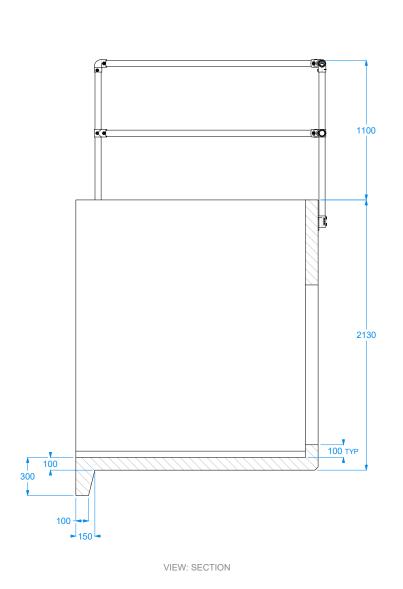
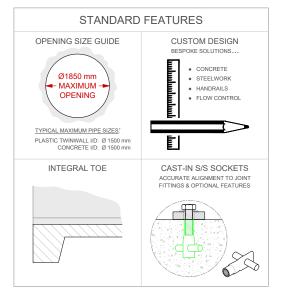


VIEW: FRONT







GRATINGS & TRASH SCREENS

FACTORY FITTED AS STANDARD *WHERE PRACTICAL / SAFE FOR TRANSPOR FULLY WELDED, HOT DIP GALVANISED STEEL & S/S FIXINGS AS STANDARD









KEE KLAMP HANDRAILS





EACTORY FITTED AS STANDARD







HANDRAIL SPECIFICATION

DRAWING NOTES

HANDLING A Weight

MANUFACTURE

DESIGN

of 10kN/M2.

Mould reference code. De-mould date.

HEADWALL INSTALLATION

s in mm U.O.S All measurements ±1mm.

DO NOT SCALE DRAWING

SPECIFICATION INFORMATION
 Opening in back wall cast to suit outer dimension of pipe.
 Invert level of pipe can be set to your specification.

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

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

Lifting strength based on 2 cubes = 20N/mm

Characteristic 28 day cube strength = 50N/mm². Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

REINFORCEMENT
A. Reinforcement to BS EN 13369.
B. Scheduling, dimensions, bends & cutting to BS8666.

Job reference number & unique product number Unit weight (kg).

Design Life as table below * (all cover sizes in mm).

JKH have designed 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

Concrete structure designed to Eurocode 2.

Weight of soil = 18kN/M².
Angle of internal friction = 30 Deg.

All Faces XC3/4

FABRICATION SPECIFICATION
A. Manufacture IAW EN 1090-2 EXC CLASS 1

Kee Klamp® Galvanised Size 8 Fittings Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255.

Factory Stairways, Ladders and Handrails.
Other design loads available on request.
GRP/FRP Handrails also available.

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

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

Remove all weld splatter.

Holes by punching are permitted with reaming.
Galvanising process after fabrication to BS EN ISO1461.

360N/m Design Load as stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition

Manufacture to BS EN 15258:2008 precast concrete products retaining wall elements, factory production control certificate 0086-CPR-650448 & BS EN 13369. Tolerances to BS EN 13369 clause 4.3.1.1.
 Top
 Sides
 Rear
 Rear of Backwall

 Class
 A
 A
 Self - Levelled
 Marking, Units shall be indelibly marked to show:

Cage to be machine tied with steel wire.

C. Unit to be lifted as per lifting diagram CONCRETE

A. Mix ref: Self-compacting DC4 / DS4 Mix.

Units should be bedded on minimum 150mm thick well compacted Class 6N or 6K* well graded granular material with 50mm topping of fine material (Class 6L*) to ensure units are level and stable.



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DRAWING TITLE:

SERIES 2000 HEADWALL (2130 HIGH) LEVEL WINGWALL STANDARD & OPTIONAL FEATURES

TOTAL WEIGHT (CASTINGS ONLY): 4270 kg

CONCRETE MIX DESIGN

CO² EMISSION REDUCTION ★ -50%

DRAWN: PN | ISSUE #: 01 | SHEET #: 1 | DATE: 12/2/24

2000-2130-LW



ALUMINIUM STOPLOG SYSTEM









BACK ONLY (CODE: K30)





VARIOUS BOARD HEIGHT / TYPES AVAILABLE

. LOCKING BRACKETS & T-KEY KITS SUPPLIED,

S/S FIXINGS & RUBBER SEALS AS STANDARD