COMPARISON OF NOMAFLEX® AND ASPHALT-IMPREGNATED FIBERBOARD



Referenced Standard Test Methods: ASTM D 8139 Referenced Standard Test Methods: ASTM D 545 and AASHTO T 42 Referenced Standard Specifications: ASTM D 1751 and AASHTO M 213

Physical Properties	Nomaflex	Asphalt-Impregnated Fiberboard	Added Value of Nomaflex
Water absorption	< 1% by volume: Does not swell or absorb any practical amount of water	Absorbs water up to 15% by volume in 24 hours, then swells and separates	Nomaflex will last longer in the presence of moisture and ongoing precipitation
Compression (to 50%)	Minimum > 30 psi, Maximum < 60 psi	Minimum > 100 psi, Maximum < 750 psi	Nomaflex withstands concrete expansion / contraction with no impact on structural integrity
Recovery (from 50%)	> 80% Compression Recovery	> 70% Compression Recovery	Nomaflex stays in place and keeps the joint free of debris with or without a sealant
Extrusion (at 50%)	< 0.1 in. movement	< 0.25 in. movement, (frequently misses this test approval due to variance in product composition)	Nomaflex offers more consistency and stability due to its polypropylene composition
Expansion in boiling water	<1% expansion	No published test results to this standard	Nomaflex shows superior performance (both structurally and for moisture resistance) with this extreme test
Disintegration in boiling hydro- chloric acid (HCl)	No disintegration after immersion in boiling hydrochloric acid (HCl) for 1 hr.	No published test results to this standard	Nomaflex shows superior performance (both structurally and with chemical resistance) with this extreme test
Density	> 3.5 lbs./cu.ft.	>18 lbs./cu.ft.	Nomaflex is light weight and easier to handle, and its polypro- pylene composition provides rigidity with superior resistance to breakage
Sealant compatibility	Compatible with all known concrete joint sealants	Not always compatible with polyurethane or silicone based sealants as indicated by the sealant manufac- turers	Nomaflex®allows for a superior bond between the concrete and sealant without 3-sided adhesion or impacting cure times, nor will it discolor the sealant as seen with asphalt-impregnat- ed fiberboard due to asphalt leaching
UV resistance	Excellent UV resistance	Good UV resistance	Nomaflex is made with UV inhibitors for extended life with or without joint sealant
Chemical Resistance	Excellent chemical resistance (polypropylene is a chemically inert compound)	Fair chemical resistance (fibers come apart in the presence of various chemical)	Nomaflex is chemically inert. Asphalt-impregnated fiberboard is not. Nomaflex will not react with salts, gasoline products, motor oils, acetone and countless chemicals used on and around concrete structures

