

CONCRIIB

Maximising Land Values

**A Sleeper Wall
that looks great!
and is Termite Free**

**Maximising
Land
Values**



- Easy to Install
- Supply & Install
- Supply Only
- Looks Great
- Lasts a lifetime
- Never Rots



You Choose!

- CURVED OR FLAT FACE SLEEPER BEAMS
- CONCRETE OR GALVANIZED COLUMNS
- SPLIT STONE PATTERN FACE



Looks Good - Lasts a lifetime
 Never Rots - Termite Free

MAXIMISING LAND VALUES



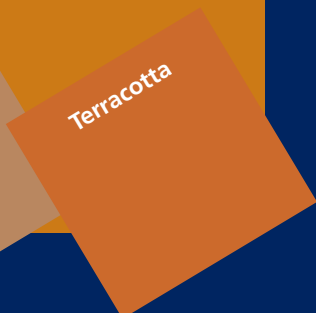
Done once, done right.
With a concrete
sleeper retaining wall!

Colours
readily
available...



The units are manufactured with a natural concrete finish.
These beams are easily coated with any coloured concrete sealers.

Choose from
colours like:



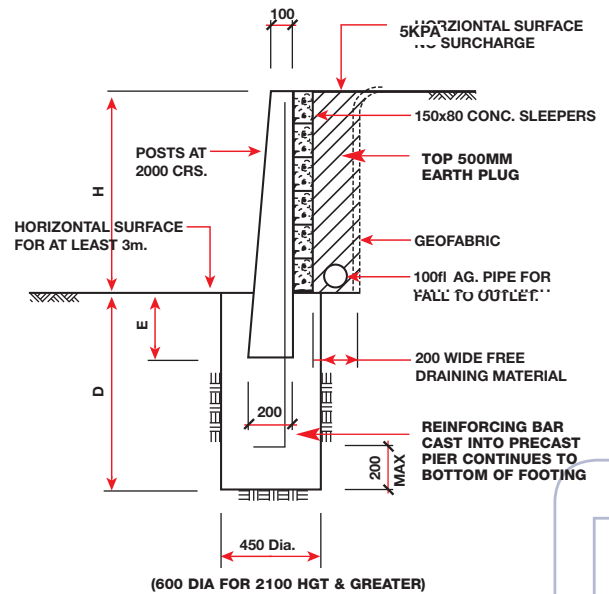
STEP BY STEP INSTALLATION GUIDE

- 1 Prepare footing using the technical information chart below. Place piers. Pour concrete and leave for 24 hours to allow concrete to set.
- 2 Place beams behind piers for the first course.
- 3 Lay drainage pipe behind sleeper beams for the length of the wall.
- 4 Lay geofabric against cut embankment face.
- 5 Fill behind wall to a width of 200mm with gravel or other suitable material to within 500mm of top of wall.
- 6 Continue placing beams on top of existing course and backfill as you go.
- 7 Backfill and compact top 500mm with suitable soil to allow vegetation growth.

NOTES

- Wall to be founded into firm natural ground having safe bearing capacity of not less than 150 kPa.
- Manufactured to AS3600
- Designed to AS4678-2002, 60 year design life.

