

DO NOT SCALE DRAWING

All dimensions in mm U.O.S

Specification Information

"Opening in back wall cast to suit outside diameter of the plpework.

Invert level of pipe can be set to your specification.

Headwall Installation
Units should be bedded on minimum 100mm thick well compacted Class Units should be bedded on minimum 100mm thick well compacted Class 6A\* selected well graded granular material.

\*Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).

Sit the headwall level or with a slight fail 1:50 from pipe to spill mouth.

Weight of concrete is based on 2.4 tonne/m3+5% is weight of concrete is based on 2.4 tonnerms+5% recommended for sizing lifting equipment.

All lifting points shall be used as specified below.

Unit to be lifted as per lifting diagram.

Mix ref: Self-Compacting DC4/DS4 Mix

MIX ref: Self-oppacing IO-4/DS4 MIX Lifting strength based on 2 cubes = 20N/mm2 CharacterIstle 28 day cube strength = 50N/mm2 Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement to BS EN 13369.

Scheduling, dimensioning, bending & cutting to BS8666.
Cage to be machine tied with steel wire.

Manufacture
A. Manufacture to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control Certificate number: 0086-CPR-650448 & BS EN

Tolerances to BS EN 13369 clause 4.3.1.1

Top Sides Rear Rear of back wall
Class A A A Self-Levelled
Marking: Units shall be indelibly marked to show:

Mould Reference code. De-mould date.

Job reference number & unique product number.

Unit weight (kg)

Concrete design to EC2.

JKH have designed the concrete units only, the site conditions should be assessed for suitability by the scheme

designer.
Units are designed to withstand a vertical live load surcharge of 10kN/M2.
Weight of soil = 18kN/M2.

Angle of internal friction = 30° Design Life: >50 years

Min Cover		Min Cover Size (mm)	Max Cover Size (mm)	
All Faces	33	28	38	]
Exposure Classification		Corrosion induced by Chloride	Freeze thow offsetk	Chemics attack

Fabrication Specification
A. Manufacture IAW EN 1090-2 EXC CLASS 1

Material grade is to be: BS EN 10025 S275
Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18

All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible. Ensure vertical flats are fully welded both sides where

possible.

possible.

All sharp edges and burrs are to be removed.

Remove all weld splatter.

Holes by punching are permitted without reaming.

Galvantsing is carried out after fabrication to BS EN: ISO

1461.

Handrall Specification
A. Kee Klamp Galvanised Size 8 Fittings.
B. Size 8 48.3mm OD 3.2mm Wall Trickness Galvanised
Medium Duty Tube to BS EN 10255.
C. 360/Vm Design Load as stated in BS 6118, BS 6180, BS
6399 & BS 7518, Chill Engineering Specification for the
Middle State of 16/ESSI Water Industry (CESWI)

Other design loads available on reques GRP/FRP Handralls also available.



PROPRIETARY & CONFIDENTIAL

## 2000-1250 + close coupled grating

CLIENT: Client					
SCALE:	NTS	DRAWING DATE:	07/06/2019		
HEADWALL WEIGHT:		GRATING WEIGHT:			
	2750kg		140kg		
TOTAL WEIGHT:	289	90kg			
DRAWN BY:	LC	CHECKED BY:	-		
DRAWING No:					