ANNEX

In the Annex to Decision 2003/43/EC, Table 1 is replaced by the following:

TABLE 1

Classes of reaction to fire performance for wood-based panels

| **Product** | **EN product standard** | **End use condition[f]** | **Minimum density(kg/m$^3$)** | **Minimum thickness(mm)** | **Class[g](excluding floorings)** | **Class[h](floorings)** |
|---|---|---|---|---|---|---|
| Cement-bonded particleboard[a] | EN 634-2 | without an air gap behind the panel | 1 000 | 10 | B-s1, d0 | $B_{fl}$-s1 |
| Fibreboard, hard[a] | EN 622-2 | without an air gap behind the wood-based panel | 900 | 6 | D-s2, d0 | $D_{fl}$-s1 |
| Fibreboard, hard[c] | EN 622-2 | with a closed air gap not more than 22 mm behind the wood-based panel | 900 | 6 | D-s2, d2 | — |
| Particleboard[a],[b],[d] | EN 312 | without an air gap behind the wood-based panel | 600 | 9 | D-s2, d0 | $D_{fl}$-s1 |
| Fibreboard, hard and medium[a],[b],[e] | EN 622-2 EN 622-3 | | | | | |
| MDF[a],[b],[e] | EN 622-5 | | | | | |
| MDF[a],[b],[e] | EN 300 | | | | | |

| | |
|---|---|
| **a** | Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10 kg/m$^3$ or at least class D-s2, d2 products with minimum density 400 kg/m$^3$. |
| **b** | A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings. |
| **c** | Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m$^3$. |
| **d** | Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m$^3$. |
| **e** | Veneered, phenol- and melamine-faced panels are included for class excl. floorings. |
| **f** | A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m$^2$ can be mounted in between the wood-based panel and a substrate if there are no air gaps in between. |
| **g** | Class as provided for in Table 1 of the Annex to Decision 2000/147/EC. |
| **h** | Class as provided for in Table 2 of the Annex to Decision 2000/147/EC. |

| | | | | | | |
|---|---|---|---|---|---|---|
| Plywood[a, b, e] | EN 636 | -"- | 400 | 9 | D-s2, d0 | $D_{fl}$-s1 |
| Solid wood panel[a, b, e] | EN 13353 | | | 12 | | |
| Flaxboard[a, b, e] | EN 15197 | -"- | 450 | 15 | D-s2, d0 | $D_{fl}$-s1 |
| Particleboard[c, e] | EN 312 | with a closed or an open air gap not more than 22 mm behind the wood-based panel | 600 | 9 | D-s2, d2 | — |
| Fibreboard, hard and medium[c, e] | EN 622-2 EN 622-3 | | | | | |
| MDF[c, e] | EN 622-5 | | | | | |
| OSB[c, e] | EN 300 | | | | | |
| Plywood[c, e] | EN 636 | -"- | 400 | 9 | D-s2, d2 | — |
| Solid wood panel[c, e] | EN 13353 | | | 12 | | |
| Particleboard[d, e] | EN 312 | with a closed air gap behind the wood-based panel | 600 | 15 | D-s2, d0 | $D_{fl}$-s1 |
| Fibreboard, medium[d, e] | EN 622-3 | | | | | |
| MDF[d, e] | EN 622-5 | | | | | |
| OSB[d, e] | EN 300 | | | | | |
| Plywood[d, e] | EN 636 | -"- | 400 | 15 | D-s2, d1 | $D_{fl}$-s1 |
| Solid wood panel[d, e] | EN 13353 | | | | D-s2, d0 | |
| Flaxboard[d, e] | EN 15197 | -"- | 450 | 15 | D-s2, d0 | $D_{fl}$-s1 |
| Particleboard[d, e] | EN 312 | with an open air gap behind | 600 | 18 | D-s2, d0 | $D_{fl}$-s1 |
| Fibreboard, medium[d, e] | EN 622-3 | | | | | |

**a** Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10 kg/m$^3$ or at least class D-s2, d2 products with minimum density 400 kg/m$^3$.

**b** A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.

**c** Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m$^3$.

**d** Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m$^3$.

**e** Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

**f** A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m$^2$ can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.

**g** Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

**h** Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.

| | | | | | | |
|---|---|---|---|---|---|---|
| MDF[d,e] | EN 622-5 | the wood-based panel | | | | |
| OSB[d,e] | EN 300 | | | | | |
| Plywood[d,e] | EN 636 | -"- | 400 | 18 | D-s2, d0 | $D_{fl}$-s1 |
| Solid wood panel[d,e] | EN 13353 | | | | | |
| Flaxboard[d,e] | EN 15197 | -"- | 450 | 18 | D-s2, d0 | $D_{fl}$-s1 |
| Particleboard[e] | EN 312 | any | 600 | 3 | E | $E_{fl}$ |
| OSB[e] | EN 300 | | | | | |
| MDF[e] | EN 622-5 | -"- | 400 | 3 | E | $E_{fl}$ |
| | | | 250 | 9 | E | $E_{fl}$ |
| Plywood[e] | EN 636 | -"- | 400 | 3 | E | $E_{fl}$ |
| Fibreboard, hard[e] | EN 622-2 | -"- | 900 | 3 | E | $E_{fl}$ |
| Fibreboard, medium[e] | EN 622-3 | -"- | 400 | 9 | E | $E_{fl}$ |
| Fibreboard, soft | EN 622-4 | -"- | 250 | 9 | E | $E_{fl}$ |

**a** Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10 kg/$m^3$ or at least class D-s2, d2 products with minimum density 400 kg/$m^3$.

**b** A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.

**c** Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/$m^3$.

**d** Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/$m^3$.

**e** Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

**f** A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/$m^2$ can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.

**g** Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

**h** Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.

**Changes to legislation:**
There are currently no known outstanding effects for the Commission Decision of 15 May 2007 amending Decision 2003/43/EC establishing the classes of reaction-to-fire performance for certain construction products as regards wood-based panels (notified under document number C(2007) 2045) (Text with EEA relevance) (2007/348/EC), ANNEX.