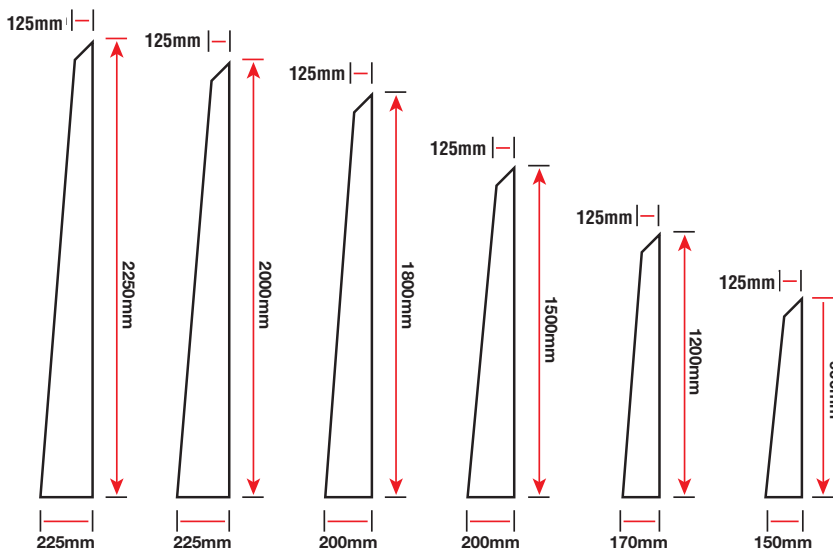
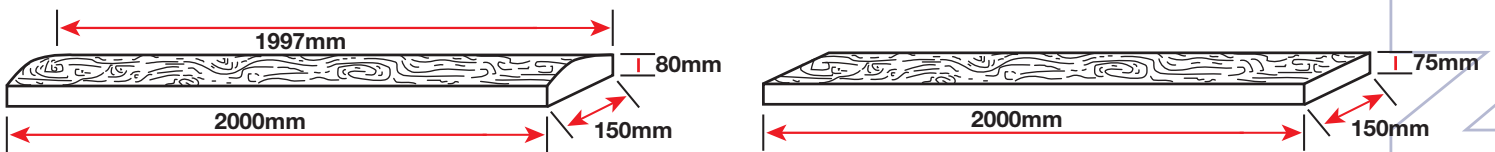
Formation:



LOADING/DESIGN PARAMETERS

- Soil: 2.0 t/m³ Density 30° Internal angle of friction Bearing capacity 150 kPa
- Loading - 5 kPa surcharge
- For walls over 1950mm height further advice should be sought. Single extra beams are required at base of wall.

Beam Profile:



Retaining wall height 'H' (mm)	Vertical Post Length (mm)	Footing Depth 'D' (mm)	Pier Embedment 'E' (mm)
600	750	900	150
750	900	1050	150
900	1050	1200	150
1050	1200	1200	150
1200	1350	1350	150
1350	1500	1500	150
1500	1650	1650	150
1650	1800	1800	150
1800	1950	1950	150
1950	2100	2100	150
2100	2250	2100	150
2250	2400	2250	150
2400	2550	2400	150
2550	2700	2550	150
2700	3000	2700	300

We specialise in value engineering with design, advice and budget planning.

