



CONVERSION OF NAASRA ROUGHNESS READINGS TO INTERNATIONAL ROUGHNESS INDEX

Most Overseas specifications and roughness measuring equipment nowadays specify or read in International Roughness indices (IRIs). In Australia we will probably carry on using the NAASRA roughness car for some time, but we will also need to know the results in IRIs as well.

For a quick reference the following table equates the two. Please note that here the IRIs are given in mm/km where as it is also normal to quote them in m/km, ie an IRI of 2 has a NAASRA equivalency of 56.

IRI (mm/km)	NAASRA Roughness Equivalent ($26.49 \times \text{Lane IRI}_{qc}$ (m/km) – 1.27)	IRI (mm/km)	NAASRA Roughness Equivalent ($26.49 \times \text{Lane IRI}_{qc}$ (m/km) – 1.27)
700.0	17	2900.0	76
800.0	20	3000.0	78
900.0	23	3100.0	81
1000.0	25	3200.0	83
1100.0	28	3300.0	86
1200.0	31	3400.0	89
1300.0	33	3500.0	91
1400.0	36	3600.0	94
1500.0	38	3700.0	97
1600.0	41	3800.0	99
1700.0	44	3900.0	102
1800.0	46	4000.0	105
1900.0	49	4100.0	107
2000.0	52	4200.0	110
2100.0	54	4300.0	113
2200.0	57	4400.0	115
2300.0	60	4500.0	118
2400.0	62	4600.0	121
2500.0	65	4700.0	123
2600.0	68	4800.0	126
2700.0	70	4900.0	129
2800.0	73	5000.0	131