



TYPICAL SECTION

SPECIFICATIONS

- 1. SLEEPER CONCRETE GRADE TO BE S50. RIGID FORMWORK & INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS 3600 IS REQUIRED FOR CASTING EACH SLEEPER.
- 2. HAND COMPACTING EQUIPMENT ONLY IS PERMITTED TO BE USED ADJACENT SLEEPERS (WITHIN DISTANCE = 0.75H)
- 3. THESE SLEEPER SPECIFICATIONS ARE ONLY SUITABLE FOR USE WITH RETAINING WALLS WHICH SATISFY THE FOLLOWING CONDITIONS/LIMITATIONS.
- THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS. FOR EXAMPLE, NEARBY EXISTING RETAINING WALLS, STRUCTURES OR BUILDINGS WITHIN A DISTANCE EQUAL TO TWO TIMES THE WALL HEIGHT.
- THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LEVEL OR ONLY SLIGHT ie. LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL.
- THE WALL BACKFILL IS FREE DRAINING, CONSISTING OF SAND &/OR GRAVEL.
- ALL SUB-SURFACE WATER IS DRAINED BY MEANS OF AN AGRICULTURAL DRAIN, OR OTHER SUITABLE METHOD.
- SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION & ERECTION.
- 4. SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN 25mm EACH END.
- 5. FOR DETERMINATION OF THE APPROPRIATE SLEEPER TYPE, THE HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE APPLICABLE SLEEPER. A WALL FACE CROSS SECTION MAY CONSIST OF VARIOUS SLEEPER TYPES.

ASSUMED SOIL PROPERTIES						
γs	Ξ	18kN/m³				
Ø	=	30°				
ASSUMED MAX. SURCHARGE						
Q	Ξ	5kPa				

SLEEPER LENGTH (I) =	· · .				
WALL TYPE	TYPE WALL HEIGHT (h) THICKNESS t (mm)		REINFORCEMENT		
2.4m STANDARD	≤ 1.4	80	2-N10		
2.4m HEAVY DUTY	1.4m < h ≤ 2.5m	100	2-N10		
2.4m EXTRA HEAVY DUTY	2.5m < h ≤ 4.0m	130	2-N10		

REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHK.
0	24.11.17	CONSTRUCTION ISSUE	RB	NM	(L
1	09.02.21	REVISED CONSTRUCTION ISSUE	EB	HAB	(L

CONSTRUCTION

ISSUE

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CONCRETE SLEEPERS OUTBACK SLEEPERS AUSTRALIA P/L

2400mm LONG SLEEPER

A3

DRAWING NUMBER Sheet No. Rev.

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