RING NOW FOR FREE ADVICE

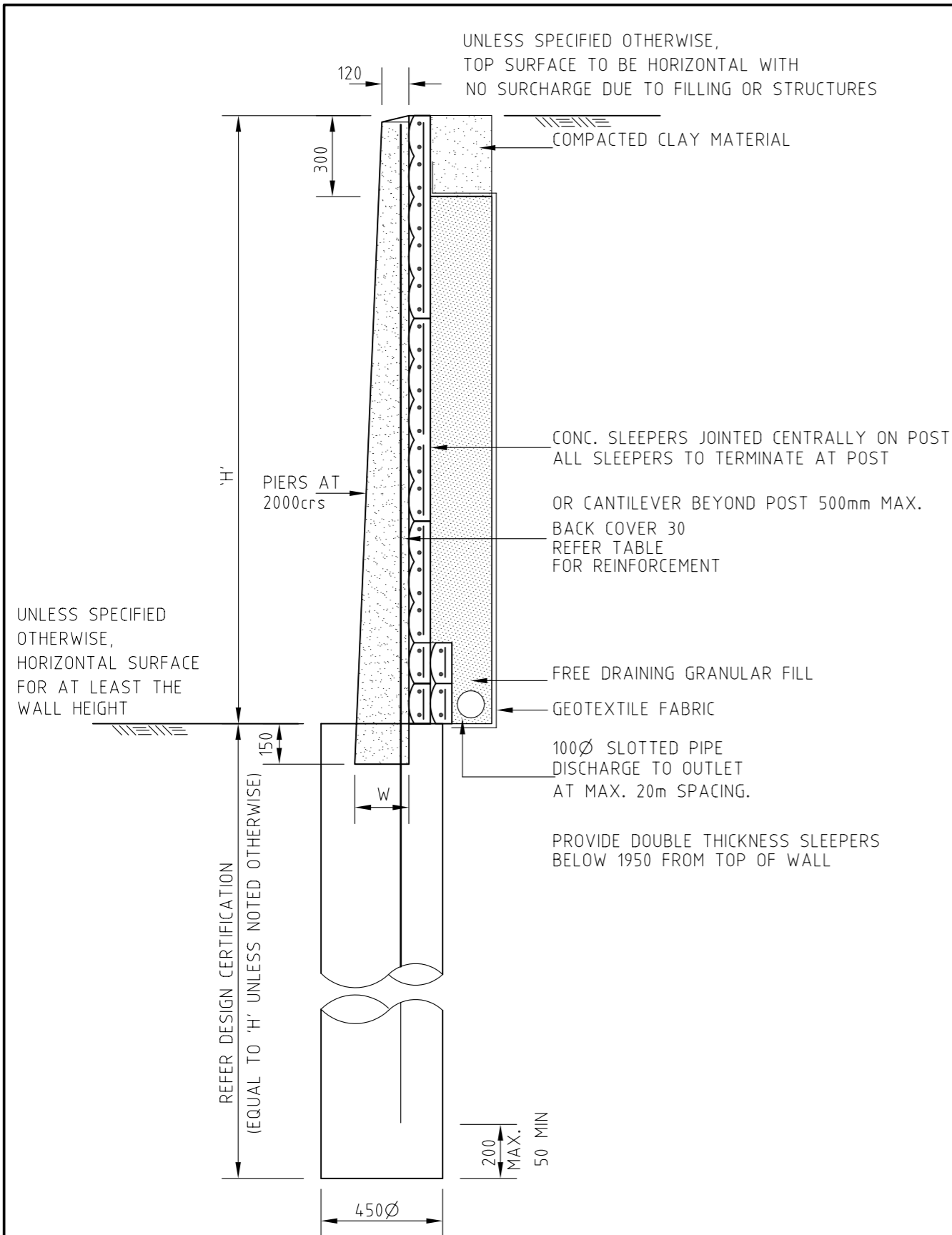
CONCRIB
Maximising Land Values

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SECTION - TYPICAL SLEEPER WALL

DESIGN PARAMETERS

- DESIGN IS BASED UPON:
EARTH-RETAINING STRUCTURES CODE AS 4678-2002
CONCRETE STRUCTURES CODE AS3600-2001
BUILDING CODE OF AUSTRALIA
PROTOTYPE TESTING AT THE UNIVERSITY OF QUEENSLAND
- LAND SLIPS (e.g. SLIP CIRCLE FAILURE MECHANISMS) HAVE NOT BEEN CONSIDERED IN THE RETAINING WALL DESIGN. THE DESIGN IS BASED UPON THE ASSUMPTION THAT THE WALL IS FOUNDED ON GROUND NOT SUBJECT TO SLIP. THE DETERMINATION OF THE SITE SUSCEPTIBILITY TO SLIP IS THE RESPONSIBILITY OF THE PROJECT ENGINEER AND THE GEOTECHNICAL CONSULTANT.
- REFER DESIGN CERTIFICATION FOR RETAINED AND FOUNDING SOIL DESIGN PARAMETERS, DESIGN SURCHARGE LOADS and WALL DESIGN GEOMETRY

CONCRETE STANDARD - AS3600
STANDARD DESIGN EXPOSURE CLASSIFICATION
SLEEPERS & POSTS - B1, FOOTINGS - A1

ELEMENT	GRADE	SLUMP	MIN. COVER
SLEEPER	N50	50mm	20mm * **
POST	N50	50mm	20mm * **
FOOTING	N25	80mm	70mm

