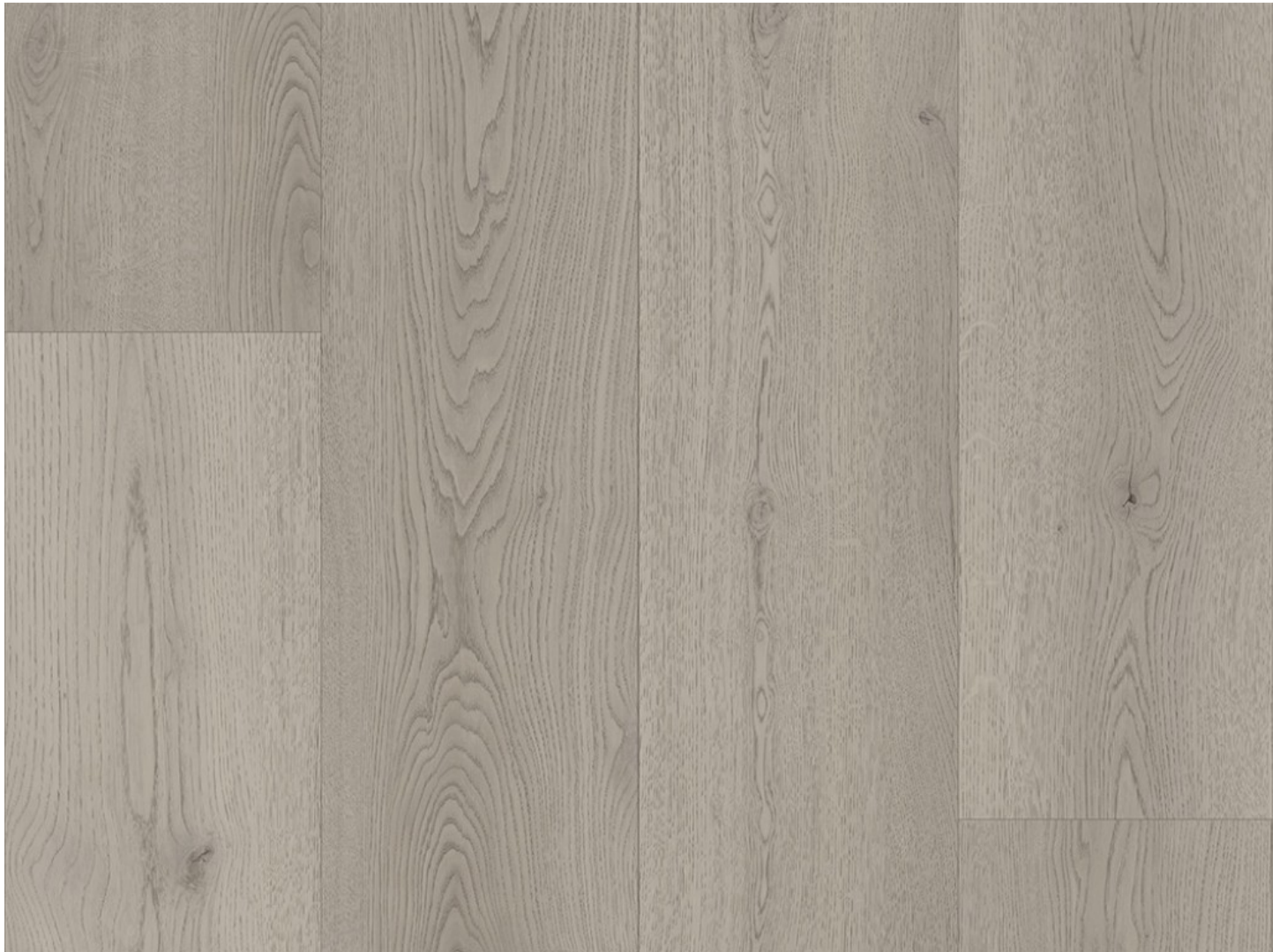


New Stone: Advanced Rigid Core SPC Flooring Producer Focused on Core Composition and Wear Layer



Dezhou, Shandong Aug 27, 2026 ([Issuewire.com](https://www.issuewire.com)) - When sourcing materials for demanding residential and commercial projects, professional buyers require precise, quantifiable data regarding board structure and surface durability rather than relying on broad product labels. [Advanced rigid core SPC flooring producer](#) Shandong New Stone New Material Co., Ltd. serves the global building materials market by helping commercial purchasers center their evaluations on essential metrics such as core composition, wear layer configurations, and verifiable performance specifications.

Built on a highly stable rigid stone-plastic composite core, the Most Popular SPC configuration from New Stone lists specific material data, including a 4.0–7.0mm thickness range, a core density of 1.95–1.97g/cm³, and functional wear layer options of 0.3mm or 0.5mm. By organizing product information and procurement discussions around these exact structural metrics, buyers can establish a unified, objective review framework that addresses both the internal structural integrity of the plank and the external surface durability required for heavy-traffic applications. This data-driven approach ensures that material selection is aligned precisely with the physical demands of the intended installation site.

