

3200603 HOT MIX ASPHALT PLANT METHODS AND EQUIPMENT
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comments: (11-26-18, Industry)

The frequency for checking temps in the windrow (320-6.3.2) is still 500'. It needs to be about 1500. There is never more than a load or load and a half on the ground at one time. At 1.5" thick and 12 wide, a load goes about 275'.

Response: Since a windrow is placed on the road prior to paving and is a much smaller mass of mix, is more spread out, has more sides exposed to the elements, and therefore has an increased cooling rate, we selected a frequency to ensure adequate temperature checks were performed for the thickness ranges and paving production rates that occur on FDOT projects.

While on a per truck basis, it may seem too frequent for some thicknesses (and possibly not enough for others), bottom line is that regardless of thickness, one check every 500 ft equals 10 checks/mile, which we don't believe is excessive, especially when time is considered.

Below are two examples, for a given mix tonnage, that show the number of temperature checks and time between temperature checks.

Hopefully you'll see that it isn't an excessive number of checks for a paving shift.

Example: Pave 550 tons over a 10-hour paving shift:

For 1.5" thickness:

Number of Temperature Checks = 10
Time frequency = 1 check/60 minutes

For 2.5" thickness:

Number of Temperature Checks = 6
Time frequency = 1 check/100 minutes

Even if a contractor paves the same tonnage in 5 hours (half the time), the time frequencies become 1 check/30 minutes (for 1.5" thickness), and 1 check/50 minutes (for 2.5" thickness), which are still not excessive.

The windrow temperature check frequency of 1 check/500 ft is reasonable
