

FLAME SPREAD CLASSIFICATIONS AND SMOKE DEVELOPMENT RATINGS

All Building Codes have Flame Spread Classifications and Smoke Development Ratings for Interior Finish and Trim Items.

Interior Finish and Trim are defined as wall and ceiling coverings, paneling, gill work, decorative materials, acoustical materials, baseboards, railing and door & window trim.

Interior finish does not include doors, windows, cabinets and wall coverings of less than 1/28" in thickness.

There are three Flame Spread / Smoke Development Ratings:

- Class I (or A) 0-25 Flame Spread & 450 Max Smoke Development
- Class II (or B) 26-75 Flame Spread & 450 Max Smoke Development
- Class III (or C) 76-200 Flame Spread & 450 Max Smoke Development

If doors from VT Industries did require a Flame Spread/Smoke Development Rating, all of the wood components, wood veneer species and laminates used in the door construction have a Flame Spread Classification in the 100's, all less than the maximum 200 classification. Additionally all components have a Smoke Development Rating in the 100's, much less than the maximum 450 rating

Thus the doors would achieve a Class III (or C) Flame Spread/Smoke Development Rating.

ASTM E 84 is the Standard Test Method for Surface Burning Characteristics of Building Materials, This test is used to evaluate building materials to assess how a fire may spread in the room of origin.

NFPA 252, UL 10B & UL 10C are the fire test methods for evaluating fire doors to determine a doors ability to prevent a fire from spreading from the room of origin to an adjacent room or space