



Guide to Road Design Part 4A: Unsignalised and Signalised Intersections

Table 3.2: Safe intersection sight distance (SISD) and corresponding minimum crest vertical curve size for sealed roads (S < L)

Design speed (km/h)	Based on safe intersection sight distance for cars ⁽¹⁾ $h_1 = 1.1; h_2 = 1.25, d = 0.36^{(2)}$; Observation time = 3 sec					
	$R_T = 1.5 \text{ sec}^{(3)}$		$R_T = 2.0 \text{ sec}$		$R_T = 2.5 \text{ sec}$	
	SISD (m)	K	SISD (m)	K	SISD (m)	K
40	67	4.9	73	6	–	–
50	90	8.6	97	10	–	–
60	114	14	123	16	–	–
70	141	22	151	25	–	–
80	170	31	181	35	–	–
90	201	43	214	49	226	55
100	234	59	248	66	262	74
110	–	–	285	87	300	97
120	–	–	324	112	341	124
130	–	–	365	143	383	157

Revision notes:

Rev:	Date:	Notes:
1	25/02/2023	60km/h design speed assumed for southbound traffic. This is conservative as the Broadhurst Crescent is 86m in length between Marsengo Rd and Islip Court. Southbound traffic will need time to accelerate and may not achieve this speed. For 60km/h design speed, an SISD of 123m is required. The SISD assessment indicates that a driver on Islip Court can see all the way to the termination of Broadhurst Crescent to the north.

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