

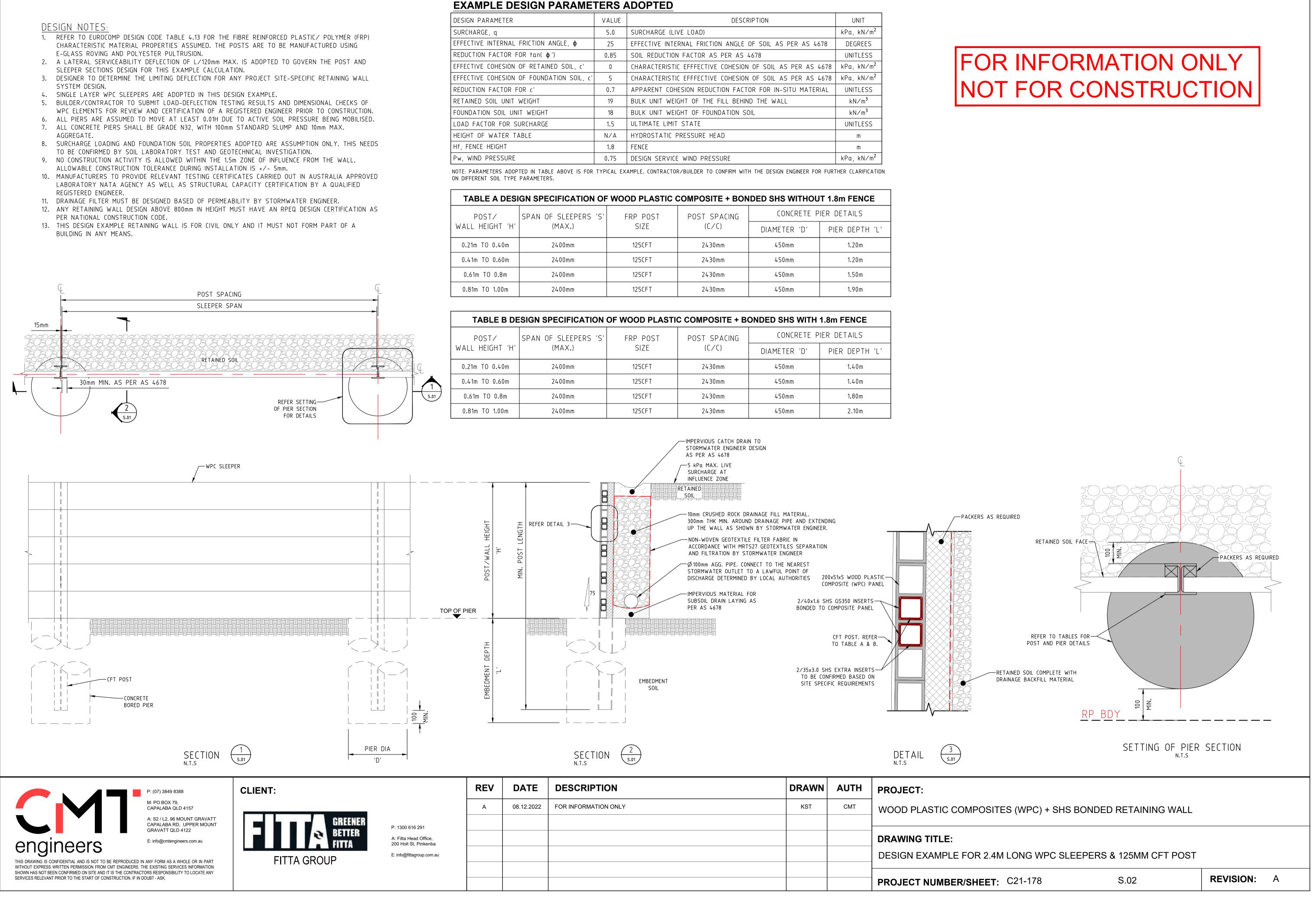
ARAMETER	VALUE	DESCRIPTION	UNIT
GE, q	5.0	SURCHARGE (LIVE LOAD)	kPa, kN∕m²
E INTERNAL FRICTION ANGLE, $oldsymbol{\phi}$	25	EFFECTIVE INTERNAL FRICTION ANGLE OF SOIL AS PER AS 4678	DEGREES
N FACTOR FOR tan(q ')	0.85	SOIL REDUCTION FACTOR AS PER AS 4678	UNITLESS
E COHESION OF RETAINED SOIL, c'	0	CHARACTERISTIC EFFFECTIVE COHESION OF SOIL AS PER AS 4678	kPa, kN∕m²
E COHESION OF FOUNDATION SOIL, c'	5	CHARACTERISTIC EFFFECTIVE COHESION OF SOIL AS PER AS 4678	kPa, kN∕m²
N FACTOR FOR c'	0.7	APPARENT COHESION REDUCTION FACTOR FOR IN-SITU MATERIAL	UNITLESS
SOIL UNIT WEIGHT	19	BULK UNIT WEIGHT OF THE FILL BEHIND THE WALL	kN∕m³
ION SOIL UNIT WEIGHT	18	BULK UNIT WEIGHT OF FOUNDATION SOIL	kN∕m³
CTOR FOR SURCHARGE	1.5	ULTIMATE LIMIT STATE	UNITLESS
F WATER TABLE	N⁄A	HYDROSTATIC PRESSURE HEAD	m
E HEIGHT	1.8	FENCE	Π
PRESSURE	0.75	DESIGN SERVICE WIND PRESSURE	kPa, kN∕m²

