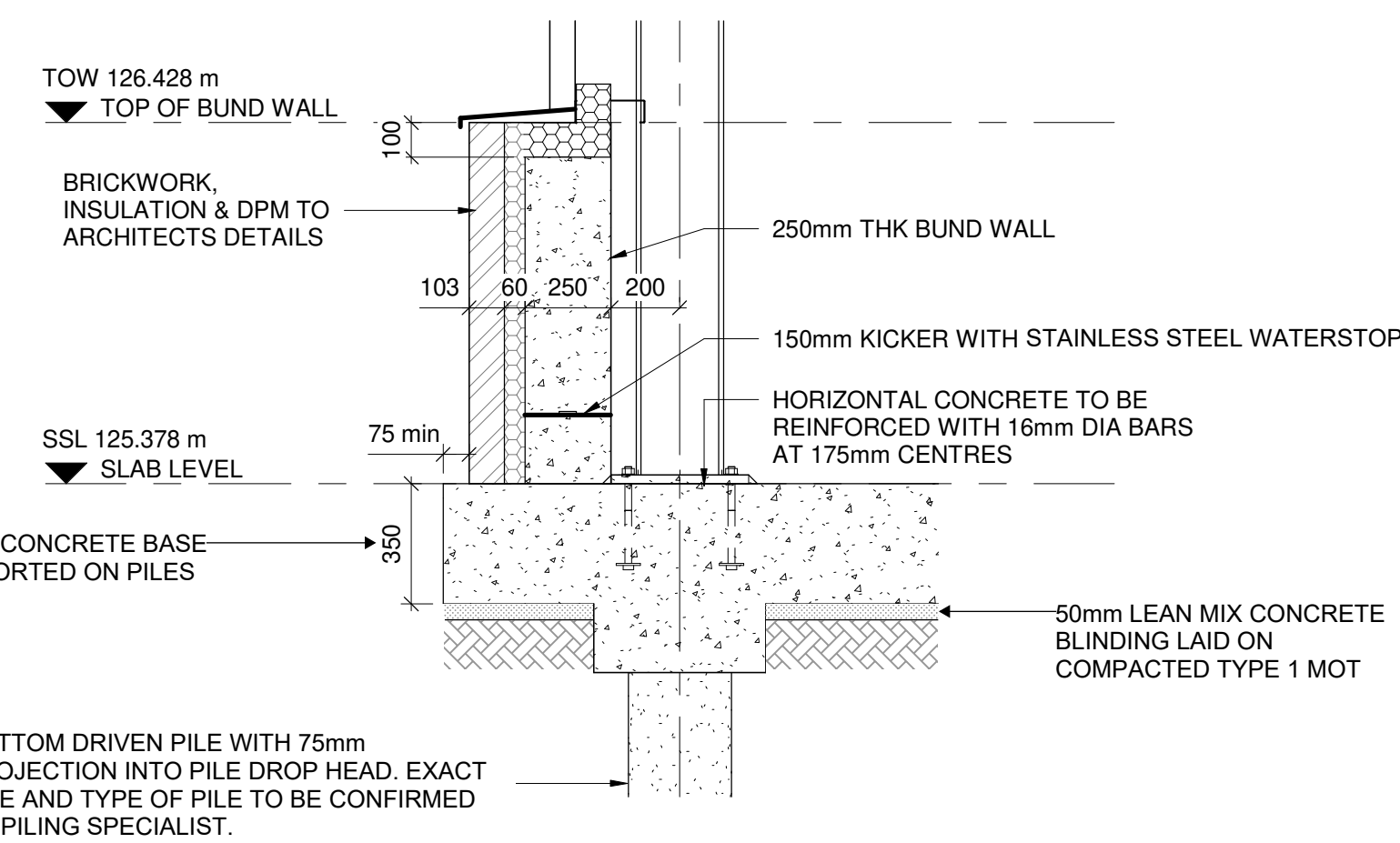




	clancy consulting		*CIRIA GUIDE: *CIRIA C736 Containment Systems for the Prevention of Pollution* HAS BEEN USED TO UNDERTAKE THE CALCULATION FOR REQUIRED BUND HEIGHT
Project:	New Tank Enclosure - Carpenters, Glossop		
Job Number:	12-0390		
Date:	04/01/24		
Revision:	01		

