



**TREAD FOOTINGS**

**UNSTABLE OR SANDY SOILS**

IN UNSTABLE OR SANDY SOILS, THE FIRST TREAD, OF A RUN OF TREADS, MUST HAVE A SLAB FOOTING OF AT LEAST 75mm THICK/DEEP POURED BENEATH THE FIRST TREAD. THIS FOOTING MUST BE AT LEAST THE FULL LENGTH AND BREADTH OF THE TREAD. THE FIRST TREAD IS THEN LAID ON A MORTAR BED, LEVEL AND PLUMB ON THE FOOTING.

EACH INDIVIDUAL TREAD LAID AFTER THE FIRST, WILL LAP THE BACK OF THE LOWER TREAD BY 50mm, AND BE SUPPORTED BY A CONCRETE SLAB FOOTING OR AT LEAST A SKIRT FOOTING UNDER THE BACK AND SIDE WALLS OF THE TREAD. THE SKIRT FOOTING IS TO BE A MINIMUM OF 100mm WIDE AND 75mm DEEP AND MUST BE POURED ON SOLID GROUND OR COMPACTED ROAD BASE.

THE MORTAR BED IS THEN LAID ON THE FOOTING AND ALONG THE BACK OF THE FIRST TREAD, THE TREAD IS THEN SETTLED PLUMB AND LEVEL. THIS PROCESS CONTINUES UNTIL THE LAST TREAD IN THE RUN OF TREADS IS LAID. NO RUN OF TREADS IS TO EXCEED FIFTEEN (15) TREADS.

TEMPORARY EDGE BOXING SHOULD BE USED WHERE NECESSARY SO THE FOOTING REMAINS DIRECTLY UNDER THE TREAD. THIS WILL ENSURE THE FOOTING WILL NOT BE IN THE WAY OF THE TREAD RETENTION ROCK. IF RAPID SET CONCRETE IS USED, IT MUST BE MIXED THOROUGHLY AS PER MANUFACTURER'S INSTRUCTIONS SO AS TO PRODUCE A CONSISTENT AND STRONG MIX.

**STABLE SOILS**

IN SOLID STABLE GROUND (ie. SHALE TYPE MATERIALS), TREADS MAY BE LAID ON GROUND OR ON WELL COMPACTED, GOOD QUALITY ROAD BASE PLUMBED AND LEVELLED WITH A MORTAR BED. IF ROAD BASE IS NEEDED UNDER THE TREAD, IT IS TO BE A MINIMUM OF 75mm DEEP AND BE CONTAINED AND COMPACTED WITHIN AN EARTHEN CUT OR RETAINED BY THE MOST APPROPRIATE RETENTION STONE. THE COMPACTED AND RETAINED ROAD BASE MUST BE LAID THE FULL WIDTH AND BREADTH OF THE BASE OF THE TREADS. NO RUN OF TREADS IS TO EXCEED FIFTEEN (15) TREADS.

WHERE THE ROAD BASE CAN NOT BE RETAINED OR COMPACTED, IT MUST BE REPLACED WITH A CONCRETE FOOTING. ALL TREADS AND FOOTINGS MUST BE RETAINED TO 75mm BELOW THE FOOTING.

THE TREADS ARE DESIGNED TO HAVE A 300mm RUN WITH A 170mm RISE. THE RISE INCLUDES A 10-15mm THICK MORTAR BED. A 75mm X 75mm FOOTING MUST BE POURED SO THE MORTAR BONDS CLEANLY TO THE FOOTING WITHOUT ANY LOOSE MATERIAL BETWEEN THE MORTAR AND FOOTING. IF THE ALTERNATIVE METHOD OF COMPACTED ROAD BASE IS USED, THE ROAD BASE MUST CONTAIN CLAY FINES AND BE WELL COMPACTED.

THE MORTAR BED SHOULD BE LAID DEEP AND WIDE ENOUGH SO THAT IT CAN OVERFLOW UP AND INTO THE TREAD HOLLOW FOR THE FULL CIRCUMFERENCE OF THE TREAD WALL. RETENTION ROCK MAIN COMPONENT OF STABILISING TREAD. TO MINIMISE THE TREAD MOVEMENT AFTER THE MORTAR IS SET ON THE FOOTING. TREAD MOVEMENT MUST ALSO BE PREVENTED BY RETENTION ROCK.

**Gold Coast City Council**  
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THIS DRAWING IS NOT TO BE AMENDED WITHOUT REFERENCE TO STANDARDS COMMITTEE			
No.	AMENDMENT	APPROVED	DATE

CONTROLLED DOCUMENT
ISSUED

DO NOT SCALE TAKE FIGURED DIMENSIONS ONLY	
DRAFTING BY TECHNICAL SERVICES BRANCH	
PASSED - COORDINATOR OPEN SPACE ASSETS	
SIGNED:	NAME: CAMERON TAYLOR DATE: 6/12/12
APPROVED - MANAGER PARKS & RECREATIONAL SERVICES	
SIGNED:	NAME: RON JACOBS DATE: 6/12/12

**STANDARD DRAWING**

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