

NOTES:

All dimensions in mm U.O.S All measurements + 1mm

Opening in back wall cast to suit outside diameter of the

Invert level of pipe can be set to your specification

Headwall Installation
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 fall 1:50 from pipe to spill mouth

Weight of concrete is based on 2.4 tonne/m3+5% is 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 Lifting strength based on 2 cubes = 20N/mm2
Characteristic 28 day cube strength = 50N/mm2

Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement to BS FN 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

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 sultability 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

ı		Size (mm)	Size (mm)	Size (mm)	1
J	AllFaces	33	28	38	]
I	Exposure	Exposure Induced	Consider Induced	Freeze Their	Chemic

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

westing carried out IAW EN 10942 PARA 7.54 - 1.5.16
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

Describe ventical lasts are fully watered both stops where possible.

All sharp edges and burss are to be removed.

Remove all weld splatter.

Holes by punching are permitted without reaming.

Galvanising is carried out after fabrication to BS EN: ISO

Handrall Specification
A. Kee Klamp Galvanised Size 8 Fittings.
S. Ste 9 43.2mm (D3 2.2mm Wall Thickness Galvanised Medium Duly Tube to BS EN 10255.
C. 300Wm Design Load as stated in BS 8116, BS 6180, BS 6398 & BS 71816, CMI Engineering Specification for the Water Industry (CESWI).
D. Other design Load sevalible on request
E. GPPFFP Handralis also available.



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DRAWING TITLE / PROJECT:

2000-2130 + close coupled grating

CLIENT:	LIENT: Client					
SCALE:	NTS	DRAWING DATE:	21/03/2019			
HEADWALL WEIGHT:		GRATING WEIGHT:				
	3680kg		82kg			
TOTAL WEIGHT:	TAL WEIGHT: 3762kg					
DRAWN BY:	DH	CHECKED BY:	JP			