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LE A DESIGN SPECIFICATION OF WOOD PLASTIC COMPOSITE + BONDED SHS WITHOUT 1.8m FENCE							
DST/	SPAN OF SLEEPERS 'S'	FRP POST	POST SPACING	CONCRETE P	IER DETAILS		
HEIGHT 'H'	(MAX.)	SIZE	(C∕C)	DIAMETER 'D'	PIER DEPTH 'L'		
TO 0.40m	2400mm	100CFT	2430mm	450mm	1.20m		
TO 0.60m	2400mm	100CFT	2430mm	450mm	1.20m		
TO 0.8m	2400mm	100CFT	2430mm	450mm	1.50m		
TO 1.00m	2400mm	100CFT	2430mm	450mm	1.90m		

OST/	SPAN OF SLEEPERS 'S'	FRP POST	POST SPACING	CONCRETE PIER DETAILS		
HEIGHT 'H'	(MAX.)	SIZE	(C/C)	DIAMETER 'D'	PIER DEPTH 'L'	
TO 0.40m	2400mm	100CFT	2430mm	450mm	1.40m	
TO 0.60m	2400mm	100CFT	2430mm	450mm	1.40m	
TO 0.8m	2400mm	100CFT	2430mm	450mm	1.80m	
TO 1.00m	2400mm	100CFT	2430mm	450mm	2.10m	

REV	DATE	DESCRIPTION	DRAWN	AUTH	PROJECT:
А	08.12.2022	FOR INFORMATION ONLY	KST	СМТ	WOOD PLASTIC COMPOSITES
					DRAWING TITLE:
					DESIGN EXAMPLE FOR 2.4M L
					PROJECT NUMBER/SHEET: (



ARAMETER	VALUE	DESCRIPTION	UNIT
GE, q	5.0	SURCHARGE (LIVE LOAD)	kPa, kN∕m²
E INTERNAL FRICTION ANGLE, $oldsymbol{\phi}$	25	EFFECTIVE INTERNAL FRICTION ANGLE OF SOIL AS PER AS 4678	DEGREES
N FACTOR FOR tan(q ')	0.85	SOIL REDUCTION FACTOR AS PER AS 4678	UNITLESS
E COHESION OF RETAINED SOIL, c'	0	CHARACTERISTIC EFFFECTIVE COHESION OF SOIL AS PER AS 4678	kPa, kN∕m²
E COHESION OF FOUNDATION SOIL, c'	5	CHARACTERISTIC EFFFECTIVE COHESION OF SOIL AS PER AS 4678	kPa, kN∕m²
N FACTOR FOR c'	0.7	APPARENT COHESION REDUCTION FACTOR FOR IN-SITU MATERIAL	UNITLESS
SOIL UNIT WEIGHT	19	BULK UNIT WEIGHT OF THE FILL BEHIND THE WALL	kN∕m³
ION SOIL UNIT WEIGHT	18	BULK UNIT WEIGHT OF FOUNDATION SOIL	kN∕m³
CTOR FOR SURCHARGE	1.5	ULTIMATE LIMIT STATE	UNITLESS
F WATER TABLE	N⁄A	HYDROSTATIC PRESSURE HEAD	m
E HEIGHT	1.8	FENCE	Π
PRESSURE	0.75	DESIGN SERVICE WIND PRESSURE	kPa, kN∕m²

FO	R
NO	T

LE A DESIGN SPECIFICATION OF WOOD PLASTIC COMPOSITE + BONDED SHS WITHOUT 1.8m FENCE						
DST/	SPAN OF SLEEPERS 'S'	FRP POST	POST SPACING	CONCRETE P	IER DETAILS	
HEIGHT 'H'	(MAX.)	SIZE	(C/C)	DIAMETER 'D'	PIER DEPTH 'L'	
TO 0.40m	2400mm	125CFT	2430mm	450mm	1.20m	
TO 0.60m	2400mm	125CFT	2430mm	450mm	1.20m	
TO 0.8m	2400mm	125CFT	2430mm	450mm	1.50m	
TO 1.00m	2400mm	125CFT	2430mm	450mm	1.90m	

OST/	SPAN OF SLEEPERS 'S'	FRP POST	POST SPACING	CONCRETE PIER DETAILS		
HEIGHT 'H'	(MAX.)	SIZE	(C/C)	DIAMETER 'D'	PIER DEPTH 'L'	
TO 0.40m	2400mm	125CFT	2430mm	450mm	1.40m	
TO 0.60m	2400mm	125CFT	2430mm	450mm	1.40m	
TO 0.8m	2400mm	125CFT	2430mm	450mm	1.80m	
TO 1.00m	2400mm	125CFT	2430mm	450mm	2.10m	

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					DRAWING TITLE: DESIGN EXAMPLE FOR 2.4M L
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