



## FLAME SPREAD PERFORMANCE OF COMPOSITE WOOD PANELS AND FINISHES

Unless otherwise stated, Flakeboard particleboard or MDF in industrial or laminated<sup>1</sup> forms are not certified for a specific flame spread rating.

Untreated<sup>2</sup> particleboard and MDF have been tested for flame spread by a number of different manufacturers and the results met the **Class III or C** rating. The Department of Housing and Urban Development (HUD) in their Manufactured Home Construction and Safety Standards (Section 3280.203) accepts particleboard 3/8 inch and thicker as having a flame spread rating of 76 to 200 for general use in mobile homes.

The American Wood Council (AWC) of the American Forest and Paper Association (AF&PA) has published information in their "Design for Code Acceptance" series (DCA1) relating to Flame Spread Performance of Wood Products. The document can be found at [www.awc.org](http://www.awc.org). Table 1 in that document places particleboard and MDF in the Class III or C rating. Likewise, Table 2 in that document places factory finished products (i.e. printed or with overlays) containing untreated particleboard and MDF substrates in the Class III or C flame spread rating.

Smoke data specific to every product is currently not available; however other manufacturers have found typical values of 100-200 for smoke developed. The AF&PA document states that "a smoke-developed index was measured for some of the wood products listed in Tables 1 and 2". None of the products tested exceeded 450, a limiting value commonly used in building code regulations.

Flakeboard particleboard and MDF treated with fire-retardant<sup>3</sup> (FR) additives are certified by Underwriters Laboratories to have a **Class A or Class I** flame spread rating<sup>4</sup>. In addition, TFM laminated on Flakeboard's fire-rated particleboard or MDF substrates at the St. Stephen, NB or Simsboro, LA laminating facilities are classified by Underwriters Laboratories to have a **Class A or Class I** flame spread rating<sup>4</sup>.

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<sup>1</sup> TFM (thermally fused melamine), decorative paper overlay, wet coated-i.e./ Rezcote-paint or direct print

<sup>2</sup> Without a fire-retardant additive

<sup>3</sup> Trade names: Duraflake® FR, Premier FR®, VESTA FR Particleboard, VESTA FR MDF

<sup>4</sup> UL 723 Test for Surface Burning Characteristics of Building Materials  
CAN/ULC – S102 Test for Surface Burning Characteristics of Building Materials