AGGTEDeck CO-EXTRUSION DECK TECHNICAL SPECIFICATION

AGGTEDeck is an outer shield of special polymer that completely wrapped the board in an impermeable layer of extra protection from fading, staining, mold/mildew, and scratching.

It is the 2nd general wood plastic composite, it means that high quality shield wrapped 360 degrees around its inner core. The shield and core are extruded together under a very high temperature mold simultaneously, so there are no adhesives or chemicals that are harmful to the environment.

The core is made from high quality HDPE and highly dense recycled populus wood fibers that makes much higher strength and durable than Normal WPC products.

The shield uses an advanced engineering special polymer to create a formulation which gives the boards extra protection against stains, cracking, color fading and it is also no painting and low maintenance.

Composition

The outer shield is made from 100% advanced engineering special polymer, the core is made from 35% HDPE + 55%, Natural wood fiber + 10% Chemical additives.

Waste Disposal

Recyclable. Product is not considered a hazardous waste. Abide by local laws and procedures.

Handling/Cutting

Wear masks and goggles when cutting or grinding. Cover exposed parts of the body. Wear gloves when moving or lifting. Use standard wood working equipment & tolls for cutting. Avoid direct fire source.

Why choose AGGTEDeck Co-extrusion Decking :

1. AGGTEDeck is Low-Maintenance

Unlike standard timber decking, AGGTEDeck never needs to painted, stained, or sealed. Furthermore, since the boards are Anti-UV and Waterproof, your deck will last for decades without warping or rotting. Aside from the occasional wash, AGGTEDeck requires no maintenance whatsoever, leaving you with plenty of free time to enjoy your outdoor living space!

2. AGGTEDeck Resists Heat and Fade

Our decking comes in a variety of styles and colours, but no matter which of our products you choose, your deck boards will stay rich, vibrant and naturally beautiful for years to come – with virtually no maintenance required, as mentioned above. The boards will also stay cool to the touch, even on the hottest summer days; this is due to the highly reflective pigments that are used to colour all AGGTEDeck products.

3. Safety

AGGTEDeck products unlike traditional wood, it is splinter-free, so you can feel free to relax and kick off your shoes. Our safe, high-performance products are great for pubs, cafés and restaurants with their own outdoor areas, and because AGGTEDeck has a slip-resistant surface, it is also ideal for pool decks and spa surrounds.

4. Durability

Bad weather can be rough on a garden deck; hot summers, cold winters, and rainy days often leave wooden deck boards warped and full of splinters. **AGGTEDeck,** on the other hand, will stay beautiful no matter what the weather throws at it – our manufacturing process ensures long-lasting quality.

5. Increases the Value of Your Home

AGGTEDeck will significantly increase that property's value! It will also serve as an additional selling point if you do choose to move away; potential buyers will be bowled over by your beautiful deck, especially when you tell them how little maintenance it requires!

Co-Extrusion Product Specification:

138x22mm Co-extrusion Deck Specifications		
Characteristics	**Test Method**	**Results**
Slipperiness (Pendulum test)	EN 15534-1:2014 Section 6.4.2 CEN/TS 15676:2007	Mean: Longitudional: 59 Horizontal: 63 Min: Longitudional: 58 Horizontal: 62
Abrasion Resistance	ASTM D4060-14	Mass loss: 30.0mg Wear index: 30
Indentation Resistance	EN 15534-1:2014 Section 7.5 EN 15534-4:2014 Section 4.5.7 EN 1534:2010	Brinell Hardness: 79 Mpa Rate of elastic recovery: 54%
Artificial Weathering Resistance	ISO 4892-2:2013 cycle 1	720 hours - Grey Scale 5 1440 hours - Grey Scale 4-5 2000 hours - Grey Scale 4-5
Fire Resistance	ASTM E84-16	Class C
Boiling test	EN 15534-1:2014 Section 8.3.3 EN 15534-4:2014 Section 4.5.5.4	Water absorption in weight: Mean: 0.43% Max: 0.52%
Moisture resistance under cyclic test conditions	EN 15534-1:2014 Section 8.3.2 and 7.3.2	Bending strength : 21.2 Mpa Modulus of elasticity : 2822 Mpa
Swelling and Water Absorption (24 hours immersion)	EN 15334-1:2014 Section 8.3.1 EN 15534-4:2014 Section 4.5.5.3	Mean Swelling: 0.34% in thickness 0.09% in width 0.11% in length Max. Swelling: 0.39% in thickness 0.12% in width 0.15% in length Water absorption: Mean: 1.05% Max.: 1.17%
Linear thermal expansion coefficient	EN 15534-1:2014 Section 9.2 EN 15534-4:2014 Section 4.5.6	Mean: $38.5x10^{-6}K^{-1}$
Tensile Strength perpendicular to the panel	EN 319:1993	Tensile strength: 1.43 N/m^2

Manufacturing Tolerances

Length	+3.0 mm	-3.0 mm
Thickness	+1.0 mm	-1.0mm
Width	+1.0 mm	-1.0 mm