

4.11.1 Release of formaldehyde

Formaldehyde emission levels from HPL Compact laminate panels comply with Class E1 requirements without the need for testing.

In the case of HPL wood-based composite panels, if the substrate complies with Class E1 requirements, then the complete panel shall be accepted as meeting Class E1 without the need for testing.

For initial type testing of HPL wood-based composite panels the release of formaldehyde shall be determined according to EN 717-1 and the result shall be declared in terms of formaldehyde class as defined in Table 4. For factory production control purposes formaldehyde emission may be determined in accordance with EN 717-2, applying the appropriate values from Table 4.

Table 4 — Release of formaldehyde limit values

	EN 717-1 requirement	EN 717-2 requirement
Class E1	$\leq 0.13 \text{ mg/m}^3 \text{ air}$	$\leq 3.5 \text{ mg/m}^2 \text{ h}$
Class E2	$> 0.13 \text{ mg/m}^3 \text{ air}$	$> 3.5 \text{ to } \leq 8.0 \text{ mg/m}^2 \text{ h}$

NOTE For established products, initial type testing may also be done on the basis of existing data from tests carried out in accordance with EN 120 or EN 717-2, either from factory production control or from external inspection.