METHODS OF SAMPLING AND TESTING
MT 226-16
MAXIMUM ACCEPTABLE DEVIATIONS IN THE SIEVE ANALYSIS OF INDEPENDENT ASSURANCE SAMPLES
(*Montana Method*)

1 Scope

1.1 This method shall serve as a guide in evaluating the maximum acceptable deviations in the sieve analysis of **Independent Assurance** samples. If the individual grading percentages vary from the group average percentages by more than the amounts listed, the cause must be determined and the error remedied. Deviation percentages are based on the weight of the total sample.

2 References

MT Materials Manual
MT 201 Sampling Roadway Materials
MT 602 Independent Assurance and Final Record Sampling
MT 607 Procedure for Reducing Field Samples of Aggregate to Testing Size

Sieve Size	Permissible Variation
4" (100 mm)	±3%
3" (75 mm)	±3%
2 1/2" (63 mm)	±3%
2” (50 mm)	±3%
1 1/2" (37.5 mm)	±3%
1" (25 mm)	±3%
¾” (19 mm)	±3%
5/8” (16.0 mm)	±3%
½” (12/5 mm)	±3%
3/8” (9.5 mm)	±3%
No. 4 (4.75 mm)	±2%
No. 8 (2.36 mm)	±2%
No. 10 (2.00 mm)	±2%
No. 16 (1.18 mm)	±2%
No. 30 (0.600 µm)	±2%
No. 50 (0.300 µm)	±2%
No. 100 (0.150 µm)	±2%
No. 200 (0.075 µm)	±1.5

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