

New York DOT

We have 3 levels of smoothness for both HMA and PCC. The smoothness level is specified in the contract documents. Level 1 is for limited access facilities. A “lot” is 0.1 lane-mile. Quality unit is a fixed price, i.e., the contractor does not bid. We also have contracts with no ride quality.

For PCC:

We currently specify a California profilograph using a 0.2 blanking band. A lot is 0.1 lane-miles. Quality Units are a fixed price. We also have a non-profilographed item which is 0.125 inch maximum deviations in 10'. City streets, etc.

TABLE 502-4 SMOOTHNESS ADJUSTMENT FACTORS		
Final Profile Index (mm/km.)	Level 1 SAF	Level 2 SAF
0.0 - 16.0	1.05	1.05
16.1 - 32.0	1.04	1.04
32.1 - 48.0	1.03	1.03
48.1 - 64.0	1.02	1.02
64.1 - 79.9	1.01	1.01
80	1	1
80.0 +	Grind	1
190.0 +	Not Applicable	Grind

Quality Units (Per Segment) = (SAF - 1.00) x PCC Cubic Meters (Per Segment)

16 mm/km = 1 inch/mile.

We will change the PCC specification to an IRI Specification in the near future. We will probably make the Level 1 PCC on the order of Level 2 HMA. PCC will retain smoothness longer than HMA. Contractors have been using profilers and giving us data in both PI and IRI. We also wanted to wait on IRI until the Rolline laser technology was marketed because we are a longitudinal texture state. We now have some projects that are PI bonus, but IRI grinds.

For HMA:

LEVEL 1		LEVEL 2		
PRQ lot IRI (in/mi)	Quality Units	PRQ lot IRI (in/mi)	Quality Units for Multiple-Course	Quality Units for Single-Course
< 40	8	< 50	8	4
40 - 55	4	51 - 65	4	2
56 - 70	0	66 - 80	0	0
71 - 85	-4	81 - 95	-4	-2
86 - 95	-8	96 - 105	-8	-4
> 95 ⁽¹⁾	-16	> 105 ⁽¹⁾	-16	-8

- (1) The Department will evaluate the lot to determine if it will remain in place. The level of ride quality, location, traffic volume, and speed limit will be primary considerations in determining if the pavement will remain in place. If the pavement cannot remain in place, repair it according to the procedures under Corrective Action in this specification. If the pavement can remain in place, the Raw Quality Units will be calculated according to Table 1.