

Technical Data Fire Performance

Background: Products may be classified as applied millwork or as a nonstructural interior wall covering. In selected building types, project applications and municipalities (subject to a particular building code), applied millwork and interior wall coverings are required to have a Class A or Class 1 fire retardant **finish** rating. Or, alternatively, certain building types and project applications where applied millwork is specified may require a Class A or Class 1 fire retardant **material** rating. The later specification level requires that the product be manufactured using a fully fire retardant (FR) core. It is a more stringent and correspondingly a more costly solution than achieving a Class A or Class 1 finish rating by employing a fire retardant finish system. Fire retardant core panels are available with our Classic Traditional® and Classic Modern® product line. NEC rail products and our other product lines may be upgraded with a fire retardant finish.

Fire Retardant Finish: Products may be upgraded to a Class 1 or Class A finish rating by application of a factory applied non-halogen polymeric fire retardant coating. The fire retardant coating used is a spray applied, clear multi-versatile, non-toxic, non-halogen, non-salt, highly concentrated water based polymer coating. The coating, independently tested by Underwriters Laboratory, based upon the UL-723 test protocol, meets or exceeds Class 1 national flammability standards when applied to the surface of wood and wood fiber composite materials.

Finish Technical Data

Flame spread (UL-723)	< 22 (Class A or Class 1)
Smoke Generated (UL-723)	< 104 (Class A or Class 1)
Solvent	Water
Total Solids	60%
Color	Water clear (wet and dry)
Volatility	Non-volatile
Anti-fungus	Excellent
Bacterial	Mildly resistant
Linear shrinkage	None
Moisture absorption	None
Toxicity	None

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Preservative	Excellent
Insect, rodent, termite	Excellent resistance
Storage	Over 12 months
Scrub ability	500 cycles

Fire Retardant Core: In applications where a fully fire retardant material is required, NEC Classic Traditional® and Classic Modern® panels may be specified with a FR-MDF core. The FR-MDF panel core has been tested by Underwriter Laboratories to determine fire performance characteristics and by Anderson Laboratories to determine toxicity performance. NEC Classic Modern® panels manufactured with the FR-MDF core carry a material acceptance designation by the City of New York: MEA 190-99-M. NEC rail products and other product lines may be upgraded with a factory applied fire retardant finish.

Core Material Technical Data

Flame spread (UL 723)	25
Smoke developed (UL 723)	160
Toxicity	Not more than solid wood