


Product	NexGEN Composite Decking	
Report	PermaTech Innovation	
Description	<p>NexGEN with PermaTech Innovation is a highly engineered, wood polymer composite deck product. Manufactured using a unique hardwood / polyethylene substructure, NexGEN is fusion bonded to a proprietary, patent-pending durable layer we call PermaTech.</p> <p>The PermaTech surface is formulated from a class of polymers called ionomers. The ionomers are engineered properties for bond strength. For a deck surface, these properties add toughness, tensile strength, relative impact and weatherability. PermaTech provides many of the durability features found in golf ball covers.</p>	
How PermaTech is made?	<p>NexGEN with PermaTech Innovation is made using a co-rotating extrusion process that very efficiently blends all the performance enhancing ingredients with our carefully selected wood and polyethylene polymers to yield a solid dense core that can withstand the rigors of outdoor deck performance. Over this core, we co-extrude a specially engineered cap stock that substantially enhances the overall durability of the NexGEN boards. Our proprietary cap stock is designed to resist all the problems that plague regular composite products.</p> <p>PermaTech is weatherable and provides stain, fade and scratch resistance.</p>	
Why PermaTech?	<p>Composite decking has been on the market for many years. Unfortunately most producers are still making their decking products the same way they started. We know from history that conventional composite products fade and stain over time. If the proper amount of UV inhibitors and anti-oxidants are not in the formulation, photochemical degradation progresses to the point of poor appearance plus the loss of structural integrity. The wood portions of standard composites are frequently exposed at progressively higher rates as degradation progresses. This fact can be seen in many standard composite decks today. NexGEN's composite core structure is, and has traditionally been, a superior product and by applying the PermaTech cap system we create a long term product that stands up to more than just the weather.</p>	

