

Table 1. Assigned flame-spread ratings and smoke developed classifications

Materials	Applicable Standard	Minimum Thickness (mm)	Unfinished		Paint or Varnish not more than 1.3 mm Thick, Cellulosic Wallpaper not more than 1 Layer ⁽¹⁾⁽²⁾	
			FSR	SDC	FSR	SDC
Brick, concrete, tile	None	None	0	0	25	50
Steel, copper, aluminum	None	0.33	0	0	25	50
Gypsum plaster	CSA A82.220M	None	0	0	25	50
Gypsum wallboard	CSA A82.27-M4 ASTM C 1396 ASTM C 1396M	9.5	25	50	25	50
Lumber	None	16	150	300	150	300
Douglas Fir plywood ⁽³⁾	CSA O121	11	150	100	150	300
Poplar plywood ⁽³⁾	CSA O153-M	11	150	100	150	300
Plywood with Spruce face veneer ⁽³⁾	CSA O151	11	150	100	150	300
Douglas Fir plywood ⁽³⁾	CSA O151	6	150	100	150	100
Fiberboard low density	CAN/ULC-S706	11	X	100	150	100
Hardboard – Type 1	CAN/CGSB-11.3M	9	150	X	⁽⁴⁾	⁽⁴⁾
Hardboard – Standard	CAN/CGSB-11.3M	6	150	300	150	300
Particleboard	ANSI A208.1	12.7	150	300	⁽⁵⁾	⁽⁴⁾
Waferboard, OSB	CSA O437.0	–	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾
	CAN/CSA-O325	–	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾	⁽⁴⁾

Notes:

- (1) Flame-spread ratings and smoke developed classifications for paints and varnish are not applicable to shellac and lacquer.
- (2) Flame-spread ratings and smoke developed classifications for paints apply only to alkyd and latex paints.
- (3) The flame-spread ratings and smoke developed classifications shown are for those plywoods without a cellulose resin overlay.
- (4) Insufficient test information available.

Source: 2010 NBCC Division B, Appendix D, Section D-3.