap and core material are formed together. It takes really long time for the thermosetting process of core material chemicals to react and shape, which limits the capacity	
Product coating layer	 <p style="text-align: center;">Regalboard</p> <p>Protection cap layer is evenly distributed on the board surface to ensure overall protection of the core from harsh weather condition</p>		 <p style="text-align: center;">Competitor</p> <p>Cap layer is not evenly distributed, esp. the top part with extremely thin cap is very easy to be worn out which may fail to protect the core material</p>		



Regalboard Other Advantages

1. Manufactured with solar energy for a greener earth

In pursuit of true sustainable development, Sentai built solar panels with an area of about 135,000 square meters on the company's plant roof. These solar panels can generate 46,000 kiloWatt-hour electricity on a daily basis, which is equivalent to 43 tons of CO2 emissions per day by coal. The solar power plan allows us to further decrease our carbon foot print along with our development by reducing non-renewable resources and replacing them with clean and sustainable solar power.

2. Distinctive grain pattern, customize a terrace that only belongs to you

By moulding from real wood species, we duplicate the grain pattern to ensure every piece of the board is unique and rare, and meanwhile achieve the minimum repeatness appearance.

3. Friendly to the family, enables you to really enjoy your outdoor leisure time

Due to the soft PU material characteristics, the board offers elastic comfortable feeling, which ensures no harm to children or drawback to old users.

4. Invisable screwing solution provides nicer looking deck and much easier installation

Thanks to the PU material, the fixing screws can be completely absorbed without head shown.

5. Rot&Crack resistant

The material is free of plant fibers, which allows it to get rid of termites, rot, or fungi issues. No fiber in core, which leads to smaller moisture absorption rate and ensures no crack or split in your deck.

6. Anti-slippery

The soft surface material makes it easy for people who are walking on it to create enough friction. Together with the moulded grain pattern, the slip resistance performance can easily surpass other products.