



DETAIL E FUSE PLATES DETAIL (TWO OR MORE SUPPORTS ONLY)

TABLE 3

	POST SPECIFICATION			MULTIPOLE SLIP BASE DETAIL						
	POST DIMENSIONS	WALL THICKNESS	GRADE	SLIP BASE DETAIL				FUSE PLATE DETAIL		
				'Tb'	'p'	'Sb'	'V'	'Tf'	'm'	'Sf'
CHS	60.3 OD (50NB)	2.9	C350L0	16	M16	8	16	8	40	3
	76.1 OD (65NB)	3.2	C350L0	16	M16	8	16	8	45	3
	88.9 OD (80NB)	3.2	C350L0	16	M16	8	16	8	55	3
	101.6 OD (90NB)	3.2	C350L0	16	M16	8	20	8	60	3
	114.3 OD (100NB)	3.6	C350L0	16	M16	8	25	8	70	3
	139.7 OD (125NB)	5.0/3.5	C250L0/C350L0	20	M16	8	32	8	85	3
	165.1 OD (150NB)	5.0/3.5	C250L0/C350L0	20	M20	8	32	8	100	3
RHS	75 x 50	3.0	C450L0	20	M16	8	25	8	35	3
	100 x 50	4.0	C450L0	20	M16	10	25	8	35	3
	125 x 75	3.0	C450L0	20	M16	8	32	8	60	3
	125 x 75	5.0	C450L0	25	M20	12	32	10	60	4
	150 x 100	5.0	C350L0	25	M20	10	38	10	75	4
	200 x 100	5.0	C350L0	25	M20	10	50	10	75	4

INSTALLATION PROCESS:

- High strength galvanised bolts shall be cleaned, lightly oiled and tensioned as follows:
M36 - 100 Nm
M20 - 30 Nm
M16 - 20 Nm
- Assemble upper to lower base plate with one structural washer on each bolt between plates with washer above the keeper plate.
- Seal gap between base plates with caulking compound.
- Tension the structural nut to the required tension. Install lock nut at tension until it is snug tight. Ensure structural bolt and nut do not turn during the installation of the thin nut.

NOTES:

- SLIP BASE shall be shop assembled with correct bolt tensioning prior to transport to site where possible.
- STEELWORK shall be fabricated to the requirements of MRTS78. RHS and CHS tube to AS/NZS 1163. Steel plate shall be Grade 250 to AS/NZS 3678. Bolts Class 8.8, nuts Class 8 and washers for Class 8.8 bolts to AS/NZS 1252. Lock nuts Class 5 to AS 1112. All bolts and nuts shall be hot dip galvanised to AS 1214. All other steelwork shall be hot dip galvanised to AS/NZS 4680. Prior to galvanising, all weld splatter and welding slag is to be removed.
- WELDING symbols to AS/NZS 1101.3. All welding to AS/NZS 1554.1. All welds, except location tack welds, to be SP Category. Welding consumables shall be as follows:
- for RHS, controlled hydrogen type G49A3 to AS/NZS ISO 14341-B, or T49A3 to AS/NZS ISO 17632-B.
- for CHS, controlled hydrogen type G43A3 to AS/NZS ISO 14341-B, or T43A3 to AS/NZS ISO 17632-B; or stick type E4313 to AS/NZS 4855-B. Weld sizes shall be strictly adhered to, to ensure satisfactory performance of fuse plate hinge.
- Dimensions are in millimetres unless shown otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:

- Manual of Uniform Traffic Control Devices (MUTCD)
- Design Guide for Roadside Signs
- Product Index for Bridges and Other Structures

REFERENCED DOCUMENTS:

- Departmental Standard Drawings:
1363 Traffic Sign - Multiple Traffic Sign Support Standard and Breakaway Posts

Departmental Specifications:

- MRTS14 Road Furniture
- MRTS78 Fabrication of Structural Steelwork

Department of Transport and Main Roads			
TRAFFIC SIGN			
TRAFFIC SIGN SUPPORT BREAKAWAY POST DETAILS (TWO OR MORE SUPPORTS)		A3	Standard Drawing No
		Not to Scale	1365
			Date 7/17