* RIGID FORMWORK & INTENSE COMPACTION

** MINIMUM SPECIFIED COVER 25mm.

REINFORCEMENT STANDARD - AS/NZS 4671
YIELD 500 MPa; DUCTILITY CLASS N

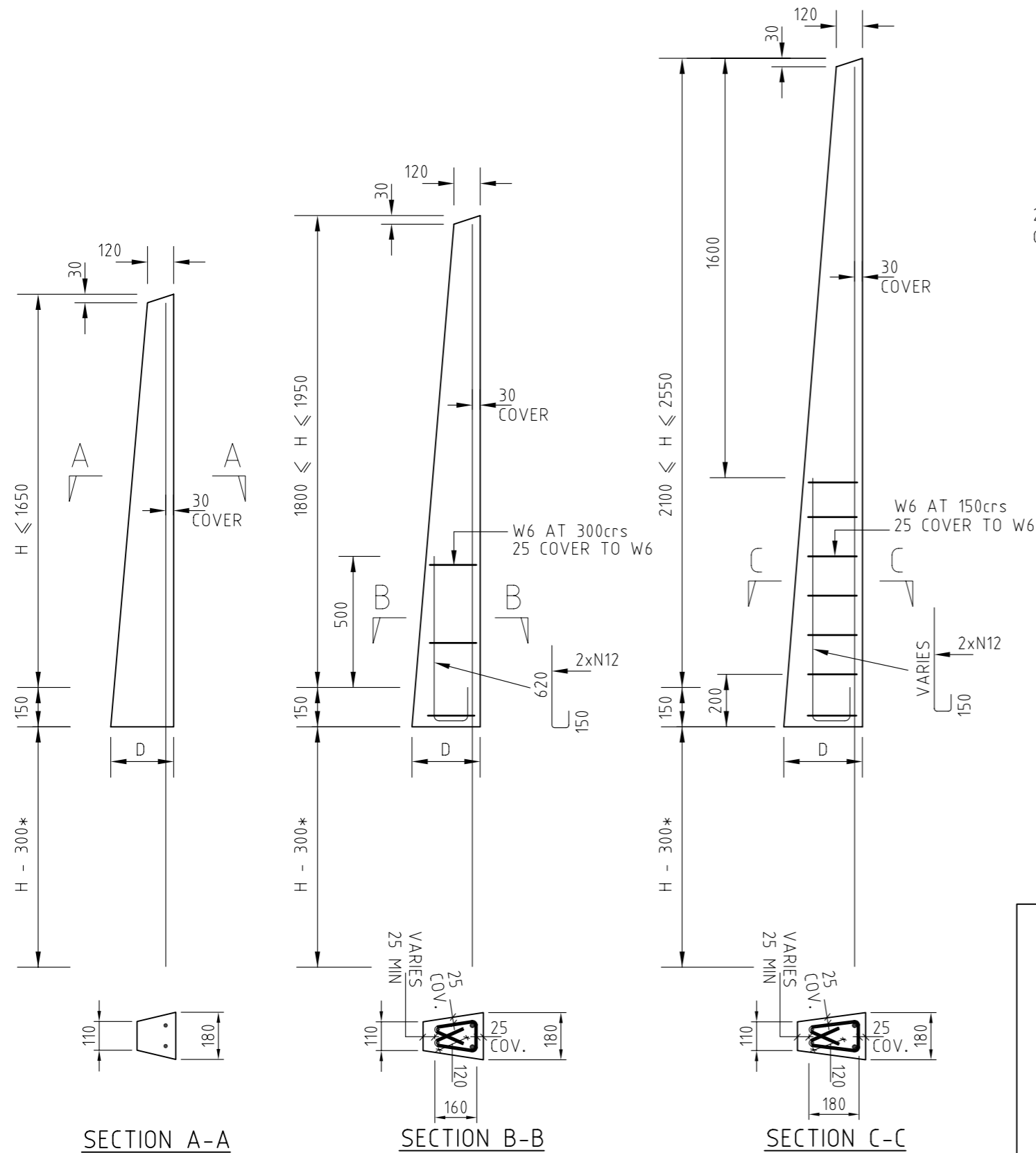
- ALL SURFACE AND SUBSURFACE DRAINAGE SHALL BE DESIGNED IN ACCORDANCE WITH AS4678-2002.

RETAINING WALL HEIGHT 'H' (mm)	PIER STEM WIDTH 'W' (mm)	REINFORCING BARS
600	170	2N12
750	180	2N12
900	190	2N16
1050	200	2N16
1200	210	2N16
1350	220	2N16
1500	230	2N16
1650	240	2N16
1800	250	2N20
1950	260	2N20
2100	270	2N20
2250	280	2N20
2400	290	2N20
2550	300	2N20

CONCRIB[®] SEGMENTAL RETAINING SLEEPER WALLS SHALL:

- BE DESIGNED IN ACCORDANCE WITH AS 4678 - 2002
- BE CONSTRUCTED IN ACCORDANCE WITH CONCRIB SPECIFICATION MC.02 & MANUFACTURERS RECOMMENDATIONS.
- HAVE SURFACE AND SUBSURFACE DRAINAGE DESIGNED IN ACCORDANCE WITH AS4678 - 2002
- HAVE GEOTECHNICAL DESIGN AND VERIFICATION CARRIED OUT BY A SUITABLY QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER (E.G FOUNDATION, SLOPE STABILITY & DRAINAGE DESIGN/SPECIFICATION)

