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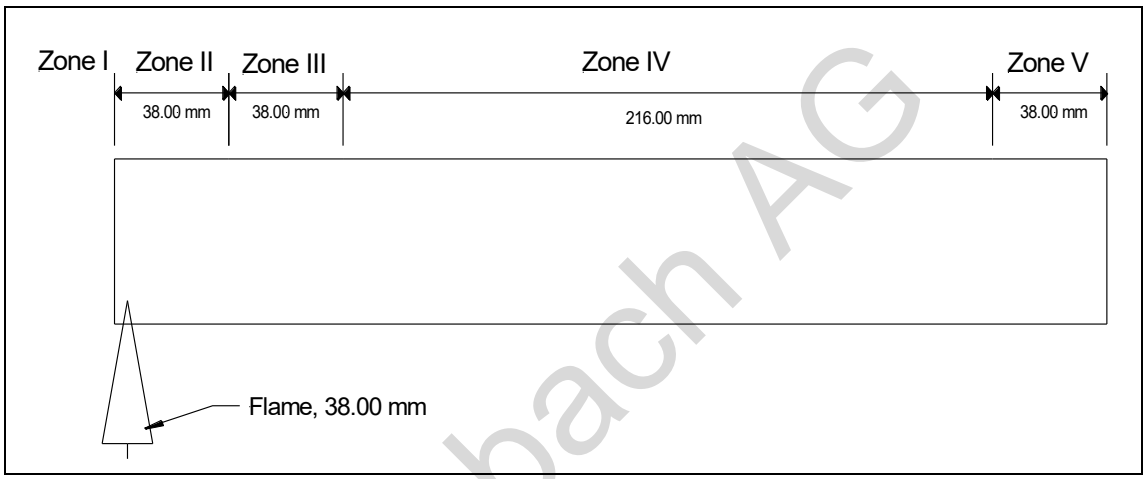
Technical Information

Flammability assessment based on FMVSS 302 and DIN 75200

DIN 75200 came out of the American standard FMVSS 302 (Federal Motor Vehicle Safety Standard). The test procedures are practically identical. DIN 75200 only defines the test setup, the fire test procedure and the determination of the burn rate; FMVSS 302 additionally specifies the assessment criteria. Both standards are designed to determine the flammability of materials used in the interior of motor vehicles.

The test examines the flammability of materials of all kinds. The specimen is clamped in a frame (specimen holder) and secured with support wires where necessary. A defined flame (38 mm high) is then applied to the specimen for 15 seconds. The timing starts from the moment zone III begins to burn.



The test results are given as follows (from FMVSS 302).

Assessment	Definition
DNI	**d**oes **n**ot **i**gnite The material does not support combustion during or after ignition
SE	**s**elf-**e**xtinguishing The material ignites but extinguishes itself within zone II, i.e. within the first 38 mm of the measuring distance (= the specimen)
SE/NBR	**s**elf-**e**xtinguishing/**n**o **b**urn **r**ate The material ignites but extinguishes itself before it has burned for 60 seconds from the start of timing and has not burnt more than 38 mm zone III from the moment of timing. No burn time or burn rate is recorded.
SE/B	**s**elf-**e**xtinguishing/**b**urn rate The flame extinguishes itself before the end of the total distance, i.e. within zone IV, but burns beyond 38 mm from the start of timing. Burn rate B is calculated from the burn distance and burn time. B = burn distance [mm] / time [min] x 60
B	**b**urn rate The flame travels the full distance to the end point within a specified time, i.e. the specimen burns up completely. Burn rate B is calculated. B = 60 x burn distance/time [mm/min]