## **Concrete Sleepers**

## **Engineering Certificate** (2400mm Long)

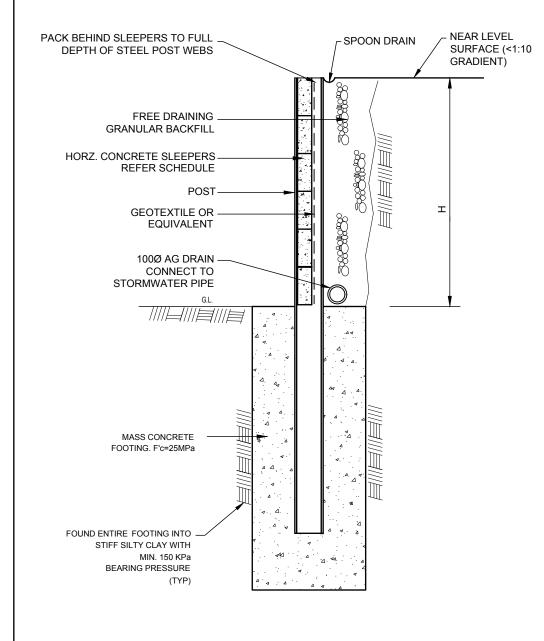
ABN 23 646 746 027

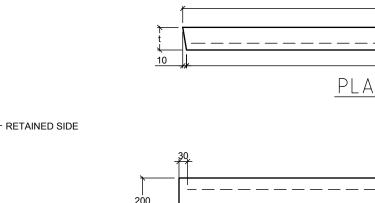
72 Officer S Rd, Officer VIC 3809



+61 410 818 242 info@sunsetsleepers.com.au

www.SunsetSleepers.com.au





SECTION VIEW

30mm COVER TO BAR

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		<u>SPE</u>	CIFICA
		1.	SLEE SLEE COM
REINFORCEMENT TYPES	3	2.	THES SUIT SATIS
TYPE A	EITHER: 2/N12, 3N10, 2/12mm GFRP (60GPa) OR ALSO 2/N10 USING 60MPa CONCRETE	-	THE LOAD
ТҮРЕ В	EITHER: 2/N10, 2/10mm GFRP (60GPa)		CALC

## TYPICAL SLEEPER RETAINING WALL DETAIL

SLEEPER SIZE = 2400 LONG X 200mm DEEP							
WALL TYPE	THICKNESS (t)	REINFORCEMENT	SOIL RETAINED (H) 5KPa	SOIL RETAINED (H) 10KPa			
2400-77-A	77mm	TYPE A	1.8m	1.4m			
2400-100-A	100mm	TYPE A	3.0m	2.8m			
2400-120-A	120mm	TYPE A	4.0m	3.6m			
2400-77-B	77mm	TYPE B	1.4m	1.2m			
2400-100-B	100mm	TYPE B	1.8m	1.6m			
2400-120-B	120mm	TYPE B	3.0m	2.6m			

ASSUMED S PROPERTI	
SOIL DENSITY (kN/m^3)	18
Ка	0.35
INTERNAL FRICTION ANGLE	30 DEGREE



TITLE: CONCRETE SLEEPER RETAINING WALL (2400 LONG)

FOR PROJECT: CONSTRUCTION CONCRETE SLEEPER DESIGN

		2400				,	r	
	<u>PLAN VIEW</u>						<u>, 10</u>	
						RAL. F	MENT NOT REFER TO	
			·					
		ELEVATION '	view					
	SPECIFICATIONS:							
	1. SLEEPER CONCRETE GRADE TO BE N40. CASTING EAC SLEEPER REQUIRES RIGID FORMWORK AND CONCRET COMPACTION IN ACCORDANCE WITH AS3600							
		2. THESE SLEEPER WALLS SPECIFICATIONS ARE ONLY SUITABLE FOR USE WITH RETAINING WALLS WHICH SATISFY THE FOLLOWING CONDITIONS:						
<ul> <li>THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS, THE SURCHARGE LOADS THAT INCLUDED CALCULATION IS 5kPA or 10 kPa</li> </ul>					-			
<ul> <li>THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LEVEL OR ONLY SLIGHT (LESS THAN 1 VERTICAL RISE 10 HORIZONTAL)</li> <li>THE WALLS BACKFILL IS FREE DRAINING CONSISTING SAND &amp;/OR GRAVEL</li> </ul>								
						STING OF		
_	- ALL SUB-SURFACE WATER IS DRAINED BY MEANS OF AN AGRICULTURAL DRAIN, OR OTHER SUITABLE METHOD.							
	- SLEEPERS ARE HANDLED WITH DUE CARE DURING TRANSPORTATION AND ERECTION							
	- SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN 25mm EACH END							
CLIENT: SUNSET SLEEPERS REVISION AMENDED DESCRIPTION DRAWN BY DATE								

SCALE:

For more information visit sunsetsleepers.com.au

## 72 Officer S Rd, OFFICER VIC 3809

Phone0410 818 242Emailinfo@sunsetsleepers.com.auFacebookfacebook.com/sunsetsleepersWebwww.sunsetsleepers.com.au