Bund Ref.	Length (m)	Width (m)	Obstructions(m ²)	Area (m ²)
	18.39	5.34	0.00	98.30

Obstructions - plinths etc:

Tank Ref.	Diameter (m)	Height (m)	Volume (m ³)	Area (m ²)	Void under tank	
					Height (m) = Volume (m3)	
1	3.50	6.00	57.73	9.62	0.40	3.85
2	3.50	6.00	57.73	9.62	0.40	3.85
3	3.50	6.00	57.73	9.62	0.40	3.85
4	3.50	6.00	57.73	9.62	0.40	3.85
Total:						15.40
				Total:	230.94	38.49
				Max Vol (m³)	Area (m²)	
					57.73	9.62

Max Volume - tank with the largest volume
Area - the area of the tank with the largest volume

Bund with fall for drainage.	
Fall 1:	
Fall distance	
Volume 0.00	

Fall - additional usable volume from the fall in the bund

Volume- additional usable volume

Bund wall height for 100% of largest tank	
Rain 0.00 mm	
Foam 0 mm	
Wall Height 661 mm	
Dynamic 250 mm	
Minimum Wall 931 mm	

For Rain - See section 4.3.3 of Ciria C736 NB : No allowance for rainfall as building is fully covered

For Foam- See section 4.3.4 of Ciria C736 NB: Foam allowance is assumed to be <250mm (dynamic fluid allowance)

For Dynamic- Table 4.7 of Ciria C736

DESIGN DATA	LOCATION
	BASE SLAB AND BUND WALL
FIRE RATING (MINS)	60
EXPOSURE CLASS	XD3 XF2
DESIGN LIFE (YEARS)	50
MAINTENANCE / REPLACEMENT ASSUMPTIONS	REFER TO ARCHITECTS ACCESS AND MAINTENANCE STRATEGY

SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties		
Appearance:	liquid	
Colour:	colourless	
Odour:	slight inherent odour	
Odour Threshold:	not established	
pH:	5 - 8	
	methanol:water = 9:1	
Pour point:	-33 °C	ISO 3016
Boiling point/boiling range:	> 300 °C at 1,013 hPa	DIN 53171
Flash point:	226 °C at 1,013 hPa	ISO 2719
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Vapour pressure:	6 hPa at 20 °C	EG A4
	9 hPa at 50 °C	EG A4
	10 hPa at 55 °C	EG A4
Vapour density:	not established	
Density:	1.01 g/cm³ at 20 °C	DIN 51757
Miscibility with water:	immiscible at 15 °C	
Surface tension:	not established	
Partition coefficient (n-octanol/water):	not established	
Auto-ignition temperature:	not applicable	
Ignition temperature:	365 °C	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	617.5 mPa.s at 20 °C	DIN 53019
Explosive properties:	not established	
Dust explosion class:	not applicable	
Oxidising properties:	not established	

P02	13.01.2026	UPDATED NOTES TO SUIT COMMENTS	KC	RH	RH
P01	XX.11.2025	ISSUED FOR INFORMATION	KC	RH	RH
Rev	Date	Description	By	Check	App

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Client	CARPENTER LTD		
Project	CARPENTERS, GLOSSOP		
Office	MANCHESTER		
Discipline	STRUCTURAL		
Title	BUND WALL PLANNING APPROVAL DETAILS		
Scale @ A1	NTS	Status	INFORMATION



Job Number 12-4300	Originator CCL	Building/Zone XX	Level XX
Type DR	Discipline S	Drawing No. 0210	Revision P02