							Designed By _____ Date _____ Drawn By _____ Date _____ Approved _____ Date _____		Project Title CONCRIB SEGMENTAL RETAINING SLEEPER WALLS SYSTEM DETAILS Client/Developer _____		Drawing Title STANDARD SLEEPER WALL SECTION	
A FOR INFORMATION ONLY							Scale 1:20		AutoCad Ref			
Rev.	Issue/Revision - Revise on CAD	Engineer	Approved	Date			Project No RS STD-C-S		Dwg. No 1		Revision A	

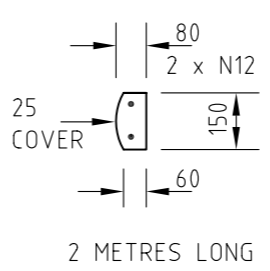


SECTION A-A

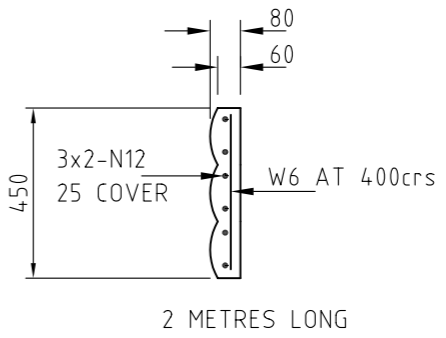
SECTION B-B

SECTION C-C

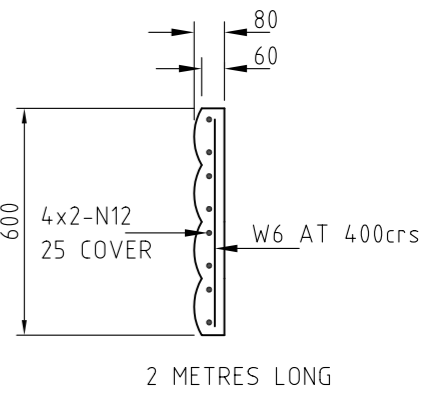
PIER ELEVATIONS



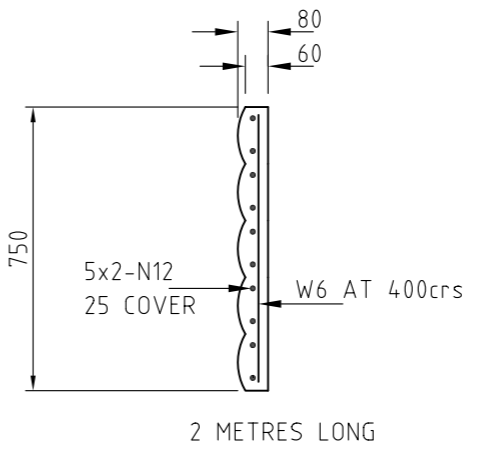
SINGLE SLEEPER PANEL



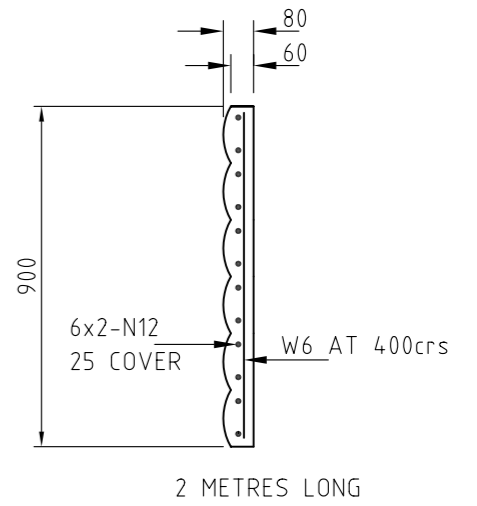
THREE SLEEPER PANEL



FOUR SLEEPER PANEL



FIVE SLEEPER PANEL



SIX SLEEPER PANEL

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									Scale	1:20	AutoCad Ref			
									Project No	RS STD-C-S	Dwg. No	2	Revision	A