Stone Powder and Polymer Resin Define the SPC Core Platform

The technical foundation of rigid core SPC flooring begins with its precise material composition. [New Stone](#) constructs its advanced SPC core by combining natural stone powder with high-quality polymer resin, utilizing a sophisticated high-temperature and high-pressure integrated molding process to create a highly stable, rigid board. This specific formulation explains why rigid-core products differ fundamentally from traditional, flexible vinyl floors that may be susceptible to telegraphing or dimensional shifting over time.

In this multi-layered structure, the rigid core layer assumes the primary responsibility for the board's overall stiffness, impact resistance, and dimensional stability. This robust foundation allows the upper surface and decorative layers to focus strictly on delivering visual appeal and resisting surface abrasion. For purchasing professionals and project specifiers, core composition should always be verified in conjunction with precise density and thickness indicators. The industry term "rigid core" only carries tangible specification value when it is directly supported by physical structural data and a proven, high-pressure manufacturing mechanism that guarantees long-term operational performance.

Rigid Core and Click Lock Work as One Installation Platform

Rather than treating the rigid core as an isolated selling point, New Stone engineers its rigid core SPC products by systematically pairing the rigid stone-plastic composite core with a highly reliable click-lock system. This calculated combination ensures that the board's inherent structural stiffness and its mechanical splicing mechanism work seamlessly together as a unified installation platform.

Designed to support the rigorous demands of both residential and commercial projects, this integrated platform is further strengthened by an advanced anti-scratch wear layer that protects the surface against daily operational stress. Meanwhile, the wood and marble grain finishes applied to the decorative layer serve a purely visual function, accurately replicating natural textures without compromising the plank's structural integrity. This distinct separation of structural mechanics and surface decor allows procurement teams to secure the correct core composition and mechanical installation method first. Once the physical platform is confirmed, buyers can then select project-specific surface visuals without confusing the underlying material structure with the exterior decorative design.

Wear Layer Is a Buyer-Controlled Surface Parameter

Surface durability represents one of the most critical variables in long-term flooring procurement, making the wear layer a vital, buyer-controlled specification in any commercial order. Within the broader stone plastic composite flooring category, New Stone currently provides 0.3mm and 0.5mm wear layer options as standard reference points for project discussions and contract negotiations.

Different wear-layer configurations must be evaluated carefully against the anticipated daily foot traffic, potential surface wear risks, and the expected maintenance routines of the target environment. Purchasing documents should explicitly record the required wear layer thickness rather than assuming all SPC SKUs offer identical surface protection by default. By linking the chosen wear layer to actual usage scenarios involving standing water marks, accidental oil spills, and the necessity of frequent cleaning, buyers can ensure that the selected surface layer adequately supports the practical, everyday maintenance demands of busy commercial offices, retail spaces, and public facilities.

Thickness and Density Help Define the Core Configuration

To build a thorough structural profile for rigid-core SPC flooring, plank thickness and core density data serve as essential screening dimensions during the vendor evaluation process. The Most Popular SPC specifications list a body-table thickness of 4.0–7.0mm and a controlled core density of 1.95–1.97g/cm³. These specific figures allow procurement teams to compare different board structures objectively and finalize the complete plank configuration alongside the selected wear layer, acoustic underlayment, and click-lock installation method.

It is important to note that while the broader product title mentions a 4–8mm IXPE underlay configuration, the specific body-table data for the Most Popular SPC focuses distinctly on the 4.0–7.0mm thickness range. Formal purchase orders and manufacturing contracts should clearly distinguish between the broader title-level product range and the specific SKU-level data found in the detailed specification table. Verifying thickness and density at the exact SKU level prevents the unconditional merging of different measurement ranges and eliminates potential ambiguity in formal procurement documents, ensuring the factory produces exactly what the project requires.

Fire, Slip and Wear Rows Extend the Specification Checklist

A comprehensive and professional SPC specification review must extend far beyond basic core dimensions and surface thickness to include standardized safety and performance testing. Incorporating specific test rows for reaction to fire, surface slip resistance, and overall wear resistance ensures that all complex project requirements are met with verifiable, third-party aligned indicators.

New Stone supports its wholesale flooring specifications with distinct, documented testing parameters. The technical product tables list a reaction to fire rating of EN13501-1 Bfl-S1, slip resistance evaluated at DIN 51130/EN 13893 R10 DS, and surface wear resistance classified under EN660-2 Group T. These critical data rows provide a necessary foundation for technical communications during stringent commercial, office, or public space projects where safety compliance is non-negotiable. However, procurement teams must still cross-reference the chosen SKU with the scope of the current testing documents to confirm full compliance and applicability for their specific regional installation environment.

Core and Surface Data Create a More Precise RFQ for Rigid SPC

Professional buyers should first define the actual service environment and required wear-layer specifications, and then confirm thickness and dimensional specifications. This helps avoid communication deviations that commonly occur when merely relying on manufacturers' default parameters. Purchasing managers may visit the official website at <https://www.newstonefloor.com/> to verify SKU-specific product specifications and review relevant performance test data. This aligns the technical checklist with actual product availability. They can then compile these detailed structural metrics into a formal, highly-accurate project inquiry to streamline the global procurement process.



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