# **BURNBLOCK**®

NATURAL & NON-TOXIC FIRE RETARDANT

## EN 45545-2:2013

FSC certified birch plywood treated with Burnblock® fire retardant meets the highest standards for the European transport sector

The EN 45545-2 rail Standard involves an evaluation of the following fire performance tests for railway rolling stock walls and floors.

### **Operating Conditions**

OC 1: Vehicles for operation on infrastructure (tunnel or elevated structures < 1km in length) where railway vehicles may be stopped with minimum delay, and where a safe area can always be reached immediately.

OC 2: Vehicles for operation on underground sections, tunnels and/or elevated structures (< 5 km in length), with side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a short running time 4min (min speed 80 km/h).

OC 3: Vehicles for operation on underground sections, tunnels and/or elevated structures (> 5 km in length), with side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a long running time 15min (min speed 80 km/h).

OC 4: Vehicles for operation on underground sections, tunnels and/or elevated structures (< 5 km in length), without side evacuation available and where there are stations or rescue stations that offer a place of safety to passengers, reachable within a short running time 4min (min speed 80 km/h).



#### Reaction to Fire Behavior and tox

#### R1; HL1, HL2 (walls)

ISO 5658-2 ISO 5660-1 ISO 5639-2+tox (50 kW/m2)

#### R10; HL1, HL2 and HL3 (flooring)

EN ISO 9239-1 EN ISO 5659-2+tox (25 kW/m2)

#### **Highest EU Standards**

EN 13501-1 and 2 B-s1, d0 K<sub>1</sub>, K<sub>2</sub>-10

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