Concrete Sleepers Engineering Certificate (1500mm Long)

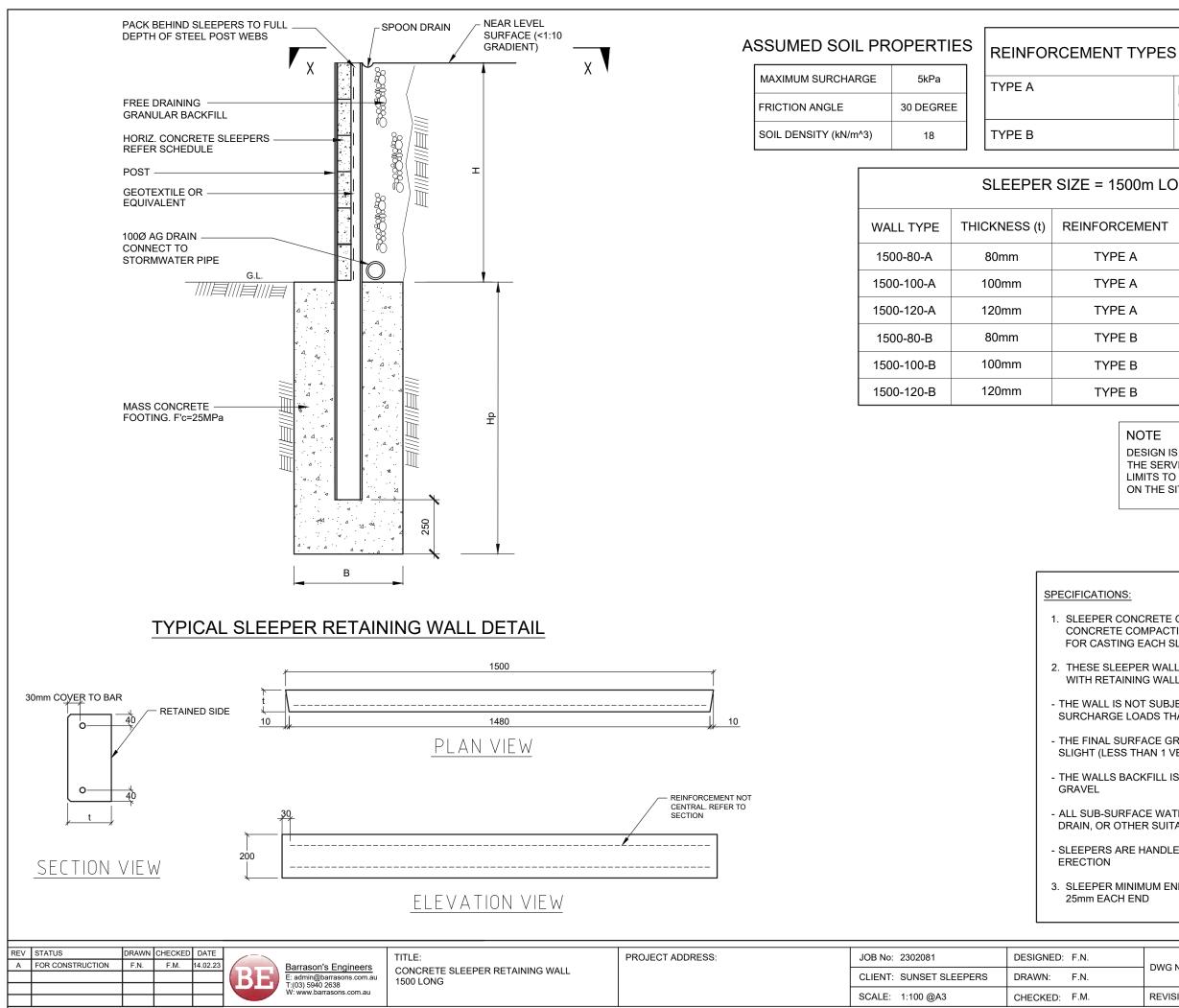
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| EITHER: 2/N12, 3N10, 2/12mm GFRP (60GPa) OR ALSO 2/N10 USING 60MPa CONCRETE |
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| EITHER: 2/N10, 2/10mm GFRP (60GPa) |

SLEEPER SIZE = 1500m LONG X 200mm DEEP

| CEMENT | SOIL RETAINED (H) 5KPa | SOIL RETAINED (H) 10KPa |
|--------|---------------------------|----------------------------|
| ΕA | 3.4 m | 3.0 m |
| ΕA | 5.6 m | 5.2 m |
| ΕA | 6.8 m | 6.4 m |
| ΕB | 2.5 m | 2.2 m |
| ΕB | 4.6 m | 4.0 m |
| ΕB | 6.0 m | 5.4 m |

NOTE

DESIGN IS BASED ON THE STRENGTH REQUIREMENTS ONLY, THE SERVICEABILITY REQUIREMENTS SUCH AS DEFLECTION LIMITS TO BE CHECKED BY THE PROJECT ENGINEER BASED ON THE SITE CONDITIONS & PROJECT REQUIREMENTS.

1. SLEEPER CONCRETE GRADE TO BE N40. RIGID FORMWORK AND INTENSE CONCRETE COMPACTION IN ACCORDANCE WITH AS3600 IS REQUIRED FOR CASTING EACH SLEEPER

2. THESE SLEEPER WALLS SPECIFICATIONS ARE ONLY SUITABLE FOR USE WITH RETAINING WALLS WHICH SATISFY THE FOLLOWING CONDITIONS:

- THE WALL IS NOT SUBJECT TO HEAVY SURCHARGE LOADS, THE SURCHARGE LOADS THAT INCLUDED IN THIS CALCULATION IS 5kPa

- THE FINAL SURFACE GRADIENT ABOVE THE WALL IS LEVEL OR ONLY SLIGHT (LESS THAN 1 VERTICAL RISE IN 10 HORIZONTAL)

- THE WALLS BACKFILL IS FREE DRAINING CONSISTING OF SAND &/OR

- 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

3. SLEEPER MINIMUM END BEARING LENGTH SHALL NOT BE LESS THAN

| DWG No: | S101 | FOR CONSTRUCTION | |
|-----------|------|---------------------|--|
| REVISION: | A | | |

For more information visit sunsetsleepers.com.au

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